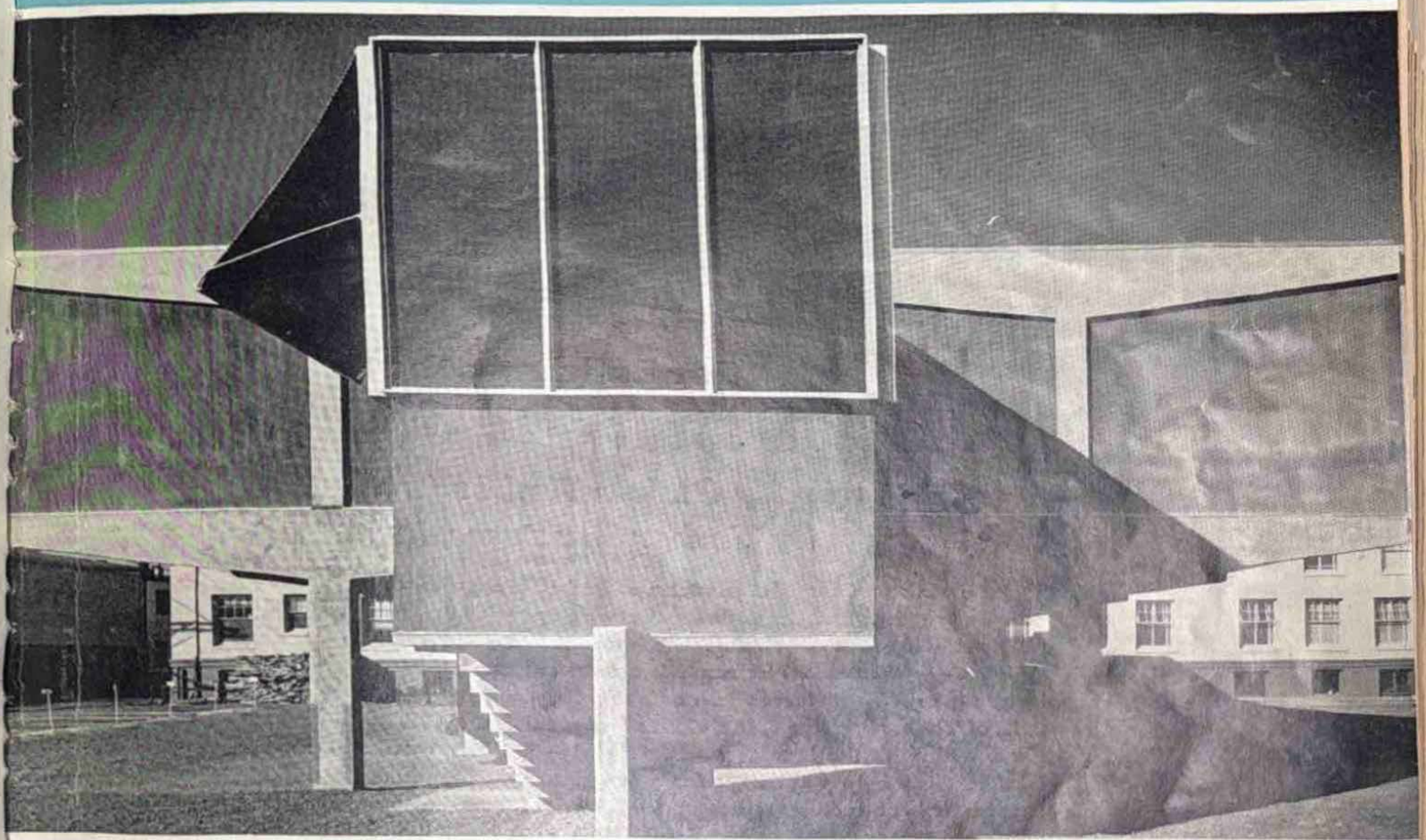
Pacific Architect and Builder

January BPA 1956

35¢

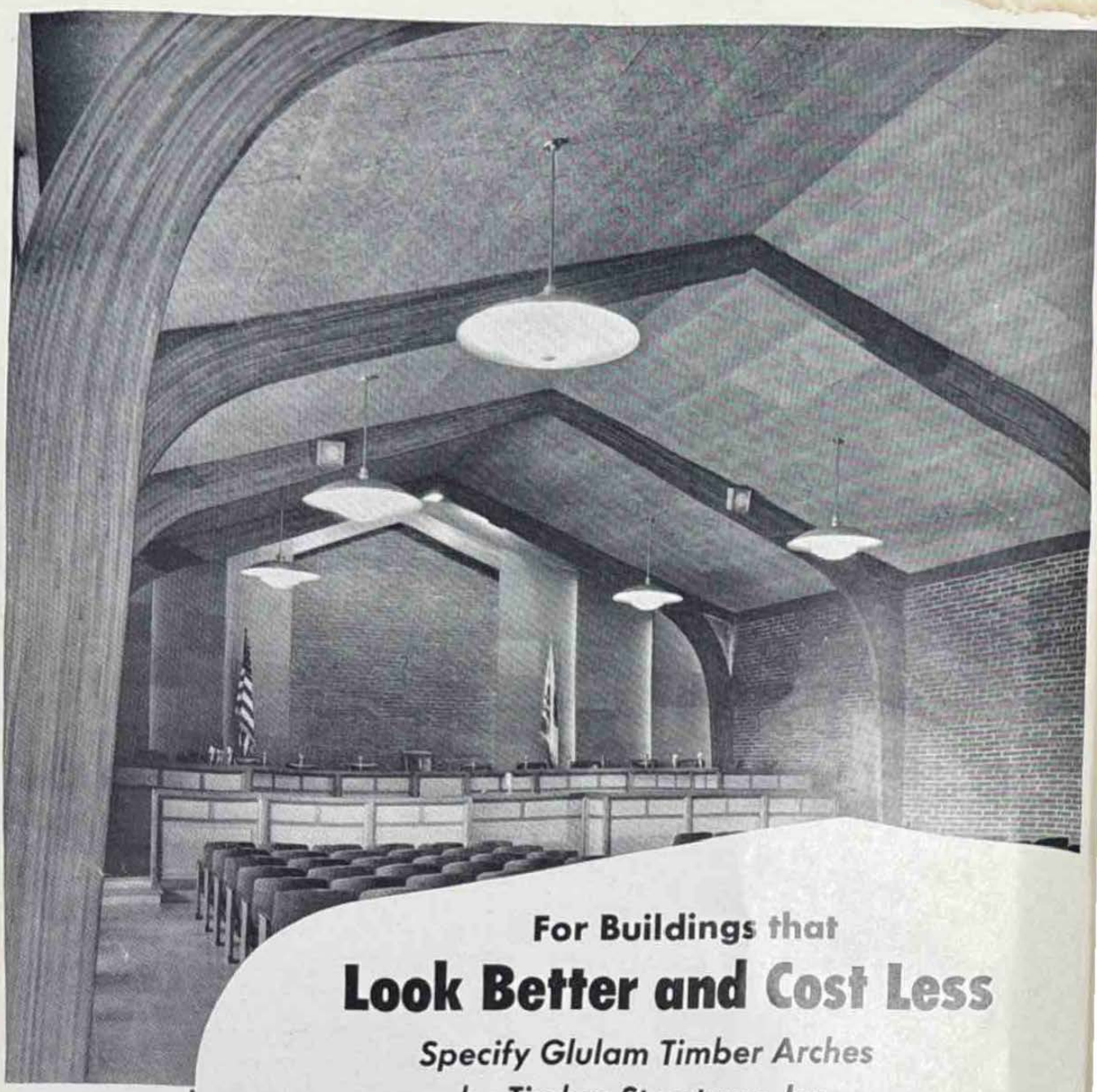
WITH CONSTRUCTION NEWS BULLETIN



Published by
PACIFIC BUILDER
AND ENGINEER, Inc.
Established 1902

- An architect injects some philosophy in appraising his own library design (p. 11)
- A sales analyst looks at down town and finds that it's "honky tonk and donkey dust" (p. 20)

EUGENE (ORE.) HOSPITAL AND CLINIC ADDITION—a building that's young in heart, constructed with rapid speed on an assembly-line technique utilizing precast concrete T-sections and channel slabs (p. 14). Balzhiser & Seder, architects.



Auditorium of City Hall, Palo Alto, California, is 38'-8" x 77'-8½", framed by four open haunch glulam arches spaced at 15'-6½". Height at wall is 14', at center 20'-1". Architect: Leslie Nichols, Palo Alto; contractor: Ralph Larsen, San Francisco.

For Buildings that
Look Better and Cost Less
Specify Glulam Timber Arches by Timber Structures, Inc.

When a structural material produces a handsome appearance like you see here, it is worth a premium. But the timber arches which provide the structural framing for this public building save substantially in labor costs and make possible the use of relatively light curtain sidewalls. Net result is a more substantial, better looking building at lower total cost. Whatever your needs may be, you should know about the structural units of Timber Structures, Inc. With a background of over a quarter century of experience, and with the industry's most extensive facilities, this pioneer laminator and fabricator can help you design for greater strength, beauty and economy. See your nearest Timber Structures representative, or write for catalog, "Engineering in Wood".



TIMBER STRUCTURES, INC.
P. O. Box 3782-O, Portland, Oregon

Please send me a copy of the catalog, "Engineering in Wood"

Name_____

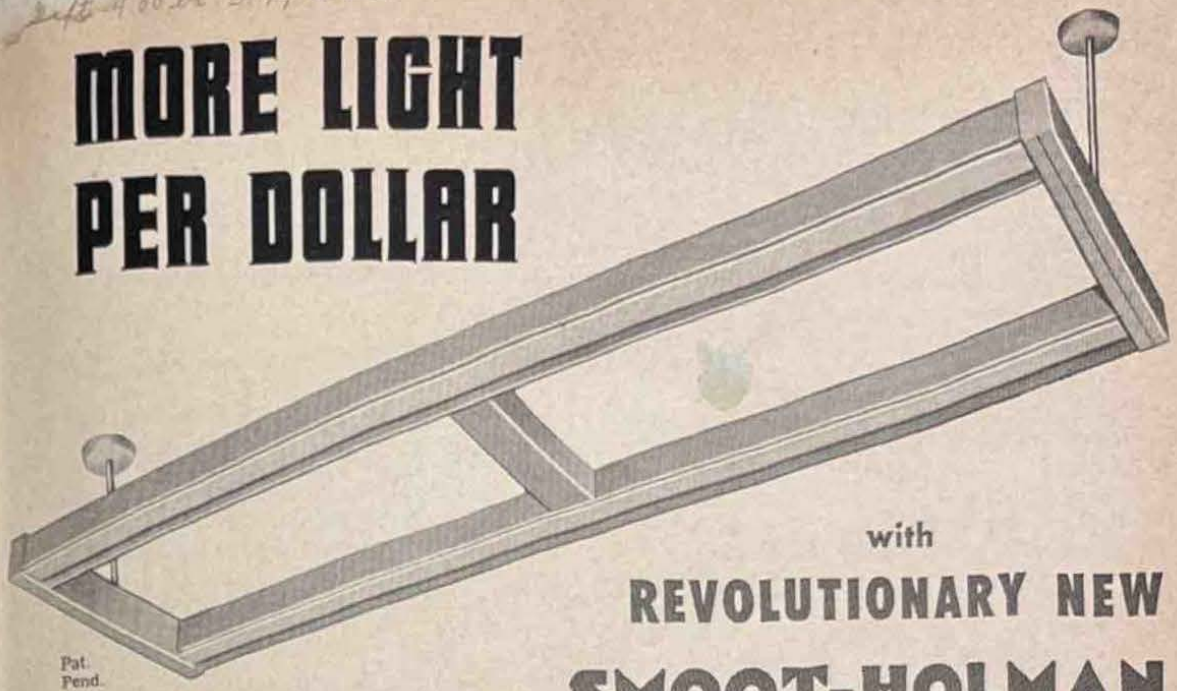
Address_____ Zone_____

City_____ State_____

TIMBER
WARD MAYER
STRUCTURES
INCORPORATED
P. O. Box 3782-O, Portland 8, Oregon
Offices in Seattle, Spokane, Denver

TIMBER STRUCTURES, INC. OF CALIFORNIA
1952 Wright Avenue, Richmond 3
8845 Olympic Boulevard, Beverly Hills
1331 T Street, Sacramento

MORE LIGHT PER DOLLAR



Pat. Pend.

with

REVOLUTIONARY NEW SMOOT-HOLMAN

PERFECT VISION

LUMINOUS INDIRECT LUMINAIRE

Using New 800 Milliampere Lamps

Totally new in conception, design, performance. Takes full advantage of the high output of new 800 MA., rapid start lamp. The only indirect luminaire available that *mounts within 12 inches of ceiling without severe light blocking.* Slender lines and open construction pass amazing percentage of upward light back to work surface . . . Gives you *far more light per dollar* than ever thought possible. Louvering effect of fixture subdues ceiling brightness. No pronounced ceiling pattern. Faultless light distribution; its comfort and quality astonishes everyone.

By all means, investigate this exciting new fixture promptly. The more you know about it, the more use you'll find for it. Its possibilities are limitless. Where shall we send your complimentary file of technical data? Kindly mention this publication and our catalog number, PV-288.

Features

- Upward and downward light balanced for best seeing.
- High efficiency.
- Brightness meets ASA school lighting standards.
- Mounts within 12" of ceiling without blocking return light.
- Near perfect visual comfort in any size room.
- High adaptation level yet low brightness and brightness ratios.
- Economical to install.
- Easy to maintain.
- Harmonizes well with modern architecture.
- Extremely flexible in arrangement.

SMOOT-HOLMAN COMPANY

INGLEWOOD CALIFORNIA

SMOOT-HOLMAN

We Support the National Lighting Bureau

OUR SERVICE IS LIMITED TO THE WEST AND SOUTHWEST

What speculative home builders expect of architects

Guest Editor

EDWARD P. MILLER
Miller Construction Co., Inc.
Tacoma, Washington

I SOMETIMES compare an architect to an opera singer: they have a wonderful artistry and perfect technique, but the end product is very difficult to sell to the general public.

My chief difficulty in using architect-designed homes has been problems of cost and public acceptance.

The average home designed by an architect costs substantially more to build than a plan of the same floor area worked out by the builder. The only assumption that can be drawn from this fact is that the average architect is not sufficiently familiar with the factors which add to the cost of the home without adding materially to the sales potential; or is so overzealous in designing what, to him, may seem a perfect architectural plan, that he will not admit that the economies are necessary.

Two of our most recent display homes, originally designed by a well known architect, were redrawn for our use. We ended up with a larger home at a cost saving in excess of 25% over the original plan. The details eliminated or changed were those which are not generally acceptable to purchasers in this area, or for which the average purchaser is not willing to pay the cost.

If the services of an architect are to be of any material value to a builder, the architect must, first of all, have a very thorough working knowledge of the cost factors involved and keep posted from month to month on those cost items for which the average purchaser is willing to pay, eliminating those which do not add to the sales potential of the home.

Secondly, the architect, if he is to be of help to the builder, must keep informed from month to month of the changing trends, demands and desires of the average purchaser **in his area** and restrain himself from advancing extreme designs or ideas because they are the latest thing architecturally, or because thy are popular in some other part of the country. Our customers buy our homes because they are what they like and want and not because they are popular in Florida.

We often hear a remark among music lovers that we should educate the people to enjoy good music, and among architects that the builder should educate his customers to prefer good architecture. This may be a noble ambition, but we in the home building business do not feel that education is our job. We are content to build the type of home our average customer will like well enough to purchase, preferably perfect architecturally, but if there must be a choice between architectural perfection and customer satisfaction, we will sacrifice the architectural details.

For a number of years, we built architect-designed homes exclusively, but started developing our own plans a few years ago because we were unable to solve the problems facing us with the plans presented.

I believe a big step toward securing better coordination and cooperation between the home builder and architect teams could be achieved by periodic joint meetings at which mutual problems were discussed freely.

From the editor's notebook . . .

GUEST EDITOR: Our December editorial on the architect-speculative builder situation set the stage for the comments of Edward P. Miller, whose firm is developing Skyline Terrace overlooking Puget Sound and the Tacoma Narrows Bridge. His remarks should arouse more than usual interest and possibly the blood pressure of a good many architects. A charter member of the Tacoma Master Builders Association, he says exactly what he thinks and we hope that some of our readers will do likewise in a rebuttal.

• • •

BON VOYAGE: Editors generally take public relations and/or publicity workers pretty much for granted, the result being that thank yous for a job particularly well done are uncommon. We sincerely feel that Miss Dayis Holcomb, as the first full-time executive secretary for the Washington State chapter, AIA, has made a significant contribution in promoting an architect-conscious public in the Seattle area and we want to express our sentiments before she departs for her European travels. The chapter too is to be congratulated for having the foresight in 1953 to set up the executive secretary position as a full-time job. We doubt whether the architects in any other West Coast city practice in such a favorable environment as regards the public attitude toward the profession.

• • •

HOMES OF THE FUTURE: It's that time of year when we're flooded with releases of predictions for the year in particular and the rosy future in general. The prognosticators see these things for our homes: entire bathrooms molded in one piece of a soft modern material like sponge plastic; compact radio-frequency cooking units that will make cooking, as we know it, strictly a hobby; beds that never have to be made, in the form of radio-frequency units that encircle the sleeper; and home laundry equipment in the bedroom wing, near the place where soiled clothes collect—a trend already evident in the West.

Pacific Architect and Builder

JANUARY BPA 1956

WITH CONSTRUCTION NEWS BULLETIN

VOLUME 62 NUMBER 1

Published by
Pacific Builder and Engineer, Inc.
Established 1902

MAIN EDITORIAL AND BUSINESS OFFICE
2418 Third Ave., Seattle 1, Wash.
Phone MAin 0285

N. B. Chapin — President
John E. Miller — General Manager

Phyllis E. Forth — Production Manager
Frances Eggan — Circulation Manager
Robert G. Hitchens — Director of Business Services and Circulation Sales

ADVERTISING
Main Office — Seattle
L. C. McDowell

MIDWEST ADVERTISING OFFICE
30 N. LaSalle St., Room 1240
Chicago, Ill.—Phone STate 2-3158
Charles W. Crandall — Representative

CALIFORNIA EDITORIAL OFFICE
24 White St., San Francisco 9, Calif.
Phone GRaystone 4-8532
Ken MacDonald — Contributing Editor

PORTLAND EDITORIAL OFFICE
1109 S.W. Fourth Ave.— Phone CApitol 3-1229
Win Romtvedt — Portland News Manager



PA&B's Area

a Four Billion Dollar Building Market

Roscoe E. Laing—Editor Bob Koehler—Associate Editor
Paul Nelson, assistant editor; Anne Hecker, editorial assistant; Joan Storey, research assistant
D. F. McCormick, editor, Construction News Bulletin

CONTENTS

If Ben Franklin Were in the Building Business—*by Bob Karolevitz* 8

Seattle's Prize-Winning Home of the Month for 1955 10

Library: 'Monument with Functional Values for the Future'—Loma Linda, Calif.—*by Earl T. Heitschmidt, FAIA* 11

Hospital Addition: This Building Is Young and Looks the Part—Eugene, Ore. 14

Diamond Shaped Beach House Is a Pacific Gem—Carmel, Calif. 16

What's Wrong with Down Town? Honky Tonk and Donkey Dust—*by Frank Emery Cox* 20

Talks with Contractors: The Fox Nailer—*by Glenn M. Canaday* 25

DEPARTMENTS

Perspectives 6

Trends—News—Views 7

Building Permit Tabulation 24

T-square Talk 26

Where Architects Hang Their Hats 28

Materials, Products, Tools and Latest Literature 30

Builders and Suppliers 32

CONSTRUCTION NEWS BULLETIN

Building and Engineering News of the Pacific Northwest and Alaska 35

SUBSCRIPTION RATES—Payable in Advance

PACIFIC ARCHITECT AND BUILDER—3rd Saturday each month. $4 one year; $6 two years; $7 three years. Canadian $5, $8, $10. Foreign $6, $10, $13. Single copies, 35c. With CONSTRUCTION NEWS BULLETIN (2nd, 4th, 5th Sat.) $16, $24, $31, in U.S. and Alaska.

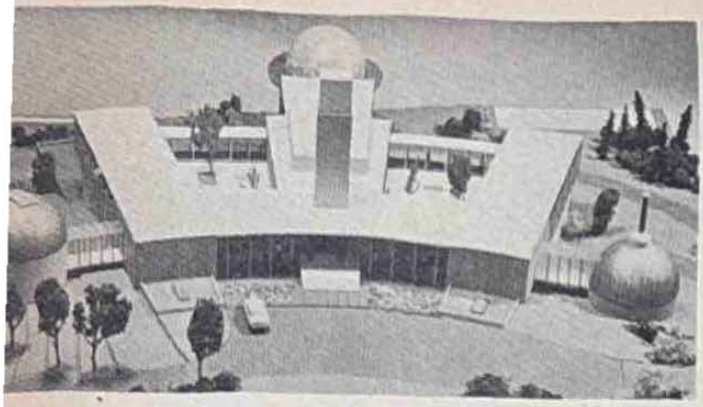
PACIFIC BUILDER AND ENGINEER—1st Saturday each month. $4 one year; $6 two years; $7 three years. Canadian $5, $8, $10. Foreign $6, $10, $13. Single copies 35c.

FOR NORTHWEST BUILDING AND ENGINEERING NEWS EVERY WEEK subscribe to all three (PA&B, PB&E, CNB) $20 one year; $30 two years; $38 three years. FOR FLASH ADVANCE DAILY SERVICE, read Pacific Construction Daily, $75 per year. Rates for U.S. and Alaska.

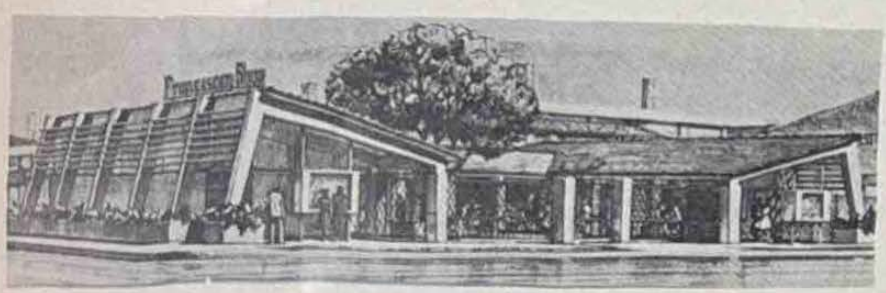
PACIFIC ARCHITECT AND BUILDER is published monthly by Pacific Builder and Engineer, Inc., 2418 Third Ave., Seattle 1, Wash., and is mailed on the third Saturday of each month. Price: $4 per year. Acceptance under P.L.&R. 34.64 authorized.

PERSPECTIVES

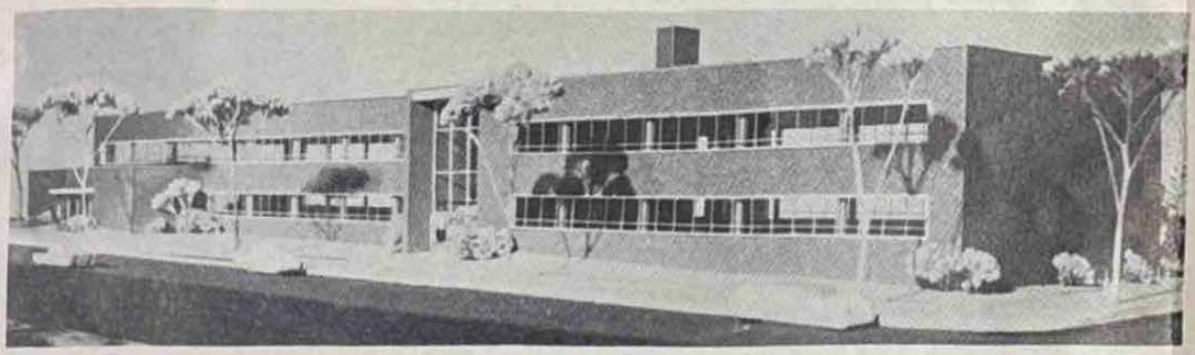
by Pacific architects



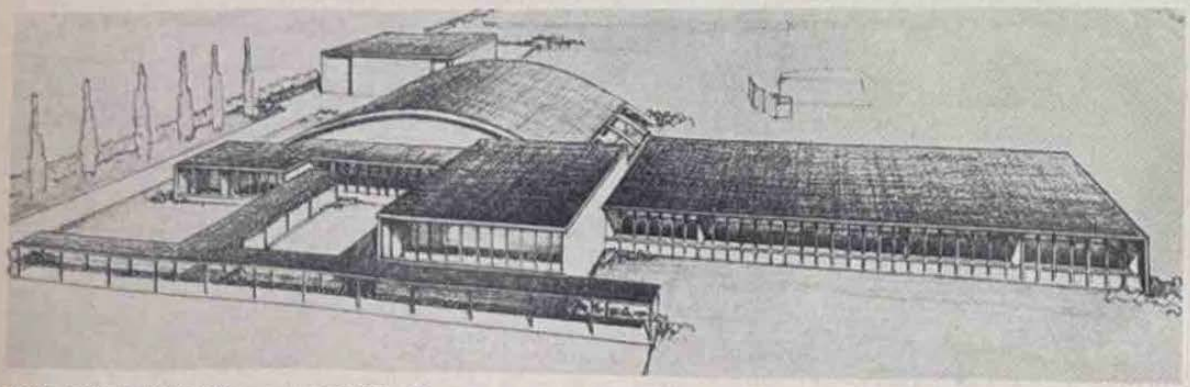
ARCHITECT'S MODEL of proposed Oregon Museum of Science and Industry which would be located near entrance to Portland's new zoo in West Hills. Preliminary plans for $200,000 science center prepared by Sundeleaf, Hagestad & Peace call for three galleries to be connected by open corridors offering protection from rain. "The architects have provided for maximum flexibility and natural division of subject matter," comments Dr. Sam Diack, president of museum's board of trustees, who heads fund drive.



FRANCISCAN SHOP at Gladding, McBean & Co. factory in Los Angeles is $100,000, 8,000 sq. ft. rustic contemporary with dramatic use of planters and butterfly roof design on bent trusses. Architects J. E. Stanton, AIA, and William Stockwell have utilized company's line of clay products: Lincoln interlocking shingle roof tile, rose Norman brick, clay patio tile, regular and decorative Hermosa glazed ceramic tile, ceramic veneer wainscots.



DOWNTOWN BOISE will be site of two-story Idaho Industrial Administration Building designed for two additional floors. Reinforced concrete structure, estimated at $850,000, will feature face brick and granite exterior. Plans have been prepared by Hummel, Hummel & Jones.



HIGH SCHOOL BUILDING to cost $400,000 will serve seven districts in Kettle Falls, Wash., area. Project will include space for farm shop and vocational agriculture classes, home economics, commercial and music departments, gymnasium and auditorium. Culler, Gale Martell & Norrie of Spokane are architects-engineers.

Building News - Trends - Views

A LOWER PERCENTAGE of the national income is being spent today on school facilities than 20 years ago. This was reported at an executive meeting of the national School Facilities Council of Architects, Educators and Industry in Washington, D.C., last month, attended by William H. Harrison, AIA, of Los Angeles. Harrison, along with Henry Wright, FAIA, also of Los Angeles, is a member of the council's governing board. The three other architects on the board are from the East.



HARRISON

According to Harrison, it was pointed out that school building expenses in the U.S. actually represent only 9% of the cost of education, with 80% going to maintenance, administrative and teaching costs; that reducing certain school facilities to lower the cost of construction as little as 10% frequently decreases teaching effectiveness as much as 50%.

At its December meeting the council, headed by Zephryin A. Marsh, director of school facilities for Minneapolis-Honeywell Regulator Co., formulated plans to organize a series of regional conferences in key areas of the nation. One such meeting will be held in southern California, Harrison says.

SIX WEST COAST BUILDERS were invited to participate in a forum held at the National Housing Center in Washington, D.C., January 17-18, designed to find out the outlook for new home construction in 1956. They were: Earl W. Smith, John Jacobson and Andres Oddstad, California; Dan Narodick and V. O. Stringfellow, Washington; and John La Porte, Oregon.

A NEW METHOD that upgrades "saw-log" plywood formerly suitable only for sheathing has been announced jointly by United States Plywood Corp. and Crown Zellerbach Corp.

The product is a new panel named Duraply. Defects in sheathing plywood are mechanically and cheaply filled with plastic and the surface coated with Crezon, a resin cellulose plastic sheet which is check-free and has high quality paint finish. Duraply is recommended as siding, for cabinets and for marine uses. Because it utilizes saw-log timber, it will sell for approximately 15% less than present plastic surfaced plywoods while at the same time increasing the veneer yield of the industry.

The revolutionary process was developed in Seattle, where a pilot plant is producing 200,000 sq. ft. per month and where a plant to produce one million square feet per month is being built. Machinery for the process will be made available to all manufacturers.

Spokesmen for the industry foresee an expanding market leading to 2½ million new housing starts per year in the late 1960s and a void of some 600 million square feet of house siding per year to be filled by products such as Duraply.

BUILDING CONTRACTORS in the southern California area will be among the exhibitors at the National Outdoor Living Show scheduled for March 23-April 1 at Pan Pacific Auditorium in Los Angeles. The show will include manufacturers of patio furniture, barbeques, swimming pools, sports and playground equipment.

THE PACIFIC COAST outstrips the rest of the country in number of swimming pools, trailed in order by the mid-South and the East. In its annual national market study, Swimming Pool Age reports that "new construction in 1956 alone will more than triple the total number of pools existing in the U.S. up through the end of 1945." Data gathered in the study refer to permanent installations of 15x30 ft. or larger.

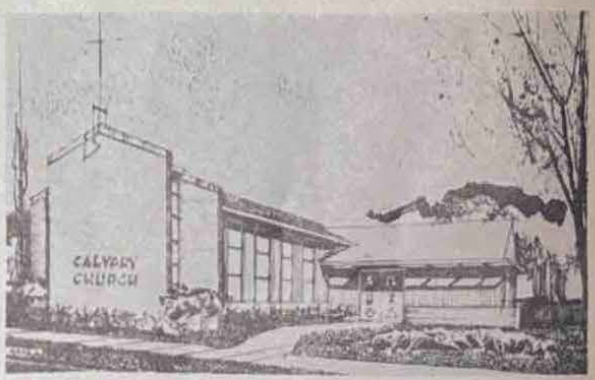
SCHOOL EQUIPMENT DESIGNERS are still in the light bulb stage as far as sound engineering is concerned, a midwestern engineer told persons attending a two-day Institute on Classroom Planning at New York University recently. William R. Torn, senior engineer of DuKane Corp., St. Charles, Ill., advocated multiple speaker hook-ups controlled from the teacher's desk and predicted that future classrooms will be equipped with built-in amplifiers which would replace the individual ones in such pieces of equipment as tape recorders, phonographs, motion picture projectors and radios.

OVERALL ACOUSTICAL VOLUME will approximate a 25% increase during 1956, according to E. S. Graybill, president of the Acoustical Materials Association. He bases his estimate "on the growing architectural acceptance for prefabricated acoustical materials; specifically, the trend for using acoustical products in almost all new office buildings, the present and future established school program, and the anticipated demand for acoustical tile in the residential field."

NEW CONSTRUCTION OUTLAYS—nearly $42.3 billion—in 1955 set a record for the ninth straight year, the Department of Commerce reports. Private residential building for the year reached a new high of $16.6 billion, topping the 1954 record by 23%. Other types of construction hitting new high: shopping and service establishments, churches, private industrial plants, office buildings and public schools.

SEATTLE HAS BEEN NAMED PILOT CITY for Operation Home Improvement, a nationwide campaign to encourage citizens to modernize their homes. The program, which gets underway this month sparked by the U. S. Chamber of Commerce, is private industry's answer to the government's desire to do something about the country's 20 million nonslum homes which have fallen below the standards of today's new residences.

MORE AND MORE BUILDERS not only are employing the services of architects, but are giving them more latitude in their designs. The National Association of Home Builders in a 1956 forecast further states that a good many development builders are employing color experts to work out harmonious schemes for an entire subdivision instead of making the choices themselves more or less on an individual house basis.



PREFABRICATED CHURCH, designed by William M. Cooley, AIA; is being displayed at NAHB convention in Chicago this month. An interdenominational church, it is one of 15 new designs offered by United States Steel Homes to sell from $15,000 to $35,0000. Exterior of 180-seating capacity structure has nail-on brick and battens and stainless steel spire.

If Ben Franklin were in the building business . .

by Bob Karolevitz

BENJAMIN FRANKLIN, America's greatest jack-of-all-trades, was born 250 years ago this month. He was a printer, inventor, statesman, soldier, scientist, writer, postmaster, politician and a few other things during his full and worthwhile life.

Because of his amazing versatility and wide interests, it wouldn't be too great a stretch of the imagination to picture him as an architect, a building contractor or a structural engineer as well. As a matter of fact, we have a good reason for thus portraying Mr. Franklin, and here's why:

From his early childhood, the author of "Poor Richard's Almanac" had a "plan of life." Wherever he went, whatever he did, he worked constantly for self-improvement. With him it wasn't just a New Year's resolution or the turning over of a new leaf; he invented and practiced his own strict formula.

Franklin discovered his "blueprint for success" when he was just a struggling printer in Philadelphia, badly in debt and fighting to keep the wolf from his portals. He thought of himself as a simple man of ordinary ability, but he also believed that he could acquire the essential principles of successful living if only he could find the right method. Having an inventive mind, he devised a system so simple, yet so practical, that anyone could use it.

First he made a list of 13 things he figured he had to do to improve himself. (That was a good move right there as it required a thorough self-analysis.) Then he started at the top of the column, and for one whole week he practiced that point faithfully—letting everything else go along in its regular pattern. It took him 13 weeks to complete the cycle, and then he started all over again.

Now, what's this got to do with the construction business in 1956?

Simply this—the same formula which worked so profitably for Benjamin Franklin can work equally well for architects, builders and engineers. We can all use a little brushing up on various phases of our endeavor, though most of us labor under the illusion that we're positively too busy to worry about any self-improvement nonsense.

But Franklin's formula is too simple and too painless for such excuses. Even if you just half-practice it for a cycle of 13 weeks, you're bound to emerge a more informed and "refreshed" practitioner of your profession. Here's the idea:

Just make out a list of 13 items connected with your work, then give a week's strict attention to each subject in turn. Try this as a sample list:

1. **Future of the business.** Do I encourage young men to careers as architects, engineers and builders? Am I abreast of the times now while still looking farther ahead? Am I satisfied doing things as they were done in "the good old days?"

2. **Bidding.** Am I bidding to make a profit or to get the job? Am I bidding the **wrong** jobs and missing some of the **right** ones? Do I need a review on bid forms and practices?

3. **Personnel management.** Am I a good boss? Could I be responsible for the heavy labor turnover in my operation? Should I read a book on personnel handling?

4. **Housekeeping.** Do I have a place for everything and put everything in its place? Are my files in order? Do I know where the blueprints are for that latest school job?

5. **Mathematics.** When was the last time I looked at a math book? Have I forgotten some short cuts which might help me now? Maybe a refresher course in an adult education class or through university extension work would be the ticket.

6. **Drafting.** Have I kept current with this basic phase of the business since I left the drawing board myself? Do I need a refresher on reading plans and blueprints?

7. **New equipment.** Do I know the latest developments? Am I trying to get by with obsolete machinery? What kind of maintenance program do I have?

8. **New materials.** Am I using the same materials through force of habit when a little searching might uncover something better? Am I slow to accept progress? Do I give salesmen a chance to show me something new?

9. **New techniques.** Is my old-fashioned way the most profitable? What about that excavating trick the guy in Oregon used; should I write him for more details? If I take a little more time for planning and "just plain thinking," could I devise a newer and better system for some particular operation?

10. **Trade publications and professional bulletins.** Do I read the journals of my profession thoroughly for new ideas and new developments? Do I contribute knowledge when I have something to share?

11. **Trade and professional associations.** Have I paid my dues? Have I attended meetings lately to meet associates and to exchange ideas? Do I accept association responsibilities?

12. **Public relations.** Do I have a "public be damned" attitude? How is my phone etiquette? Should I make that talk the Rotarians asked me for?

13. **Community consciousness.** How long has it been since I attended a chamber of commerce meeting? Have I made a new friend lately outside of business circles? When did I last contribute something to the betterment of my community?

There you have it—a real successful pattern for self-improvement. For a full week become vitally interested in the particular item which appears on the agenda for that period. During the week on public relations, for instance, stop by the library and pick up a book on the subject. That's what Benjamin Franklin would probably be doing if he were in your shoes.

Tuition is pretty cheap in such a personal university. It's not child's play either because one of the most successful men in American history is proof of the pudding.

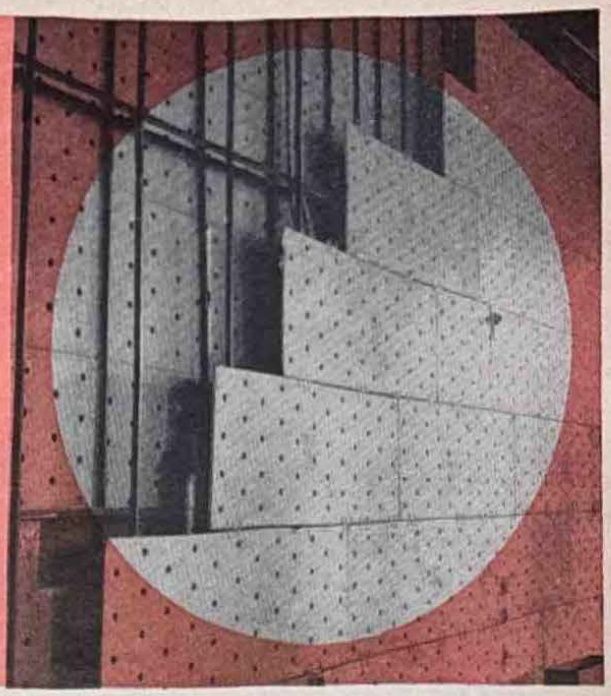
You've got the formula now, and that's as far as ol' Ben can take you.

FRANKLIN'S OWN LIST

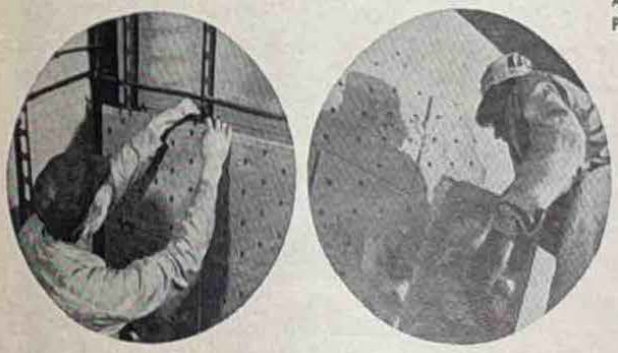
1. Temptrance — Eat not to dullness drink not to elevation.
2. Silence—Speak not but what may benefit others or yourself; avoid trifling conversation.
3. Order—Let all your things have their place; let each part of your business have its time.
4. Resolution—Resolve to perform what you ought; perform without fail what you resolve.
5. Frugality—Make no expense but to do good to others or yourself; i.e., waste nothing.
6. Industry—Lose no time; be always employ'd in something useful; cut off all unnecessary actions.
7. —Sincerity — Use no hurtful deceit; think innocently and justly, and if you speak, speak accordingly.
8. Justice—Wrong none by doing injuries, or omitting the benefits that are your duty.
9. Moderation—Avoid extremes; forbear resenting injuries so much as you think they deserve.
10. Cleanliness—Tolerate no uncleanliness in body, cloaths, or habitation.
11. Tranquility—Be not disturbed at trifles, or at accidents common or unavoidable.
12. Chastity—Rarely use venery but for health or offspring, never to dullness, weakness, or the injury of your own or another's peace or reputation.
13. Humility—Imitate Jesus and Socrates.

Fastest

PARTITION ASSEMBLY



A section of Kaiser Spee-Dee Clip and Gypsum Lath partition assembly. Photo illustrates use of double stud framing for added sound reduction.



Speed and ease of application puts walls up fast. Single piece clip secures lath to stud, forming smooth rigid base for plastering.

KAISER *Spee-Dee Clip*

LATH AND PLASTER PARTITION SYSTEM

for non-load bearing partitions

- No parts to attach
- No wires to secure — ONE-PIECE CLIP
- No projecting surfaces

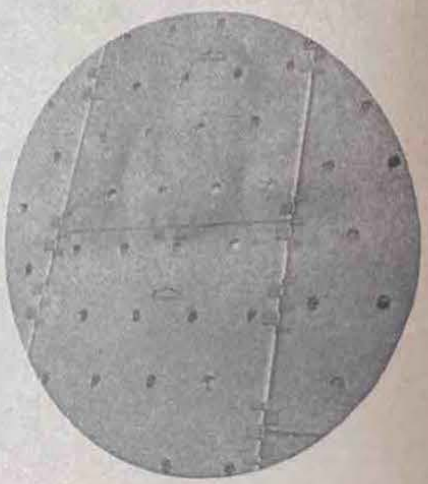
SPEED OF ERECTION — Faster than competing systems because of single unit, lock-on assembly.

VERSATILITY — Supporting studs may vary from ¾" channel to 6" pressed steel studs, allowing installation of electrical outlet boxes, conduit, plumbing, heating outlets, etc.

ECONOMY — The partition is light in weight, permitting important structural savings in multi-story buildings; use of gypsum lath saves material costs; speed of erection saves labor costs; requires only two coats of plaster; no lath waste —clip permits locking of adjoining pieces together without necessity of joints falling on studs.

FIRE RESISTANCE — Complies with fire rating requirements for Class A dividing partitions.

FOR CEILINGS TOO with special center clip.



Please write for further information and your copy of the A.I.A. folder giving full description and specifications of KAISER SPEE-DEE CLIP PARTITION SYSTEM.

KAISER GYPSUM COMPANY, INC.

LOS ANGELES • OAKLAND • SEATTLE



PA&B Staff Photos

LOOKING UP SLOPE, this photo shows how design capitalizes on unobstructed view from both levels. Below, Lake Washington as seen from balcony.

A. O. Strandberg Residence
Bellevue, Washington

MITHUN & NESLAND
Architects

THOMAS E. CLARK
Contractor

Seattle's 'home of the month' for 1955

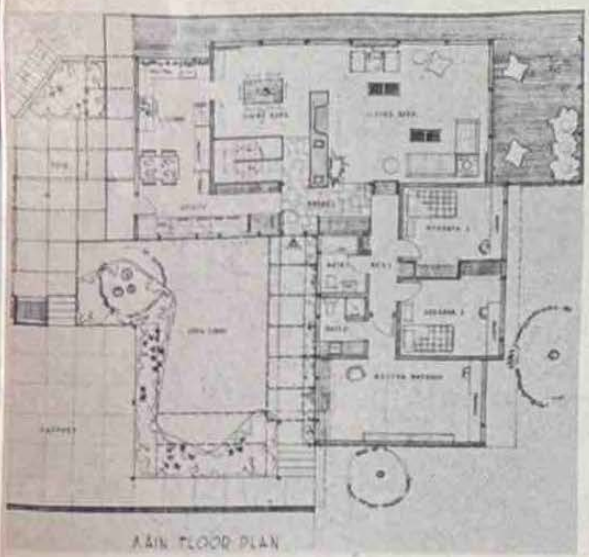
WITH LAKE WASHINGTON as its neighbor, this two-level residence for a family of five, including three boys, was judged the best of 12 entered in the 1955 Home of the Month competition co-sponsored by the Washington State chapter, AIA, and the Seattle Times. The jury in making its selection issued the following statement:

"This home was an excellent solution to a very difficult site situation and the jury felt there was a fine airy consistency throughout the design.

"The basic circulation was short and direct. There was a nice openness and extreme livability throughout the house. The jury also commends the very adequate arrangement properly provided where needed.

"This design possessed a dignified simplicity which gave it grace and beauty."





MAIN FLOOR PLAN

OUTLINE SPECIFICATIONS

Type of Construction: Frame.

Exterior Walls: Redwood vertical siding and cedar horizontal siding, stained with Cabot's creosote.

Roof: Flat, built up with tar and marble chips.

Floors: Hardwood on upper level, except vinyl linoleum in kitchen and bathrooms; vinyl asbestos tile on lower level; red slate in entry; 2x4 fir decking on balconies.

Windows: Glass stopped in wood and Tecler aluminum vents.

Doors: Glide aluminum sliding and senwood.

Interior Walls: Plasterboard with accents of senwood; Philippine mahogany in master bedroom and recreation room; ceramic tile in master bath.

Ceilings: Plasterboard.

Built-ins: Philippine mahogany cabinets, Formica countertops in kitchen and boys' rooms.

Fireplaces: Utah green sandstone, upper level; imported Italian Vetrum tile with white concrete hearth and planting box, lower level.

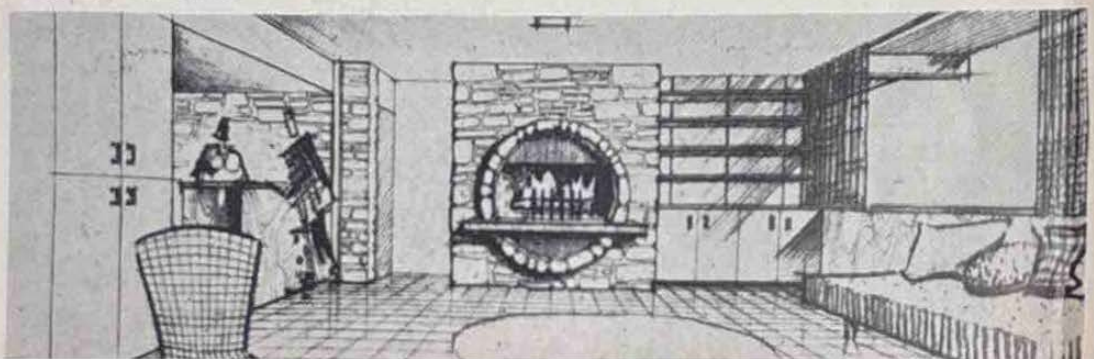
Heating System: Forced warm air, oil fired perimeter type.

Total Area: 1937 sq. ft., upper level; 1887 sq. ft. lower level.

Cost per Square Foot: $13.75 (based on 100%, upper level; 75%,; lower level; 33%, carport).

Date of Completion: December 1955.

FOCAL POINT of recreation area is fireplace of imported Italian marble with white concrete hearth. Lower level also includes shop, study, bedroom and bath, storage space and patio.



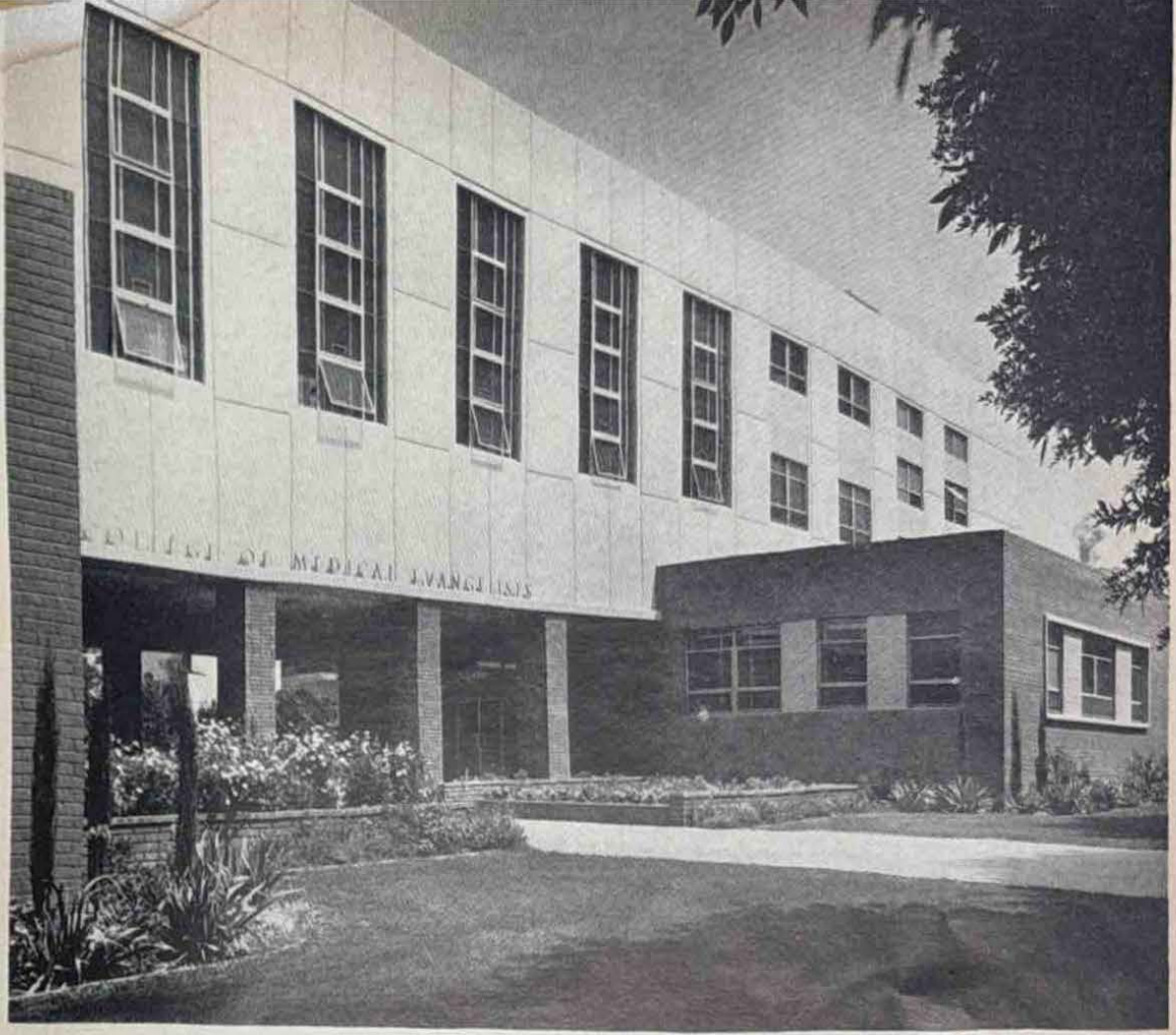


Photo by Douglas M. Simmonds

DIGNIFIED BLENDING of common brick, face brick and concrete gives building clean, warm and inviting appearance. Monotony of form is avoided while symmetry and mass are fused into one. Outdoor lobby serves separate entrances to two wings.

'Monument with functional values for future'

Library and Administration Building
College of Medical Evangelists
Loma Linda, California

EARL T. HEITSCHMIDT, FAIA
Architect

BRANDON & JOHNSON
Structural Engineers

LESTER R. KELLY
Mechanical Engineer

CHAUNCY E. MAUK
Electrical Engineer

L. C. HAVSTAD
General Contractor

by EARL T. HEITSCHMIDT, FAIA

OUR PRESENT civilization owes a considerable debt to the past in literature, science and art.

Because man has been enabled to build a better world upon established foundations that are the outgrowths of centuries, it may well be said that a library, like a temple or a cathedral, is one of the rarest commissions that can come to an architect.

Regardless of individual or specific functions of a library, or even of its size, such a structure should reflect the intellectual advancement of our civilization, not as a massive monument to the past, but as a practical and useful contribution to our future.

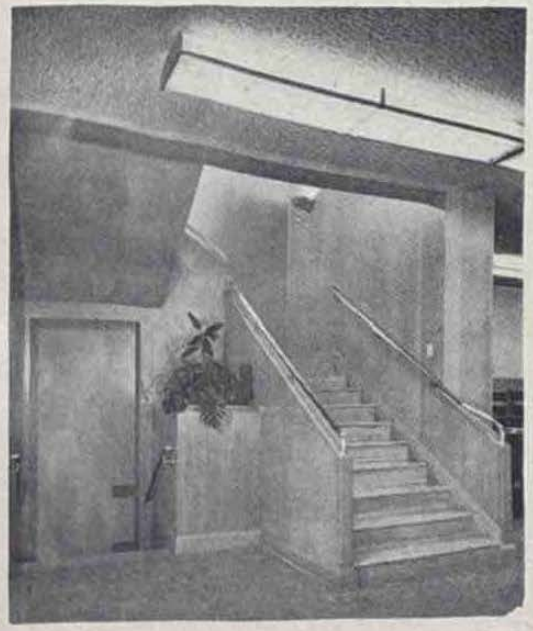
It was with these thoughts in mind that we undertook the design of the Library and Administration Building for the College of Medical Evangelists at the Loma Linda campus.

The College of Medical Evangelists was



Photos by Douglas M. Simmonds

COLONNADE connecting administration and library wings forms pleasant outdoor patio in almost constant use by students and faculty alike.



PLANT BOX provides warm touch to library stairway leading to second floor which includes library shown below. Artificial illumination is combined with natural daylighting.



founded more than 50 years ago. Since the end of World War II, the college has made rapid progress on a considerable expansion program. On the 80-acre Loma Linda campus some 15 major projects have been completed, planned or are under construction. The new $326,231 Library and Administration Building, with its 29,498 sq. ft. of usable area is a part of that expansion program.

The design of a single building of two stories capable of housing five floors of library stacks as well as the college administration offices proved a most welcome challenge to me as an architect and to my staff.

Working in close collaboration with college officials, the general contractor and the structural, mechanical and electrical engineers, we placed the site of the new structure in a centrally accessible location near other new or future buildings.

It was our intent to integrate the modern medical library and the administration offices as much as possible into the day-by-day operations of the college church, a museum, various dormitories and the recently completed School of Dentistry.

Adequate parking facilities, a rare and difficult provision in these days of disappearing land, were provided for all of the college projects.

Our design of the library and administration building, which had a per square foot construction cost of $11.06, provides facilities to serve an ever-growing number of medical, dental and nursing students, whose total is now nearing 500. The library also was designed for use by the college faculty and by the staff and employees of the College Loma Linda Hospital and Sanitarium.

It was our firm belief that library buildings, to be most beautiful, must be free from extraneous factors which might disturb the users of the building. We were equally convinced that where quarters are shared by various users, the normal space allocations often are apt to be deranged. Noise and confusion tend to be aggravated; control and supervision are made difficult, and the conditions essential for quiet study and reading often are impossible to achieve.

We eliminated pitfalls such as these by providing an outdoor lobby, or covered passage, which serves separate entrances to the two divergent functions of the building. Thus traffic destined for the administrative portion and library traffic, for all practical purposes, are completely separated.

Constructed on concrete, spread footings, with walls of poured concrete, solid masonry and common and face brick, the library building has completely adequate equipment for comfortable air conditioning and for protection from dust, fumes, vermin and dampness.

A large reading room on the second floor was placed in a position where it would be convenient to the students, yet impractical for use as a thoroughfare to other portions

of the second floor. In addition, the acoustical treatment throughout was highly developed.

Since reading and study are the raisons d'etre of nearly all libraries, it would seem unnecessary to emphasize the need for adequate illumination. Yet all too often this primary consideration has been overlooked.

We believe that the light provided for reading and for study should equal that required on a drafting board or a jeweler's work bench. With this in mind, artificial illumination throughout was installed according to the most modern efficiency standards.

In addition, designwise, we took full advantage of the sunny southern California climate and provided for an abundance of natural light, particularly in the cheery reading room.

The five floors of stack rooms were placed at the very end of the building to minimize confusion and provide for a maximum of accessibility and service. Convenience for the students and efficiency for the staff were the watchwords here.

Contributing further to the efficiency and the pleasant atmosphere of the library are the spacious working facilities for the all-too-often forgotten library staff. These facilities—desks, cabinets, files, etc.—were designed and placed with the idea of meeting the specific needs of those who use them or who may use them in the future.

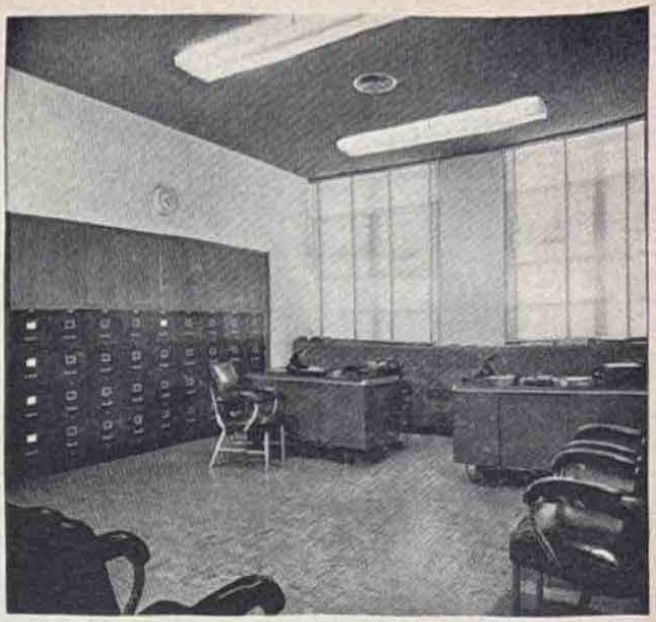
We made a particular effort to avoid ostentation, which often is the "curse" of many library structures. We quite deliberately did not include murals, which tend to be gaudy and to attract sightseers, or such elements as friezes, panels and exposed beams, all of which tend to catch dust.

Although they are completely separate units in terms of practical operation, the library and the administrative sections share in common air conditioning, heating and ventilating, storage and rest room facilities. All of these are located in the easily accessible basement, thus negating the additional expense that would have been involved in the design and construction of two separate buildings instead of one.

The administrative portion of the building was designed to accommodate the specific purposes and needs of the administrative staff. Function reigns supreme and the plan reflects the smooth-running organization indispensable to the efficient administration of a specialized college.

As in the interior, exterior ostentation was meticulously avoided. Materials, colors, decorations, etc., were selected with practicability, warmth, service, economy and ease of maintenance in mind, as well as beauty.

In the aesthetic, practical and economic sense, this building to us represents a highly successful solution to the important architectural problem of providing a monument with functional values for the future.



TYPICAL OFFICE in administration wing features Philippine mahogany and oak for all built-in cabinet spaces.

OUTLINE SPECIFICATIONS

Type of Construction: Reinforced concrete on concrete, spread footings.

Exterior Walls: Poured concrete, solid masonary and common and face brick painted, with Philippine mahogany trim.

Roof: Flat, composition built up on wood joists, with fiberglass insulation.

Floors: Concrete on joist and girder beams.

Floor Finish: Armstrong asphalt tile, rubber tile and terrazzo.

Windows: Steel.

Doors: Aluminum frame exterior, wood slab interior.

Interior Partitions: Frame and plaster on metal lath.

Interior Finish: Painted plaster with Philippine mahogany and oak trim.

Ceilings: Plaster, hardwall and acoustical spraycoat and tile.

Cabinets: Philippine mahogany and oak.

Heating System: Hot water oil fired units.

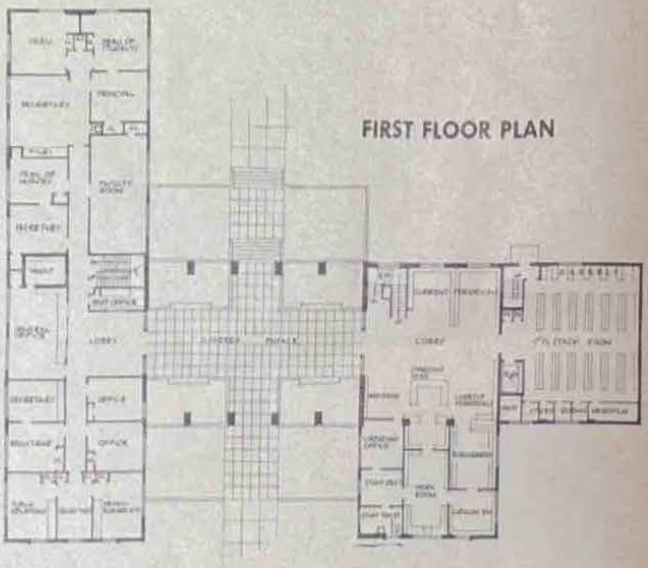
Total Area: 29,498 sq. ft.; 382,497 cu. ft.

Total Cost: $326,231 (construction only).

Cost per Square Foot: $11.06.

Cost per Cubic Foot: $0.85.

Date of Completion: August 1953.

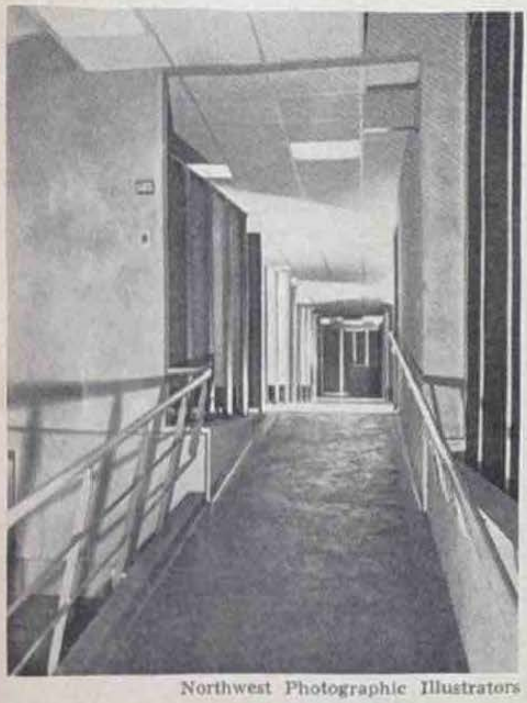


FIRST FLOOR PLAN



Photo by Tom Burns

NEW ADDITION is joined to old building by enclosed concrete ramps. Fireproof structure was designed to accomodate third floor at later date. Doctors' suites are off either side of corridor.



Northwest Photographic Illustrators

This building is young

Eugene Hospital and Clinic Addition
Eugene, Oregon

BALZHISER & SEDER, Architects
JOHN H. BONEBRAKE, Mechanical Engineer
JOHN M. STEINMULLER JR., General Contractor

FIRST FLOOR DINING ROOM for doctors connects to existing kitchen by ramp, looks out on small planted court. Chalkboard and movie screen are built in and windows equipped with blackout curtains.



WAITING AREA with built-in seating units, nurse's station and storage is provided for each doctor. Screens are ⅝-in. Sheetrock stopped into wood frames and painted.

Photos by Tom Burns



OUTLINE SPECIFICATIONS

Type of Construction: Precast concrete; column footings. Precast Lite-Rock expanded shale concrete. T-section supporting members supplied by Empire Building Material Co.

Exterior Walls: Tilt-up concrete, aluminum and glass curtain.

Roof: Flat, composition on precast Lite-Rock expanded shale concrete slab.

Floors: Precast Lite-Rock expanded shale concrete slab.

Floor Finish: Plastic tile (asbestos).

Windows: Aluminum.

Doors: Steel exterior, wood sliding interior.

Interior Partitions: Plaster on metal and gypsum lath.

Interior Finish: V. G. Douglas fir and aluminum.

Ceilings: Acoustical tile.

Built-ins: Wood cabinets and seating units.

Insulation: Fiberglass board on roof and in walls.

Heating: Base convectors from existing sawdust fired system; heat exchangers for ventilation.

Total Area: 4,500 sq. ft. second floor; 1,000 sq. ft. first floor (will equal second floor when completed).

Total Cost: $70,248 (construction only); $2,400 for draperies and seat cushions.

Date of Completion: April 1955.

and looks the part

THE YOUTHFULNESS of the architects is reflected in this unique structure which bears out their philosophy that simplicity, flexibility and durability all can be fully achieved in a building of economic limitations.

Sited on a city lot adjacent to the existing clinic built during the 1920s, the $70,000 addition houses six doctors' offices, a fluoroscope suite, electrocardiograph suite, dining room and temporary covered parking. The second story is finished, the first story partially so.

The site posed two problems: critical parking and future use. It is problematical that in 15 to 25 years the site may be retail-commercial and any building constructed at this time should be designed without strict adherence to special-purpose criteria.

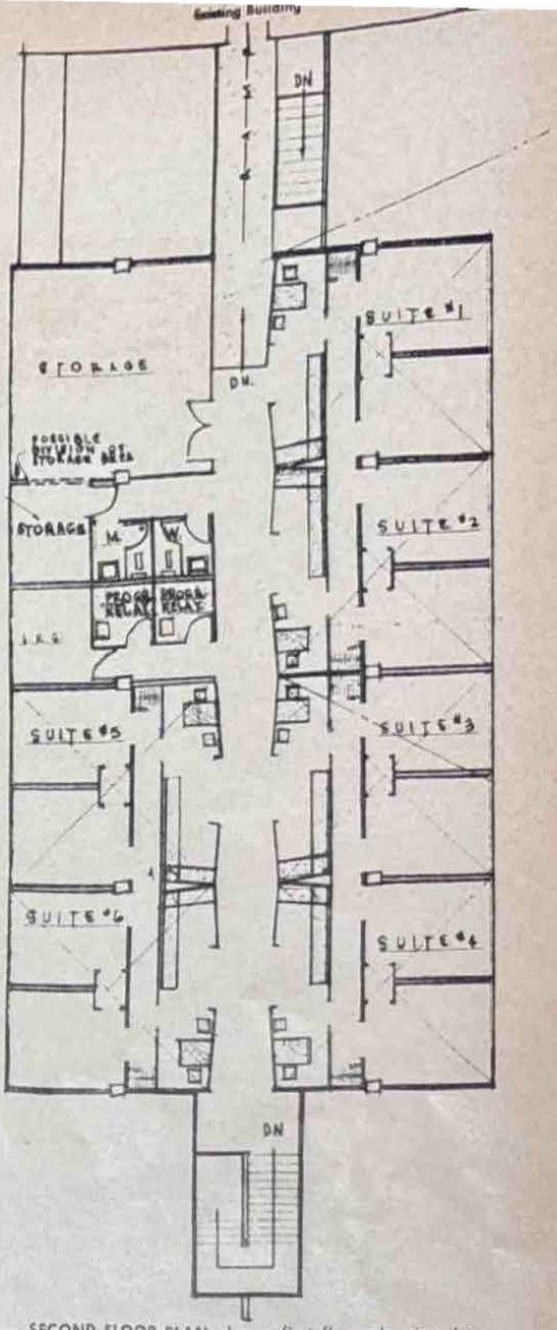
With that in mind, the architects planned a precast skeleton concrete structure, since this type of construction lends itself to flexibility, vertically and horizontally; is simple in its column members; and is capable of being dissembled, moved and reassembled, since all concrete members were tied by means of welding the projecting steel plates at the point of contact. The building is strictly contemporary in its design, as are the colors and textures used in the exterior and interior trim.

CONSTRUCTION METHODS: Precast construction and assembly-line technique were used to complete the two-story addition with a speed that left sidewalk superintendents gaping in amazement.

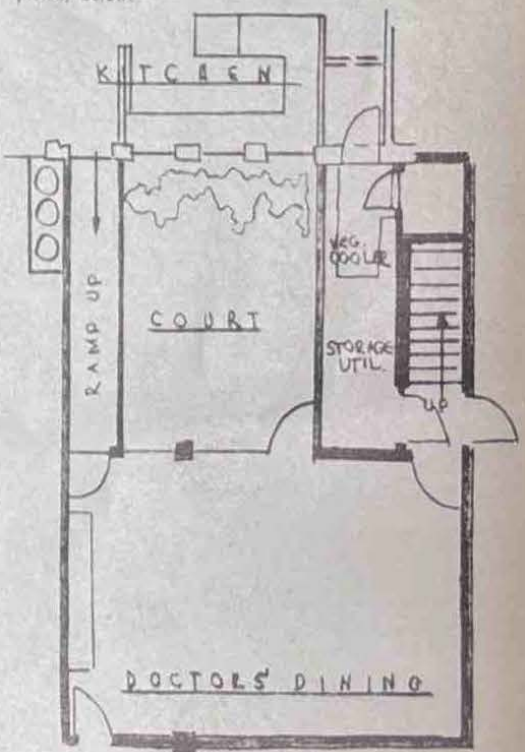
The contractor needed only two days to set all T-sections, struts and precast channel slabs. Reinforced T-sections were cast on the ground and hoisted into place by cranes. Precast concrete struts connected the T-sections, then 17½-ft. long precast channel slabs were set to span T-beams.

Channel slabs form ceilings, floors and roof of the building. A 1½-in. concrete deck topping was poured directly on the channel slab for the second floor and roof.

Lightweight concrete precast members made a speed-up technique feasible. The structural sections were poured with expanded shale concrete. Channel slabs were precast in Portland and trucked to the jobsite on specified delivery schedules.



SECOND FLOOR PLAN above; first floor plan (portion completed) below.



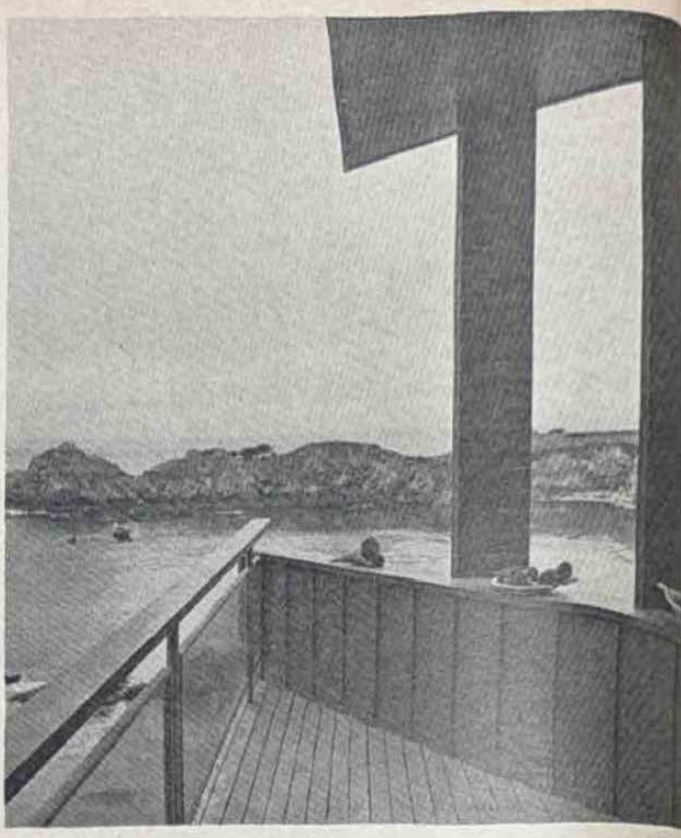
COMPLETE architectural utilization of the drama of a spectacular ocean-front site has been achieved in the design of this diamond shaped house at Yankee Point. With 21,865 cu. ft. of space, it is perched on a cliff which hangs out over the Pacific and a pleasant, sheltered beach below.

The plan provided the owners with adequate room for weekend entertaining of their five grown children and their friends. Baths and dressing rooms took top priority in design consideration, while sleeping facilities were left completely informal and relaxed.

"By using the diamond shape in our plan, we were able to create a major exposure to the south with a view of the sea breaking on the coastal cliffs, while at the same time minimizing the western exposure which is shielded from afternoon glare by tall vertical louvers," explain the architects who won an AIA 1955 Award of Merit for the project.

The stone work is of granite boulders taken from the beach below the house; the exterior finish siding is California redwood board and batten which is repeated inside.

The house rests on a 4-in. concrete slab on grade, with the exception of the cantilevered prow, a 2-in. concrete slab on 2-in. decking supported by steel and wood beams which cantilever from the natural stone wall. The flat, joist roof is supported by stud walls covered with vertical siding and isolated posts in the glassed-in areas.

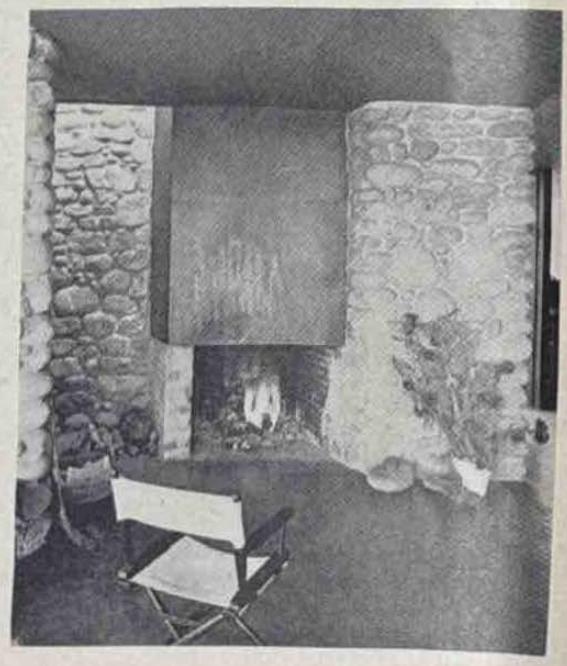


LARGE BALCONY stretches across southern side of living room. Vertical louvers cut down late afternoon glare of sun.

Diamond shaped beach house is a Pacific gem

Dr. Ernest Nelson Moore Residence
Carmel, California

COPPER HOODED FIREPLACE is surrounded by granite wall of boulders collected from beach below house.



OUTLINE SPECIFICATIONS

Type of Construction: Frame on 4-in. reinforced concrete slab and spread footings; cantilevered area on 2-in. concrete slab on 2-in. decking supported by steel and wood beams.

Exterior Walls: California redwood board and batten with natural finish and redwood trim.

Roof: Flat, composition built up on wood joists supported by stud walls covered with vertical siding and isolated posts in glassed-in areas.

Floors: Concrete slab with steel trowel integral color.

Windows: Wood casement and fixed glass.

Doors: Flush wood doors and Arcadia steel sliding doors.

Interior Finish: Vertical California redwood board and batten with redwood trim; redwood plywood.

Built-ins: Hi-Fi in living room; window seat and beds in alcove; bunks in private sleeping area off carport.

Insulation: Rockwool bats in roof and Kimsul blankets in exterior walls.

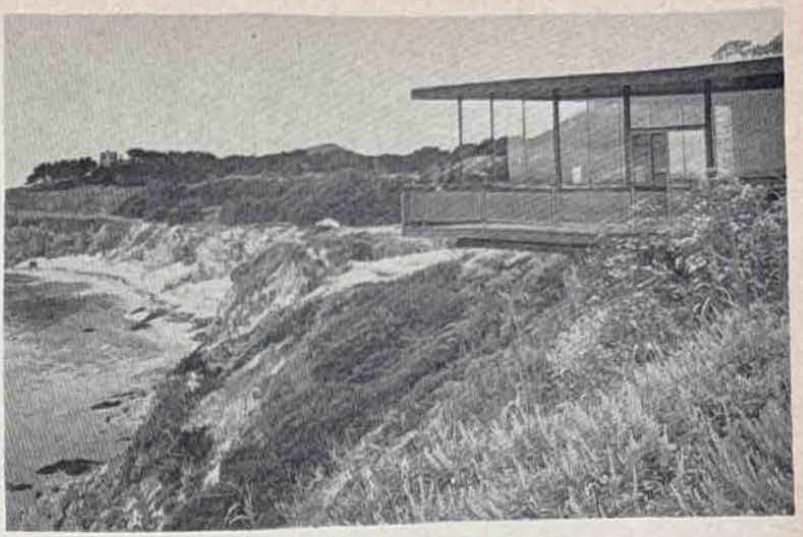
Heating System: Forced warm air gas furnace.

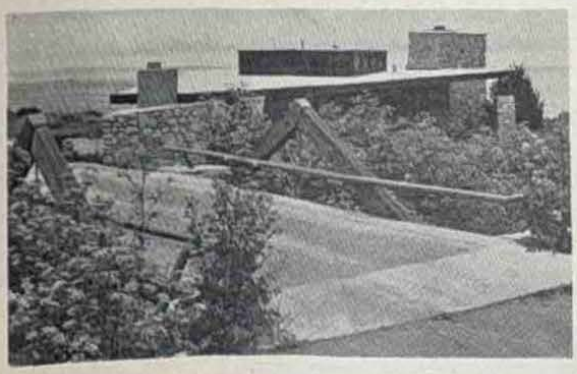
Total Area: 21,865 cu. ft.; 1,060 sq. ft. (1,600 sq. ft. including carport).

Date of Completion: February 1953.

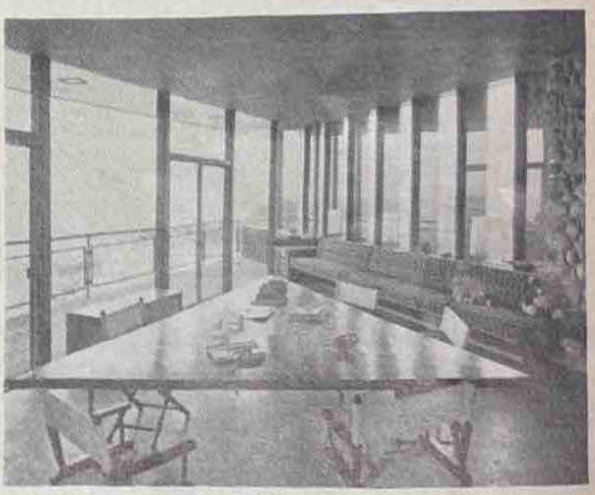
ANSHEN & ALLEN
Architects

THOMAS MILL
Contractor

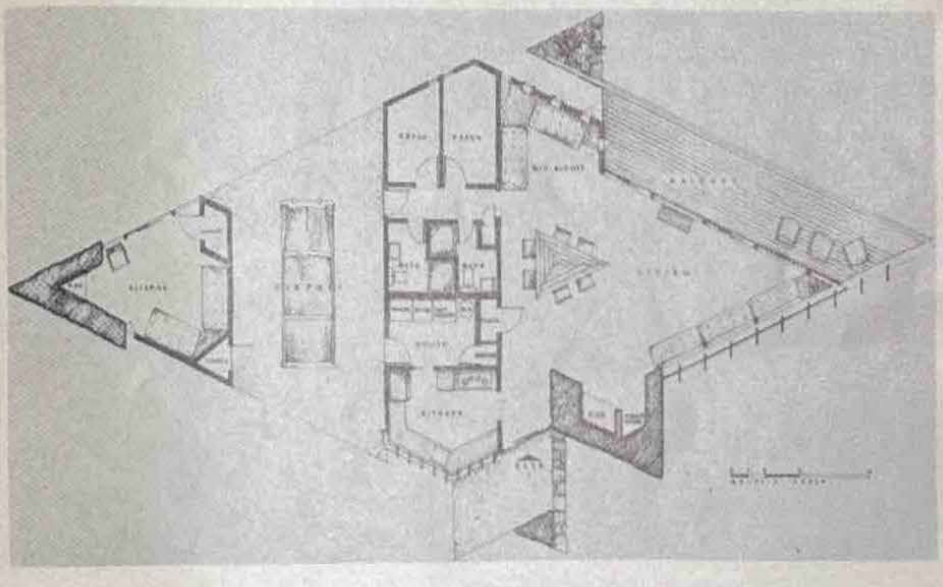




POINTING TOWARD SEA in diamond shape, beach house has unobstructed view of ocean waves breaking on coastal cliffs near Carmel. Exterior finish blends with native stones of area.



TRIANGULAR TABLE reiterates shape of living room. Long rows of built-in couches are used for seating and sleeping. Floor plan includes carport and completely separated guest room that has its own fireplace. One living room is made possible by twin bath and dressing areas.







Photos by Phil Palmer

VINES CLIMBING from recessed planter in entry are visible from dining room, thanks to translucent glass divider that separates dining room from hall. Divider also gives added light to dining area and helped to cut construction costs.

Room divider can be practical and aesthetic asset

MANY CALIFORNIA tract builders are turning to the use of room dividers as a method of cutting construction costs and adding eye appeal for the prospective buyer. They initially used the divider idea as a "break through" from the kitchen to the dining room.

Architects designing homes for tract builders also learned that they could profit, designwise, from the well-planned and well-built divider utilized to separate rooms or to break up a large room into specific living areas.

The architectural team of Frank B. Hunt and Robert S. Kitchen produced a home in Los Altos for W. F. Sanford where the room divider has become almost a focal point of attention. Faced with the design need to conceal a dining area from a hallway, they used ripple translucent glass, framed in simple wood, to provide a dramatic entryway as well as privacy for the diners.

Builder Ralph Knight constructed the divider with vertical members of 2x3 Douglas fir, with the glass set with ⅜-in. wood stocks which project ⅜ in. beyond the posts.

The glass rests on a 4-in. rubber tile base used on the floor in that area of the house. The divider was left open at the top to allow the ceiling line to flow on through the room and to emphasize the feeling of real spaciousness which exists.

To provide vertical stability, the glass screen is attached to a structural post which supports the ceiling. The post and the four vertical wooden members were painted to harmonize with the rest of the house, whose exterior is of redwood board and batten in a ranch style design which the architects call "conservatively modern."

Idaho school district tries pay-as-you go plan

A PAY-AS-YOU-GO PLAN to offset the difficulties of inadequate bonding funds for total school needs has been evolved by Coeur d'Alene school district officials and Benjamin K. Ruehl, AIA, of Spokane.

The problem is being solved by the adoption of what Ruehl terms an ultimate program and site plan preparation along with unit expansion for actual construction for School District 271 high school. The eventual capacity will be 1400 students and the cost about $1½ million including auditorium.

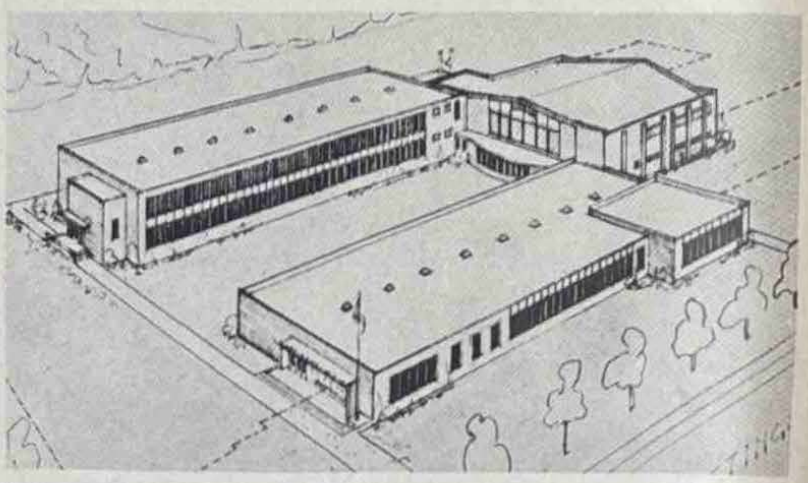
First part of the building, which includes 22 classrooms, was completed in 1954. Another 12 classrooms are to be completed by September 1956 and a gymnasium by January 1957. Busboom & Rauh of Spokane are contractors on this phase of the program.

Third phase of the expansion project includes more classrooms and the vocational department, while the fourth phase will include an auditorium and music units.

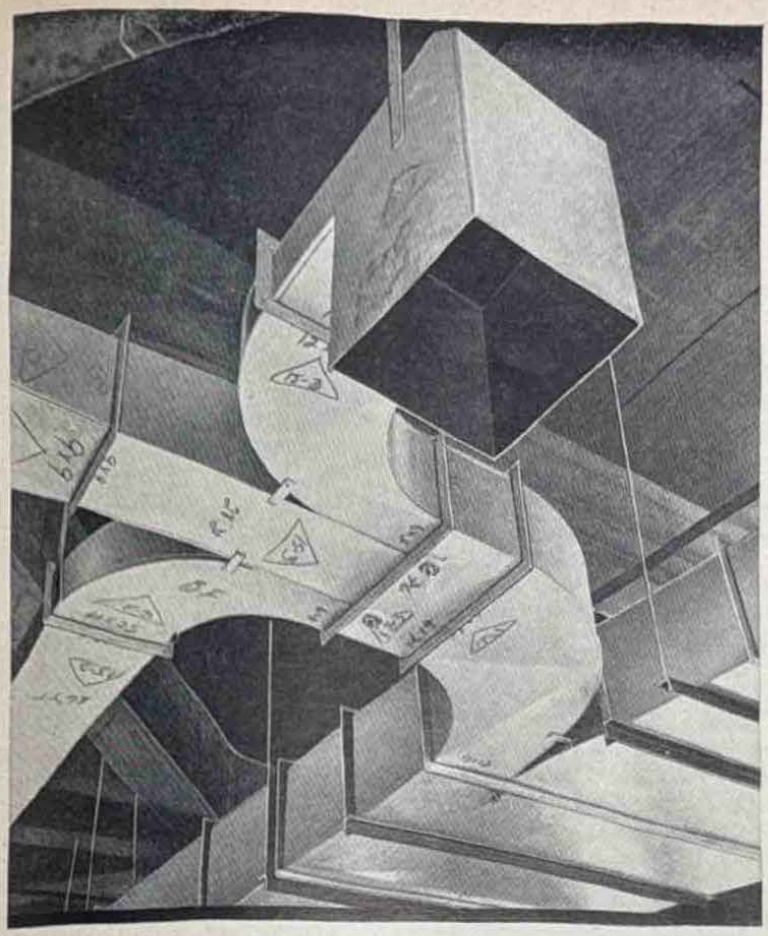
Contracts to date have totaled $787,000 and provide for 74,000 sq. ft. of area. Per pupil cost to date is about $900 and it provides all the requirements of a fully accredited high school to house 900 students.

Construction is of solid masonry exterior, steel frame, wood interiors and roof, hardwood finishes, aluminum sash and all fixed equipment and mechanical work is included.

Estimated per square foot cost of the project is $11.28, including the architect's fee. Much of the saving, it was pointed out, has been made possible by elimination of unnecessary frills and a strictly utilitarian design.



PERSPECTIVE shows how $1½ million high school for Coeur d'Alene, Idaho, will look when completed under pay-as-you-go plan.





A unique feature of the Equitable Building's air-conditioning is 1,180 of these air blending units. There is a blender installed in every perimeter office. The units are connected to the central duct system and they act as independent thermostats delivering conditioned air according to an individual's wants.

Pinched inside a space 11½ inches deep–

Steel ductwork stands rigid air-conditioning test

The 25-story Equitable Building is San Francisco's newest skyscraper and the city's first office building to be completely air-conditioned. The Scott Nelson Company, Mechanical Contractors, had a job on their hands fitting a duct shape in the 11½-inch furred ceiling space. The problem was to fabricate ductwork flat and narrow, yet rigid enough to withstand constant vibration and pulsation. Adding frame reinforcement to the duct was only part of the answer. The rest depended on the selection of the right metal sheet.

The job required metal properly ductile to form sharply angled, tight seams; yet rigid enough to prevent seams from cracking or opening under the stress of high velocity airflow. The Scott Nelson Company selected steel . . . USS Galvanized Steel Sheets for the job . . . and report the USS sheets did a perfect job.

Free Booklet! PA&B-1

UNITED STATES STEEL CORPORATION
COLUMBIA-GENEVA STEEL DIVISION
120 MONTGOMERY STREET
SAN FRANCISCO 6, CALIFORNIA

Please send me your free handbook that gives useful information on the production, properties and characteristics of steel sheets.

*Name*_____

*Address*_____

*City*_____ *State*_____

USS Steel Sheets

USS

UNITED STATES STEEL



What's the matter with down town?

Honky tonk and donkey dust

'If action is not given promptly, the established commercial centers may become ghost areas and commercial graveyards'

by FRANK EMERY COX
Sales Research & Business Development Analyst
The Kawneer Co., Berkeley, Calif.

RECENTLY I visited one of the more modern cities on the Pacific Coast with a population of over 100,000. It was not unlike most of the cities of the country. It is a wealthy community. The per capita income is high. It has grown rapidly while greater growth lies ahead.

Its residential areas will compare with the best in any city in the nation. Its new outlying shopping centers—one in particular—are magnificent, but the retail area of the downtown section, including stores, hotels, restaurants, banks and other business houses, is redolent with the musty, merky atmosphere of decayed grandeur. In the vernacular, the downtown section is "honky tonk and donkey dust." Shabby, run-down, delapidated, unpainted, unwashed, unclean and antiquated, it presents an appearance of degeneration which is entirely out of keeping with the residential section.

To those who pin hopes for the future on the downtown sections of cities such as the one described, it is downright discouraging to approach impressive residential areas, drive through the magnificence of the new shopping centers and then wind up in the seedy, "gone to pot" downtown section.

In the city described, 75% of the residents live in homes that are more modern, better maintained and better equipped than the retail stores, restaurants and business houses of the downtown area. The question arises: Will the citizens whose incomes have jumped sharply and whose standards of living have improved want to shop and do business in a downtown section that can only be described as a "retail slum"?

That the central areas have lost only a small part of their competitive percentage of the community's total retail volume under these circumstances is a testimonial to the economic solidity of down town. It is also evidence that in the increasing population era, people will buy in spite of decadent appearance. But what is going to happen when our economy tightens up? Obviously it would seem that trade will go to the more modern shopping facilities and these, under present conditions, can be found mostly in the suburbs.

One reason why the downtown sections in many of our cities show such degeneration is that in too many instances so-called master plans have been discussed, but seldom have any of them gotten past the blueprint stage. This is not by any means a condemnation of master plans, but is adverse comment on the stagnation that seems to attend most of them. The evidence in so many cities where these plans have been attempted seems to point in the direction that "too big plans" mean too little action. It is quite possible to give down town a new look by simply doing these things:

1) Face-washing the old buildings from top to bottom.
2) Improving the store exteriors.
3) Better housekeeping by the occupants.

Without an appearance of cleanliness and without sight appeal to the shopper, the search for more parking space loses a great deal of its necessity. This does not mean that parking should be neglected nor overlooked. It does mean, however, that parking and downtown modernization must go together. Peripheral freeways, underground or mechanical parking, new plans for public transit and all the other expensive necessities required for the motorist will not function effectively down town so long as that area is dowdy and antiquated as well as non-competitive with the newer outlying districts.

The amazing part of the consideration of the two requirements for the rejuvenation and maintenance of downtown values is that it takes so much less money and time to overcome the run-down appearance than it does to provide parking and to solve the transportation problems. There is no reason, however, why the two pro-



BEFORE: Old Windsor Hotel in Stockton, built in 1891, was white elephant, characteristic of buildings of that era. Note character of tenants. Income was less than enough to pay taxes and insurance.



AFTER: Completely remodeled inside and out, with tenants on long term, percentage leases, building now is profitable investment. Vincent Buckley, San Francisco, was architect; Shepherd & Green, Stockton, contractors.

grams cannot proceed concurrently.

And now for the sake of considering the other part of the "rejuvenation twins," let us look at the parking side of the picture. As we look back on the evolution of transportation and the acceptance of the automobile as the principal means of getting about, we can now trace a chain of relationships between the progress of the automotive industry, retail sales volume, preservation of property values, and the effect that all of these factors are having on our entire basic tax structure to the point where many cities are on the threshold of needing drastic treatment to prevent a serious collapse of their municipal government.

Highway and transportation engineers have provided streets and highways in ever increasing numbers and degree of utility. These are for the purpose, of course, of facilitating motor vehicle traffic. To start an automobile and stop it is not a difficult thing, but to find a place to park it after it is stopped becomes an increasingly perplexing problem. It is quite evident today that there is a direct relationship between the availability of off-street parking facilities and the traffic that enters a business section.

This being the case then, it follows that foot traffic suffers or improves in direct ratio to the amount of off-street parking available. Merchants cannot look on a driver as a prospective purchaser until they get him onto the sidewalk on foot. It is immediately obvious then that there is a direct kinship between foot traffic and sales volume for the apparent reason that if there is no foot traffic, there are no potential customers for trade.

The next link in the chain becomes understandable by virtue of the fact that there is a direct tie between sales volume and the ability of the tenant to pay rent on the premises he occupies. Forging this chain with another link, we then find a relative factor between the ability to pay rent and the return the landlord can obtain on his investment.

Property values these days are more and more being influenced in their appraisal by both commercial appraisers and public assessors through the return on the investment that comes to the owner of the property. As property values go up or down, so taxes are affected, and there is only one conclusion that can be drawn at this point: the relationship between property values and taxes.

When property values decrease, naturally property owners demand lower taxes. This sets up an incipient condition of blight in the area and, once started, this degeneration gains momentum rapidly. Here then is the potential threat to our tax structure because of the high percentage of revenue which the city or other municipal agency obtains from taxes from commercial districts.

Let us take some examples. In one city of 5,000 people in northern California, 52.8% of the total city taxes comes from the business district through real estate taxes, personal property taxes, city sales taxes, business license taxes and others. The city has practically no industrial area, so the commercial district and the residential district share the burden of taxation just about equally.

One case which is significant of what might happen is where the percentage of taxes coming from the commercial area dropped from 28% of the total to 23% of the total. As the revenue from the commercial district decreased, it became necessary to shift the burden to the residential and industrial areas.

There are many individuals who contend that foot traffic in the downtown area can be induced by increased use of public transportation systems. This conclusion, however, seems to be contrary to trends. The use of public transportation to downtown districts has decreased nationally during the last eight years by an approximate 28%, even though the population has increased. In some cities this has been as much as 40%.

This trend in itself sets up a vicious circle by virtue of the fact that the less patronage the public transportation systems receive, the poorer service they are able to render. In some cities it has reached the point where franchises have been abandoned and public transportation has become entirely unavailable. It would seem then that there is no great relief that can be obtained from public transportation facilities to keep the foot traffic at high levels in the downtown areas.

To become hysterical over a dangerous situation is not conducive to developing a solution. Digging huge holes in the ground for three or four levels of parking below the street grade is one way of providing stalls in close proximity to retail districts, but there are many disadvantages. Two of the most important of these are: first, the actual cost of providing stalls on this basis which might run from $2,500 to $3,000 per stall, making it necessary to charge so much for the space occupied by the car per



People prefer to reach for the TELEPHONE

. . . rather than run for it. In other words, they like to have their home wired for telephone outlets wherever they are likely to spend much of their time. In the bedroom, for instance, and the kitchen . . . and especially here in the West where we live outdoors a lot, they want to be able to talk on the patio or even by the barbecue.

Why not take advantage of Pacific Telephone's free Architects and Builders Service. Let us help you plan the kind of telephone facilities every buyer expects to find in his home.

Put built-in telephone facilities in your plans

Pacific Telephone

hour that it discourages shoppers from using them except where necessity commands; and second, this method of providing off-street parking facilities has to do with delays in getting cars in and out which tends to defeat the very purpose for which the facilities are provided.

The use of surface parking only on lots which can be provided within reasonable walking distance of the retail area seems to provide an uneconomic use of the land and necessitates a stall rental rate that tends to discourage use by prospective patrons.

Multi-level garages

It would seem that the use of multi-level garages provides the most adequate answer. In considering these, however, the problem of expense must again be considered; and where the cost per stall approaches the point of more than $1,100, it seems necessary for capital to get a return on the investment by the rental of the stalls at a price that quite often discourages shoppers to the point of diminishing returns, as it benefits the commercial center as a whole.

To provide multi-level garages many developers have constructed unsightly buildings which do not add to the beauty of the city and in many instances are not popular with those who might use them. This means then that the question of design must be given serious consideration. A building that resembles an unfinished, abandoned steel structure does not seem to be the answer. Columns and spandrels should be treated in a fashion that adds to the beauty of the downtown area to keep pace with the attractive design of the competitive perimeter shopping centers. This same truism holds in the case of store buildings and other structures. If this is not done, public opinion can quite often defeat the very end which is desired.

It should be pointed out at this time that a parking stall can be estimated in value in dollars and cents. Many scientifically operated department stores value each stall within 300 ft. of an entrance and under permanent control of the merchant to be worth $10,000 per year in retail sales. Some other lines of business consider stalls worth as much as $30,000 or $40,000 per year in retail sales.

It should be pointed out also that the larger the city, the farther people will walk from where they park their cars. For a city under 50,000 people, it is probably questionable whether there will be much popularity in walking over 350 ft. In a city of 500,000, it could be expected that shoppers would be satisfied to walk as much as 600 ft. if, when they approach the retail stores in the shopping district, they find them as attractive as the newer ones built in the suburban areas.

In San Francisco today a movement is on foot to rehabilitate Market Street. Nondescript tenants there have been permitted to invade what used to be a good retail district. If this tendency is permitted to grow, the underpinning of an erstwhile good retail street will be affected. This same condition applies to Los Angeles, Portland, Seattle, Spokane and even the smaller cities of 5,000 population. Drastic steps must be taken to slow down the degeneration and start the trend the other way.

Much is being done in an attempt to solve these problems, but much more has to be done. A concerted effort on the part of property owners and retail institutions to modernize buildings both inside and out in step with the needs of the times and cooperation between private enterprise and city officials must go forward together to solve the problems of parking.

San Francisco downtown stores sales dropped 4% in 1952, while those in the entire area around San Francisco increased 4%. Using this as an example, if the trend were to continue, it would mean that the major department stores now doing a business of $160 to $170 million a year would find themselves cut back by some $22 million per year in sales, which would be the equivalent to the total sales of any one of the larger department stores.

Urban redevelopment

The new movement which has been encouraged by the federal government's program of urban redevelopment gives evidence of some action which may prove to be the spark to start the general rehabilitation of downtown areas. California has passed enabling legislation making it possible for cities to initiate urban redevelopment programs. It is possible to issue bonds under certain conditions to purchase blighted areas which have been declared a menace. By conforming with certain specifications a boundary of the area can be established and it can be declared subject to condemnation and rehabilitation under certain conditions set up by law. The bonds become a lien against the increased amount of taxes that would develop as a result of improvements and rebuilding. The purpose is not for the city to do this as a public enterprise necessarily, but to invite private capital in for the purpose of participating and taking over the responsibility of the actual reconstruction work.

Los Angeles now has several projects of this nature under consideration. There are many other cities, large and small, in California considering similar plans.

A group of specialists in this type of work with experience in city governmental affairs, construction and planning, has been developed in California to assist communities in this urban redevelopment. The unfortunate part of their situation, however, is that there are so many demands on their time that they cannot keep up with the requests.

Other states are gradually adopting laws similar to that in California which conform with the federal regulations. In many instances joint ventures between private capital, municipal funds and federal aid are being resorted to. In approaching the problem through the means of public urban redevelopment plans, both of the "necessity twins" for rehabilitation can be taken care of, provision of adequate parking and modernization of buildings. It would seem as though this movement is gathering momentum and it is about time, else downtown sections might become so far degenerated that they could not be reclaimed.

It might be possible to summarize the conditions by saying that our parking difficulties and the problem of modernization will never be solved until merchants, landlords, public officials and all others interested recognize the obvious fact that the solution costs money and someone has to pay for it. Solutions will apparently never be obtained as long as motorists are encouraged to consider free parking to be an almost inalienable right and landlords and tenants use the psychology of getting along with what they have, never expecting to spend any money maintaining or improving their buildings.

The relationships of automobiles and off-street parking, foot traffic, sales volume, ability to pay rent, return on investment, property values, and taxes must be considered as a chain and each link must be forged to the point where it will constitute a strong, firm and permanent device that will hold the anchor of downtown property values securely.

If action is not given promptly, the established commercial centers may become ghost areas and commercial graveyards. Better we get rid of undesirable tenants, miserly landlords and reactionary city officials than to lose the commercial core of our cities.

Talks with contractors: the Fox Nailer

by Glenn M. Canaday

THERE'S a gadget on the market called the Fox Nailer that can save you plenty if you have the right job for it. It's particularly applicable to certain types of overhead nailing.

If stripping is to be fastened with 12- or 16-penny nails, the Fox Nailer is definitely in the picture. It isn't the apparent speed of the nailer; it's the ability of a man using it to maintain a steady pace all day long that ups production.

The average carpenter tires after a couple hours of heavy overhead nailing. This is not necessarily true of a specialist who does nothing but apply overhead stripping; however, the average general contractor doesn't have men like this on his payroll, nor are they usually available to him. The nailer makes it possible for a carpenter to install stripping with the speed and ease of the specialist.

I'm not saying the Fox Nailer is the answer to all overhead nailing — it isn't. If only a few hundred linear feet of stripping are involved, if there is much shimming and leveling to be done, or if the stripping consists of 1x2s, 1x3s or 1x4s fastened with 6-penny nails, the job can usually be done more economically by hand.

However, 1x4s applied with 8-penny nails are in the balance, the particular situation determining whether the nailer is justified; 1¼-in. stripping applied with 10- or 12-penny nails is usually a nailer job; 2x2s and 2x4s (usually fastened with 16-penny nails) are made for this gadget.

The Fox Nailer itself is a simple attachment for an air powered riveting hammer. It consists of a plunger extension and a holder for the nail. Each nail is positioned individually by hand. A workable outfit includes a portable type gasoline or electrically driven compressor of the size used to power a production type spray gun, 300 ft. of hose equipped with jiffy connectors, two Chicago Pneumatic Model 1000 hammers, two Fox Nailers and spares, including at least one hammer and an assortment of nailer parts.

On a recent job 2x2 stripping was nailed to joists spaced at 16-in. centers with one 16-penny nail at each bearing. Construction was a dormitory type building with 9-ft. ceilings and rooms grouped on either side of a central hall. The crew was made up of two carpenters nailing, two cutting and handling, and a laborer carrying in stripping, sweeping up and servicing the gasoline powered compressor. Although rooms were small the layout was repetitious. This crew installed 5500 lin. ft. per day, an average of 1100 ft. per man.

On another job, a store building 100x150 ft., the 14-ft. high ceilings were stripped with 1x4s fastened with two 8-penny nails at each bearing to joists spaced 24-in. on centers. The area had a minimum of partitions. Production averaged 640 lin. ft. per man day.

designed with

SCHOOL CLASSROOM IN MIND!

HAWS
Sink-Type Drinking Faucet Receptor



HAWS Series No. 2000

School classrooms may differ widely in their requirements. Realizing this, the new HAWS Sink-Type VANDAL PROOF Drinking Faucet Receptor was designed to accept practically any combination of HAWS Pantry Faucets—or Fill Glass Faucets—and HAWS bubbler-type Drinking Fountains.



● **The HAWS Receptor** is cast iron—beautifully finished in acid resisting white enamel. Stainless steel mounting rim prevents water running onto table or cabinet top and affords a water tight bond between sink and top surface.

Write today *for brochure illustrating combinations of HAWS fixtures that may be utilized with Receptor. You'll find a combination to fit the school job you have on the board or are now planning!*

HAWS DRINKING FAUCET CO.

1441 FOURTH STREET (Since 1909) BERKELEY 10, CALIFORNIA

Pacific Architect and Builder

T-square talk

about architects • planners • engineers

NEW PARTNERSHIPS: R. Evan Kennedy, structural and civil engineer, has been added as a partner to the architectural firm of Edmundson & Kochendoerfer. The firm will be known as Edmundson, Kochendoerfer & Kennedy, architects and engineers, and will continue its offices at 325 Henry Bldg., Portland.



KENNEDY

Kennedy is past president of the Structural Engineers Association of Oregon and past treasurer and a director of both the Oregon Building Congress and Professional Engineers of Oregon.

A committee member of the National Civil Defense Administration, he observed the atomic tests in Nevada last May. He was engineer for the underground Civil Defense Control Center now being built by the City of Portland and is an engineering advisor to the city's Civil Defense Bureau.

Kennedy joined Edmundson & Kochendoerfer in 1952 after being associated with Moffatt, Nichol & Taylor and Cooper & Rose, both engineering firms, and with Barrett & Logan, architects. He is a graduate of the Engineering School at the University of Colorado. During World War II he was in charge of the structural design of some of the blimps made by Goodyear Aircraft Corp.

In Seattle Decker & Christenson, architects, and Charles E. Kitchin, structural engineer, have consolidated their offices under the name of Decker, Christenson & Kitchin, architects and engineers, at 1411 Fourth Ave. Bldg.

Ralf E. Decker, who had been in private practice for nine years, and Waldo B. Christenson, in private practice for five years, formed their partnership in 1950. Both have been active in AIA affairs, with Christenson completing his term as Northwest regional director this spring.

Kitchin has served as consulting structural engineer to Decker & Christenson and other architects for the past four years. He is a member of the National Society of Professional Engineers and the Structural Engineering Association of Washington.

In Great Falls, Mont., David S. Davidson, AIA, and William H. Kuhr have announced the formation of a partnership known as Davidson & Kuhr, architects-engineers. Offices will remain at 104 Fourth St.

Both partners are graduates of Montana State College and World War II veterans.

NEW ASSOCIATES: William E. Dunlap has been elected an associate partner in the San Francisco architectural firm of Skidmore, Owings & Merrill. William J. Watson and Alan S. Robinson have been named as participating associates.

Dunlap served in the firm's Chicago office before he was tranferred to San Francisco in 1951 where he has been chief architect. He was graduated from the Illinois Institute of Technology in 1947.

Watson joined the firm in New York, shifting to San Francisco in 1950. Robinson is project manager for Utah Construction Co. developments.

New associate of the Seattle architectural firm of Wortman & Wilkins is James W. Ellison, who has practiced at 200 Broadway for the past three years. The partners, C. Noel Wortman and Jesse T. Wilkins, will double their present office space as soon as remodeling at 308 Marion Bldg. is completed.

EXPANSION: With the opening of a regional office in Dallas, Texas, the Los Angeles architectural firm of Welton Becket & Associates now has seven branch operations. Charles Gable of Los Angeles will be temporary manager of the new Dallas office, with Alford Peterson, manager of the Kansas City office, replacing Gable in California.

NEW FIRM: R. M. Tracy & Associates have opened an office at 531 First Ave. W. in Seattle. The consulting engineers will specialize in structural design of commercial and industrial type buildings. Tracey is a civil engineering graduate of the University of Washington and has worked for Marshall Barr & Associates in Seattle.

OPENS OFFICE: Ernest Hicks, formerly with architect Kenneth W. Brooks in Spokane, has opened his own office in Coeur d'Alene, Idaho.

PLAN NATIONAL SHRINE: Pereira & Luckman of Los Angeles have been designated coordinating architects-engineers of a planning board selected to formulate a program for the construction in the District of Columbia of a civic auditorium, an Inaugural Hall of Presidents, a music and fine arts center, a mass communications center and correlated facilities. Stanford Research Institute also is represented on the board.

The group will open offices in Washington and will meet monthly to review, discuss and determine the master planning and will simultaneously make a study and recommendation of potential sites.

Board members were appointed by a federal commission recently established by an act of Congress.

ON THE MOVE: The architectural firm of Bassetti & Morse has moved its offices from 1621 Boren Ave. to 1602 Tower Bldg., Seattle (ELiot 1938).

LOVE AND MARRIAGE (and architecture): Richard Neutra, FAIA, of Los Angeles, addressing an audience of 350 persons at San Francisco's Museum of Art, related good architecture to happy and harmonious marriage.

"Many persons get divorced," he declared, "and don't realize that the architect probably had a good deal to do with their matrimonial troubles. There are not only traffic jams on the bridges and freeways, but there also are traffic jams in front of the bathroom door.

"I know that I have the power to blow up any marriage and that I also can keep people together by the succesful practice of good architecture."

Neutra, who helped to develop metal louvers for buildings, effective use of solid panel doors and indirect lighting, told his listeners that "the trouble with being a pioneer is that at first people tell you your ideas are impossible. Then, when everybody is using them, they say, 'I aways told you so.'"

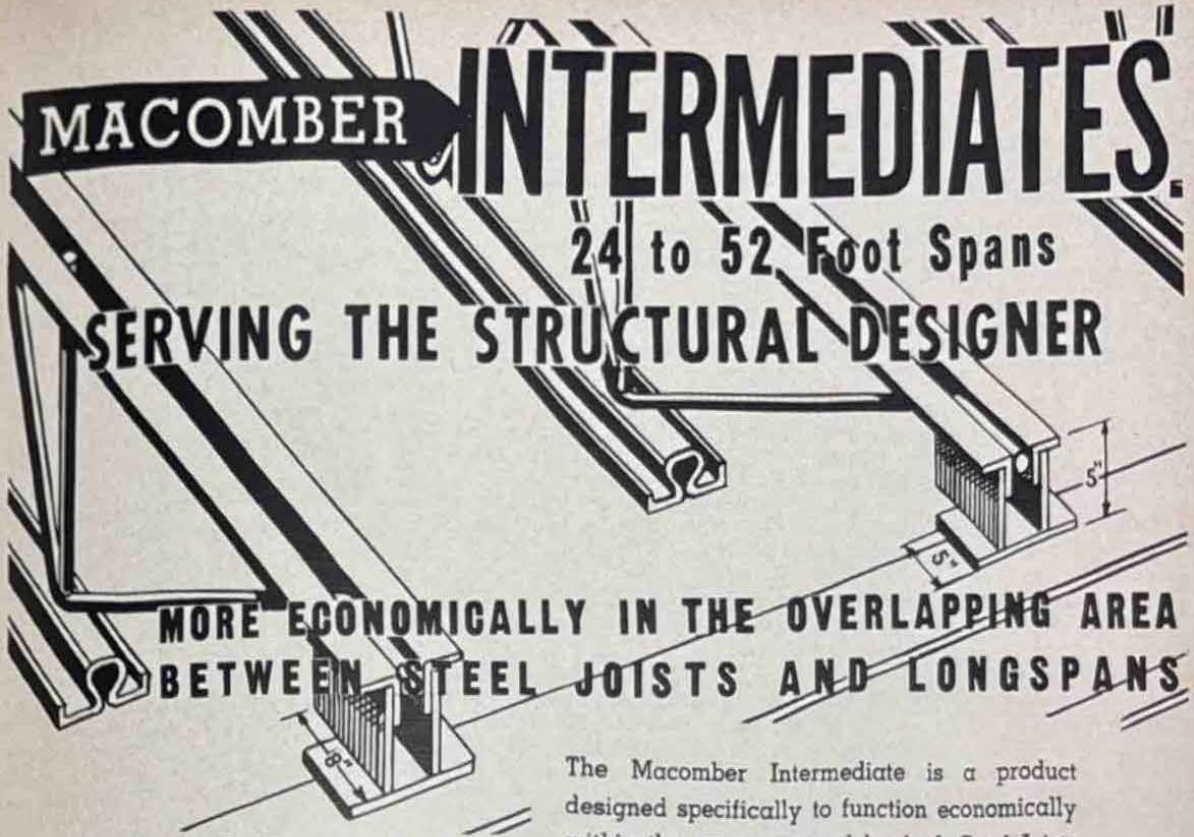
AIA activities

Honor Awards Jury: Two West Coast architects—Paul Thiry, FAIA, of Seattle and George B. Allison, AIA, of Los Angeles—have been named to a five-man jury which will judge the eighth annual AIA Honor Awards competition. Other jurors include Pietro Belluschi, dean of the School of Architecture at Massachusetts Institute of Technology; Eero Saarien

MACOMBER INTERMEDIATES

24 to 52 Foot Spans

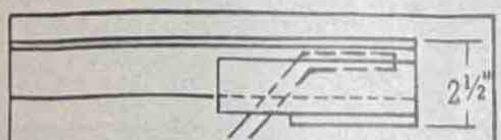
SERVING THE STRUCTURAL DESIGNER



MORE ECONOMICALLY IN THE OVERLAPPING AREA BETWEEN STEEL JOISTS AND LONGSPANS

NOT A STEEL JOIST
NOT A LONGSPAN





INTERMEDIATES ARE DESIGNED WITH 2½" DEEP ENDS WHEN USED WITH STEEL JOISTS.

The Macomber Intermediate is a product designed specifically to function economically within the range covered by both Steel Joists and Longspans.

The greatest design efficiency of the Intermediate is apparent in the area of diminishing effectiveness for Steel Joists and Longspans.

In this overlapping area, you have a complete range of Intermediate sizes and spans for the efficient and economical framing of the majority of commercial and industrial layouts.

Keep this Macomber product in mind when you have an area within the 24 to 52 foot range.

Introduced in 1949—INTERMEDIATES had an immediate acceptance. Since then they have gone into every type of industrial and commercial structure from coast to coast.

The bulletin shown opposite with sizes and Load Table is a MUST for every designer's desk drawer. . . . Just write INTERMEDIATE BULLETIN across your letterhead.

STANDARDIZED STEEL BUILDING PRODUCTS

MACOMBER INCORPORATED

CANTON 1, OHIO

NAILABLE STEEL JOISTS • LONGSPANS • BOWSTRING ROOF TRUSSES • METAL DECK • V-LOK STEEL FRAMING • STRUCTURALS

• ENGINEERING • FABRICATING AND ERECTING •

of Bloomfield Hills, Mich.; and Donald Nelson of Dallas, Texas.

The jury will travel to Washington, D. C., early in March to pass upon more than 800 entries expected from all over America.

Oregon: The chapter's annual banquet will be held Tuesday, February 28, at Riverside Golf Club, Portland, according to George Dickel, chairman.

Southern California: Container Corporation of America, on the basis of development of the corrugated box in lift-slab construction, received the chapter's annual Craftsmanship Award at a dinner in Los Angeles recently. Thomas Russell headed the awards committee.

Thomas Cass, Container vice president who directed the corrugated division, received the honor from William Balch, who heads the AIA chapter.

Cass said credit should also be given to C. Henning Vagtborg who was the spark plug in driving the corrugated box project to completion; to C. C. Simpson Jr. of Simpson Construction Co. who supplied practical construction ideas; and to J. Edward Martin of Albert C. Martin & Associates, architects-engineers, who was responsible for suggesting the basic idea to Container Corp.

Southwest Washington: A chapter-sponsored exhibit on display this month in the Handforth Gallery of the Tacoma Public Library shows photographic panels of 27 buildings cited in the national AIA 1955 Honor Awards competition. The gallery is open to the public during regular library hours, 9 a.m. to 9 p.m., Monday through Saturday.

Student Chapter: Architectural Forum an organization of Idaho State College architectural students, will affiliate as a student chapter of AIA. President of the group is Donald D. Johnson.

Northern California: In connection with a preview showing of the film "Architecture USA" January 19, the chapter set up a special exhibit at San Francisco's De Young Museum of Art to show civic leaders of the Bay area the work of local architects who have won national awards during the past year.

Seattle AIA chapter gets new executive secretary

New executive secretary of the Washington State chapter, AIA, will be Miss Gwen Myer, replacing Miss Dayis Holcomb who has resigned her position to travel abroad. Miss Myer will assume her duties January 30 in the chapter's Central Building office in downtown Seattle.



MYER

For the past two years Miss Myer has been assistant in the women's department at KOMO-TV. While there she aided in arranging a series of architectural interviews last spring. A 1949 graduate of the University of Washington, she took part in the ex-executive retail training program at Frederick & Nelson for three years as an assistant buyer.

Miss Holcomb, who has served as the chapter's first full-time executive secretary since August 1953, also

Where architects hang their hats

The architects—Gehres D. Weed, AIA, and Robert E. Fehlberg, AIA—occupy the basement floor of the $45,000 Sundelius Building they designed for the owner, an osteopathic physician, who shares the first floor with a dentist and an optometrist. Each office has its own reception room and is entirely independent of each other.

An 8-ft. areaway to the east will provide the necessary light to the basement rooms in the event that a building is constructed in the future where a large public parking lot now exists. Private parking for the doctors and architects is available at the rear.

Exterior walls feature Titan brick with tile back-up; interior walls are of wood studs, metal lath and plaster.

WEED & FEHLBERG

Kalispell, Montana

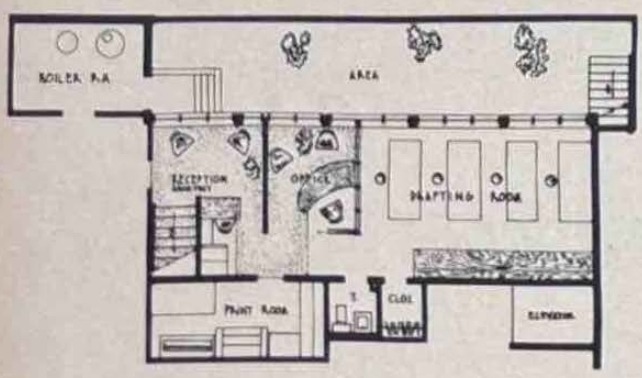
A wall of rough sawed pine boards, stained driftwood gray, is carried into a private office. The vinyl tile floor is carpeted in both areas. A refrigeration cork wall separates the private office from the drafting room, which has a vinyl asbestos tile floor. Ceilings are of Rockwood tile.

Windows are double glazed with crystal sheet glass, Plexiglass and Corrulux.

Russell Anderson of Kalispell was general contractor.



PRIVATE OFFICE has Rockwood tile ceiling, refrigeration cork wall in wood framing. Other side of room has pine wall carried in from reception area. Desk is made from mahogany door. North or street elevation of building is shown below, with floor plan of basement.





is a Washington graduate. She will depart February 5 for study in France and an indefinite stay on the Continent. As a trustee and executive committee member of Allied Arts of Seattle, she will be given credentials for the purpose of establishing contacts with artists and cultural administrators in major European cities.

✔A Bellevue residence designed by Mithun & Nesland won the Home of the Month 1955 contest co-sponsored by the Washington State chapter and the Seattle Times. The architects were awarded the traveling trophy, a sculptured bird executed by Everett Du Pen of Seattle, while the clients, Mr. and Mrs. A. O. Strandberg, received a check for $500. Thomas E. Clark was the contractor.

Honorable mention awards presented at the January 12 dinner meeting in the Benjamin Franklin Hotel went to Wortman & Wilkins for the Frank Goodman residence on Mercer Island; to John Ridley for the Robert L. Tower residence on Mercer Island; and to James J. Chiarelli for the George E. Willmer residence in West Seattle.

Other architects who participated in the competition were Victor Steinbrueck, Jack N. Bryant, Benjamin F. McAdoo Jr., Young, Richardson, Carleton & Detlie, Albert O. Bumgardner, Gene Zema and Seth M. Fulcher.

Multi-million-dollar shopping centers planned

Construction is expected to begin this year on a number of multimillion dollar shopping and business centers in the Redmond-Kirkland-Bellevue area east of Seattle and Lake Washington.

Over a 10-year period, developers plan to spend some $70 million on the three major projects with the possibility that the final tab may reach $150 million.

Maingate, on a 140-acre tract adjacent to the Redmond city limits, is being planned by Johnston & Campanella of Seattle for Maingate Development Co. It will include retail stores and shops, department stores, restaurants, a theater, auditorium, convention hall, bowling alley and other recreational facilities.

Probably the most interesting feature of this project is the moving sidewalks which will be suspended at the second floor level and will pass through department stores and other multi-storied buildings. Escalators will carry shoppers up to the sidewalks from various locations along the mile-long mall.

The buildings will be of structural steel and concrete erected by the tilt-up, lift-slab method.

Welton Becket & Associates have been engaged to plan Overlake Park, to be built on a 320-acre tract between Bellevue and Lake Sammamish. Plans call for a 60-acre shopping center and 260 acres of office buildings, clinics, a hospital, municipal buildings, fire station, library, schools and churches.

Stores and shops will open on a landscaped mall with general parking space, while office buildings and hospitals will each have their own parking lots and landscaping. Overlake Park Association and Overlake Professional Estates, Inc., will develop the property. Carey & Kramer are the consulting engineers and Cash Beardsley is consultant on landscaping.

A $10 million shopping center is planned to serve Eastgate homes built by Bell & Valdez.

A BIG STEAL

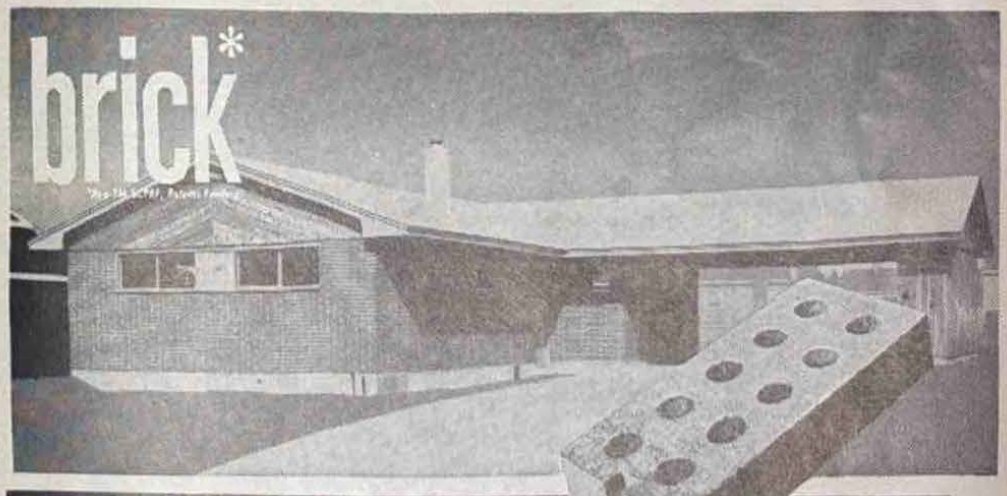
One of the biggest burglary hauls in San Francisco Bay area history took place last month when a prefabricated but unoccupied three-bedroom house was stolen from its foundations in Pittsburg's Columbia Park housing project.

Friday morning the house was there; Friday evening it was gone—without a clue as to the means of removal or the thieves.

The house was the property of A. J. Hansen, Oakland, who recently acquired it and 22 others from Contra Costa County after officials decided to close the project. The houses were to be moved by Hansen to new locations.

the brick that makes masonry construction comparable in cost to quality frame!

SCR brick*



- True Economy
- Perfect for Ranch Homes
- Builds the Whole Wall
- Choice Color Range

C & S Builders in Spokane

recently built 43 new SCR brick homes, priced $11,750 to $13,500 . . . more than half sold before completion . . . 46 more planned! This is true quality building with brick comparable to frame. Investigate superior qualities of WaCo SCR Brick.

WASHINGTON BRICK & LIME CO.

SPOKANE • PORTLAND • SEATTLE

Materials – Products – Tools

and the latest literature



SELECTION TABLE: Waterloo Register is offering a complete, easy-to-read selection table for determining proper sizes of outlets for commercial buildings.

The six-page table can be obtained as a separate folder or as part of the engineering section of the latest Waterloo catalogs. It is based on actual laboratory tests of the company's four-way directional control grill which features silent flow teardrop design of extruded aluminum louver.

(Item No. 1)

WINDOWS: Thorn factory weatherstripped, fin frame aluminum casement, ranch and rain-shield windows can be installed in seconds with only a hammer.

Each window and integral exterior trim is furnished from the factory in a complete package. The completely assembled rigid frame needs only to be set in the opening, leveled and nailed in position. Weather stripping is optional.

(Item No. 2)

TIMBER CONNECTOR: To obtain tighter-fitting joints in wood roof trusses, Timber Engineering has developed the Teco wedge-fit split-ring timber connectors.

Fitting precisely in conforming grooves, cut with the Teco grooving tool in adjacent faces of joint members, the double-beveled, wedge shaped ring slips into position easily and quickly without crushing the wood fibers at the groove's edge.

With less than 1/32-in. clearance between ring and groove, tighter joints are produced, thus minimizing truss deflection.

(Item No. 3)

FLOOR SCREENS: As attractive, yet economical, room dividers, Tropicraft is marketing a line of woven wood floor screens in a wide variety of pattern and color combinations.

The budget priced line has three basic forms—the free-form of fir or redwood, panels and shoji which combines Oriental and American styling.

(Item No. 4)

ELECTRIC HEATING: Trade-Wind Motorfans has entered the electrical heating field with a line of radiant wall insert heaters designed to combine both radiant and convection heating.

A multi-louvered grill gives unobstructed radiant heating and at the same time accelerates convection heating. A simplified mounting bar assembly makes installation and alignment quick and easy and eliminates headers.

Wattage ranges from 1300 to 1650 using 115 AC volts. A larger model drawing 2000 watts operates on 220 volts.

(Item No. 5)

PLASTIC WALL COVERING: For wear and tear use in hospitals, schools and institutions, L. E. Carpenter offers a smooth surfaced fabric in the Vicrtex vinyl electronically fused line.

Called Dado-Wall, it comes in 14 colors and can be used for either wall covering or upholstery. It will not chip, crack or peel. The smooth, antiqued surface doesn't show marks and is flameproof.

(Item No. 6)

DECORATIVE TILE: For that added touch, Pomona is offering a decorative tile in a shell pattern designed by a California artist, Mary Reynolds.

There are six designs in all which can be used together to form one complete design or in any combination for different effects. Shells are in pink beige, brown and black on a background of white Perma-glaze highlighted by an aqua blue.

(Item No. 7)

DRAFTING DESKS: For efficient and economical work planning, the Modulator line of drafting desks is built around 14 basic models which can be put together and interchanged as wished.

The desk-high steel units have plastic and linoleum work surfaces and aluminum drafting boards. The drawing board is mounted on nylon rollers and is counterbalanced for vertical height adjustment up to 12 in., permitting the draftsman to sit or stand with equal convenience.

(Item No. 8)



MODULAR DRAFTING DESKS

DRAINBOARD CAP: To make kitchen work easier for the housewife, Gladding, McBean has developed a drainboard cap which is ¾ in. high, compared to the usual 1⅛ in.

Of smooth bullnose design, the Nu-Vit cap is just high enough to keep water from dripping on floors and cabinets, but low enough for a clean, modern line.

The cap floats in with the deck mortar bed and is available in 12 colors of heat, scratch and acid-resistant Dura-Glaze. It is 2⅛ in. wide and 6 in. long.

(Item No. 9)

SLIDING GLASS DOOR: For installation in any area regardless of weather conditions, T. V. Walker has developed the Continental series of Capri sliding glass doors, designed especially for 1-in. Thermopane insulating glass.

The Continental features wrap-around glazing eliminating screw-on bead, has a narrow 4-in. profile including jambs and screen doors, and complete curved sill with nearly flush replaceable stainless steel track. The door is adaptable to ¼-in. plate glass.

(Item No. 10)

SKYLIGHT: For immediate ventilation in case of fire, Marco has developed a skylight which opens automatically when fire or excessive heat occurs.

A fuseable link in the Fire-Vent model separates causing the cover section to open and remain open until manually closed. The unit is fabricated of fiberglass reinforced translucent structural panels set in an extruded aluminum frame.

(Item No. 11)

CEILING PANEL: Manufacturers of Tectum roof decks are now offering a 1-in. version of their product as an acoustical ceiling panel. The square edged, wood fiber panels, 24x48 in., have high acoustical properties and also serve as insulation.

They may be installed by mechanical suspension or nailed to furring strips and are recommended for all types of construction.

(Item No. 12)

INSULATION: For insulating surface-poured concrete slabs rapidly and economically, Baldwin-Hill has developed a spun mineral fiber product called Perimsul which retards loss of heat at the edges of the slab.

Because of its resilience, Permisul also serves as an expansion joint between slab and foundation. High compressive strength withstands pressures developed by slab and soil. The ma-



CONCRETE SLAB INSULATION

terial will not attrack vermin or rodents, is impervious to soil acids and moisture and will not support combustion.

It can be readily cut and shaped to fit irregular surfaces.

(Item No. 13)

AIR CONDITIONING: To match the trend towards colorful decorating schemes in both homes and offices, Curtis Manufacturing is offering a series of air conditioning units in pastel color combinations.

The units come in combinations of pink, gray, Firnmist, sandalwood and two shades of blue. Capacities range from 3 to 20 tons.

(Item No. 14)

Latest Handbooks, Manuals and Literature

Yours for the Asking

PINE DIRECTORY: The Western Pine Association's 1956 Directory of Membership, covering 12 states, is now available. It lists 375 mills, their general sales offices, estimated capacity per shift, timber species handled, major products and factory products manufactured.

States incuded in the directory are California, Idaho, Montana, Oregon, Washington, Arizona, Colorado, New Mexico, Nevada, South Dakota, Utah and Wyoming.

(Item No. 15)

STAIR TREADS: Steel, aluminum and stainless grating and stair treads are covered in an illustrated booklet published by Klemp Metal Grating.

The booklet includes a detailed safe load table with conversion factors, panel width constant chart and data on the standard widths and types of steel stair treads most frequently used.

Various types of electro-forged welding gratings are discussed and dimensional sketches and data on riveted grating given.

(Item No. 16)

STORE FRONTS: To assist architects and builders in planning store front installations, National Store Fronts has published a catalog featuring full-size cross sections and construction details in half size.

The material is printed on heavy translucent paper for easy tracing of shapes. Pages are folded accordion style to permit easy folding. A number of new and improved mouldings are included in the catalog, plus charts on bar reinforcement heights.

(Item No. 17)

ARCHITECTURAL STEELS: How special steels can add beauty and permanence is the subject of an eight-page booklet put out by Armco Steel.

Stainless steels, aluminum coated sheet steel and enameling iron are covered in the booklet. Photographs show such installations as doorways, safety box doors, pilasters, mullions and spandrels of stainless steel on modern office buildings, carport roofs and signs.

(Item No. 18)

BUILDING CODE: The National Board of Fire Underwriters has completely revised the Recommended National Building Code for its golden anniversary edition.

Drafted by engineers of the board, the code is prepared and recommended for adoption by communities to protect them from fire hazards. Included in the 16 appendices is a tabulation of fire-resistance ratings of walls, floors and other building parts.

(Item No. 19)

SEALING COMPOUNDS: Application of Presstite tape in a number of major structures is described in several case history bulletins available from the manufacturer.

One describes and pictures use of No. 162 elastic tape as window glazing for the Hall Brothers Building in Kansas City. The other details use of No. 579.6 sealing tape for the Equal Facilities Warehouse at Palmdale, Calif. Located in the heart of the California desert, the building was protected from severe dust problems with 218,625 ft. of the tape.

(Item No. 20)

COMPARTMENTS: Actual color samples of the 20 standard Mills colors are included in the 1956 catalog on metal compartments.

Covering toilet compartments, shower and dressing rooms, shower units and hospital cubicles, the catalog offers detailed drawings of typical layouts, plus specifications and design information.

(Item No. 21)

STEEL BUILDINGS: The complete line of Luria buildings are pictured and described in a 28-page catalog.

Included are the new F buildings, a series of flat roof structures, the A series with clear spans of 100' and over, B series of center column buildings where large clear spans are not required, C series of clear spans with crane runways, and standardized hangars and other airfield facilities.

(Item No. 22)

PIPE: In "Piping Security for the Home," A. M. Byers stresses the high resistance to corrosion and fatigue of wrought iron pipe. The text is brief and to the point. Photographs in the eight-page brochure show typical residential installations in which wrought iron pipe is being used.

(Item No. 23)

CHANNEL SLAB: Safe loads and spans for lightweight expanded shale concrete channel slab are charted in a folder offered by Empire Building Material.

Also included are support details and floor finishes for typical 6- and 8-in. Lite-Rock concrete channel slab.

Channel slab dimensions and suggested specifications are outlined. Illustrations show how precast channel slabs span precast beams to eliminate shoring of a 40-ft.-high roof area over crane bay.

(Item No. 24)

READER SERVICE

Pacific Architect and Builder
2418 Third Ave., Seattle 1, Wash.

Please send the literature or data about the material, products and tools listed on these pages.

JANUARY 1956

ITEM NO. (Circle those you wish): 1 2 3 4 5 6 7 8
9 10 11 12 13 14 15 16 17 18 19 20
21 22 23 24 25 26 27 28 29 30 31 32

Name _____ Title _____

Firm _____

Address _____

City _____ Zone _____ State _____

Pacific Architect and Builder

Builders and Suppliers

headlining the news



•Portland Home Builders Association has picked Frank D. Evans as president for 1956, succeeding Al Norbraten. Other new officers are Herbert Ketell, first vice president; Vince Raschio, second vice president; and Will Fromme, secretary.

•Home Builders Institute of Los Angeles has picked R. Reese Myers to serve as president in 1956. He succeeds Walter W. Keusder. Other new officer's are Charles W. Getchell, first vice president; George M. Pardee Jr., second vice president; Milton J. Brock Jr., secretary; and John D. Griffith, treasurer.

For the first time in the organization's history, two lifetime members of the board of directors were selected. Honored were H. Cedric Roberts, who has been building homes in the Southland area since 1923, and Lloyd S. Whaley, who entered the field in 1937. Both are charter members of the institute and have served as elected members of the board for the past 10 years.

•Purvis Construction Co. has moved into a new office at E. 5019 Sprague Ave., Yardley, Wash. H. Halvorson, Inc., former occupant of the building, has moved to E. 5218 Sharp Ave.

•G. P. Frazer, manager of the housing division of Utah Construction Co., San Francisco, died December 18 at the age of 62 of a heart ailment. He had been an officer of the firm for five years.

• Seattle chapter, AGC, has elected Donald L. Clark of W. G. Clark Construction Co., Seattle, as president for 1956. He succeeds Paul N. Odegard of Odegard Construction Co., Everett.

Clark follows in the footsteps of his partner and father, W. G. (Bill) Clark, who served as Seattle chapter president in 1941.

Other new officers are vice presidents, Andrew P. Wick of Wick Construction Co. and John C. Boespflug



CLARK



HARPER

of J. C. Boespflug Construction Co.; secretary, Theodore W. Teufel of George E. Teufel Construction Co.; and treasurer, Gordon A. Mowat of A. F. Mowat Construction Co.

The chapter's executive committee has appointed Colton D. Harper as manager. He succeeds the late E. B. Hickok, one of four Pacific Northwest construction officials killed in an airplane crash.

Harper has been assistant manager of the organization for the past five years and previously was an estimator in the general contracting field.

•David D. Bohannon, San Mateo home builder, has been elected 1956 president of the Commonwealth Club of California, a discussion group which has headquarters in San Francisco.

•Associated Home Builders of Sacramento has elected H. J. Harlow Jr., head of Harlow Construction Co., as president. He succeeds John A. Jacobson, president of Jacobson Construction Co.

Other new officers are vice president, John Bristow, partner in Lewis & Bristow building firm; and treasurer, Charles Michael of Michael & Neher Construction Co.

•Oregon Building Congress has elected Clyde Keller Jr., associated with Norris, Beggs & Simpson, as 1956 president. Other new officers are Frank G. Gomersall, vice president; Clarence G. Stohl, secretary; and Clell Harris, treasurer.

At the congress' annual banquet in Portland January 5, the contractor award for high standards of ethics and construction practice was presented to Henry M. Mason of Henry M. Mason Co.

Five candidates for membership in the Guild of Building Handicrafts were honored for outstanding work in their chosen crafts. They are Carl S. Carlson, cement mason; Herman C. Holland, bricklayer; William H. Howard, steamfitter; George E. Rollinson, bricklayer; and James G. Wells, carpenter.

•Tacoma chapter, AGC, has picked Robert F. Shapley for the management post made vacant when Clarence W. Todd was killed in an airplane crash. Shapley has been assistant manager of the Alaska chapter the past two years and from 1946 to 1951 was business representative of the Fairbanks local of the International Laborers Union.

FOR BUILDERS ONLY

The first edition of "Building Business," a four-page publication to be issued every other month by United States Plywood Corp. for the light construction industry, has been mailed to 20,000 builders throughout the country.

"We believe this presentation of news highlights will stimulate builders to refer to their favorite trade publications for additional information on particular subjects," a company spokesman comments.

Builders who want to receive "Building Business" at no cost can do so by writing United States Plywood Corp., 55 W. 44th St., New York 36, N. Y.



UNIQUE MANUFACTURER-SPONSORED PROGRAM designed to give home builders technical information on hot water heating systems has been launched throughout northern California by plumbing and heating division of American-Standard. Series of workshop meetings will be held in spring, with 125 home builders already having participated in sessions at Colma, San Mateo and San Rafael. Pictured at San Rafael workshop are (l. to r.) Claude St. Martin, General Construction Co.; Allen R. Champie, Hallmark Homes; Ed Fadgen, American-Standard representative; Bob and Frank Antonioli, Antonioli & Sons.

•**Eastern Washington Builders chapter, AGC,** has picked Halvor Halvorson, president of H. Halvorson, Inc., to direct chapter activities for 1956. Al Ruud of Ruud Construction Co. is the new vice president and C. E. Hively continues as executive secretary.

•**Tacoma Master Builders** has installed Gordon Korsmo of Korsmo Brother as president for 1956. Other new officers are Howard Wilson, first vice president; Ralph Peltier, second vice president; Robert Good, treasurer; and Herman Sarkowsky, secretary.

Suppliers

• **West Coast Lumbermen's Association** has announced new grading rules for West Coast lumber, Douglas fir, West Coast hemlock, Western red cedar and Sitka spruce which are expected to be in effect within the next 60 days.

Principal change is from grade numbers to grade names to make them more easily understood by the purchaser. No. 1 becomes construction; No. 2, standard; No. 3, utility; and No. 4, economy.

Other minor changes affect fiber stress, skips on the edge, thickness of boards and finish items. The name of the bureau also has been changed to West Coast Lumber Inspection Bureau.

• **Frank Edwards Co.** has been named distributor of Youngstown Kitchens equipment in San Francisco.

• **Architectural Woodwork Institute** has elected C. Albert Carlson of Aaron Carlson, Inc., Minneapolis, as president for 1956. Board members from the West Coast are Roy Erickson, Spokane Woodworking Co.; M. H. Nordquist, Nordquist & Engstrom, Seattle; and John F. Sigurdson, Sigurdson Millwork Co., Ltd., Vancouver, B. C.

• **Kalman Floor Co.** has appointed George Kresa to the post of sales engineering representative in the Los Angeles area for the firm, which specializes in construction of industrial hard-topped granolithic concrete floors.

• **Red Cedar Shingle Bureau** reelected the three top officers of the organization at its 39th annual meeting in Seattle last month. Directing activities for another year are, H. V. Whittall, shingle manufacturer of Vancouver, B. C., president; R. D. Mackie, Aberdeen, Wash., vice president; and Virgil G. Peterson, Seattle, secretary-manager. New members on the board of trustees are Ben Hanich, Everett, Wash., and Melvin Lester, Sweet Home, Ore.

The convention pased a resolution calling for a research program to improve shingle and shake sizes and specifications. Major speaker was Harry H. Steidle, manager of Prefabricated Home Manufacturers' Institute Washington, D. C., who estimated that 10% of all single-family dwellings in the United States by the end of 1955 were prefabricated homes.

• **Kaiser Steel Corp.** announces that Jack J. Carlson has been appointed a vice president and general manager of the Montebello, Calif., fabricating division plant. B. J. Osborne, former general manager of the plant, is now at the Oakland home offices as assistant to the vice president and general manager for consultation in connection with the fabricating division operations.

• **Norris-Thermador Corp.** has consolidated reasearch and development ac-



ROOF TRUSSES-Give Ring a Ring

Cover the overhead with custom cut "BOWSTRING" or "A" type TRUSSES for stores, warehouses, commercial, farm and utility buildings.

SHOW US THE WALLS—WE'LL COVER THE ROOF . . . OR YOU CAN!

RING & PITTS CLEAR SPAN ROOF TRUSSES

N. 2607 MONROE, SPOKANE 17, WASH. EMpire 4465

COMFORT with ECONOMY in

PORTLAND

OREGON

Portland's fine home-like hotel in the center of the city—Unsurpassed service and fine cuisine makes your visit one of happiness and comfort.

Campbell Court Hotel

ELEVENTH AND MAIN STREETS

Our rates are especially reasonable. All rooms with private bath. Singles from $3.50. Doubles from $4.50

The Northwest's Most

DISTINCTIVE BRICK

. . . in tones and textures that for three generations have made it an integral part of the Pacific Northwest's fine regional architecture.

CHEHALIS BUFF ROMANS
CHEHALIS RED ROMANS
BUFF NORMANS
RED NORMANS
NEW SCR BRICK

SCPI

CHEHALIS BRICK & TILE CO.

BOX 668, CHEHALIS, WASHINGTON

tivities in a new laboratory on a nine-acre site in East Los Angeles. The building provides 17,000 sq. ft. of laboratory for design and testing of the company's line of pressed steel and vitreous china bathtubs, lavatories, sinks and toilets and electrical cooking, heating and cooling products.

• **Terrazo and Stone Supply Co.** is now King County, Wash., distributor of Wilkeson sandstone, according to H. D. Pierce, manager.

• **Sun Valley Sliding Door Co.** has just completed a new building at Sun Valley, Calif., for offices and warehouse space and plans further expansion this year to increase production facilities. Appropriately enough, aluminum sliding glass doors were used extensively in the new building.

• **Forest Fiber Products Co.** has promoted Hugh M. Lineweaver from sales promotion director to merchandising manager of the Forest Grove, Ore., hardboard manufacturing firm.

• **Smith-Davis Co.** of Los Angeles has established a separate sales organization for the company's multicolor enamel distributed under the trademark Plextone. Heading the new Plextone architectural division is Hal Palmer, a veteran of the firm. William Frick and E. A. Rasmussen have been appointed southwestern and northwestern regional sales managers, respectively.

• **Concrete Products Association of Washington** has begun a block testing program to determine standards of size and quality being manufactured in the state. A report on preliminary results was given at the recent 27th annual fall meeting held in Seattle. Other highlights included a discussion on reduced fire insurance premiums for the column block-bond beam system of concrete masonry construction; mix design for concrete culvert pipe; and office management problems.

• **Michael Flynn Manufacturing Co.** has opened a southern California sales office and warehouse in southwestern Los Angeles. Third California branch established by the manufacturer of aluminum windows and allied building products, it will be under the supervision of Tom Fulkerson. Directing sales will be Don Treacy, assisted by E. Ernest Rohr. David M. Minnick will be sales representative for the area.

• **Owens-Illinois Glass Co.** has promoted Keith Conrad to chief engineer Pacific Coast division. Replacing him as chief project engineer at the general research deparment at the company's technical center in Toledo, Ohio, will be Robert R. Denman.

• **National Electric Products Corp.** has a new salesman for the Seattle district office. He is James K. Crowder, who joined the firm in 1952 as stock and order clerk.

• **J. D. Polis Manufacturing Co.** has purchased Blair Pin Bolt Co. of Chicago and Los Angeles and will produce the line of expansion anchors and bolts under the name Bulldog pin bolt drives.

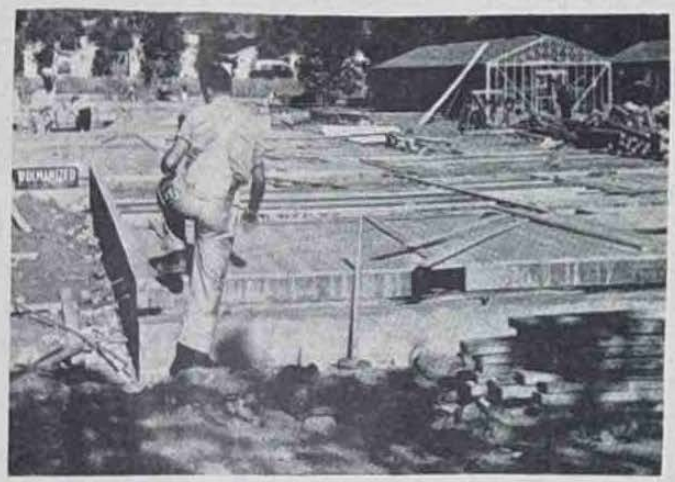
• **A. P. Green Firebrick Co.** of Mexico, Mo., has bought a two-thirds interest in Troy Firebrick Co. of Spokane from Washington Brick and Lime Co., according to Neal R. Fosseen, president of both Northwest firms.

Headed by William S. Lowe, the Green company controls E. J. Bartells Co. of Seattle which distributes firebrick, mortar and refractories. One of the first projects of the reorganized firm will be construction of a plant costing more than $250,000 to replace the one destroyed by fire last July.

James D. Mason, vice president and general manager of Troy, will return to Washington Brick and Lime as chief ceramist in charge of development and quality control for the company's new structural glazed tile division.

"Wolmanized"* Lumber More Than Pays Its Way

Through the years "Wolmanized" lumber more than pays its own way in structures exposed to weather, humidity and condensed moisture, or in contact with the ground, masonry or concrete.



"Wolmanized" Pressure-treated lumber is recognized as the best material for hundreds of applications in building construction where ordinary untreated wood would not be at all practical. "Wolmanized" Lumber Adds Positive Protection.

*Registered Trademark

WEST COAST WOOD PRESERVING CO.

PHONE EL. 3602

PLANTS: West Seattle, Eagle Harbor

OFFICE: 1118-4th Ave., Seattle, Wash.

Construction News Bulletin

Vol. 62—No. 1 (PA&B) News Section of Pacific Architect and Builder January 21, 1956

D. F. McCormick ..... News Editor
G. M. Westman ..... News Staff
Win Romtvedt ..... Portland News Manager
A. E. Maguire ..... News Staff

Newsroom • 2418 Third Avenue, Seattle 1, Washington • Phone MAin 0285

BUILDING NEWS

Washington, Oregon, Idaho, Montana, Wyoming, Utah, Alaska

- ● Bids Called
- ★ Contract Awards
- ▲ Low Bids—Bid Received
- ■ Planholders—Prospective Bidders

OREGON

★BRANCH BANK— Ashland, Ore.

Award to James S. Hickey, Inc., 523 S.E. Stark St., Portland, (amount not announced) by U. S. National Bank of Portland, E. C. Sammons, president, 321 S.W. 6th Ave., Portland, for new branch bank at 30 Second St. Plans by Jacobberger, Stanton, Franks & Norman, 512 McKay Bldg., Portland.

One and one-half story building, 5,400 sq. ft.; mezzanine floor includes lunchroom and lounge, storage and building equipment rooms; drive-in window, customer parking area and night depository. Masonry construction with brick veneer exterior; granite exterior trim; six plastic skydomes recessed in main lobby ceiling; vinyl plastic wainscotting; formica finish on fixtures; colored fiberglass draperies. For completion in July. WB 1-14

●FLOORING— Burns, Ore.

Bids to be opened 2 p. m., P.S.T., February 8, by U. S. Air Force, C. S. Phelps, procurement officer, Geiger Field, Spokane, for the installation of new flooring in eight buildings at the 634th AC&W squadron in the vicinity of Burns, Ore. (IFB 45-614-56-46). Bid bond 20%.

Installation of asphalt tile flooring in three colors in BAQ building 143, 147 and 151; BOQ building 152; training, recreation and dispensary, building 159; operations, buildig 204; administration, building 146, and mess hall, building 155. CE-G 1-13

▲SCHOOL ADDITION— Clackamas, Ore.

Bids opened January 10 by School District No. 71, Clackamas County, Al Ott, clerk, Route 1, Box 331-A, Clackamas, Ore., for addition to existing Sunnyside School, near Mt. Scott Golf Course. Plans by Scott & Payne, architects, 511 Builders Exchange Bldg., Portland. LOW BID: Norman Builders, 2805 S.W. 3rd Ave., Portland, $37,126. OTHER BIDS: Gene Settergren, 1625 S.E. Woodward St., Portland, $38,789; Beebe Construction, 2134 N. Flint Ave., Portland, $39,961; Weston Construction Co., 7415 N.E. Glisan St., Portland, $40,650; Sterner Construction Co., 13845 S.E. Rhine St., Portland, $40,897; Walker & Green, 1500 S.E. 130th Ave., Portland, $41,380; Loftin & Robinson, Route 2, Box 348, Gresham, $41,391; Sergeant Construction Co., 105 N.E. 86th Ave., Portland, $41,414; Bigelow Construction Co., 2014 N.E. Sandy Blvd., Portland, $44,113.

WB 1-13. Previous report 1-5

SCHOOL ADDITION— Coburg, Ore.

Architects, Hamlin & Martin, 159 W. 12th Ave., Eugene, have been retained by Coburg School District No. 43, Robert C. Sabin, superintendent, Coburg, for the construction of a two-room addition to the Coburg Elementary school. One room will be a classroom, the other a library for the first six grades. DW 1-11

HIGH SCHOOL ADDITION— Eugene, Ore.

A $225,000 bond issue has been recommended by a citizen's advisory committee of Bethel School District No. 52 for construction of a gymnasium, dressing room and classroom addition to Bethel Junior High School now under construction and due for completion in August. Superintendent of the district is Tom Powers, Administration Bldg., 4640 Barger Drive, Eugene.

Estimated cost of the addition is $210,000; the other $15,000 of the bond issue would be used to acquire a site for a new elementary school for future construction. DW 1-11

LODGE— Eugene, Ore.

Working drawings under way by Freeman, Hayslip, Tuft & Hewlett, architects, 2040 S.W. 3rd Ave., Portland, for a new lodge hall for the Loyal Order of Moose, Eugene Lodge No. 686, Dewey Hazelton, 77 W. Broadway. Bids call is contemplated by spring or early summer.

The new hall will be built at 13th and Chambers Streets. One story, 22,000 sq. ft. floor space; separate lodge halls for men and women; lounges for men and women; dining hall, ballroom and other facilities. DW 1-13

★WAREHOUSE— Eugene, Ore.

Award by (bids received January 9) Lane County Electric Co-op, Glen Sawyer, manager, 1715 Franklin Blvd., Eugene, for a warehouse. Plans by Wilmsen & Endicott, architect, 863 E. 13th Ave., Eugene. AWARD: J. M. Steinmuller, Jr., 907 W. 3rd Ave., Eugene, $17,954. OTHER BIDS: Elson C. Shields Co., 170 Patterson Road, Eugene, $19,208; W. S. Hardie & Son, Box 422, Eugene, $19,335; Arnt Ree & Son, 113 W. 18th Ave., Eugene, $19,583; Industrial Building Co., Box 869, Eugene, $19,832; Albert Vik & Son, 160 Madison, Eugene, $19,857; Gale Roberts, 338 W. 11th Ave., Eugene, $21,649; Dave A. Carmiencke, 425 Harlow Road, $23,100; John Kovtynovich, 395 Skyline Park Loop, Eugene, $24,745.

DW-M 1-13. Previous report 1-4

▲RESIDENCE— Eugene, Ore.

Bids received January 9 by Louis F. Bonson, designer, 180 Cherry Drive, Eugene, for Blinkinstaff residence on Lorane Highway. LOW BID: C. Ken Dart, 124 Arbor Drive, Eugene, $26,400. OTHER BIDS: John H. Corser, 1295½ Main, Springfield, $26,418; Jens Thorsen, 90 Willona Drive, $27,827; D. A. Carmiencke, 425 Harlow Road, Eugene, $29,827; Smith & Ingram, 128 Sunshine Acres Drive, Eugene, $30,355.

DW-M 1-17. Previous report 1-4

▲PRINTING SHOP— Eugene, Ore.

Bids held under advisement (bids opened January 11), by Shelton-Turnbull-Fuller, 32 11th Ave. E., Eugene, for a printing shop and office at 352 W. 12th Ave. Plans by Western Engineering Consultants, 110 E. 12th Ave., Eugene. LOW BID: Albert Vik & Son, 160 Madison St., Eugene, $37,495. There were five other bids, the highest being $40,197.

DC 1-18. Previous report 1-4

★SCHOOL ADDITION— Eugene, Ore.

Award to Elson C. Shields Co., 170 Patterson Road, Eugene, $12,950, by Eugene School District No. 4, Lane County, Clarence Hines, superintendent, 275 E. 7th Ave., Eugene, for a one-classroom addition to River Road Grade School. Plans by Wolff & Zimmer, architects, Pearson 4th Ave. Bldg., Portland.

Subcontract awards by general contractor: ASPHALT TILE, Whitney Floor Covering Service, 2845 Willamette; CERAMIC TILE, Field Tile Co., 1736 Moss; GLASS, Midgleys', 409 High; ELECTRIC, Hamilton Electric, 232 W. 5th; THERMAL INSULATION, University Insulators; MECHANICAL, Willis Plumbing and Heating, 450 Figueroa; SHEET METAL, Clarke's Sheet Metal, 368 High; PLASTERING, Benny Bartel, 132 Tomahawk; ROOFING, Bahling Roofing, 1361 W. 11th; ACOUSTICAL TILE, Commercial Tile Co., 242 5th St., Springfield; METAL DOORS, Grande Metal Products Corp., 2340 S.E. Gladstone, Portland. Of Eugene unless otherwise stated. DW 1-18. Previous report 1-10

●■ SAFEWAY STORE— Forest Grove, Ore.

Bids to be postmarked by midnight, January 26, and sent to Bramwell Construction Co., Division of Safeway Stores, Inc., 1208

S.E. 7th Ave., Portland, for Safeway Store in Forest Grove. Plans by Max P. Williams and Robert B. Martin, architects, 1919 S.W. 12th Ave., Portland.

PLANHOLDERS: Claude C. Purvis Co., 1900 "E" St., Springfield; Fred W. Carter Co., 6034 N.E. 60th Ave., Portland; C. M. Corkum Co., 2630 S.W. 2nd Ave., Portland; Henry M. Mason Co., 2206 N.W. Thurman St., Portland; A. V. Petersen Co., P. O. Box 2368, Portland; E. E. Settergren, 3723 S.E. 21st Ave., Portland; Robertson, Hay & Wallace, 1801 S.E. Grand St., Portland; Juhr & Sons, 1339 S.E. Gideon St., Portland; Diversified Builders, Inc., S.W. 2nd Ave. and Clay St., Portland.

One-story structure, 65'x125'; reinforced concrete construction; brick and plate glass front; porcelain enamel tower; bowstring built-up roof; asphalt tile flooring; fibreboard ceilings; parking area. WB 1-17

SWIMMING POOL— Gresham, Ore.

Bond issue for $169,000 defeated by Gresham Union High School District, Harry Thompson, superintendent, Gresham. Funds would have been used on construct covered swimming pool building, housing 42'x75' pool. WB 1-17

ELEMENTARY SCHOOL— Helix, Ore.

Bond election to be held February 1 by Helix School District. The election was previously scheduled for December but was postponed when it was learned that notices of the election had been improperly posted.

The $170,000 in bonds would be used to finance construction of a new five-room elementary school and a multi-purpose room. DC 1-13

● ■ SAFEWAY STORE— Hermiston, Ore.

Bids to be postmarked by midnight, January 26, and sent to Bramwell Construction Co., Division of Safeway Stores, Inc., 1208 S.E. 7th Ave., Portland, for Safeway Store on Stanfield Highway, one block south of business district, Hermiston. Plans by Max P. Williams and Robert B. Martin, architects, 1919 S.W. 12th Ave., Portland.

PLANHOLDERS: Claude E. Purvis Co., 1900 "E" St., Springfield; Fred W. Carter Co., 6034 N.E. 60th Ave., Portland; McCormack Construction Co., S.E. 3rd and Goodwin, Pendleton; Mid-State Construction Co., P.O. Box 456, The Dalles; Columbia Builders Supply Co., 2150 N. First Ave., Hermiston; L. B. McKinney Co., 2544 N.E. Union Ave., Portland; Mardis Construction Co., Suite 7, Title and Trust Building, Pasco, Wash.

One-story structure, 65'x125'; reinforced concrete construction; brick and plate glass front; porcelain enamel tower; bowstring trusses; built-up roof; asphalt tile flooring; fibreboard ceilings; parking area.

WB 1-17. Previous reoprt 8-25

■ OFFICE-WAREHOUSE— Hines, Ore.

Planholders announced for construction of a regional warehouse and office at Hines, Harney County, Ore. Bids to be opened 10 a.m., January 27, by Oregon State Game Commission, P. W. Schneider, director, 1634 S.W. Alder St., P. O. Box 4136, Portland. $50 deposit. Certified check or bid bond 10%.

PLANHOLDERS: John M. Steinmuller, 907 3rd Ave., Eugene; Mann Construction Co., P. O. Box 577, Redmond; Schraeder Construction Co., 3030 S.E. Hawthorne Blvd., Portland; Hampton C. Platt, 3805 Thorndale Road, Salem; Teller Construction Co., 845 N.E. Graham St., Portland; Pacific Concrete Co., 11840 N.E. Eugene St., Portland.

WB 1-18. Previous report 12-30

SCHOOL ADDITION— Klamath Falls, Ore.

Plans nearly complete; bids to be called soon for the construction of a six-classroom addition to Twyla Ferguson Elementary School, Homedale Road, Klamath County. Existing school is situated on a 14-acre tract in suburban Klamath Falls and is designed to permit removal of walls and construction of additions. Plans by Morrison & Howard, architects, Williams Bldg., Klamath Falls, for Klamath County School District, John Heyden, clerk, Veterans Memorial Bldg., Klamath Ave., Klamath Falls.

One-story building, approximately 7,000 sq. ft.; reinforced concrete footings and foundations; prefabricated wood walls with brick veneer exterior finish; concrete slab floors; mill roof with glued laminated beams, 2x6 T&G decking; frame partitions; wood windows; interior finish acoustical tile; interior partitions plasterboard; classroom to be plywood above block board; ceramic tile in toilets; vinyl tile in other rooms; wood plank ceilings; holo metal exterior doors; wood interior doors; blackboards; cloaking and work cabinets; tack boards; rigid insulation in walls and ceilings; hot water heating, radiant floor panels.

ZZ-G 1-13. Previous report 11-26

■ STOCK SALES ARENA— Klamath Falls, Ore.

Planholders announced for the construction of a stock sales arena on fairgrounds site, S. 6th St., Klamath Falls. Bids to be opened 2 p.m., January 27, by Howard R. Perrin, architect, 1121 Main St., Klamath Falls, for Klamath County Fair Board, Percy Murray, secretary, Klamath Falls.

Planholders: A. E. Fitzgerald, 329 Rogers St.; Leo Huls, 1310 Oak St.; Pinniger & Watkins, 1430 Klamath Ave.; Eldon Alt., Midland Road; Chas. Kerr, Keno Road; Duncan Construction Co., Box 1088; Harry & Barry, 4817 Altamont, all of Klamath Falls; Mann Construction Co., Box 577, Redmond.

ZZ-G 1-18. Previous report 1-7

RETIREMENT HOME— Medford, Ore.

Site has been purchased on Barneburg Hill for the proposed Rogue Valley Manor which is planned by Rogue Valley Methodist Home, Inc., Clyde W. Mummery, administrator, Medford.

Estimated cost $2,000,000. Hotel-type apartment building which will be affiliated with the Methodist homes organization but is being advanced by a non-denominational group as a retirement home in which lifetime occupancy rights to the apartments will be sold in advance.

DC 1-10. Previous report 10-26

NURSING HOME— North Bend, Ore.

Working drawings under way by John W. Maloney, architect, 754 Central Bldg., Seattle, for construction of a nursing home for the Sisters of Mercy, at North Bend.

Three story plus ground floor; approximately 78 beds; reinforced concrete with exposed concrete exterior walls; concrete slab floors; concrete girders, beams and columns; built-up roof; masonry partitions; concrete stairways; steel sash; metal stud partitions with lath and plaster; asphalt tile flooring with quarry tile in kitchen and ceramic tile in toilets and bathrooms; exposed concrete ceilings with some acoustical; holo steel exterior doors; holo or solid core, wood interior doors; rigid insulation in roof; oil fired hot water heating system; fan ventilation. GW 1-13

★SCHOOLS— Nyssa, Ore.

Award by School District No. 26-C, Malheur County, Nyssa, for a grade school building and an addition to the high school. Bids were opened January 10. Plans by Graham B. Smith, architect, 1230 Oak St., Eugene. AWD: R. W. Luekenga, Box 943, Nampa, Ida., $409,706, on a negotiated contract with some of the items deleted from the original bidding. Luekenga was low among six other bidders, four of whom submitted totals for the two projects.

DC 1-18. Previous report 1-4

SPEECH, HEARING CENTER— Portland, Ore.

Site at S.W. Mill St. and 14th Ave., acquired by Portland Center for Hearing and Speech, Inc., Dr. David D. DeWeese, chairman, 220 S.W. Alder St., Portland, for construction of a building for the center. Potter & Robinson, architects, 1221 American Bank Bldg., Portland, have been retained. Property is 60'x100'. WB 1-11

PRIMARY SCHOOL— Portland, Ore.

Preliminary plans approved by Portland School District No. 1, L. J. Baker, business manager, 631 N.E. Clackamas St., Portland, for Lent Primary School, S.E. 92nd Ave. and Bush St. Working drawings to be complete by March 19 by Dukehart & Kinne, architects, 2311 N.W. Irving St., Portland.

Building to include seven classrooms, kindergarten, teachers' lounge, workroom, playroom, heating plant and administration offices. Wood frame construction; brick veneer exterior finish; composition shingle roof; aluminum sash; plaster wall finish; birch wainscots and cabinets in classrooms; California rubber tile wainscots in corridors; asphalt tile flooring except vinyl tile in corridors; acoustical tile ceilings. Approximate cost, $268,000.

WB 1-13. Previous report 11-18

★TELEPHONE BUILDING ADDITION— Portland, Ore.

Award by Pacific Telephone and Telegraph Co., G. F. Zolling, chief engineer, room 406 Lincoln Bldg., Portland, for the Kenwood - Lincoln Telephone Exchange Building, N.E. 102nd Ave. and Clackamas St., Portland. Plans by Church, Newberry & Roehr, architects, 619 Builders Exchange Bldg., Portland. Bids were opened January 11. AWD: A. V. Petersen, Box 2368, Portland, $58,746. 2ND LOW: Contractors, Inc., 1101 N.E. 21st Ave., Portland, $59,472. 3RD LOW: Robertson, Hay & Wallace, 1801 S.E. Grand Ave., Portland, $61,640.

WB 1-13. Previous report 1-6

● HIGH SCHOOL— Portland, Ore.

Bids to be opened 8 p.m., February 7, by School District No. 7, Multnomah County, Robert D. Sproul, clerk, Fairview Grade School, 5th and Main St., Fairview, for the Reynolds High School at N.E. Halsey St. and Birdsdale Road, Portland. Plans with Max P. Williams and Robert B. Martin, architects, 1919 S.W. 12th Ave., Portland. Stewart & Richardson, 219 S.W. Stark St., Portland, are associated architects on this project. $100 deposit for two sets of plans. This is a readvertisement with revised plans. Bid bond 5%.

School to accommodate 600 students (other buildings to be added later for 1000 capacity); includes administration, general classroom, science, and gym buildings, all one-story, arranged in quadrangle connected by covered corridors partially enclosed with glass; approximately 85,500 sq. ft. Gym seats 2,400. Except for gym, construction is glued laminated wood beams with steel posts, wood deck and grouted brick masonry walls; gym has concrete lower portion, masonry block upper walls, steel columns, glued laminated beams, purlins and wood deck, and brick veneer exterior. Features of all buildings include built-up roofing on rigid insulating board; interior partitions of wood studs with drywall; some plaster finish in locker rooms of gym; plastic surfacing on corridor walls; acoustical tile ceilings; vinyl-asbestos floor covering; incandescent lighting; ceramic tile in toilet rooms; structural glazed tile in kitchen and locker rooms; combination of hot water and hot air heating with unit ventilators in classrooms; oil-fired boiler; small parking lot for about 100 cars.

WB 1-14. Previous report 1-4

▲CHURCH ADDITION— Portland, Ore.

Jones-Balgemann, 326 N.E. Skidmore St., Portland, was low bidder for an addition to the Hinson Memorial Baptist Church, S.E. 20th Ave. and Salmon St., Portland. No amounts are being announced by the building committee, Dr. Raymond R. Roy, chairman, pending church meeting January 24, when bids will be considered. Bids were opened January 13. Plans by John W. Foster, architect, 410 Postal Bldg., Portland, Harold J. Malagon, mechanical engineer, 400 Concord Bldg., and Matson & Klawa, 1220 S.W. Stark St., all electrical engineers, all Portland. WB 1-18. Previous report 1-6

SCHOOL ADDITION— Portland, Ore.

Working drawings to be completed by April 23 by Wick & Hilgers, architects, 909 Portland Trust Bldg., Portland, for an addition to Chief Joseph Primary School, 2409 N.E. Saratoga Ave., Portland. Bids will be called by Portland School District No. 1, L. J. Baker, business manager, 631 N.E. Clackamas St., Portland.

Addition of seven classrooms; multi-purpose room, consisting of standard elementary gym, auditorium, stage and cafeteria; locker and toilet roms for gym and auditorium; kitchen; teacher's lounge and dining room; storage rooms, sanitary facilities; enlarging existing boiler plant. Two-story classroom unit has reinforced concrete walls and floors, glued laminated roof beams, wood decking and built-up composition roofing. Gym-auditorium wing has concrete exterior walls and floors, concrete block interior partitions, glued laminated beams, wood decking and built-up composition roofing. Features of both additions include aluminum sash; hollow metal frames and doors (exterior); asphalt tile flooring; ceramic tile floors and wainscoting in toilet rooms; rubber tile wainscots and plaster upper walls in corridors; plaster walls above tackboards in classrooms; acoustical tile ceilings in classrooms and auditorium; birch interior trim and cabinet work; stainless steel sinks in kitchen; metal toilet partitions; walk-in cooler; in-wall dining tables and seats; fluorescent and incandescent lighting; oil-fired, hot water heating with unit ventilators in classrooms and forced air in auditorium. Estimated cost, $334,730.
WB 1-18. Previous report 11-18

●BOILER HOUSE— Salem, Ore.

Bids to be opened 2 p. m., January 24, by Oregon State Board of Control, E. J. Ireland, secretary, room 124, Capitol Bldg., Salem, Ore., for construction of a boiler house at the Oregon State Penitentiary, Salem. Plans with Annand, Boone & Lei, architects and engineers, 1530 S.W. Taylor St., Portland. $50 deposit. Certified check or bid bond 10%. Separate general, mechanical and electrical bids.

Boiler house to be located outside prison walls; 50'x120' structure of steel frame construction; concrete slab floor; concrete and concrete block panel walls; steel roof decking; built-up roofing; oil-fired boiler with provision for using hog fuel; three boilers in existing boiler house to be moved to new building; emergency electric generation equipment for use of gas or diesel. Estimated cost, $340,000. WB 1-14

●HOSPITAL ADDITION— Salem, Ore.

Bids to be opened 2 p. m., January 26, by State Board of Control, 124 Capitol Bldg., Salem, for an addition at Oregon State Tuberculosis Hospital, Salem. Plans with Ernest Weber, architect, 144 Pacific Bldg., Salem. $20 deposit. DC 1-18

★CANCO PLANT— Salem, Ore.

Award to Andersen-Westfall, Inc., 2740 N.W. Nicolai St., Portland, by American Can Co., W. O. Eldredge, manager of engineering of Pacific division, for plant at north Salem. Vincent Santelmo, San Francisco office, is field engineer. Plans by Canco's New York engineering department.

Estimated cost $1,000,000, including equipment. To be built on 11½ acre plot; one story; 135,000 sq. ft. wood frame with corrugated transite siding. DC 1-18

●TELEPHONE BUILDING— Seaside, Ore.

Bids to be opened 2 p. m., February 1, by Pacific Telephone & Telegraph Co., G. F. Zolling, chief engineer, room 406, Lincoln Bldg., Portland, for a dial telephone building at Seaside, Ore. Plans with chief engineer. Plans by Church, Newberry & Roehr, 619 Builders Exchange Bldg., Portland.

Dial telephone building, 54'x75', one story, to house switching equipment, located at S. Franklin St. and "A" Ave. Reinforced concrete construction with brick veneer exterior; flat slab roof construction; steel sash; metal doors; asphalt tile flooring; ceramic tile and glazed blocks in toilet rooms; some plaster wall finish; built-up roofing; low-pressure steam heating; ventilating system; blacktop parking area; chain link fence. WB 1-17. Previous report 3-4

SCHOOL ADDITIONS— Springfield, Ore.

Working drawings to start soon by Freeman, Hayslip, Tuft & Hewlett, 2040 S.W. 3rd Ave., Portland, for two additional classrooms to the Springfield Junior High School. Bids will be called by Springfield School District No. 19, Harold Beall, superintendent, Springfield, on completion of plans.
DW 1-13. Previous report 12-21

WASHINGTON

HOSPITAL— Bellevue, Wash.

Architects Naramore, Bain, Brady & Johanson have been retained to draw plans for a new hospital building to be located on 13-acre site at S.E. 16th Ave. and 146th Ave. S.E., Bellevue, south of the new Lake Hills housing development, off the Sunset Highway, by Overlake Hospital Association, R. Eugene Boyd, president of the Board of Directors, 238 Bellevue Shopping Square, Bellevue. GW 1-13

SCHOOL— Bellevue, Wash.

Plans complete; bids to be opened about February 7 by Bellevue School District No. 405, George B. Brain, superintendent, Box 67, Bellevue. Plans by Naramore, Bain, Brady & Johanson, architects, 904 7th Ave., Seattle.

Three one-story separate buildings; 35,490 sq. ft. total space; building No. 1, wood and steel frame structure; building No. 2, steel frame and building No. 3, concrete with concrete roof; all connected by covered walks to each other and buildings one and two are attached to the existing high school; built-up roofs; buildings one and two to have frame partitions; building No. 3, masonry; wood and steel sash; exterior finish to be siding on buildings one and two; plaster interior finish; asphalt tile with ceramic tile flooring and wainscots in toilets; acoustical ceilings; steel exterior doors; wood interior doors; wood cabinets; Plexiglass skylights in library; extension of existing heating system; complete ventilation system. Small basement storage room under the greenhouse in building No. 2.
GW 1-13. Previous report 11-30

FIRE— Bellingham, Wash.

Fire completely destroyed machinery shed, garage and office building of Barney's Fuel Co., James Street and McLeod, Bellingham. Estimated loss between $10,000 and $15,000. Henry R. Burnell, 3035 Cottonwood, owner, plans to rebuild. JD-M 1-17

★WATER TANKS— Bremerton, Wash.

Award to National Appliance and Heating Co., 1226 4th Ave., Seattle, $5,720, by Housing Authority of Bremerton, G. H. Smalley, purchasing agent, Haddon Hall, Westpark, 110 Russell Road, Bremerton, for furnishing 100 gas fired hot water storage heaters.
GW 1-18. Previous report 12-21

★SCHOOL RENOVATIONS— Clarkston, Wash.

Award by (bids received January 9) Clarkston School District No. 250, William J. Harmon, superintendent, Clarkston, for rebuilding the Whittier School cafeteria and kitchen which were recently damaged by fire. Plans by Whitehouse & Price, architects, Hutton Bldg., Spokane. AWARD: Richard K. Wilson, 1433 S. 8th, Clarkston, $23,389. OTHER BIDS: T. R. Pope, Rt. 1, Box 4A, Clarkston, $24,992; Kenaston & Huntley, Box 144, Lewiston, Idaho, $25,294; Sceva Construction Co., N. 2928, Spokane, $29,058; Don St. Marie, Lewiston, Idaho, $31,150. CE-M 1-13. Previous report 1-6

★SCHOOLS— Cowiche, Tieton, Wash.

Award by Highland School District No. 203, Clarence Zimmerman, superintendent, Cowiche, for two elementary school, one at Cowiche and one at Tieton. AWARD: Gilbert Moen, 516 S. 5th, Yakima, $312,368 (Tieton School). AWARD: Hill's Construction Co., 102 S. 5th, Yakima, $298,258 (Cowiche School). MC 1-18. Previous report 12-13

CHURCH ADDITIONS— Dayton, Wash.

Preliminary sketches are nearly complete and will be submitted to Dayton First Methodist Church, Rev. Linden B. Jenkins, S. 110 3rd St., Dayton, for approval. Expansion of existing building to include sanctuary or educational department. Plans by Eddy, Carlson & James, architects, N. 1025 Washington St., Spokane.
CE-M 1-13. Previous report 10-29

SCHOOL ADDITION— East Wenatchee, Wash.

Plans to be complete early February, when bids will be called for construction of additions and remodeling of existing junior high school building for conversion to senior high school, for Eastmont School District No. 206, Douglas County, Robert Dintelman, superintendent, 201 C1 St., East Wenatchee. Plans almost complete by Walter H. Rothe, architect, 807 W. Yakima Ave.

one story, four separate units. UNIT ONE: three-classroom addition. UNIT TWO: agriculture and vocational. UNIT THREE: shop and music. UNIT FOUR: multi-purpose and cafeteria. Poured concrete walls in classrooms, vocational and multi-purpose; concrete block in shop and music unit; concrete slab on grade for floors; steel girders,

THIS PIONEER TRUCK ON THE JOB MEANS QUALITY CONSTRUCTION!



When you see the blue Pioneer truck on the job delivering Tru-Mix Concrete, you know long-lasting, quality construction is under way. When you see Tru-Mix Concrete used for foundation and other concrete work you know an architect, contractor and builder who demand first class materials are on the job. For quality materials . . . call Pioneer.

Pioneer Sand & Gravel Co.

901 Fairview North • 910 West Spokane St. • Seattle • MAin 2900

beams and columns; built-up composition roof; frame partitions; steel windows; interior walls to be painted plaster; interior partitions plaster on wood lath; acoustical ceilings; wood doors; wood and metal cabinets; blackboards; steam heating system.
IG-G 1-17. Previous report 12-28

★LABOR TEMPLE ADDITION— Everett, Wash.

Award to Shaffer Construction Co., Box 804, Everett, $66,651, by Building Trades Association, Stanley Ronkin, secretary, Labor Temple, Everett, for an addition to the Central Labor Temple. Plans by Harold W. Hall, architect, Commerce Bldg., Everett. It was erroneously reported, following the bid opening January 6, that Peter Spadafore, Everett, was the low bidder. Other awards were: MECH, Haskell Plumbing and Heating Co., 3004 Wetmore Ave., Everett, $14,850; ELEC, Rogers Electric Co., 3805 Hoyt, $6,702.
DC 1-13. Previous report 1-7

HEATING SYSTEM— Everett, Wash.

Bids to be called soon for change of heating system in Madison Elementary School addition for Everett School District No. 2, O. N. Johnson, secretary, Auditorium Bldg., Everett. Estimated cost of project $4,000.

Project includes changing heating system from radiant heating to fan-type radiator heating system for five classrooms and two laboratories.
HH-M 1-14

SCHOOL— Everett, Wash.

Plans have been completed by Harold Hall, architect, 405 Commerce Bldg., Everett, for the six-classroom addition to View Ridge School, for Everett School District No. 2, O. N. Johnson, secretary, Auditorium Bldg., Everett.
HH-M 1-14. Previous report 12-9

SCHOOL— Everett, Wash.

Plans have been completed by William Arild Johnson and Associates, 3506 Broadway, Everett, for the six-classroom addition to Lowell School for Everett School District No. 2, O. N. Johnson, secretary, Auditorium Bldg., Everett.
HH-M 1-14. Previous report 12-9

PUD OFFICE BUILDING— Everett, Wash.

Plans expected to be completed about February 1 by William Arild Johnson and Associates, 3506 Broadway, Everett, for new office building for Snohomish County PUD No. 1, Everett.
HH-M 1-17. Preivous report 6-22

MOTEL— Everett, Wash.

A 30-unit motel is contemplated for construction on the N.W. corner of Pacific Ave. and Broadway by Travelodge Corp., Earl Gagasion, vice-president.

Two-story building will cost approximately $85,000.
HH-M 1-17

STORE, LUMBER YARD— Everson, Wash.

Plans have been announced by Columbia Valley Lumber Co., E. E. LeValley, president, Cornwall and Myrtle Streets, Bellingham, for new retail store and lumber yard in Everson. Other improvements in company yards at Anacortes, Oak Harbor, Blaine, Bellingham, and other areas, are under consideration.
JD 1-11

★SWIMMING POOL— Fairchild AFB., Wash.

Award to Ruud Construction Co., 403 Realty Bldg., Spokane, $183,000, by Corps of Engineers, Seattle District, Colonel N. A. Matthias, district engineer, 4735 E. Marginal Way, Seattle, for indoor swimming pool at Fairchild AFB. (ENG-45-108-56-56).
MG 1-13. Previous report 12-10

●MILITARY BUILDING— Fairchild AFB., Wash.

Bids to be opened 2 p. m., P.S.T., February 8, by Corps of Engineers, Seattle District, Colonel N. A. Mathias, district engineer, 4735 E. Marginal Way, Seattle, for military building Tacan, Fairchild AFB. (ENG-45-108-56-105).

Construct one 16'x24' frame building with concrete slab floor; built-up roof. Install approximately 200' of underground electrical system; construct above ground electrical substation and concrete tower foundation; stripping, grading, draining and surfacing access road.
MG 1-14. Previous report 1-11

SCHOOL ADDITIONS— Forks, Wash.

Bond issue for $400,000 approved by voters in Quillayute Valley School District 402, Forks, for addition to existing school facilities. Election was January 10.

Bonds will finance construction and equipping of a $150,000 combination shop, science, home economics and band room building; a $175,000 physical education building; $75,000 for construction and equipping addition to Forks Elementary School; other necessary improvements to grounds. Plans on the buildings are under way by William Arild Johnson & Associates, architects, 3506 Broadway, Everett.
DC 1-14. Previous report 8-18

▲BUILDING ALTERATIONS— Fort Lewis, Wash.

Bids received January 12 by Department of Army, Harry C. Ryan, contracting officer, Fort Lewis, for modification of buildings W-4 to Q.M. (Inv. No. AVI-45-016-56-68). LOW BID: G. Kirkebo & Son, Inc., 1410 Mount View, Tacoma, $64,812. OTHER BIDS: Ragan Co., 9827 47th Ave. S.W., Seattle, $65,000; Bonnell Construction Co., 760½ Commerce, Tacoma, $66,439; Barnhardt - Reid Construction Co., 612 N.E. Santiam Blvd., Mills City, Ore., $66,639; R. G. Foster, 11725 Pacific Highway S., Tacoma, $67,806; G. Goettling, 2921 S. J St., Tacoma, $68,290; R. C. Schmal, 10401 Broowz Lane S.W., Tacoma, $74,440; G. W. Barr, 8824 John Dower Rd., Tacoma, $75,584.
GW 1-13. Previous report 12-16

BOILER— Fort Steilacoom, Wash.

Bid call tentatively set for March 1st for additional work in connection with new boiler at Western State Hospital at Fort Steilacoom. Bids will be called by Department of General Administration, H. D. Eaton, director, Public Lands-Social Security Bldg., Olympia. James B. Notkin, engineer, 233 Eastlake, Seattle, will prepare specifications.

Supplementary work includes: foundation for boiler; piping for connecting boiler fittings, foodwater regulator, soot blowers, blow-off valves, water well, drain valves, injector and similar equipment to boiler; auxiliary equipment such as boiler feed pumps, tanks, chemical treatment equipment; control equipment, including piping and wiring; instrument panel and related instruments; electrical wiring, switches and starters; air compressor and air piping; all breeching on the discharge side of the induced draft fan; all plumbing; removal of two existing boilers; fan foundation; painting.
MG 1-17

■BOILER— Fort Steilacoom, Wash.

Additional planholders announced for the installation of a boiler at Western State Hospital, Fort Steilacoom. Bids to be opened 3 p. m., January 31, by Department of General Administration, H. D. Eaton, director, Public Lands-Social Security Bldg., Olympia. Specifications with James B. Notkin, mechanical engineer, 233 Eastlake, Seattle. $20 deposit.

Additional planholders: W. E. Pearson, 306 Smith Tower; S. M. Gilbert, 7100 E. Marginal Way; Combustion Engineers, Inc., Skinner Bldg., all of Seattle; Furnace Construction Co., Box 634, Redmond.
DE-G 1-18. Previous report 1-11

▲LATRINES— Geiger Field, Wash.

Bids received January 10 by U. S. Air Force, C. S. Phelps, procurement officer, Geiger Field, Spokane, for modification of latrines in building No. 3 (WAF Quarters). (IFB 45-614-56-38). LOW BID: Delong Plumbing and Heating Co., W. 21 Main Ave., $7,215. OTHER BIDS: Anton J. Popp, W. 205 29th Ave., $7,348; Smith & Roberts, Box 6086, $7,564; C. J. McGovney, W. 1330 Courtland Ave., $8,285; Sceva Construction Co., N. 2928 Madelia, $8,772; Hansen & Parr Construction Co., W. 315 Boone, $8,500; Purvis Construction Co., E. 5019 Sprague Ave., $8,389. All of Spokane.
CE-G 1-14. Previous report 1-4

HOUSING UNITS— Geiger AFB., Wash.

The procurement office at Geiger Field, Spokane, is planning to call for bids about March 5 for construction and landscaping on the base of 20 standard family housing units. Construction will be handled directly by the Air Force and plans and specifications have been prepared by Culler, Gale & Martell, architects, 615 Realty Bldg., Spokane. Plans and specifications may be obtained from C. S. Phelps, contracting officer, Geiger Field, Spokane. $25 deposit.

Twenty housing units of two and three bedroms, single and duplex. Each unit to be one story, no basement; 900 to 1,200 sq. ft.; concrete footings, foundation; frame or solid masonry walls; built-up roof; 8" crushed brick and wood panel exterior; frame partitions; drywall interior; asphalt tile flooring; wood flush panel doors; steel sash; 2" batt insulation in walls; 4" insulation in roof; wood cabinets; folding door in kitchen; possibly electric heat; dishwashers, disposals; roads, sidewalks, driveways.
CE 1-17. Previous report 11-19

★ROOF REPAIR— Geiger Field, Wash.

Award to Northwest Roofing Co., E. 7202 Sprague Ave., Spokane, $1,950, by U. S. Air Force, C. S. Phelps, procurement officer, Geiger Field, Spokane, for repair of roofs (IFB 45-614-56-36).
MG 1-17. Previous report 12-16

SHOPPING CENTER— Issaquah, Wash.

Bids to be called about March 10, select list for construction of 20-store shopping center. Plans by Thomas E. Dunstan, architect, 922 Seaboard Bldg., Seattle, for Foothills, Inc., owners, A. J. Peters and Reginald Thomas Peters, Issaquah. Center to be located at the intersection of Wold Ave. and E. Sammamish Road, North of Sunset Highway, just outside of the town of Issaquah. A. E. W. Dodds, construction and structural engineer, 404 Alaska Trade Bldg., 1917 1st Ave., Seattle.

Approximate cost $300,000. Three one-story buildings; center to be Thriftway store connected by covered walkways to two side buildings which will accommodate drug, variety, hardware, and 16 other retail and service shops; 44,000 sq. ft. closed area; five acres of parking space. Solid masonry walls; concrete slab floors; built-up sloping roof; masonry partitions; aluminum sash; wood and masonry exterior finish; asphalt tile flooring; rockwood ceilings; refrigeration; gas fired space heaters; mechanical ventilation system. Two 50' laminated wood pylons mounting Indian totem carvings will form entrance to the center.
GW 1-18

CHURCH— Kennewick, Wash.

Preliminary plans are nearly complete by Richard Eddy, architect, 1309 Old National Bank Bldg., Spokane, for West Highlands Methodist Church, Bruce Lampson, Kennewick. Plans must first be approved by the building committee and then presented to the mission board for availability of loan funds. Building is a one-story masonry structure.
CE-M 1-13. Previous report 8-4

AMMONIA PLANT— Kennewick, Wash.

Options on approximately 180 acres of land in the Finley area east of Kennewick are being picked up by Phillips Pacific Chemical, a subsidiary of Phillips Petroleum Co. The land will be used as site for a proposed ammonia plant, plans on which were announced in July, 1955. Estimated cost of plant is $15,000,000. Planned is the manufacture of chemical fertilizers, mainly anhydrous ammonia.
DC 1-14

▲SCHOOL ADDITION— Kent, Wash.

Bids received January 13 and held under advisement by Kent School District No. 415, W. S. Wynstra, superintendent, 9800 Kent-Black Diamond Road, Kent, for the construction of an addition to the existing elementary school. Plans by Mallis & DeHart, architects, 631 Lyon Bldg., Seattle. LOW BID: Ness Construction Co., 1125 W. 53rd.

$73,940. OTHER BIDS: Riley Pleas, 1418 E. Lynn, $77,000; Veale Construction Co., room 323, 2nd and Cherry Bldg., $77,148; Walters Construction Co., 4732 11th Ave. N.E., $78,610; Wick Construction Co., 720 N. 35th, $79,600; Ballard Contractors, 4601 6th Ave. N.W., $80,297. All of Seattle.
GW 1-17. Previous report 1-7

●SCHOOL ADDITION— LaConner, Wash.

Bids to be opened 8 p.m., January 31, by LaConner School District No. 311, Jack Wittaker, superintendent, 1st St., LaConner, for converting existing gymnasium at LaConner High School into auditorium and cafeteria, and boiler room addition. Plans by Grant, Copeland & Chervenak, architects, 420 E. Howell St., Seattle. $30 deposit. Bid bond 5%.

Two-story; first floor to contain kitchen and lunchroom; second floor to be converted from gymnasium to auditorium; plaster walls; concrete slab floors; plaster partitions; steel windows; plaster wall finish; vinyl floor finish; acoustical tile ceiling in lunchroom, plaster other; kitchen to have masonry walls; steam heating system.
MG 1-13. Previous report 3-19

●DOORS— McChord AFB., Wash.

Bids to be opened 1:30 p.m., January 26, by Purchasing and Contracting Office, Bldg. 24, McChord AFB., for repairs to weatherstripping on doors of hangars 1, 2, 3 and 4 at McChord AFB. (Inv. No. 45-603-56-40). Bid bond 20%. MG 1-18

WARMING SHELTER— Mt. Baker National Forest, Wash.

Bids to be called about April 1 by Henry A. Harrison, supervisor, Mount Baker National Forest, Post Office Bldg., Cornwall and Magnolia, Bellingham, for warming hut at Mt. Baker. Estimated cost $50,00.

One story; 58'x32'; wood frame; concrete foundation; concrete block basement walls; stone fireplace and flues.
JD-M 1-12. Previous report 10-19

SCHOOLS— Olympia, Wash.

Bond issue and special levy to be voted March 13 by North Thurston residents to finance construction of one new school building and expansion of an existing school. North Thurston School District 3, C. E. Callahan, superintendent, N. Slater and Kimey Roads, Olympia, has approved a $115,000 bond issue on the ballot along with a special levy to raise an additional $75,000.

Funds would help pay for a new 16-room elementary school in Mountain View and to expand the existing South Bay School by adding four classrooms and enlarging the present multi-purpose room. Total cost of the two projects is estimated at $500,000. The school district has applied for federal aid in amount of $69,500. Plans are under way by William Arild Johnson & Associates, architects, 3506 Broadway, Everett. DE-1-13

JUNIOR HIGH SCHOOL ADDITION— Opportunity, Wash.

Victor Louis Wulff, architect, W. 1526 Riverside Ave., Spokane, has been retained to draw plans for the addition to existing junior high school in Opportunity, at N. 701 Pines Road, Opportunity. Bids will be called at a later date by the Central Valley School District No. 356, Gilbert C. Mills, superintendent, N. 609 Pines Road, Opportunity.
CE-M 1-17. Previous report 9-30

TOWNSITE— Othello, Wash.

Plans under way for townsite on Royal Slope of Columbia Basin Project, Block 87, about 20 miles east of Othello and 25 miles southwest of Moses Lake. Plans by Vernon A. Mund, 12235 12th N.W., Seattle. DC 1-18

SCHOOL ADDITION— Otis Orchards, Wash.

Working drawings under way by Frederic Almond Long, architect, 500 Columbia Bldg., Spokane, for the construction of six-classroom addition to the primary school, E. Trent Hiway., Otis Orchards, for Otis Orchards School District No. 348, Loren B. Anderson, superintendent, Otis Orchards.
CE-G 1-13. Previous report 9-29

CHURCH— Pasco, Wash.

Preliminary plans under way by Eddy, Carlson & James, architects, N. 1205 Washington St., Spokane, for the construction of a new building for Pasco Christian Church, to be located at Marie and Mead Sts., Pasco, pastor, Paul G. Nance, Pasco; Dr. J. L. Greenwell, building committee chairman, Pasco. One-story structure.
CE-G 1-13

■SCHOOL— Pasco, Wash.

Planholders announced for construction of an elementary school in Pasco. Bids to be opened 8 p.m., January 24, by Pasco School District No. 1, Franklin County, Herman F. Yeager, superintendent, 517 N. 3rd, Pasco. Plans with Victor Louis Wulff, architect, W. 1526 Riverside Ave.; Joseph M. Doyle, electrical engineer, 509 Realty Bldg., all of Spokane. Separate bids for general, mechanical and electrical work. $50 deposit for each set of plans. Certified check, cashier's check or bid bond 5%.

PLANHOLDERS—GEN: Murray Construction Co., 1822 W. 10th Ave., Kennewick; Lewis A. Hopkins, 221 S. 3rd, Pasco; A. Ritchie, Box 516, Walla Walla; Jensen-Rasmussen, Box 89, Sunnyside; E. Chuck Mardis, Title Trust Bldg., Pasco; Dahlgren Construction Co., 1700 21st Ave. S., Seattle; Cherf Bros., Inc., and Sandkay Contractors, Inc., Box 938, Ephrata.
CE-G 1-13. Previous report 1-4

▲SCHOOL— Raymond, Wash.

Complete list of bids received January 12 by School District No. 116, Harold G. Best, superintendent, 9th and Commercial Sts., Raymond, for addition to Raymond High School. GEN.—LOW BID: K. T. Henderson, 1362 Colorado, Longview, $221,728. OTHER BIDS: Grays Harbor Construction Co., 412 S. Park St., Aberdeen, $253,581; Sanford Wright, 302 Clark Bldg., Everett, $266,724;

Not
ONE
but
THREE
Hard Hitting
Advertising Media

Blanket the
CONSTRUCTION MARKET
Washington - Oregon - Idaho
Montana - Utah - Wyoming
and Alaska

Advertise for bids

CONSTRUCTION
NEWS BULLETIN

PACIFIC BUILDER
& ENGINEER

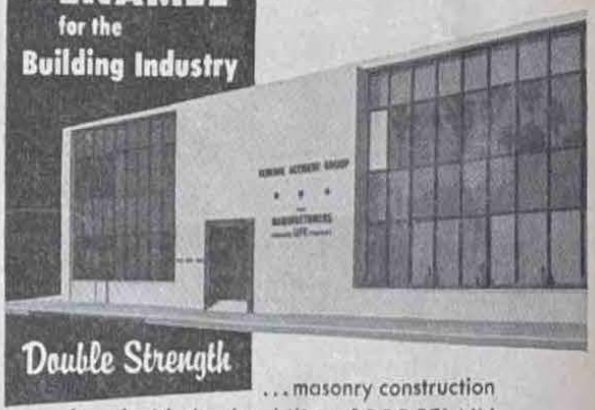
PACIFIC ARCHITECT
& BUILDER

Your message
REACHES
Responsible
contractors,
manufacturers
& dealers

2418 3rd Ave. Seattle 1, Washington

THE MANUFACTURERS LIFE INSURANCE COMPANY
Los Angeles, California
Jack H. MacDonald & Cejay Parsons, Associated Architects & Engineers
Robson-Berns Construction Company, Contractors

Porcelain
ENAMEL
for the
Building Industry



Double Strength

...masonry construction faced with the durability of PORCELAIN ENAMEL. Protection from the elements—minimum maintenance—versatility in design—with lasting beauty, are strong reasons for the increasing use of PORCELAIN ENAMEL in the building of more attractive structures.

For detailed information and color chart, write...

ARCHITECTURAL DIVISION
PORCELAIN ENAMEL PUBLICITY BUREAU
P.O. BOX 186 • EAST PASADENA STA. • PASADENA 8, CALIF.
1444 WEBSTER STREET • ROOM 4 • OAKLAND 12, CALIF.

Thompson & Georgeson, 1924 S.E. 6th, Portland, $273,461. MECH.—ONLY BIDDER: Lent's, Inc., 279 4th St., Bremerton, $79,983. ELEC.—LOW BID: Pioneer Electric, Box 388, Longview, $25,996. OTHER BIDS: Tice Electric, 2139 S.E. Belmont, Portland, $26,670; Lloyd Larsen, 2306 4th, Seattle, $27,713; Mac's Electric, 1810 Hewitt, Everett, $27,990; Olympia Electric, 504 E. 5th, Olympia, $29,000; Ford Electric Co., 510 Commercial, Raymond, $33,573. Contracts will be awarded on the basis of staying within fund available by eliminating one alternate classroom.
HH-M 1-17. Previous report 1-13

TRANSIT SHED— Seattle, Wash.

Plans nearly complete; bids to be called soon by Port of Seattle, M. J. Weber, secretary, 406 Bell St. Terminal, Pier 66, Seattle, for the construction of a transit shed at East Waterway Terminal Island, Pier 20, Seattle.

One-story frame structure, 190'x700' heavy timber frame walls; tandem span trusses, shed development.
GW 1-13. Previous report 11-30

MEDICAL CLINIC— Seattle, Wash.

Working drawings are under way for a medical clinic at Blakley and E. 51st St., Seattle, by Paul Hayden Kirk, architect, 615 Lakeview Blvd., Seattle.

One story; 132'x37½'; frame walls; concrete slab floors; timber and solid rock walls; flat built-up roof with chips; frame plaster partitions; wood windows; plasterboard and wood paneling; plaster interior partitions; acoustical tile ceilings; birch doors; each room is sound proof; hot air heating system, oil fired; ventilation system.
MG 1-13

REMODEL SCHOOL— Seattle, Wash.

Preliminary plans are under way for remodeling George Washington Junior High School, 18th South and Main St., Seattle, by Carlson, Eley, Greystad, architects, 432 Eastlake, Seattle. Plans are expected to be completed by May or June for School District No. 1, Frank M. Brock, secretary, 815 4th Ave. North, Seattle.
MG 1-13

● PACKAGING CENTER AND WAREHOUSE, ELECTRICAL WORK— Seattle, Wash.

Bids to be opened 2 p. m., January 24, by Sick's Brewing and Malting Co., Emil G. Sick, president, 3100 Airport Way, Seattle, for the electrical work. General and mechanical bids were received January 12. Plans with Wohleb and Wohleb, architects, 715 Washington, Olympia.
GW 1-14

● SPRINKLING SYSTEM— Seattle, Wash.

Bids to be opened 2 p.m., January 24, by Sick's Brewing and Malting Co., 3100 Airport Way, Seattle, for sprinkling system for new packaging center and warehouse. Plans with Wohleb & Wohleb, architects, 715 Washington, Olympia.
GW 1-14

★ PACKAGING CENTER AND WAREHOUSE— Seattle, Wash.

Award by (bids received January 12 and held under advisement) Sick's Brewing and Malting Co., Emil G. Sick, president, 3100 Airport Way, Seattle, for a packaging center and warehouse building. Plans by Wohleb & Wohleb, architects, 715 Washington St., Olympia. AWD: John H. Sellen Construction Co., 228 9th Ave. N., Seattle, $458,633. OTHER BIDS: J. C. Boespflug Construction Co., 1912 4th Ave. S., Seattle, $462,050; Cawdrey & Vemo, 3601 Fremont, Seattle, $473,932; Dahlgren Construction Co., 1700 21st Ave. S., $479,796; Howard S. Wright Co., 414 Pontius, $510,165; Rumsey and Co., 3810 Airport Way, $550,197; Lease & Co., Inc., 1501 N. 35th, $577,690. MECH—AWD: University Plumbing and Heating Co., 3941 University Way, $121,350. OTHER BIDS: L. G. Massart, 4501 9th Ave. N.W., $127,179; West Coast Heating and Plumbing Co., 657 E. Northlake, $139,406; W. E. Beggs, Inc., 234 9th Ave. N., $149,726; Wenzler & Ward Plumbing and Heating Co., 2109 Western Ave., $153,007. All of Seattle.
GC 1-18. Previous report 1-14

▲ ROOFING— Sedro Wooley, Wash.

Bids received January 12 by State Division of Purchasing, H. E. Pike, supervisor, Box 1164, Olympia, for re-roofing laundry building at Northern State Hospital in Sedro Woolley. LOW BID: A. B. C. Roofing and Siding, Inc., 3123 Eastlake, Seattle, $4,300. ONLY OTHER BID: Fisher Bros. Roofing Co., 307 S. 2nd, Mount Vernon, $6,200.
DE-G 1-18. Previous report 12-31

▲ DOCTORS' BUILDING— Spokane, Wash.

Bids received at a private opening on January 10 by Whitehouse, Price, Deeble & DeNeff, architects, Hutton Bldg., Spokane, for owners of the proposed Doctors' Building, are being held for further consideration. Award will not be made for another 30 days.
CE 1-14. Previous report 1-7

SAFEWAY STORE— Spokane, Wash.

Bids are being studied by Bramwell Construction Co., a division of Safeway Stores, Inc., H. H. McArthur, real estate manager, Realty Bldg., Spokane, for construction of a new store at 4th Ave. and Maple St. in Spokane. Bids were opened November 30. Owners have asked engineers to report on changes necessary in plans if gas were used for heating. Award will be held pending information reports. Plans by Kenneth Storment, 709 Hutton Bldg., Spokane.
CE 1-14. Previous report 11-25

CHURCH— Spokane, Wash.

Fund raising campaign under way for the construction of an education building for Westminster Congregational Church, to be located at 4th Ave. and Bernard St., Spokane, pastor, Dr. Clement F. Hahn, S. 1904 Hatch St.; Wallace D. Baker, treasurer of building fund. Estimated cost $350,000. Project will also include the demolition of an existing building at W. 311 4th Ave.
CE-G 1-14

CHURCH ADDITIONS— Spokane, Wash.

Preliminary plans under way by Eddy, Carson & James, architects, N. 1205 Washington St., Spokane, for additions to Hays Park Methodist Church, E. 1725 Bridgeport Ave., Spokane. Everett L. Groves, Pastor, E. 1708 Bridgeport Ave.

Expansion of existing building to include new sanctuary and education department.
CE-G 1-14. Previous report 10-29

CHURCH ADDITION— Spokane, Wash.

Fund raising campaign under way by Central Methodist Church, Ethan R. Weld, chairman of the committee, E. 1823 18th Ave., Spokane, for the construction of a four-story addition, east of the existing church, pastor, Clyde W. Beecher, S. 1831 Rockwood Blvd., Spokane. Architect to be retained soon.
CE-G 1-14

TELEPHONE BUILDING— Spokane, Wash.

Subcontracts awarded by general contractor, Sceva Construction Co., N. 2928 Madelia, Spokane, for the construction of a new dial equipment building at E. 1011 Euclid Ave., Spokane, for the Pacific Telephone & Telegraph Co., part of a $500,000 program for the state of Washington. PLBG., HTG., AID CONDITIONING: James Smyth Plumbing and Heating Co., N. 216 Division St. ELEC.: Power City Electric Co., N 920 Howard St. EXCAV.: Stagman & Roberts, E. 10422 Broadway Ave., Opportunity. REINF. STL.: Steelfab, Inc., E. 4815 Commerce Ave. MILLWK.: Spokane Sash and Door Co., N. 825 Superior St. GLASS: W. P. Fuller & Co., E. 102 Boone Ave. MARBLE AND TILE: George B. Deeble Tile Co., W. 711 Providence Ave. SHEET MTL. AND RFG.: Ellis Roofing Co., 1711½ E. Trent Ave. PTG.: H. Selvig Painting Co., W. 3833 Princeton Ave. LINOL., ASPH. TILE: Patrick Tile Co., S. 125 Stevens St.. All Spokane unless otherwise stated.
CE-G 1-11. Previous report 12-29

● CHURCH— Spokane, Wash.

Bids to received until midnight, January 24, by Arnotte Woodruff, architect, S. 710 Jefferson, Spokane, for the Loma Vista Baptist Church in Spokane.
DC 1-13

CHURCH, REMODEL AND ADDITION— Spokane, Wash.

Plans nearly complete; bids to be called about February 15 by Whitworth Community Presbyterian Church, pastor, Vincent A. Carr, Country Homes Estates, Spokane. Plans by Eddy, Carlson & James, architects, N. 1205 Washington St., Spokane; George C. Murray, mechanical engineer, S. 2609 Grand Blvd., Spokane. Estimated cost $135,000.

Building to consist of a new unit and remodeling of existing space. New structure to be 100'x140'; one story; 14,000 sq. ft.; reinforced concrete footings and foundations; concrete block walls with brick exterior finish; concrete slab floors; glued laminated arches with built-up roof; frame partitions; aluminum windows; aluminum foil insulation in both walls and ceilings; interior finish to be exposed brick; drywall interior partitions with some plywood; asphalt tile flooring; acoustical tile ceilings; holo core exterior doors; mahogany interior doors; folding doors; glass, some cathedral and some clear; heating panels in floor slabs.
CE-G 1-13

NURSES HOME— Spokane, Wash.

A nurses home is contemplated for the Deaconess Hospital, W. 733 4th Ave., Spokane. Noel E. Thompson, architect, 1126 Paulsen Bldg., Spokane, has been retained to draw the plans. This addition would be adjacent to the new wing of the hospital on 5th Ave.
CE-M 1-17

CLINIC— Spokane, Wash.

Preliminary plans are nearly completed for the new clinic at 8th and Bernard Sts., Spokane. Plans by Ellerbe & Co., St. Paul, Minn., and Victor Louis Wulff, architect, W. 1526 Riverside, Spokane, for the Rockwood Clinic, W. 66 8th Ave., Spokane.
CE-M 1-17. Previous report 11-10

REMODEL OFFICES— Spokane, Wash.

Working drawings are under way by Noel E. Thompson, architect, 1126 Paulsen Bldg., Spokane, for General Telephone of the Northwest, Roy A. Worley, chief engineer, S. 164 Howard St., Spokane, for remodeling offices, install new mechanical equipment and complete ventilation system. Also install a new front and redecorate the interior of the offices at General Telephone of the Northwest.
CE-M 1-18

SUPERMARKET— Spokane, Wash.

Construction to start possibly in the spring for the first unit of proposed low cost grocery in Spokane, according to Roy L. Stone, owner, E. 7 Baldwin Ave., Spokane. As soon as contracts have been awarded for store fixtures the architects and engineers will go ahead with the working drawings. Henry C. Bertelsen, architects, 610 Empire State Bldg., Spokane, has been retained to draw the plans, W. L. Maloney is structural engineer, and J. Jack Reeves, 324 Symons Bldg., Spokane, is the mechanical engineer.
CE-M 1-18. Previous report 11-2

■ COMMERCIAL BUILDING— Spokane, Wash.

Planholders announced for additions and alterations to the Continental Baking Co. building at N. 803 Post St., Spokane. Bids to be opened 2 p.m., February 1, by George M. Rasque & Sons, architects, 303 Washington Trust Bldg., Spokane. Select list of bidders. $25 deposit. Bid bond 5% or certified cashier's check.

PLANHOLDERS: Henry George & Sons, 417 Hutton Bldg., Spokane; Gus J. Bouten Construction Co., N. 627 Napa St., Spokane; H. Halvorson, Inc., E. 5218 Sharp, Spokane; Hazen and Clark, Inc., W. 108 Boone Ave., Spokane.
CE-M 1-18. Previous report 1-12

■ CHURCH— Spokane, Wash.

Planholders announced for first unit of the Loma Vista Baptist Church to be built in the 2800 block W. Francis Ave., north of the city limits, Spokane. Bids to be postmarked midnight January 24 and opened 7:30 p.m., January 30, by Loma Vista Baptist Church, Rev. Robert Sanders, at the YMCA, W. 827 First Ave., Spokane. Plans

with Arnotte Woodroofe, architect, S. 710 Jefferson St., Spokane.

PLANHOLDERS: Purvis Construction Co., E. 5019 Sprague Ave., Spokane; AAA Construction Co., N. 739 Helena St., Spokane; Smith and Roberts, Box 6086, Spokane; Hazen and Clark, Inc., W. 108 Boone Ave., Spokane; Warner and Brown, Inc., N. 2904 Madelia St., Spokane.

First unit of project will include an educational unit and sanctuary. Two-story sections on either end of building with one-story auditorium between; full basement; 3,200 sq. ft.; reinforced concrete footings and foundation; titan face brick veneer on north and side and tower, cedar wood siding on east and west of building; 2", 2x6 t&g decking, composition with rolled roof; frame partitions; wood stairways in towers; steel casings, some colored glass; paint interior wall finish, some wrought iron posts and paint railings; drywall partitions; shiplap floor finish with ¾ plywood over asphalt tile in basement; sheet rock in classrooms, exposed beams and varnished decking in auditorium; pine casing with fir doors; wood cabinets in kitchen; two-compartment sheet steel sink; steam table; built-in drinking fountains; warm air oil fired with conversion to gas when available. CE-M 1-18. Previous report 1-13

SWIMMING POOL— Tacoma, Wash.

Bids will be called about February 16 by College of Puget Sound, Dr. R. Franklin Thompson, president, Administration Bldg., campus, Tacoma, for the Hugh C. Wallace Memorial Swimming Pool at the college. Plans by Silas E. Nelson, 407 S. Sheridan, Tacoma.

Pool will be housed in 72'x143' building which will be built adjoining the women's gymnasium. The pool will have seven lanes and will be 42'x81'. DC 1-14

■ COUNTY-CITY BUILDING— Tacoma, Wash.

Planholders announced for the construction of a new County-City building. Bids to be opened 10 a. m., February 14, by Pierce County Commissioners, Jack Sonntag, clerk, room 206, Courthouse, Tacoma. Plans with Gordon A. Lumm, architect, 321 S. 11th Ave., Tacoma. Deposit $150. Certified check, cashier's check or bid bond 5%.

Planholders—GEN.: Henrik Valle Co., Inc., 413 3rd Ave. W.; Sound Construction and Engineering Co., 1300 Aloha; Diversified Builders, Inc., 250 Securities Bldg.; J. C. Boespflug Construction Co., 1912 4th Ave. S., all of Seattle; Phil McInnis and Henry George and Sons, Hutton Bldg., Spokane; Roy T. Early Co., 321 Middle Waterway, Tacoma; Macdonald Building Co., 1517 S. Tacoma Way, Tacoma; Donald M. Drake Co., 1600 N.W. Savier, Portland, Ore.; Madsen Construction Co., 2110 Nicolett Ave., Minneapolis, Minn., (Hansen & Rowland, Inc., Puget Sound Bank Bldg., Tacoma); L. E. Dixson Co., 409 S. California Ave., San Gabriel, Calif.; C. E. Youngdahl & Co., 715 S.W. Morrison, Portland, Ore. MECH.: Berg Griggs Co., 709 Pacific Ave.; Howard Chapman Plumbing and Heating Co., 103 S. 29th; Tide Bay Co., 1512 Center, all of Tacoma; Lord Bros., Contractors, 9233 N. Calvert Ave., Portland, Ore.; Electric Construction Co., 1650 Center, Tacoma; Watcom Electric Co., 4715 S.W. Macadam, Portland, Ore.; Northwest Engineering Electric Co., 616 6th Ave. S., Seattle; Carl T. Madsen, Inc., Box 1545, Tacoma; Tide Bay Co., 1512 Center, Tacoma; Agutter Electric Co., 5500 14th Ave. N.W., Seattle. GW 1-18. Previous report 1-4

● SCHOOL— Tacoma, Wash.

Bids to be opened 2 p. m., January 31, in the office of Silas E. Nelson, architect, 2715 Center, Tacoma, for elementary school in Riverside School District No. 96, Pierce County, Frank Deck, district clerk, Rt. 4, Box 394A, Puyallup. Plans with architect. $25 deposit. Certified check, cashier's check or bid bond 5%. Separate bids on general, mechanical and electrical work.

Estimated cost $175,000. One story; L-shaped; 171' long; classroom section 68' wide; mult-purpose unit 104' wide; masonry walls; brick veneer on concrete base; steel beams; Stimson board roof sheathing, with metal roof deck over steel beams on multi-purpose room; steel sash; interior finish of pumice block; glazed block wainscot 6' high in corridors and exposed block and corkboard in classrooms; acoustical ceilings; asphalt tile floor finish; heating system by convectors and unit ventilators with hot water boiler. Estimated cost $175,000. GC 1-18. Previous report 9-23

● HEATING SYSTEM— Tacoma, Wash.

Bids to be opened 8 p. m., February 7, by Clover Creek School District No. 4, Route 7, Tacoma, for conversion of heating system in the school. Bids will be opened in the principal's office at the Clover Creek School Building. Plans and specifications at the principal's office.

Conversion of existing diesel fired low pressure steam boiler to No. 5 oil; addition of finned pipe radiation in lunch room and classroom spaces. DC 1-18

■ SCHOOL ADDITION— Tenino, Wash.

Additional planholders announced for the construction of an addition to the elementary school at Tenino. Bids to be opened 8 p. m., January 31, by Tenino School District No. 402, Thurston County, Lloyd E. McElvain, superintendent, Tenino. Plans with William Arild Johnson & Associates, architects, 3506 Broadway Ave., Everett. $20 deposit. Certified check, cashier's check or bid bond 5%.

ADDITIONAL PLANHOLDERS — GEN: Andrew Construction Co., 10217 Lexington, Tacoma. MECH: Cascade Plumbing and Heating, 402 W. 5th, Olympia. ELEC: E & L Electric Co., 320 N. Tower, Centralia; Olympia Electric Co., 504 E. 5th, Olympia. HH-M 1-14. Previous report 1-7

● SWIMMING POOL— Toppenish, Wash.

Bids to be opened 8 p. m., February 7, by City Council, Aleta Bennett, city clerk, City Hall, Yakima, for the construction of a swimming pool and bathhouse for city. Plans with Gray & Osborne, consulting engineers, 228 S. 2nd, Yakima. $25 deposit. Estimated cost $145,000. Community swimming pool and bathhouse to be built on N. A St., between Lincoln and Asotin Avenues. Pool to be 60'x120' and equipped with circulating pumps, filters and chlorination unit. IG-G 1-14. Previous report 12-24

RESTAURANT ADDITION— Yakima, Wash.

Working drawings are nearly complete by for Skyline Cafe, Washington and 16th Ave., Yakima. Bids to be called by Skyline Cafe Co., Yue Eng, manager, Washington and 16th Ave., Yakima.

Addition to existing building, includes dining room, entrance way, complete new exterior finish; frame walls; concrete slab floors; composition flat roof; masonry and frame partitions; steel windows; mahogany and glass exterior finish; interior finish wood; plaster interior partitions, some masonry and wood lath; vinyl tile flooring; exterior and interior doors wood; warm forced air connected to existing heating system. MG 1-18. Previous report 11-4

IDAHO

American Falls, Idaho

Bids received January 12 by Bureau of Reclamation, Boyd H. Walter, chief Michaud Flats Branch, American Falls, for construction of headquarters buildings in American Falls, Power County, Michaud Flats Project (Spec. No. 100C-239). LOW BID: Rex T. Coffin, 306 Hyde St., Pocatello, $19,499. 2ND LOW: Kenneth H. Latham, 475 Linden Drive, Idaho Falls, $21,272. 3RD LOW: Leland Saxton, 522 W. 31st, Burley, $22,270. There were 11 bids. Engineer's estimate $19,000. GW 1-17. Previous report 12-14

CITY HALL ADDITION— Emmett, Idaho

Bids may be called early in February or construction may be by city crews, on an addition to existing city hall, according to Lee Bolt, mayor, city hall, Emmett.

Estimated cost $11,500 to $12,000. One story, 32'x55'; pumice blocks; concrete floors; trussed rafter roof; fiber board ceilings. DC 1-18

TELEMETERING STATION BUILDING— Idaho Falls, Idaho

Bids to be called about January 23 by Atomic Energy Commission, H. Noble, Director, contracts and administration division, Idaho Operations Office, 550 2nd St. (Box 1221), Idaho Falls, for construction of a building for a telemetering station, at the National Reactor Testing Station in Idaho (Inv. No. AT(10-1)-808). Bid bond 10%. Estimated cost $5,000.

Nnecessary grading to top of East Butte to provide a site for telemetering equipment building; construct and erect a prefabricated frame building 10' 8"x8'8", to be faced with plywood and corrugated steel siding on exterior and cement-asbestos board on interior; extend electrical service from the existing radio relay building and install all necessary electrical systems in the building; provide a complete electrical grounding system and furnish and install a 70' wood pole with crossarm and air terminal. GW 1-14

■ MILITARY BUILDINGS— Mountain Home AFB., Idaho

Planholders announced for squadron operations buildings, fire station, roadways and utilities at Mountain Home AFB. (ENG-45-164-56-21). Bids to be opened 2 p. m., January 24, by Corps of Engineers, Walla Walla District, Colonel Myron E. Page, district engineer, Bldg. 602, City-County Airport, Walla Walla. $100 deposit. Completion time, 250 calendar days.

PLANHOLDERS: E. W. Little Co., 315 S. 11th, Boise; W. L. Reid Co., 3178 S.W. 87th Ave., Portland, Ore.; Vermiculite Contractors, Inc., 2107 N. 34th, Seattle, Wash.; Bryan W. Burtch Co., 2915 1st South, Seattle, Wash.; A. H. Barbour & Sons, Inc., 2828 N.E. Alberta, Portland, Ore.; Max A. Boesiger, Inc., 224 N. 2nd St., Mountain Home; Century Metal Works, 7126 W. Marginal Way, Seattle, Wash.; Gunderson Bros. Engineering Corp., 4700 N.W. Front Ave., Portland, Ore.; Build-



Write for catalog to
ECONOMY FORMS CORP.
HOME OFFICE • DES MOINES, IOWA
DISTRICT SALES OFFICES: St. Louis, Mo. • Kansas City, Mo. • Lincoln, Neb. • Minneapolis, Minn. • Ft. Wayne, Ind. • Milwaukee, Wisc. • Cincinnati, Ohio • Cleveland, Ohio • Metuchen, N. J. • Rochester, N. Y. • Springfield, Mass. • Washington, D. C. • Decatur, Ga. • Dallas, Texas • Los Angeles, Calif. • Oakland, Calif. • Denver, Colo.

ers Headquarters, Inc., 6001 Fairview, Boise; J. H. Wise & Son, Box 267, Boise; Thorgaard Plumbing and Heating Co., Inc., 1109 N. 36th St., Seattle; H. Halvorson, Inc., Box 6, Yardley, Wash.; Grinnell Co. of The Pacific, 650 S. 1st Ave., Pocatello; H. D. Fowler Co., Inc., 901 Lane St., Seattle, Wash.; Intermountain Co., Box 1652, Boise; Donald M. Drake Co., 1660 N.W. Savier St., Portland, Ore.; Larsen & Co., 365 W. 4th S. St., Salt Lake City, Utah; Intermountain Contractor, Box 1829, Salt Lake City, Utah; Babbitt Construction Co., 1620 Taggart St., Boise; Wayne Construction Co., 3810 Stone Way, Seattle, Wash.; Detweiler Bros., Inc., Box 870, Twin Falls; C. W. Watkins & Son, Box 1786, Boise. MG 1-13. Previous report 12-23

■ **MILITARY BUILDINGS—**
Mountain Home AFB., Idaho

Planholders announced for constructing an ammunition storage building, segregated storage magazine, explosive and ATO storage igloo, roadways and electric services at Mountain Home AFB., near Great Falls (ENG-45-164-56-23). Bids to be opened 2 p.m., January 26, by Corps of Engineers, Walla Walla District, Colonel Myron E. Page, Jr., district engineer, Bldg. 602, City-County Airport, Walla Walla.

PLANHOLDERS: Herring - Hall - Marvin Co., Hamilton, Ohio; Walter W. Sprague, Box 117, Lynnwood, Wash.; C. W. Watkins & Son, Box 1786, Boise; William L. Henson & Son Co., Inc., 127 N. 35th St., Seattle, Wash.; Bernth & Co., Inc., 3493 Klickitat Ave., Seattle, Wash.; W. H. Reller Co., Box 2149, Boise; J. G. Watts Construction Co., 212 Park Bldg., Portland, Ore.; Lord Electric Co., Inc., 535 S.W. Clay St., Portland; Graybar Electric Co., 1325 Idaho St., Boise; E. W. Little Co., 315 S. 11th, Boise; Babbitt Construction Co., 1620 Taggart St., Boise; J. H. Wise & Son, Inc., Box 267, Boise; Wayne Construction Co., 3810 Stone Way, Seattle; Crouse-Hinds, 212 N.W. 14th, Portland; Intermountain Co., Box 1652, Boise.
MG 1-18. Previous report 12-30

●■ **HIGH SCHOOL— Post Falls, Idaho**

Bids to be opened February 8 by Post Falls School District, John O. Johnson, superintendent, Post Falls, for high school. Plans with Ralph J. Bishop, architect, W. 1526 Riverside Ave., Spokane, and George Ritter, associate architect, 301 Hyde Bldg., Spokane. $70 deposit which includes general, mechanical and electrical. Bid bond 5%.

PLANHOLDERS: Sceva Construction Co., Inc., N. 2928 Madelia, Spokane; AAA Construction Co., N. 739 Helena St., Spokane; H. Halvorsen, Inc., E. 5218 Sharp Ave., Spokane; Hazen & Clark, Inc., W. 108 Boone Ave., Spokane; Busboom and Rauh, N. 601 Cedar St., Spokane; Walter M. Varnum, Box 983, Coeur d'Alene, Idaho; Frank Cherry, Post Falls, Idaho; Bernt Stolaas, Layden Lake, Idaho. One story; 254'x60'; partial basement; 19,800 sq. ft.; reinforced concrete footings and foundation; brick veneer walls; concrete slab floors; glued laminated beams, built-up roof; frame partitions; concrete stairways; steel windows; frame walls; asphalt tile floor finish; mahogany exterior doors and holo core interior doors; wood cabinets; chalkboards; built-up metal clad fire doors; forced hot air, coal fired.
CE-M 1-18

●**SCHOOL ADDITION— Twin Falls, Idaho**

Bids to be opened 8 p.m., February 9, by Independent School District No. 411, Ernest Ragland, superintendent, 511 Shoshone N., Twin Falls, for the construction of an addition to the high school. Plans with Wayland, Woodmansee, Cline & Gerber, Idaho Bldg., Boise. $30 deposit. Bid bond 5%.

Irregular shape building; 70'x250'; no basement; concrete footings and foundation; brick cavity walls; concrete slab floors; timber and steel beams; beams and structural bents roof; frame partitions; steel windows; brick exterior wall finish, brick and gypsum board interior wall finish; wood exterior and interior trim; drywall partitions; concrete, ceramic and mosaic tile floor finish; acoustical ceilings; hollow metal doors, wood interior doors; blackboards; board and blanket vermiculite insulation in walls and roof; unit ventilators and convectors steam heating system, coal fired.
FJ-M 1-14. Previous report 12-21

★**CHURCH— Twin Falls, Idaho**

Award to Chris Jensen, 220 Taylor, Twin Falls, no amount released, by First Methodist Church, Twin Falls, for an addition to the Methodist Church, in the 300 block of Shoshone N. Plans by Harold Gerber, architect, 230 Shoshone N., Twin Falls.
FJ-M 1-18. Previous report 12-3

MONTANA

●**COURTHOUSE— Billings, Mont.**

Bids to be opened 10:30 a.m., February 21, by Yellowstone County Commissioners, Courthouse, Billings, for construction of a new courthouse in Billings. Plans will be available after January 23 from Chandler C. Cohagen, architect, Heddon Bldg., Billings.

Structure to be built at 27th St. and 3rd Ave. N. Eight story and basement; 100'x 140'; concrete slab floors; structural steel; holo tile and granite stone exterior finish; marble in lobby; acoustical ceiling; metal door frame; aluminum sash; hot water, gas fired heating system; filter and cooled air condition; four passenger elevators; fire doors; terrazzo, rubber and asphalt floor finish; fiberglas insulation; iron stairs; intercom phones; fluorescent and incandescent lighting; skylights; vault doors; fan ventilation, weatherstripping; wiring for sound.
EE 1-14. Previous report 12-10-1954

●**MILITARY BUILDINGS—**
Glasgow AFB, Mont.

Bids to be opened 2 p.m., February 15 by Corps of Engineers, Walla Walla District, Colonel Myron E. Page, district engineer, Bldg. 602, City-County Airport, Walla Walla, for constructing 26 buildings, two igloos, utilities, development of site and other facilities at Glasgow AFB, near Glasgow, Valley County, Mont. (ENG-45-164-56-7) $100 deposit. Completion time 270 calendar days.
MG 1-14. Previous report 1-5

▲**HEATING SYSTEM—**
Glasgow AFB., Mont.

Complete list of bids received by Corps of Engineers, Walla Walla District, Colonel Myron E. Page, district engineer, Bldg. 602, City-County Airport, Walla Walla, for high temperature heating plant and heating distribution system at Glasgow AFB. (ENG-45-164-56-140). LOW BID: Detweilers, Inc., 726 Shoshone St. W., Twin Falls, $1,254,735 (sched. A, incl. item No. 1); no bid (sched. A, incl. alt. item 1A); $953 (sched. B); $1,255,689 (sched. A and B, incl. item No. 1); no bid (sched. A and B, incl. alt, item 1A). OTHER BIDS: Peter Kiewit Sons' Co., 1300 Aloha St., Seattle, $1,330,547, $1,278,295, $39,000, $1,369,547, $1,317,295; Jacobsen Construction Co., 421 W. 13th S. St., Salt Lake City, no bid, $1,321,500, $57,000, no bid, $1,-378,500; Charles Harris Co., 220 Ohio St., St. Paul, Minn., $1,964,251, $2,024,251, $41,100, $2,005,351, $2,065,351; Frederick Raff Co., Inc., 271 Sheldon St., Hartford Conn., no bid, $1,387,423, $47,250, no bid, $1,434,673; Joseph A. Bass Co., 332 Sexton Bldg., Minneapolis, Minn., $1,586,415, $1,551,717, $45,000, $1,631,-415, $1,596,717; L. G. Massart Plumbing and Heating Co., 4501 9th N.W., Seattle, no bid, $1,439,447, $38,000, no bid, $1,477,447; S. M. Gilbert & Co., and Harold Kaeser Co., (joint venture), 7100 E. Marginal Way, Seattle, $1,402,872, $1,369,922, $43,899, $1,446,772, $1,-413,822; Richard Asbestos Co., Inc., and Courter & Co., (joint venture), $1,804,685, $1,813,-003, $53,286, $1,857,971, $1,866,289; Grudem Bros. Co., 635 N. Prior Ave., St. Paul, Minn., $1,404,381, $1,389,381, $74,430, $1,478,811, $1,-463,811; H. Halvorson, Inc., and Carl M. Halvorson, Inc., (joint venture), E. 5218 Sharp, Spokane, $1,603,015, $1,606,538, $49,500, $1,652,-515, $1,656,038; Thorgaard Plumbing and Heating Co., Inc., and Wyatt & Kipper, Inc., (joint venture), 1109 N. 36th St., Seattle, $1,509,361, $1,517,861, $49,431, $1,558,792, $1,-567,292. Government estimates, $1,342,373, $1,316,373, $48,150, $1,390,523, $1,364,523.
MG 1-14. Previous report 1-12

■ **COMMUNICATIONS BUILDING—**
Great Falls, Mont.

Planholders announced for the construction of a communications building at Malmstrom Air Force Base, near Great Falls, Cascade County, Mont. (ENG-45-164-56-22). Bids to be opened 2 p.m., January 25, by Corps of Engineers, Walla Walla District, Myron E. Page, Jr., district engineer, Bldg. 602, City-County Airport, Walla Walla. Bid bond 20%.

Planholders: Sletten Construction Co., Box 1188, Great Falls; Leigland Co., Box 1862, Great Falls; Nilson-Smith Construction Co., Box 1147, Great Falls; Jacobsen Construction Co., Froid; George Chicha Co., E. 2917 Sharp, Spokane; H. S. Leigland & Sons, 1501 N. 35th St., Seattle; Wayne Construction Co., 3810 Stone Way, Seattle.
GW 1-14. Previous report 12-2

■ **EXCHANGE SALES STORE—**
Great Falls, Mont.

Planholders announced for exchange sales store, Malmstrom AFB., Cascade County, Great Falls (ENG-45-164-56-26). Bids to be opened 2:30 p.m., January 24, by Corps of Engineers, Walla Walla District, Colonel Myron E. Page, district engineer, City-County Airport, Bldg. 602, Walla Walla. $100 deposit. Completion time 180 calendar days.

PLANHOLDERS: Pinski Bros., Inc., 1620 Central Ave., Great Falls; Leigland Co., Box 1862, Great Falls; A. H. Barbour & Son, Inc., 2828 N.E. Alberta St., Portland, Ore.; Armco Drainage & Metal Products, Inc., Box 282, Walla Walla, Wash.; H. Halvorson, Inc., Box 6, Yardley, Wash.; Wayne Construction Co., 3810 Stone Way, Seattle, Wash.; H. D. Fowler Co., Inc., 901 Lane St., Seattle, Wash.; Sletten Construction Co., Box 1188, Great Falls; R. S. Leigland & Sons, 1501 N. 35th, Seattle.
MG 1-13. Previous report 12-23

★**TELEPHONE PLANT— Great Falls, Mont.**

Award by (bids received January 11) Mountain States Telephone and Telegraph Co., 401 1st Ave. N., Great Falls, for an addition to the existing building. Plans by Morrison-Marierele, Inc., 910 Helena Ave., Helena. AWD: C. E. Mitchell & Son, 308 4th Ave. S., Great Falls, $514,900 OTHER BIDS: Sletton Construction Co., Box 1188, Great Falls, $533,950; Love Construction Co., 2325 9th Ave. N., Great Falls, $544,300; Haggerty Messmer, Box 751, Bozeman, $559,000; Cahill-Mooney Construction Co., Box 398, Butte, $568,017; C. B. Lauch Construction Co., 435 Ada, Boise, $568,591; J. E. Beaulaurier & Son, 814 25th Ave. N., Great Falls, $572,910. LS-G 1-17. Previous report 12-31

MILITARY BUILDINGS— Great Falls, Mont.

Bids to be opened about 2 p.m., February 23, by Corps of Engineers, Walla Walla District, Colonel Myron E. Page, district engineer, Bldg. 602, City-County Airport, Walla Walla, for constructing seven buildings, utilities, development of sites and other facilities at Malmstrom AFB., Great Falls (ENG-45-164-56-28).

Project includes the following: BUILDINGS—Operations squadron buildings No. 1, No. 2 and No. 3—One story; masonry block and structural steel building with individual gas fired heating system. Each building approximately 5,760 sq. ft. Squadron headquarters and operations building—One story; masonry block and structural steel building connected to existing central steam heating system. Approximately 12,400 sq. ft. Readiness crew building—two story; reinforced concrete building with gas fired heating system. Approximately 5,600 sq. ft. on the ground floor. Commissary, food sales store—One story; masonry block and structural steel building with gas fired unit heaters. Approximately 7,340 sq. ft. Headquarters group building—Single story; masonry block and structural steel building with gas fired forced hot water heating system. Approximately 16,120 sq. ft. UTILITIES—Connections to existing systems. Water service to each building; electrical services to each building and revision of existing electrical systems, both aerial and underground; gas service to those buildings with individual heating system. ROADS, PARKING AREAS, PAVEMENTS, CURBS AND SIDEWALKS—Portland cement concrete curbs and sidewalks; asphaltic concrete pavements (hot

plantmix); bumper rails; culverts and drains. SITE DEVELOPMENT—Site grading, salvage and spreading topsoil; establishing dryland grass; modifications of existing security fencing. MG 1-18

RESORT CENTER— Helena, Mont.

Howard V. and C. F. Sly and Wilford N. Emery, Salt Lake City, are contemplating building a six- to eight-cabin lodge, boat house and boat harbor on the Canyon Ferry Reservoir where Beaver Creek adjoins, between Helena and Townsend.

GH-M 1-13. Previous report 11-29

HOSPITAL— Missoula, Mont.

Modernization plans outlined by T. O. Peterson of St. Paul, president of Northern Pacific Beneficial Association, for association's hospital in Missoula. An estimated $80,000 will be spent on improvements involving landscaping, redecorating and purchase and installation of new equipment.

All rooms will be redecorated; new elevator to be installed; kitchen to be reorganized; new laboratory, surgical and other technical equipment to be installed; new business machines for the office.

DC 1-13. Previous report 12-9

● HOTEL ADDITION— Missoula, Mont.

Bids to be opened January 31 by Fox & Ballas, architects, Wilma Bldg., Missoula, for the Board of Directors of The Hotel Florence, Herb Jensen, manager, on construction of an addition to the existing hotel. Separate bids on general, mechanical and electrical. Plans with architect.

Estimated cost $400,000. This is second half of a proposed hotel expansion project. The first phase was for a 10-level, 130-car pigeonhole parking garage on which contract has already been let to Pigeonhole Parking Corp., Spokane. The second phase of the project on which bids are now being received involves a two-story addition to the west side of the hotel; 60' deep with a 90' frontage. The motor entrance will be on the first floor with direct access to existing hotel lobby, and to the rear of the entrance will be the parking garage. Offices will be on the second floor of the addition.

DC 1-18. Previous report 8-12

● CHURCH AND PARISH HOUSE— Wolf Point, Mont.

Bids to be opened 7 p. m., February 1, by First Lutheran Church, Wolf Point, for church and parish house at Wolf Point. Plans with W. A. Schaefer, architect, 2216 E. 43rd St., Minneapolis, Minn. $25 deposit. Bid bond 100%.

Two story with partial basement; 220'x 112'; concrete footings and foundation; block and face brick walls; concrete slab floors; steel beams; glued laminated roof; masonry partitions; concrete stairways; steel and aluminum windows; face brick wall finish; asphalt tile floor finish; plaster and acoustical ceilings; wood doors; wood cabinets; folding doors; forced hot air, gas fired, ventilation system.

MG 1-18. Previous report 11-12

WYOMING

● FLOOR REPAIRS— Casper, Wyo.

Bids to be opened 1:30 p. m., M.S.T., January 31, by General Services Administration, Bldg. 41, Denver Federal Center, Denver, Colo., for terrazzo floor repairs at the U. S. Post Office and Courthouse, Casper, Wyo.

MG 1-18

★ SCHOOL ADDITIONS— Wheatland, Wyo.

Award by School District No. 9, Platte County, Wheatland, for one-story additions to the Wheatland Elementary School and the Libbey School. Bids were received January 5. Plans by Sam S. Hutchings, architect, 1902 Thomas Ave., Cheyenne. AWD: Garton & Garton, 1939 E. 18th, Cheyenne, $105,765. 2ND LOW: Goodrich Construction Co., Wheatland, $113,200. 3RD LOW: Riedesel-Lowe Construction Co., Box 914, Cheyenne, $113,500. LY 1-14. Previous report 12-28

UTAH

● FIVE-UNIT ARMORY— Fort Douglas, Utah

Bids to be opened 2 p. m., February 15, by Utah State Building Board, 419 State Capitol Bldg., Salt Lake City, for five-unit armory for Utah National Guard, Brigadier General Maxwell E. Rich, adjutant general, Fort Douglas. Plans with Ashton, Evans & Brazier, architects, 24 S. West Temple, Salt Lake City.

Two-story and basement; 167'x146'; concrete foundation and footings; solid masonry and block walls; concrete slab floors; steel girders, beams and columns; steel truss roof; masonry partitions; concrete stairways; steel windows; exterior finish masonry block; interior partitions exposed masonry; asphalt tile flooring; acoustical ceilings; metal exterior doors, wood interior; blackboards; rigid insulation in roof; steam heating system with convectors.

GH-M 1-14. Previous report 9-14

ELEMENTARY SCHOOL— Layton, Utah

Plans to be completed by February 1 for addition to Whiteside Elementary School in Layton. Bids to be called by Davis County School District, Samuel Morgan, superintendent, Farmington. Plans by Ashton, Evans & Brazier, architects, 24 S.W. Temple, Salt Lake City.

One story; concrete footings and foundation; solid masonry walls; concrete slab floors; precast concrete beams; flat roof; steel windows; plaster wall finish; plaster, wood lath partitions; asphalt tile floor finish; acoustical ceilings; metal exterior doors, wood interior; wood cabinets; rigid insulation in roof; unit ventilators, heating system.

GH-M 1-13. Previous report 12-17

■ EDUCATIONAL BUILDING— Ogden, Utah

Planholders announced for technical education building at Weber Junior College, 3800 Harrison Blvd., Ogden. Bids to be opened 2 p. m., January 31, by Utah State Building Board, Jerry J. King, superintendent of construction, 419 State Capitol Bldg., Salt Lake City. Plans with William Rowe Smith, architect, 1555 E. 3900 S., Salt Lake City. $50 deposit.

Planholders: J. L. Aikens, 545 2nd St., Ogden; Hilton & Carr Construction Co., Box 572, Ogden; Larsen Construction and Engineering Co., 2667 Lincoln Ave., Ogden; Raymond Construction Co., 1032 N. Main, Logan; Olson Construction Co., 1549 S. 2nd W., Salt Lake City; George A. Whitmeyer & Sons Co., 2759 Grant Ave., Ogden.

GW 1-18. Previous report 1-7

REMODEL BANK BUILDING— Salt Lake City, Utah

Plans to be completed by February 1 for remodeling of banking floor and all of 2nd floor of the Walker Bank Building, Main and 2nd South, Salt Lake City. Ashton, Evans & Brazier, architects, 24 S.W. Temple, Salt Lake City, are drawing up the plans.

Exterior will remain the same; concrete slab floors; wood stud partitions; metal stairways; aluminum windows; walnut wood wall finish; plaster and wood lath partitions; marble floor finish; luminous ceilings; metal exterior doors, wood interior; new counters of marble; forced air heating system, coal fired.

GH-M 1-13. Previous report 10-25

SCHOOL ADDITION— West Point, Utah

Architect, Lorenzo S. Young, 826 Continental Bank Bldg., retained by Davis County Board of Education, Samuel Morgan, superintendent, Farmington, for a multi-purpose room and remodeling of toilet facilities.

GH-G 1-13

ALASKA

● ■ MILITARY BUILDING— Alaska

Bid closing extended from January 25 to 11 a. m., January 31, by Corps of Engineers, Alaska District, Colonel Carl Y. Farrell, district engineer, D-E Bldg., Anchorage, for construction of "C" and "D" towers and additions to existing operations buildings at the following locations: Fire Island, Murphy Dome and Campion AF, stations, Alaska, and paint existing tower at Campion AF, station (ENG-95-507-56-22). Completion time September 30, 1956. Bid bond 20%. Plans also with Seattle Branch Office, Alaska District, 4735 E. Marginal Way, Seattle.

PLANHOLDERS: Holladay & Edworthy, Inc., 6240 S. Tacoma Way, Tacoma; Vinnell Steel, Box 308, Baldwin Park, Calif.; Alton V. Phillips Co., 4055 21st Ave. W., Seattle; Chris Berg, Inc., 2730 Westlake Ave., Seattle; W. R. Grasle Co., 437 N.W. 16th Ave., Portland; W. L. Reid Co., 3178 S.W. 87th Ave., Portland; Peter Kiewit Sons' Co., 1300 Aloha St., Seattle; S. S. Mullen, Inc., 621 9th Ave. N., Seattle; Fryer-Knowles, 1718 Broadway, Seattle; Century Metal Works, 7126 W. Marginal Way, Seattle; National Steel Erectors Corp., Box 1612, Muskogee, Okla.; Isaacson Iron Works, 8531 E. Marginal Way, Seattle; West Coast Steel Works, 5609 N.E. 77th Ave., Portland; Lent's, Inc., 279 4th St., Bremerton; J. H. Maning, Inc., Box 453, Fairbanks; B-E-C-K, 3647 Stone Way, Seattle; American Services, Inc., Box 877, Spenard. MG 1-14. Previous report 12-30

● MILITARY FACILITY— Big Delta, Alaska

Bids to be opened 11 a. m., January 31, by Corps of Engineers, Alaska District, Colonel Y. Farrell, district engineer, Bldg. D-E, Anchorage, for construction of officers' open mess with utilities at Big Delta (ENG-95-507-56-29). Bid bond 20%.

Project includes officers' open mess building; concrete utilidor, complete with steam, water and sewer piping and manhole 37A; electrical distribution; site grading, topsoiling and seeding, paving and drainage.

■ BOILER AND STOKER— College, Alaska

Planholders announced for additions and alterations to the power plant at the university of Alaska (Project Aaa-50-A-147). Bids to be opened 10 a. m., January 25, by Alaska Public Works, James W. Huston, director, 123 W. 3rd, Juneau (Box 1181). Plans with the director, Alaska Public Works. $25 deposit. Certified check, cashier's check or bid bond 5%.

PLANHOLDERS: Chandler Plumbing and Heating, Inc., Box 534, Fairbanks; Weldit Tank & Steel Co., 1806 Cornwall, Bellingham, Wash.; Star Machinery Co., 241 Lander, Seattle, Wash.; B-E-C-K Constructors, 3647 Stone Way, Seattle, Wash.; Burgess Construction Co., Box 652, Fairbanks; Scheumann & Johnson, 1001 Lloyd Bldg., Seattle, Wash.; C & R Builders, 1126 Fairview Ave. North, Seattle, Wash.; Bumstead-Woolford Co., 1411 4th Ave., Seattle, Wash.; Lent's, Inc., 279 4th St., Bremerton, Wash.; Wyatt & Kipper Engineers, Inc., 3214 16th Ave. S.W., Seattle, Wash.; City Electric Service, Box 1367, Fairbanks; William D. Burk, Box 1618, Anchorage; Leckenby Structural Steel Co., 2745 11th Ave. S.W., Harbor Island, Seattle, Wash.; Fryer Knowles, Inc., 1718 Broadway, Seattle, Wash.; Fairman B. Lee Co., 219 Central Bldg., Seattle; Pacific Car & Foundry Co., 120 W. Hudson St., Seattle, Wash.; Arctic Insulation, Inc., Box 1757, Fairbanks; W. R. Grasle Co., 437 N.W. 16th Ave., Portland, Ore.; The Bay Co., 1512 Center St., Tacoma, Wash.; Charles A. Langlais Co., 474 Bryant St., San Francisco, Calif.; Joe Lundberg Construction Co., 3516 Airport Way, Seattle, Wash.; Interior Builders, 950 Gilmore, Fairbanks; Pacific Construction Co., Box 1051, Fairbanks; Adams Electric Co., 422 14th St., Fairbanks; Fairbanks Building Contractors, 1441 Laurene, Fairbanks; Union Iron Works, 24 California St., San Francisco, Calif.; Link-Belt Co., 3405 6th Ave. S., Seattle, Wash.

JU-M 1-13. Previous report 12-16

SCHOOL ADDITION— Ketchikan, Alaska

Bids to be called late in January by Alaska Public Works, James W. Huston, director, Box 1181, Juneau, for construction of an addition to the high school at Ketchikan. Plans by William Arild Johnson & Associates, 4506 Broadway, Everett.

JU 1-13. Previous report 1-5

● COMMUNICATIONS BUILDING—
Kodiak, Alaska

Bids to be received until 2 p. m., P.S.T., March 1, by 17th Naval District, Bureau of Yards and Docks, Captain R. B. Krum, district public works officer, U. S. Naval Station, for additional communication facilities, at U. S. Naval Station, Kodiak. Bids will be opened 2:30 p. m., at the Seattle Chapter of the Associated General Contractors of America, 215 W. Harrison St., Seattle. Plans with resident officer in charge, 908 7th Ave., Seattle (NOy-87939; Spec. No. 37594). Bid bond 20%.

Construction of a radio receiver building, barracks and mess hall building; garage and riggers shop, emergency power and heating plant and terminal equipment building, all of reinforced concrete construction; construction of a water supply system, power distribution system; and sewage system; the construction of receiving antennas, a CCL relay system; and communications systems, and the construction and improvement of access roads and parking areas. GW 1-17

HOSPITAL— **Seward, Alaska**

Bids will be called about January 25 by Alaska Public Works, James W. Huston, director, Box 1181, Juneau, for the Seward general hospital to be built at 1st Ave. and Lowell St. Plans have been completed by Foss & Olsen, architects, Box 2623, Juneau. JU 1-14. Previous report 12-21

ENGINEERING NEWS

Washington, Oregon, Idaho, Montana, Wyoming, Utah, Alaska

- ● Bids Called
- ★ Contract Awards
- ▲ Low Bids—Bid Received
- ■ Planholders—Prospective Bidders

OREGON

■ SEWERS— **Albany, Ore.**

Planholders announced for trunk and lateral sewers for newly annexed area in Albany. Bids to be opened 5 p. m., January 25, by City, William D. Bollman, city recorder, City Hall, Albany, Ore. Plans with Stevens & Thompson, consulting engineers, 600 National Bldg., Portland. Certified check, cashier's check or bid bond 5%. $25 deposit.

PLANHOLDERS: E & W Construction Co., Inc., 3170 W. 11th St., Eugene; P. S. Lord Mechanical Contractors, 4507 S.E. Milwaukie Ave., Portland; Frank W. Kanehl, 6407 S.E. 43rd Ave., Portland; DenHerder's Plumbing, Heating & Construction, 146 W. Sherman St., Lebanon; Jeske Bros. Construction Co., Eugene; S. D. Spencer & Son, 4506 N.E. Jaggy Road, Vancouver; Paul W. Ferneding, 2111 E. 27th St., Vancouver; George W. Lind, 5000 N.E. Killingsworth Ave., Portland; Gale L. Zysset, 1565 Roosevelt St., Salem; Salem Sand & Gravel Co., 1401 N. Front, Salem.

WB 1-13. Previous report 12-31

● ANTENNA POLE FACILITY—
Burns, Ore.

Bids to be opened 2 p. m., January 26, by Department of Air Force, C. S. Phelps, procurement office, Geiger Field, Spokane, for constructing an antenna pole facility at the 634th AC&W squadron in the vicinity of Burns (IFB-45-614-58-48). CE-M 1-18

● BREAKWATER, DREDGING—
Charleston, Ore.

Bids to be opened 2 p.m., February 10 by Corps of Engineers, Portland District, Colonel Jackson Graham, district engineer, 628 Pittock Block, Portland, for construction of stone breakwater and dredging a small boat basin in South Slough, Coos Bay at Charleston, Ore. (CIVENG-35-026-56-116). Bid bond 20%. Completion time 210 calendar days. MG 1-17. Previous report 12-21

● REPLACE BANK TRANSFORMER—
Condon, Ore.

Bids to be opened 2 p. m., February 13, by Department of Air Force, C. S. Phelps, procurement office, Geiger Field, Spokane, for replacing existing bank transformer adjacent to mess hall and repair of supporting structure at 636th AC&W squadron, in the vicinity of Condon, Ore. (IFB-45-614-56-47).

★ STOPLOGS, BEAMS— **Dexter Dam, Ore.**

Award to George Myrmo & Sons, 1937 Franklin Blvd., Eugene, $2,800, by Corps of Engineers, Colonel Jackson Graham, district engineer, 628 Pittock Block, Portland, for modifications to spillway stoplogs and lifting beam at Dexter Reregulation Dam, Willamette Bason Project, Middle Fork Willamette River, Lockout Point, Ore. (CIVENG-35-026-56-108).

WB 1-18. Previous report 1-12

POWER LINE— **Eugene, Ore.**

Right of way easements for a power transmission line from the Leaburg powerplant to the site of the proposed Cougar Dam, are being acquired by Eugene Water and Electric board. The board has authorized the spending of up to $95,000 for acquisition of easements, right of way clearing and engineering costs. About $50,000 of this will be needed to purchase timber stumpage from federal lands which lie in the right of way. The line from Leaburg to Cougar Dam will be about 25 miles and will carry power from the Leaburg plant to the dam site while construction is underway, and will later be available to carry power from the generators to Cougar Dam. The line will also serve as one of the links to the Eugene Water and Electric board's proposed Beaver Marsh project on the upper McKenzie River. DC 1-13

● SEWERS— **Hermiston, Ore.**

Bids will be received by the City Council, George Harkenrider, mayor, City Hall, Hermiston, until January 25 for construction of the Jenny Ave. sewer system. Plans with city engineering department. DC 1-13

★ DRILL, CASE WELL—
Klamath Falls, Ore.

Award by Klamath Falls School District No. 1 for drilling and casing a hot water well which will be used in a heating system for the proposed junior high school to be built on Mountain View housing site. Plans by Howard R. Perrin, architect, 1121 Main St., Klamath Falls. AWD: E. E. Storey, 4237 Summers Lane, Klamath Falls, $5.44 per ft. for standard pipe; $3.00 per ft. for common drilling; $12 per ft. for rock drilling; $1.83 per ft. for pipe coils for heating; 98c per ft. for hot water loops; $62.98 per shoe and protective casing, sealing off cold water; $44 for control valve. ZZ 1-18

● HAYSTACK DAM— **Madras, Ore.**

Bids to be opened February 28 by Bureau of Reclamation at Madras for construction of Haystack Dam, Deschutes Project, Ore. (Spec. No. DC-4613). The project is located near Madras, Jefferson County. Plans and specifications with bureau in Madras and in Building 53, Denver Federal Center, Denver, Colo.

Quantities: 650,000 c.y. excav.; 533,000 c.y. earthfill in embankment; 1,640 c.y. concr.; other work. Completion time 600 days.

● GRADING, SURFACING— Portland, Ore.

Bids to be opened 10:30 a. m., January 26, by Multnomah County Board of Commissioners, John W. West, purchasing agent, room 504, Courthouse, Portland, for grading and paving S.E. Raymond St., S.E. 106th Ave. and S.E. Mitchell St. Plans with Paul Northrup, county roadmaster, 2115 S.E. Morrison St., Portland. $2 charge. Certified check or bid bond 10%.

S.E. RAYMOND ST.: From 104th to 106th Ave. Grading and surfacing with bituminous macadam. Quantities: 936 c.y. unclassified excavation; catch basins; 391 c.y. 2½" minus and 131 c.y. ¾" minus material-in-base; 976 gal. PS-400 fuel oil; 13.51 ton bituminous cement; 158 c.y. oil rock; 42' mail box posts; other items.

S.E. 106TH AVE.: From Raymond to Mitchell Sts. Grading and paving with asphaltic concrete with concrete curbs, driveways, etc. Quantities: 558 c.y. unclassified excavation; 162 c.y. 2½" minus and 54 c.y. ¾" minus material-in-base; 90 tons class B asphaltic concrete; 46' mail box posts; 422' concrete curbs; 72 c.y. concrete driveways.

S.E. MITCHELL ST.: From 104th to 106th Aves. Grading and paving with asphaltic concrete with concrete curbs, driveways, etc. Quantities: 1194 c.y. unclassified excavation; catch basins; 376 c.y. 2½" minus and 127 c.y. ¾" minus material-in-base; 283 tonclass B asphaltic concrete; 915' concrete curbs; 110 sq. yd. concrete driveways; other items. WB 1-13

★ STATE HIGHWAY PROJECT—
Portland, Ore.

Award to Arthur Simsonson & Co., 2925 Grandview Drive, Baker, $36,022, by Oregon State Highway Commission, H. B. Glaisyer, secretary, Salem, on the following project. Bids were opened in Portland on December 19.

UMATILLA BRIDGE JUNCTION - HERMISTON SECTION — Grading, pavement widening on 0.89 mi. Columbia River Highway about 0.5 mi. east of Umatilla, Umatilla County. A state project. Completion date August. GW 1-14. Previous report 12-21

▲ BACKSTOP— **Portland, Ore.**

Bids opened January 11 by city purchasing agent, Gentry W. Yates, room 208, City Hall, Portland, for construction of chain link fence backstop in Sellwood Park. LOW BID: San Jose Steel Co., 723 N. Tillamook, $2,767. 2ND LOW: Cyclone Fence Department, 400 N.E. 11th Ave., $2,803. 3RD LOW: Colorado Fuel & Iron Corp., 1350 N.W. Raleigh St., $2,893. Of Portland.

WB 1-14. Previous report 1-4

★ FIRE ALARM CABLE— **Portland, Ore.**

Award to North Coast Electric Co., 625 N.W. Everett St., Portland, $3,906, by city purchasing agent, Gentry W. Yates, room 208, City Hall, Portland, for furnishing fire alarm cable. WB 1-14. Previous report 1-4

★ ROAD OILS— **Portland, Ore.**

Award to Douglas Oil Co., 5500 N.W. Front Ave., Portland, at unit prices quoted by city purchasing agent, Gentry W. Yates, room 208, City Hall, Portland, for asphaltic road oils for calendar year 1956.

WB 1-14. Previous report 12-21

★ STREET IMPROVEMENTS—
Portland, Ore.

Awards by city auditor, Will Gibson, City Hall, Portland, for street improvements. ALLEY IN BLOCKS 19 AND 57, IRVINGTON PARK — Concrete pavement — AWD: Perkins Bros., 10324 N.E. Halsey St., Portland, $1,930. N.E. GILHAM AVE.—Concrete sidewalks, curbs and hot mix paving—AWD: Cascade Construction Co., Foot of S.W. Abernathy St., Portland, $2,616.

WB 1-14. Previous report 11-15

★ TRACTOR— **Portland, Ore.**

Award to Interstate Tractor and Equipment Co., 2855 N.W. Front Ave., Portland, $19,142, by city purchasing agent, Gentry W. Yates, room 208, City Hall, Portland, for one crawler type tractor for the Bureau of Water Works. WB 1-14. Previous report 1-4

●CONTROL EQUIPMENT— Portland, Ore.

Bids to be opened 2 p.m., January 25, by city purchasing agent, Gentry W. Yates, room 208, City Hall, Portland, for electric control equipment, fob. 1900 N. Interstate St., Portland. Bid bond or certified check 10%.

Equipment to be used at City Park Stand-by Pumping Station. WB 1-14

★STRAINERS— Portland, Ore.

Award to Zurn Western Services, Inc., 501 6th St., San Francisco, $23,600, by city purchasing agent, Gentry W. Yates, room 208, City Hall, Portland, for furnishing two flanged twin strainers for the Bureau of Water Works. WB 1-14. Previous report 1-6

●PLYWOOD— Portland, Ore.

Bids to be opened 10 a.m., January 31, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for 9,600 sq. ft. plywood fob. Eavan Spur, Vancouver, Wash. (Inv. No. 7875). Completion time 30 calendar days.

Plywood, ¾x48x96", grade A-C exterior, sound one side. MG 1-14

●INTERSTATE BRIDGE— Portland, Ore.

Bids to be opened 9 a.m., March 1, at the Imperial Hotel in Portland, by the Oregon State Highway Commission, H. B. Glaisyer, secretary, on the first of several contracts for construction of the interstate bridge across the Columbia River between Washington and Oregon, just downstream from the existing bridge between Vancouver, Wash., and Portland, Ore. The contract on which bids will be opened at this time is the main contract on the project and is estimated at approximately $8,250,000. The entire project will cost about $14,000,000.

Plans and specifications may be obtained at the highway commission office, R. H. Baldock, state highway engineer, in the State Highway Bldg., Salem. $2 charge per set.

This is a cooperative project to be financed and built under a tri-party agreement between the states of Oregon and Washington, acting through their respective state highway commissions and the Washington Toll Bridge Authority.

The work on which bids are being called consists of the following construction on the Pacific Highway in the vicinity of Portland, Multnomah County, Ore., and Vancouver, Clark County, Wash. A—Interstate bridge over the Columbia River involving construction of a reinforced concrete and structural steel bridge 3,351'-5⅞" in length with 40' roadway and one 5' sidewalk; 11 main river piers, 1—531', 7—265', 2—272' steel through truss spans and 1-278' vertical lift span, and a 318' reinforced concrete viaduct. B—Oregon Slough bridge involving altering the existing structures over the Oregon Slough and Swift Road, and widening these structures to accommodate two additional lanes of traffic; principal work consisting of construction of a widened portion of the Oregon Slough Bridge, 1,294'-7" in length with a 38' roadway, and one 6' sidewalk and an approach ramp 133' in length with a 26' roadway.

Quantities —Interstate Bridge: 15,500 c.y. struct. excav. (Alt. A), 20,500 c.y. (Alt. B); 500 c.y. excav. below elevation on both alternates; 87,700' (Alt. A), 92,000' (Alt. B) furnish tbr. piling; 4,200' tr. tbr. piling on both alternates; 1,300' cast-in-place concrete piling on both alternates; 6,700 c.y. (A), 13,000 c.y. (B) seal concr.; 1,600,000 lb. (Alt. A), 1,700,000 lb. (Alt. B) mtl. reinf.—Oregon Slough Bridge: 18,900' (A), 16,900' (B) furnish tbr. piling; 7,800' tr. tbr. piling on both alternates, 1,070 c.y. (A), 2,250 c.y. (B), seal and tremie concr. respectively; 4,060 c.y. (A), 3,350' (B) cl. A concr.; 576,000 lb. (A), 669,000 lb. (B) mtl. reinf. DM 1-14

▲GRAVEL ROAD— Portland, Ore.

Bids opened January 13 by Oregon State Game Commission, P. W. Schneider, director, 1634 S.W. Alder St., P.O. Box 4136, Portland, for construction of Steelman Road on Sauvie Island, Columbia County, northeast of Portland. LOW BID: F. E. Wilburn, Springfield, $12,847. OTHER BIDS: S. D. Spencer & Son, 4506 N.E. Jaggy Road, Vancouver, $13,944; Erland & Blickle, 8265 N. Borthwick Ave., Portland, $15,663; Harold C. LaVelle, 10430 S.E. Bush St., Portland, $14,814; Parker-Schram Co., Builders Exchange Bldg., Portland, $18,655; Frank Lyons & Co., 5200 N.E. Alberta St., Portland, $19,408; Oregon Asphaltic Paving Co., 0441 S.W. Porter St., Portland, $21,250; Beaver Excavating Co., 5044 N.E. Killingsworth St., Portland, $22,055. WB 1-17. Previous report 12-20

●STATE HIGHWAY PROJECTS— Portland, Ore.

Bids to be opened 9 a.m., January 27, by Oregon State Highway Commission, H. B. Glaisyer, secretary, in the Queens Room of the Imperial Hotel in Portland on the following projects. Plans with R. H. Baldock, state highway engineer, State Highway Bldg., Salem.

CANYONVILLE STRUCTURE—Grade separation structure, 168' reinforced concrete deck girder on relocated Pacific Highway about three miless north of Canyonville, Douglas County, FAP No. FI-78(29). Span arrangement: 51'-76'-41'. Involves 180', 12" cast-in-place concr. piling (8 piling); 313 c.y. cl. A concr.; 76,400 lb. metal reinf.; 215 sq. yd. concr. slab riprap. Completion date August 31.

CONDON ROCK PRODUCTION PROJECT—About 13,900 c.y. crushed rock or crusred gravel in stock piles on John Day and Wasco-Heppner highways near Condon, Gilliam County, a state project. Completion August 31.

CASEY PARK SECTION—Grading, oiling .24 mile Crater Lake Highway about 6 miles northeast of Trail, Jackson County, a state project. Involves 10,200 c.y. excav.; 600' steel pipe; 12 ton 150-200 asph. Completion July 31.

REESE CREEK SECTION—Grading, asphaltic concrete paving, .68 mile Crater Lake Highway about 15 miles northeast of Medford, Jackson County, a state project. Involves 950 ton A.C. paving mix; 58 ton 100-120 asph. in paving. Completion August 31.

ASHLAND CREEK STRUCTURES—Reinforced concrete deck girder bridge, 256', over Ashland Creek and Water St., in City of Ashland, Jackson County, FAP No. F-302 (4). Span arrangement: 32'-52'-44'-52'-32. Involves 690 c.y. cl. A concr; 142,000 lb. metal reinf. Ashland Creek Crossing: 17' deck slab crossing Ashland Creek involving 67 c.y. cl. A concr.; 10,300 lb. metal reinf. Completion September 30.

HELLGATE - OAKRIDGE DIKE PROJECT—Dike construction, 1,250' on Willamette Highway near Oakridge, Lane County, FAP No. F-308(5). Completion March 31.

NYSSA BRIDGE—Bridge, 685', over Snake River near Nyssa on Oregon Trail Highway, Malheur County, FAP No. S-3746(3). Approach span 40' reinf. concr. D. G. approach span 600' welded steel plate girders (spans 186'-228'-186'), 45' reinf. concr. D. G. approach span. Involves 1,066,000 lb. struct. stl.; 1,200 c.y. cl. A concr. Completion December 31, 1957.

IDAHO STATE LINE-SUCKER CREEK SECTION—Grading, asphaltic concrete paving 2.15 mile on I.O.N. Highway about 18 mile north of Jordan Valley, Malheur County, FAP No. S-25(3). Involves 45 ton MC-2 asph.; 5,000 ton asph. concr. paving mix; 300 ton 120-150 asph. in paving; 36 ton RS-2 asph. Completion July 31.

ONTARIO-NYSSA SHOULDER OILING—Shoulder oiling 11.27 miles on Old Oregon Trail Highway, Malheur County, a state project. Completion July 15.

MESSNER OVERCROSSING—Remove existing frame trestle approaches and replace with three precast beam spans and one poured-in-place deck girder span; widen existing 90' reinforced concrete structure over Union Pacific Railroad tracks on the Upper Columbia River Highway, Morrow County, a state project. Involves 390 c.y. cl. A concr.; 90,000 lb. metal reinf. Completion October 31.

MILTON-FREEWATER ROCK PROJECTION — Approximately 6,400 c.y. crushed rock or gravel in stockpiles on three highways extending west and north from Milton-Freewater, Umatilla County, a state project. Completion June 30.

UKIAH-FOREST BOUNDARY SECTION—Grading, topping 9.99 miles Ukiah-Hilgard Highway about 50 miles south (along U.S. 395) from Pendleton, Umatilla County, FAP No. S-57(5). Completion August 31.

SHOGREN OVERCROSSING-CHATFIELD SECTION — Asphaltic concrete pavement widening 1.29 miles Columbia River Highway, one-half mile east of Mosier, Wasco County, a state project. Completion July 13.

CHEHALEM MOUNTAIN-NEWBERG SECTION—Grading, asphaltic concrete paving 1.94 miles of Hillsboro-Silverton Highway north from Newberg, Yamhill County, FAP No. S-63(3). Involves 30 ton RC-3 asph.; 5,300 ton. asph. concr. paving mix; 320 ton 100-200 asph. in paving; 12 ton RS-1 asph.; 24 ton RS-2 asph. Completion time September 30. DM 1-17. Previous report 1-13

●STATE HIGHWAY PROJECTS— Portland, Ore.

Bids to be opened 9 a.m., January 26 by Oregon State Highway Commission, H. B. Glaisyer, secretary, in the Queens Room of the Imperial Hotel in Portland on the following projects. Plans with R. H. Baldock, state highway engineer, State Highway Bldg., Salem.

NEAR ALSEA—About 13,900 c.y. crushed rock in stock piles, Alsea Rock Production Project, Alsea and Alsea-Deadwood Highways, Benton County. State project. Completion date July 13.

McKEE BRIDGE — Reinforced concrete 302' bridge over Applegate River, Applegate County road, about nine miles south of Ruch, Jackson County, FAP No. S-173 (3). Span arrangement: 40'-56'-70'-56'-40'-40'. Involves 568 c.y. cl A concr.; 132,000 lb metal reinforcement. Completion date November 30.

LITTLE DESCHUTES RIVER BRIDGE—Raise and widen existing 67' (span 19'-29'-19') composite concrete and timber bridge on Willamette Highway four miles west of its junction with The Dalles - California Highway, Klamath County, FAP No. F-184 (3). Involves 60 c.y. cl A concr. (precast beams poured in place deck); 11,500 lb. metal reinforcement. Completion date August 31.

NEAR MERRILL—Grading, asphaltic concrete paving and shoulder oiling on 4.02 mile Lost River-Hatfield Junction section of Klamath Falls-Malin Highway, Klamath County, FAP No. S-34(2). Involves 160 c.y. concr. curbs; 20,250 c.y. crushed rock base; 24 ton RC-3 asph.; 13,500 ton Asph Concr. paving mix; 810 ton 120-150 asph. in paving; 58 ton RS-1 asph.; 60 ton RS-2 asph.; 62 ton 150-200 asph. Completion date September 15.

SOUTHEAST OF LAPINE—Oiling 26.06 mile and furnishing crushed material in stockpile, south unit, Lapine-Silver Lake section of Fremon Highway about ¼ mile southeast of Lapine, Klamath and Lake Counties, a state project.

LEBANON BRIDGES — Two composite concrete-timber bridges to replace existing timber bridges on Linn County roads near Lebanon, FAP Nos. S-119(3) and S-148(2). Three 21' precast beam spans with poured in place deck, on timber pile bents, involving 175 c.y. cl. A concr.; 46,000 lb metal reinf. Completion date June 30.

JORDAN VALLEY — Grading, asphaltic concrete paving 15.56 mile Basque Maintenance Station-McDermitt section of I.O.N. Highway about 65 mile southwest of Jordan Valley, Malheur County, FAP No. FLH-3-(15). Involves 35,000 ton asph. concr. paving mix; 2,200 ton 120-150 asph. in paving; 120 ton RS-1 asph.; 180 ton RS-2 asph. Completion date August 31.

PARKROSE — Asphaltic concrete paving .16 mile East Parkrose section of Columbia River Highway, Multnomah County, state project. Involves 5 ton RC-3 asph.; 540 ton A.C. paving mix; 32 ton 100-200 asph. in paving; 3 ton RS-2 asph. Completion date June 30.

ROSS ISLAND BRIDGE—Grading, cement concrete paving .14 mile of bridge on-ramp section of Pacific Highway east at east end of the Ross Island Bridge in Portland, Multnomah County, a state project. Involves 1,230 lb. metal reinf.; 240 ton A.C. paving mix; 15 ton 100-120 asph. in paving; 200 sq. yd. portland cem. concr. paving. Completion date June 30.

N.E. 21st AVE STRUCTURE—Remove five south spans of existing structure and re-

place with three span box girder section over Banfield Expressway in Portland, Multnomah County. FAP No. UI-323(17). Involves 100 ton asph. concr. mix; 860 c.y. cl A concr.; 190,000 lb. metal reinf. Completion date September 9.

SHORT CREEK SECTION—Grading .27 mile Cape Meares Loop Road about 1.2 mile north of Oceanside, Tillamook County. FAP No. S-1(3). Involves 136 c.y. concr. in box culv.; 29,000 lb. metal reinf. Completion date August 31.

WESTON-ELGIN ROCK PRODUCTION—Approximately 13,800 c.y. crushed rock in stockpiles on Weston-Elgin Highway, Umatilla and Union Counties, a state project. Completion time August 15.

WEAVER BRIDGE—Reinforced concrete deck girder bridge, 120', to replace existing steel truss bridge over Wallowa River on Werst Corner-Wallowa Road, Wallowa County. FAP No. S-203(2). Span arrangements: 36'-48'-36'. Involves 50,000 lb. mtl. reinf.; 200 c.y. cl. A concr. Completion date August 31.

HESS CREEK—Roadside improvements on Pacific Highway west at Newberg, Yamhill County. FAP No. F-73(13). Completion date June 30.

WALLACE BRIDGE-SHERIDAN UNIT—Grading 6.86 mile Valley Junction-Sheridan section of Salmon River Highway, east and west of Sheridan, Yamhill and Polk Counties. FAP No. F-300(73. Involves 72,000 lb. metal reinf.; 805,000 c.y. excav.; 390 c.y. concr. Completion date November 30.

DM 1-17. Previous report 1-13

★LINE TRAPS— Portland, Ore.

Award to General Electric Co., Public Service Building, Portland, $11,220, by Bonneville Power Administration, L. C. Stewart, procurement officer, 1001 N.E. Lloyd Blvd., Portland, for six carrier current line traps, fob. Eavan Spur, Vancouver, Wash. (Inv. No. 7863). Bids were opened January 12.

WB 1-18. Previous report 1-5

★CIRCUIT BREAKERS— Portland, Ore.

Partial contract awards announced by Bonneville Power Administration, L. C. Stewart, procurement officer, 1001 N.E. Lloyd Blvd., Portland, for nine power circuit breakers to be delivered to various destinations (Inv. No. 7848). AWD—ITEMS 1, 2, 9, 10: Kelman Electric and Manufacturing Co., Los Angeles, $91,852. AWD—ITEM 3: Federal Pacific Electric Co., Los Angeles, $53,356. WB 1-18. Previous report 1-11

●ROCK BASE, SURFACING— Portland, Ore.

Bids to be opened 10:30 a. m., January 31, by Multnomah County Board of Commissioners, John W. West, purchasing agent, room 504, Courthouse, Portland, for constructing rock base and surfacing with asphaltic concrete on S.E. 71st Ave. from Flavel to Ogden Sts. Plans with Paul Northrup, roadmaster, 2115 S.E. Morrison St., Portland. $2.00 charge. Certified check or bid bond 10%.

Quantities: 1818 c.y. general excavation, unclassified; 11 c.y. drainage excavation, unclassified; sump and catch basins; 72', 8" tongue and groove concrete pipe; 721 c.y. 2" minus and 238 c.y. ¾" minus material-in-base; 370 ton class B asphaltic concrete; 1604 gal. PS-400 fuel oil; 20 c.y. oil rock in prime course. WB 1-18

●LUMBER— Portland, Ore.

Bids to be opened 9:30 a. m., P.S.T., January 26, by Corps of Engineers, Colonel Jackson Graham, district engineer, 628 Pittock Block, Portland, for approximately 2,185,000 fbm. lumber, softwood, for export (ENG-35-026-56-108). WB 1-18

●LUMBER— Portland, Ore.

Bids to be opened 9:30 a. m., P.S.T., January 24, by Corps of Engineers, Colonel Jackson Graham, district engineer, 628 Pittock Block, Portland, for approximately 866,000 fbm. lumber, softwood, for various destinations, some for export (ENG-35-026-56-109). WB 1-18

★HEATER TUBES— Portland, Ore.

Award to Boiler Tube Co. of America, McKees Rocks, Pa., $7,046, by Corps of Engineers, Colonel Jackson Graham, district engineer, 628 Pittock Block, Portland, for 2,500 seamless steel air heater tubes, fob. Portland (CIVENG-35-026-56-112). Bids were opened January 6.

WB 1-18. Previous report 12-29

FACILITIES— Salem, Ore.

Approximately $5,000,000 in city projects may be placed on the May primary ballot. City Council is preparing ordinance bills for the projects.

Included among the facilities are: new water line, estimated $3,750,000; four new city bridges, $140,000; widening of S. 125th St., Fairgrounds Road, Market St., $188,000; purchase of park lands and development of all parks, $750,000; annual levy for park purposes, $35,000; airport projects, $43,000 in matching funds; telegraphic box fire alarm system, $71,000. DC 1-13

▲LOADING MACHINE— Salem, Ore.

Bids received January 5 by Department of Finance and Administration, purchasing division, 1225 Ferry St., Salem, for 15 loading machines for Oregon State Highway Department, Equipment Division, Salem. LOW BID: Loggers and Contractors Machinery Co., 240 S.E. Clay St., Portland, $62,400. OTHER BIDS: Nelson Equipment Co., 5251 S.E. McLoughlin Blvd., Portland, $75,825; Western Equipment Co., 2244 N.W. Savier St., Portland, $136,803.

TW-M 1-13. Previous report 12-23

▲TANDEM ROLLER— Salem, Ore.

Bids received January 6 and held under advisement by Department of Finance and Administration, 1225 Ferry St., Salem, for two variable weight tandem rollers (Bid No. R-7979-55) for delivery to Highway Department. LOW BID: Cal-Ore Machinery Co., 944 S. Central Ave., Medford, $9,972. OTHER BIDS: Howard Cooper Corp., 5821 N.E. Glisan, Portland, $9,989; Balzer Machinery Co., 2136 S.E. 8th, Portland, $10,160; Nelson Equipment Co., 5251 S.E. McLoughlin, Portland, $10,980; Cramer Machinery Co., 1005 S.E. Stark, Portland, $11,548; Columbia Equipment Co., 1240 S.E. 12th Ave., Portland, $11,970. TW-G 1-14. Previous report 12-29

★GEAR REDUCTION UNIT— The Dalles, Ore.

Award to General Tool Co., 325 N.W. 15th Ave., Portland, $2,100, by Corps of Engineers, Colonel Jackson Graham, district engineer, 628 Pittock Block, Portland, for gear reduction unit fob. The Dalles Dam, The Dalles, Ore. (CIVENG-35-026-56-109). Bids were opened January 3.

WB 1-18. Previous report 12-24

SEWERS— Woodburn, Ore.

Engineers, Clark, Groff & Cave, 3240 Triangle Drive, Salem, retained by City Council to draw plans and specifications for new sewers in the proposed Southwest Sanitary Sewer District. Engineers were instructed to make maximum possible use of existing sewers in the southwest area which is west of the Southern Pacific Railroad right of way and south of Sheridan St.

DC 1-13

●PAINTING TANK— Woodburn, Ore.

Bids to be opened 2 p. m., P.S.T., January 27, by Department of Finance and Administration, Purchasing Division, 1225 Ferry St., Salem, for cleaning and painting the 45,000-gal. water tank and tower at MacLaren School for Boys in Woodburn (Bid No. S-214-56). Depending on amount of funds available, award will be made on cleaning and painting the entire tank and tower or for cleaning and painting the tank only. Certified check, cashier's check or bid bond 5%. TW 1-18

WASHINGTON

SEWAGE TREATMENT PLANT— Ault Field, Wash.

Preliminary plans under way by Hill & Ingman, consulting engineers, 1728 E. Madison, Seattle, for the construction of a sewage treatment plant at U. S. Naval Air Station, Ault Field, Whidbey Island, for 13th Naval District, Bureau of Yards and Docks, Rear Admiral R. H. Meade, chief of bureau, room 100, Bldg. 232, U. S. Naval Station, Seattle. GW 1-17

●WATER PIPE— Bellevue, Wash.

Bids to be opened 8 p. m., February 6, by Water District No. 68, King County, Richard Montgomery, secretary, district office on Meydenbauer Hill at approximately S.E. 7th St. and 95th Ave. S.E., Bellevue, for furnishing and installing approximately 3,400' of 8" and 5,200' of 6" class 150 asbestos-cement pipe. Plans and specifications with Howard T. Harstad & Associates, consulting engineers, 1000 Lenora St., Seattle. $10 deposit. Certified check 5%. DC 1-18

●VEHICLES— Bellingham, Wash.

Bids to be opened 10 a. m., January 23, by Alfred B. Loop, City Comptroller, City Hall, Bellingham, for one 1956 four-door sedan, one 1½-ton service truck; two 1956 ½-ton pick-up trucks for the water department. Bid bond 5%. JD-M 1-18

●GRAVEL PIT EQUIPMENT— Bellingham, Wash.

Bids to be opened 5 p. m., January 23, by Alfred B. Loop, city comptroller, City Hall, Bellingham, for furnishing gravel pit equipment for the Bellingham Street Department. Bid bond 5% or certified cashier's check. Delivery time 30 days.

Project includes two gravel storage bins complete; three channel type conveyors, complete; one vibrator screen complete.

EE-M 1-18

BRIDGE— Benton City, Wash.

Bids will be called this spring by Benton County Commissioners, Courthouse, Benton City, for construction of a tied cantilever type bridge across the Yakima River. Homer Hadley, consulting engineer, 807 S.W. 207th Place, Seattle, is drawing the plans for the span. Bridge will be concrete and steel; 400' in length and cost about $140,000.

MG 1-18. Previous report 1-7

●ASPHALT PAVING— Bremerton, Wash.

Bids to be opened 11:30 a. m., P.S.T., January 24, by Department of the Navy, Bureau of Yards and Docks, F. L. Enderbrock, officer in charge of construction, Bld. 78, U.S. Naval Base, Bremerton, for ashalt paving west of dry dock No. 5, Puget Sound Naval Shipyard, Bremerton (NBy-1955. Spec. No. 1955/56). $10 deposit.

The work consists of providing drainage structures and paving with asphaltic concrete an area of approximately 1,700 sq. yd. The work includes the preparation of ground surf and providing a base course.

GW 1-17

★RETAINING WALL— Bremerton, Wash.

Award to Covey-Heifeisen, Port Orchard, $3,505, by Department of the Navy, Bureau of Yards and Docks, F. L. Enderbrock, officer in charge of construction, Bldg. 78, U. S. Naval Base, Bremerton, for construction of a retainingwall, Camp Wesley Harris Rifle Range, Marine Barracks, (Contract NOy-84858; Spec. No. 44343[SF]).

MG 1-17. Previous report 1-7

WARREN AVENUE BRIDGE— Bremerton, Wash.

Cost estimates to be completed in March by Tudor Engineering Co., San Francisco, on a proposed second bridge to the Manette Peninsula. The City Council, E. H. T. McGowan, city clerk, City Hall, Bremerton, has authorized the engineering firm to complete plans on the new structure.

A seven-part package construction program has been proposed as follows: 1—construction of four-lane span to the peninsula from the end of Warren Ave.; 2—construction of a north approach from Hal's Corner; 3—widening and improving Warren Ave. from the bridge to 6th St.; 4—widening, improving 11th St. from Warren to Pacific Ave.; 5—construction of a viaduct over War-

ren Ave. playfield from 11th St. and Warren Ave. to 11th St. and Chester Ave.; 6—improving Warren Ave. to provide for four-lane traffic from 6th St. to the naval shipyard; 7—construction of a toll plaza at the west end of the existing Manette Bridge.
DC 1-18

▲ASPHALTIC PAVING— Curlew, Wash.

Bids received and rejected on November 14; plans to be revised and project to be readvertised by Department of Air Force, C. S. Phelps, procurement officer, Geiger Field, Spokane, for the repair of access and cantonment area road at 638th AC&W squadron in the vicinity of Curley (IFB 45-614-56-30). CE-G 1-14. Previous report 11-9

●LUBRICATING SYSTEM— Coulee Dam, Wash.

Bids to be opened February 28 by Bureau of Reclamation, project engineer, Coulee Dam, for furnishing labor and materials for centralized grease lubricating systems for hydraulic turbines, Grand Coulee Power Plant, Columbia Basin Project, in Coulee Dam, Wash. (Spec. No. DC-4610). Plans with reclamation office in Coulee Dam and at Bldg. 53, Denver Federal Center, Denver, Colo.

Principal items involve furnishing and installing centralized grease lubricating systems for 18 main unit turbines; for three station service turbines; other work. Completion time 300 days. DM 1-14

●EARTHWORK— Ephrata, Wash.

Bids to be opened February 23 by Bureau of Reclamation, P. R. Nalder, Box 368, Ephrata, for earthwork and structures for Royal Branch Canal, Station 1/17 to Station 451/58, wasteway and laterals, Columbia Basin Project, near Othello, Wash. (Spec. No. DC-4607). Plans and specifications with reclamation offices in Ephrata and at Bldg. 53, Denver Federal Center, Denver, Colo.

Quantities: 600,000 c.y. excav.; 1,180 c.y. concrete; six radial gates and hoists; 45 metal slide gates; 7,600 lb. miscellaneous metalwork. Completion time 330 days. DM 1-14

●STOCKPILING— Ephrata, Wash.

Bids to be opened 10 a. m., P.S.T., January 31, by Bureau of Reclamation, P. R. Nalder, project manager, Box 368, Ephrata, for furnishing, placing and stockpiling gravel for road surfacing. Block 45, Columbia Basin Project, near Othello, Wash. (Spec. No. 117C-358). Plans with the district office in Ephrata. Bid bond 10%.

The work included in the specifications supersedes and cancels Spec. No. 117C-326, persedes and cancels Spce. No. 117C-326.

Features of work include preparation of subgrade for operating roads; furnishing and placing gravel for operating roads; furnishing and stockpiling gravel. Quantities: 18.5 mi. preparing subgrade; 18.5 mi. placing gravel; 3,000 c.y. furnishing and stockpiling gravel at site 1; 2,500 c.y. furnishing and stcokpiling gravel at site 3. Completion time 90 calendar days. DM 1-14

▲SIPHON ALTERATIONS— Ephrata, Wash.

Bids received January 12 by Bureau of Reclamation, P. R. Nalder, project manager, Box 368, Ephrata, for siphon alterations, later EL20M east low canal later, Block 40, Grant County, approximately 3½ mi. north and east of Moses Lake, Columbia Basin Project, Wash. (Spec. No. 117C-351). LOW BID: Duncan Construction Co., Box 385, Moses Lake, $23,926. OTHER BIDS: H. C. Grendahl, N. 2128 Waterworks St., Spokane, $24,693; E-W Construction Co., 3170 W. 11th, Eugene, $26,782. Engineers estimate $22,584. MG 1-13. Previous report 12-23

▲EARTHWORK, STRUCTURES— Ephrata, Wash.

Bids received January 17 by Bureau of Reclamation, P. R. Nalder, project manager, Division and C St., N.W. Ephrata, for earthwork and structures PE 16.4 Wasteway, PE 46A Wasteway and county road relocation Block 19, Potholes E, Canal Laterals, Columbia Basin Project, near Ringold, Franklin County, Wash. (Spec. U. DC-4571). LOW BID: A. C. Warner and Tauf Charneski, 490 Park Ave., Eugene, $523,655. OTHER BIDS: West Coast Construction Co., 835 W. 48th, Seattle, $547,360; Donald M. Drake, 1600 N.W. Savier St., Portland, $553,411. Government estimate $655,262.
MG 1-18. Previous report 12-31

●WATER SYSTEM EXTENSIONS— Ephrata, Wash.

Bids to be opened 8 p. m., February 15, by City Council, Dorothy McKinnon, city clerk, City Hall, Ephrata, for water system extensions. Plans and specifications with Gray & Osborne, consulting engineers, 228 S. 2nd St., Yakima. $25 deposit.

Project involves pumping station and transmission mains.
IG 1-18. Previous report 12-24

▲FENCING, BACKSTOPS— Everett, Wash.

Bids received January 9 by Everett School District No. 2, O. N. Johnson, secretary, Auditorium Bldg., Everett, for construction of softball backstops and fencing materials. Basic bids are for 8' fence. LOW BID: Anchor Post Fence Division, 4502 14th N.W., $5,603, with additional $84 for 10' fence. 2ND LOW: Cyclone Fence Division of American Steel, 1150 Fairview N., $5,706, with $91 for 10'. 3RD LOW: Colorado Fuel & Iron Corp., 3434 2nd S., $5,827, with $93 for 10'. All of Seattle.
HH 1-13. Previous report 12-28

▲TRANSFORMERS— Everett, Wash.

Bids received January 10 by Snohomish County PUD No. 1, P. M. Black, president, 3030 Colby, Everett, for transformers. LOW BID: Wagner Electric Corp., 1918 1st S., Seattle, $54,382 (4-10,000 single phase transformers); $68,798 (1-10,000 3-phase transformer); $58,798 (alt. Item 1). OTHER BIDS: Pensylvania Transformer Co., 2307 5th, Seattle, $55,366, $71,841, $60,076; General Electric Co., 1212 1st S., Seattle, $55,729, $63,304, $60,455; Westinghouse Electric, 1051 1st S., Seattle, $56,721, $71,833, $57,840; Maloney Electric Co., 2603 Western, Seattle, $57,875, $73,880, $62,200; Allis-Chalmers Manufacturing Co., White-Henry-Stuart Bldg., Seattle, $58,757, $75,128, $59,935.
HH-M 1-13. Previous report 12-14

ELECTRIC STREET LIGHTING SYSTEM— Everett, Wash.

Petitions are being circulated in the Pinehurst District to obtain a street lighting system from the Snohomish County PUD No. 1. Cost of the installation would be approximately $14,000 and would include 14 mi. of wire and 60 poles. Petitions are being circulated by the Pinehurst Commercial Club. HH-M 1-17

SEWERAGE SYSTEM— Everett, Wash.

Aproximately $250,000 is now available in the sewer fund, according to George Culmback, commissioner of finance, City Hall, Everett. Engineering surveys underway by John Cunningham & Associates, consulting engineers, Portland Trust Bldg., Portland, on expansion of the city sewerage system. The city now owns sites for the proposed disposal plants. Contemplated are two disposal plants one on Bayside and another on Riverside. Funds on hand would provide start for financing the project. Ultimate cost of entire expansion program would be several million dollars.
DC 1-17. Previous report 12-13

★PUMPS— Everson, Wash.

Award to Everson Implement Co., Everson, $598, by City Council, Willard Edwards, city clerk, City Hall, Everson, for new pumps and motor for Stradwell well, source of town water supply. MB 1-17. Previous report 12-23

★TEST WELLS— Fairchild AFB, Wash.

Award by Corps of Engineers, Seattle District, Colonel N. A. Matthias, District engineer, 4735 E. Marginal Way, Seattle, for the following test wells. Test Well No. F-37 (ENG-45-108-56-84)—AWD: E. A. Holman, S. 601 Pines Road, Opportunity, $5,429. Test Well No. F-07 (ENG-45-108-56-85)—AWD: Spokane Drilling Co., Spokane, $10,216. Test Well No. F-45 (ENG-45-108-56-86)—AWD: E. A. Holman, Opportunity, $10,060. Test Well No. F-87 (ENG-45-108-56-87)—AWD: E. A. Holman, Opportunity, $10,685.
MG 1-14. Previous report 12-9

●REGRADING— Fairchild AFB., Wash.

Bids to be opened 2 p. m., January 23, by Corps of Engineers, Seattle District, Colonel N. A. Matthias, district engineer, 4735 E. Marginal Way, Seattle, for regrading to provide new trenches for 12" fuel line at Fairchild AFB., Wash. (ENG-45-108-56-124). Bid bond 20%. Completion time 30 calendar days for all work except replacing roadway pavement removed during trenching. Completion time 100 calendar days replacing roadway surfaces removed during trenching operations.

The relocated fuel pipe line shall be laid on a bed of coarse sand cushion at least 6" deep, thoroughly compacted to the elevation of the bottom of the pipe. MG 1-18

WATER LINES— Ferndale, Wash.

Plans underway for revamping major water lines in Ferndale, by Martin Nelson, water superintendent, City Hall, Ferndale.

Estimated cost $30,000. Plans call for installation of alternate water lines from the storage tank located in Seamount Addition to the center of town; a second line from Washington Ave. to Cedar St. JD 1-13

FIRE TRUCK— Ferndale, Wash.

The city attorney is now preparing resolution calling for a special millage of 13 mills to be placed on the March 13 general election ballot for a new fire truck. Plans call for expenditures of $13,000. Truck to have modern pump, equipment, and carry between 300 and 375 galls of water. Fire truck is for the City of Ferndale, Paul Matz, clerk, City Hall Ferndale. JD-M 1-17

★FLOOD LIGHTS— Geiger Field, Wash.

Award by U.S. Air Force, C. S. Phelps, procurement officer, Geiger Field, Spokane, for installation of floodlighting around building 745 (IFB 45-614-56-41). AWARD: R. C. Hughes, N. 2105 Airport, Spokane, $1,296. ONLY OTHER BID: Power City Electric Co., N. 920 Howard St., Spokane, $1,449. Engineers estimate $1,470.
CE-M 1-18. Previous report 1-4

BRIDGE— Hoquiam, Wash.

Engineering survey report on condition of the Eighth Street Bridge has been presented to the City Council and Anton Paulson, acting city engineer, City Hall, Hoquiam. The engineering firm who submitted the report, Sitts & Hill, 4910 N. 25th, Tacoma, estimated that cost of reconstructing the bridge would be $115,500.

Recommendations included the following: rebuilding approaches with concrete piles and decking, $65,000; grouting scupper holes in center pier and installing pipe valve, $400; replacing 10 treated piles and caps, $1,900; replace key bolts in lower tracks, $50; installing turnbuckles in upstream truss sag rods, $150; sandblasting and painting structural steel, $10,000; repairing steel members, $5,200; replacing timber strippers and deck with steel beams and metal bridge deck, covering with asphalt, $32,800. The report stated that the steel swing span of the bridge is in relatively good condition. Means are now being considered to finance reconsruction of the bridge. DC 1-13

★STEEL SHEET PILING— Ice Harbor Dam, Wash.

Award by Corps of Engineers, Walla Walla District, County-City Airport, Walla Walla, for 2,100 ton new steel sheet piling with miscellaneous fabricating connections and steel bearing piling for proposed Ice Harbor Dam. AWD: Columbia Geneva Steel Corp., 2345 N.W. Nicolai, Portland, $331,000. Delivery dates from May through September. The steel will be used in making the cofferdam cells. Bids will be opened on the first stage cofferdam February 16 (PCD 1-10). DC 1-18

★DUMPTRUCKS— Lakeview, Wash.

Award to Feenaughty Machinery Co., Inc.,

1028 6th Ave. So., Seattle, $28,436, by Pierce County Commissioners, Jack Sonntag, clerk, Courthouse, Tacoma, for two trucks (Bid No. 1933), for Lakeview shops in Lakeview. DM 1-18. Previous report 12-9

● **BRIDGE— Lester, Wash.**

Bids to be opened 2 p. m., P.S.T., February 2, by the Regional Supply Officer, U. S. Forest Service, 729 N.E. Oregon St. (Box 4137), Portland, for construction of a reinforced concrete and steel bridge approximately two miles east of Lester on the Snoqualmie National Forest. Specifications with regional supply office in Portland and from forest supervisor, 415 Federal Bldg., Seattle.

Quantities: 84 yd. concr. cl. 3; 17,500 lbs. reinf. steel; 49,350 lbs. struct. steel; 224' metal safety rail; 40 yd. loose riprap; removal of existing bridge. MG 1-17

■ **WASTE TREATMENT PLANT, PAVING— Larson AFB., Wash.**

Planholders announced for construction of an industrial waste treatment plant and related paving and utilities at Larson AFB. (ENG-45-164-56-24). Bids to be opened 2:30 p. m., January 26, by Corps of Engineers, Walla Walla District, Colonel Myron E. Page, Jr., district engineer, Bldg. 602, City-County Airport, Walla Walla. Completion time 180 calendar days.

PLANHOLDERS: Schmidt Plumbing and Heating Co., 64 West Ridgeway, Hermiston, Ore.; Soule Steel Co., 4100 W. Marginal Way, Seattle; Atlas Equipment Co., Box 811, Spokane; Grant County Plumbing and Heating Co., Box 1567, Moses Lake; The Burhans-Sharpe Co., 1743 1st Ave. S., Seattle; Fairbanks, Morse & Co., Box 336, Yakima; Tomlinson & Buckmaster, Box 12, Warden; Union Iron Works, Box 2135, Spokane; H. Halvorson, Inc., Box 6, Yardley; Ruud Construction, 602 Realty Bldg., Spokane; Sound Construction and Engineering Co., 1300 Aloha, Seattle; Farnes & Martig, Inc., 5741 N.E. Glisan St., Portland; Process Engineers, Inc., 420 Peninsular Ave., San Mateo, Calif.; Marshall Construction Co., Box 1032, Hermiston, Ore.; Jay Roberts, Inc., 3428 E. 45th St., Seattle; Donald M. Drake Co., 1600 N.W. Savier, Portland; L. B. McKinney Co., 2544 N.E. Union Ave., Portland; Tinling & Powell, E. 706 Sprague, Spokane; Pacific Industrial Engineering, Inc., 830 Security Bldg., Pasadena, Calif.; J. G. Watts Construction Co., 212 Park Bldg., Portland; Cherf Bros. & Sandkay, Box 938, Ephrata; Howard H. Peterson Co., 631 Miller Bldg., Yakima; George Chicha Co., E. 2917 Sharp, Spokane; Lester N. Johnson Co., 1318 N. Fancher, Yardley; L. & S. Construction Co., Inc., Box 1585, Moses Lake; Stolte, Inc., 4444 California St., Seattle; Yager Construction Co., 1st Ave. and A St. S. E., Ephrata; Wayne Construction Co., 3810 Stone Way, Seattle; Blue Mountain Construction Co., 2563 W. Highway 10, Moses Lake; P. S. Lord Mechanical Contractors, 4507 S.E. Milwaukie, Portland; James Smyth Plumbing and Heating, N. 216 Division St., Spokane.

MG 1-18. Previous report 12-30

★**STANDPIPE— Manchester, Wash.**

Award to R. L. Moss, Zenith, $13,410, by Manchester Water District, Earl Dagnie, secretary, Box 152, Port Orchard, for a standpipe. Completion time 120 days.

Furnish a 1,000,000-gallon steel standpipe and appurtenances.

GW 1-13. Previous report 12-13

★**WATER DISTRIBUTION SYSTEM— Manchester, Wash.**

Award to Lario Libri, 3556 Morgan, Seattle, $45,112, by Manchester Water District, Earl Dagnie, secretary, Box 153, Port Orchard, for water distribution system, LID No 3, Steel Pipe. Completion time 120 days.

GW 1-14. Previous report 12-13

★**ELECTRICAL SERVICE— Montesano, Wash.**

Award to Donald W. Close, 2921 13th Ave. S.W., Seattle, $9,320, by School District No. 124, Arthur E. Furnia, district clerk, Montesano, for underground electrical service, including panel board facilities.

MG 1-13. Previous report 1-4

★**ELECTRICAL SERVICE— Montesano, Wash.**

Award to Donald W. Close Co., 2921 13th Ave. S.W., Seatle, $9,020, by School District No. 124, Arthur E. Furnia, district clerk, Montesano, for underground electrical service, including panel board facilities. The new electric service cable will be installed from the PUD pole into the new transformer vault and on into the school building.

DC 1-14. Previous report 1-4

TREATMENT PLANT, OUTFALL SEWER— Oak Harbor, Wash.

Preliminary plans under way by Hill & Ingman, consulting engineers, 1728 E. Madison, Seattle, for construction of a treatment plant and outfall sewer in Oak Harbor on Whidbey Island, for Town of Oak Habor, G. R. Heap, Mayor, Town Hall, Oak Harbor.

GW 1-17

★**GENERATOR— Olympia, Wash.**

Award to (bids received January 9) Fremont Electric Co., 744 N. 34th St., Seattle, $1,222, by Civic Defense Council of Thurston County, Hank Bolender, chairman, county commissioners' room, Courthouse, Olympia, for one 10 kw. standby generator set, fob. Tenino. MG 1-13. Previous report 12-31

★**STATE HIGHWAY PROJECTS— Olympia, Wash.**

Bids to be opened 10 a. m., January 31, by Washington State Highway Commission, W. B. Bugge, director, Transportation Bldg., Olympia, for five construction projects. Plans with the director. $2 deposit. Certified check, cashier's check or or bid bond 5%.

CONWAY JUNCTION - HICKOX ROAD—Clearing, draining, grading, constructing a cement treated base and paving with type I-1 asphaltic concrete on 2.535 miles of PSH No. 1, Skagit County, Conway Junction to Hickox Road, FAP No. BFI-001-5(2) Unit 3.

Quantities: 13.4 acres clearing; 152,255 c.y. com. excav.; 18,500 M c.y. sta. overhaul; 58,230 ton select roadway borrow; 5,130 ton crushed stone surfacing; 13,110 ton CTB aggregate; 3,480 bbl. Portland cement; 111 ton asphalt cement; 605 c.y. crushed cover stone; 7,610 ton asphaltic concrete; 2,328' concrete pipe; 2,334' corrugated metal pipe; 490' iron pipe; 234' beam guard rail.

TAYLOR FLATS ROAD—Draining, grading, surfacing with light bituminous surface treatment on 7.604 mile Franklin County Road, Taylor Flats Road and feeder road 19-18, FAS No. S-1033(3).

Quantities: 25,210 c.y. com. excav.; 49,670 ton crushed stone surfacing; 220 ton asphalt cement; 320' corrugated metal pipe; 378' concrete pipe.

GETCHELL ROAD — Clearing, draining, grading, surfacing, paving with type I-1 asphaltic concrete and constructing a precast concrete bridge on 2.258 mile of Getchell Road, Snohomish County, FAS No. S-6318(2).

Quantities: 21,740 c.y. com. excav.; 13,950 c.y. select roadway borrow; 4,500 c.y. crushed stone surfacing; 4,160 ton asphaltic concrete; 990' concrete pipe; 500' treated timber piling; 3.4 MBM treated timber; 5 precast concrete roadway units; 42' steel bridge rail.

JUNCTION PSH No. 5—Draining, grading, surfacing paving with unfinished cement concrete and type I-1 asphaltic concrete and installing an illumination system on 1.346 mile of PSH No. 1, King County, Junction PSH No. 5 vicinity and Junction SSH No. 1-L vicinity, a state project.

Quantities: 4,120 c.y. uncl. excav.; 1,310 c.y. select roadway borrow; 2,600 c.y. crushed stone surfacing; 38 ton asphalt cement; 1,913 ton asphaltic concrete; 5,055 sq. yd. unfinished cement concrete pavement; 655' precast traffic curb; 14,628' extruded traffic curb; 1,580' concrete pipe.

WALNUT STREET—Install an illumination system on PSH No. 1, Snohomish Country, Walnut Street interchange, a state project. DM 1-13

▲**STATE HIGHWAY PROJECTS— Olympia, Wash.**

Bids received January 17 by Washington State Highway Commission, W. A. Bugge, director, Transportation Bldg., Olympia, on four highway projects.

PSH. No. 9 INTERCHANGE—Two reinforced concrete box girder bridges on 0.022 mi. of Primary State Highway No. 1, Thurston County, FAP. No. BIN-001-2(35) Unit 1.

LOW BID: John E. Alexander, Box 3343, Seattle, $272,317. 2ND LOW: N. Fiorito Co., 844 W. 48th, Seattle, $275,224. 3RD LOW: Anderson Bridge Construction Co., 4130 S. Adams, Tacoma, $272,548.

FLORA ROAD, BARKER ROAD UNDERCROSSING—Draining, grading, surfacing, paving with type I-1 asphaltic concrete and constructing two reinforced concrete rigid frame slab bridges on Primary State Highway No. 2 in Spokane County, FAP. No. IN-002-6(20).

LOW BID: Charles A. Powers, 3711 E. Olive, Seattle, $156,331. 2ND LOW: Henry Hagman, Box 1801, Spokane, $157,912. 3RD LOW: E. O. Johnson Co., 1821 E. Sprague, Spokane, $158,039.

McMANAMON ROAD—Draining, grading, surfacing on 4.962 mi. of an Adams County road, FAS. No. S-107(2).

LOW BID: Goodfellow Bros., Inc., Box 1337, Wenatchee, $99,024. ONLY OTHER BID: Carl Hohner, E. 6203 Sharpe Ave., Spokane, $106,057.

PRESTON VICINITY—Stockpiling crushed stone surfacing on State Highways Nos. 2 and 2-D in King County, a state project.

LOW BID: Sjoboen Bros., 3205 Hoarley Road, Olympia, $15,080. 2ND LOW: J. Arlie Bryant, 216 Hutton Bldg., Spokane, $17,500. 3RD LOW: Lige Dickson Co., 3315 S. Pine, Tacoma, $17,600.

DE 1-18. Previous report 1-10

GRADING, DRAINING, PAVING— Othello, Wash.

Preliminary surveys are under way by Gray & Osborne, engineers, 230 S. 2nd St., Yakima, for grading, draining, ballasting and surfacing the streets with asphaltic concrete for City of Othello, City Clerk, City Hall, Othello. IG-M 1-18

★**BLAST PAD, AIRFIELD LIGHTING— Paine AFB, Wash.**

Award to Agutter Electric Co., 5500 14th N.W., Seattle, $22,773 by Corps of Engineers, Seattle District, Colonel N. A. Matthias, district engineer, 4735 E. Marginal Way, Seattle, for blast pad, airfield lighting at Paine AFB (ENG-45-108-56-91).

MG 1-17. Previous report 12-29

WATER SYSTEM, SEWERS—Rainier, Wash.

Survey underway for water system, sewage treatment plant, sewer changes in vicinity of Rainier. Groups interest in the proposed Van Vleet mill project, are sponsoring investigations. Additional water supply would be needed for the proposed plant; and construction of a sewage treatment plant and changes in sewer line system are necessary to meet state demands. Plans on file with City Council for the sewage plant.

DC 1-17

★**LOADING PAD, ROADS— Richland, Wash.**

Award to Hoffman Construction Co., 715 Columbia St., Portland, $22,722, by Atomic Energy Commission, Hanford operations office, Box 550, Richland, for concrete loading pad and roads in one of the plant areas. Completion time 110 days.

Loading pad will be 114'x102' with thickness varying from 6" to 9"; one road will be 225' long and 14' wide; another road will be 250' long and 20' wide. Both resurfaced with asphaltic concrete.

DM 1-13. Previous report 1-6

★**DRILLING WELLS— Richland, Wash.**

Award to R. J. Strasser Drilling Co., 8110 S.E. Sunset Lane, Portland, $50,665, by Atomic Energy Commission, Hanford Operations Office, Box 550, Richland, for drilling 27 wells in three plant areas on Hanford Project. DM 1-18. Previous report 1-12

BULK CARGO LOADER— Seattle, Wash.

Preliminary plans under way by Port of Seattle, M. J. Weber, secretary, 406 Bell St. Terminal, Pier 66, Seattle, for construction

of a new bulk loader, tentatively planned for a site near Ames Terminal, West Waterway, Seattle.

This loader will discharge coal, fertilizer, ore and other cargoes from freighters' holds. It can also put cargo aboard ships. GW 1-13

●SURFACING— Seattle, Wash.

Bids to be opened 9:30 a.m., January 30, by King County Commissioners, D. L. Evans, county road engineer, at 402 County-City Bldg., Seattle, for clearing, grading, draining, crushed stone surfacing .57 mile of S.W. 150th St. (Ambaum Blvd. at 1st Ave. S.) in Burien, King County. Plans with engineer's office, 905 County-City Bldg. $10 deposit. Certified check, cashier's check or bid bond 5%.

Quantities: 12,530 c.y. com. excav.; 354 c.y. struct. excav.; 50 c.y. trench excav.; 20 c.y. gravel backfill; 1,900 c.y. select roadway borrow; 1,000 c.y. crushed stone surfacing pipe; 279', 18" concrete culvert pipe; 158', 18" standard reinforced concrete culvert top course; 1,200 c.y. same base course; 759', 12" concrete culvert pipe; 42', 12" standard reinforced concrete culvert pipe; 51', relay 12" standard reinforced concrete culvert pipe; 12', 24" standard reinforced concrete culvert pipe; adjust 3 catch basins; 2 standard concrete catch basins; 29 sq. yd.; remove existing concrete walks or driveways. DC 1-13

LATERAL SEWERS— Seattle, Wash.

Preliminary plans under way by Hill & Ingman, consulting engineers, 1728 E. Madison, Seattle, for the constuction of lateral sewers for Lake City Sewer District, Claude D. Webster, secretary, 3200 E. 125th, Seattle. GW 1-14

●SAFETY GATES— Seattle, Wash.

Bids to be opened 10 a.m., February 2, by City Council, Paul R. Hendricks, purchasing agent for the furnishing of three safety gates, standard commercial design. Specifications with purchasing department. GW 1-14

●GATE FRAMES, ANCHORAGES— Seattle, Wash.

Bids to be opened 10 a.m., January 31, by City Council, Paul R. Hendricks, purchasing agent, room 511, County-City Bldg., Seattle, for the furnishing of gate frames and anchorages, and stoplog frames and anchorages for outlet works at Gorge High Dam (Spec. No. 1392).

Specifications with city purchasing agent. GW 1-14

●FIXED WHEEL GATES AND FRAME— Seattle, Wash.

Bids to be opened 10 a.m., January 31, by City Council, Paul H. Hendricks, purchasing agent, room 511, County-City Bldg., Seattle, for furnishing a fixed wheel gate and frame for intake structure of Gorge High Dam (Spec. No. 1417). Specifications with purchasing department. GW 1-14

●HOISTS, CONTROLS— Seattle, Wash.

Bids to be opened 10 a.m., February 7, by City Council, Paul R. Hendricks, purchasing agent, room 511, County-City Bldg., Seattle, for hoists, controls and accessories for outlet gates. Specifications with purchasing department.

Furnish two hoists, controls and accessories for outlet gates for Gorge High Dam (Spec. No. 1408). GW 1-14

★PEDESTRIAN UNDERPASSES— Seattle, Wash.

Award to Howard S. Wright Co., Inc., Box 3105, Seattle, $353,000, by Boeing Airplane Co., W. N. Ambur, plant facilities manager, Engineering Bldg., 7752 E. Marginal Way, Seattle, for pedestrian underpasses, one on 16th Ave. S., and two on E. Marginal Way. GW 1-17. Preivous report 12-7

★GRADING— Seattle, Wash.

Award to Fiorito Bros., 1100 Leary Way, Seattle, $159,000, by Boeing Airplane Co., W. N. Ambur, plant facilities manager, Engineering Bldg., 7752 E. Marginal Way, Seattle, for grading approximately 30 acres, bounded by Donovan St., Director St. and the Duwamish River. Plans by Worthington & Skilling, structural engineers, 601 Lloyd Bldg., Seattle.

The award was made on basic proposal No. 1, a balanced cut-and-fill operation at the South Park site, involving approximately 260,000 c.y. of material.

GW 1-17. Previous report 12-10

★FENCING— Seattle, Wash.

Award by (bids received December 22) City Council, Paul R. Hendricks, purchasing agent, room 511, County-City Bldg., Seattle, for furnishing of chain link fencing. AWD: Cyclone Fence Department, American Steel & Wire Division, U. S. Steel Corp., 1150 Fairview Ave. N., Seattle, $1,026. GW 1-17. Previous report 12-21

★WIRE— Seattle, Wash.

Award by (bids received December 6) City Council, Paul R. Hendricks, purchasing agent, room 511, County-City Bldg., Seattle, for 20,000' of wire, 500 MCM single conductor, 600 volt paper insulated, lead covered (Spec. No. 1155). AWD: Bean Electric Co., 924 1st Ave. S., Seattle, $31,626. GW 1-17. Previous report 11-16

★CAPACITOR BANKS— Seattle, Wash.

Award by (bids received December 22) City Council, Paul R. Hendricks, purchasing agent, room 511, County-City Bldg., Seattle, for outdoor stack type capacitor banks (Spec. No. 1407). AWD: General Electric Apparatus Sales Division, Dexter Horton Bldg., Seattle, $295,400.

Furnish two outdoor stack type capacitor banks, 39,000 kvar, 115 kv, 3-phase. GW 1-17. Preivous report 12-10

★CABLE— Seattle, Wash.

Award by (bids received December 29) City Council, Paul R. Hendricks, purchasing agent, room 511, County-City Bldg., Seattle, for furnishing of 550' of submarine cable. AWD: Graybar Electric Co., Occidental and King Sts., Seattle, $1,893. GW 1-17. Previous report 12-15

★VALVES— Seattle, Wash.

Award by (bids received December 28) City Council, Paul R. Hendricks, purchasing agent, room 511, County-City Bldg., Seattle, for the furnishing of gate valves. AWD: Rensselaer Valve Co., 1252 1st Ave. S., Seattle, $4,520, three gate valves, 24". GW 1-17. Previous report 12-10

▲ACOUSTICAL TILE— Seattle, Wash.

Bids received January 17 by Paul Hendricks, city purchasing agent, 511 County-City Bldg., Seattle, for furnishing 5,000 pieces of Celotex acoustical tile, 12"x12"x 1¼". LOW BID: Wabco, Inc., 308 Republican, Seattle, $13,984. OTHER BIDS: Pioneer Sand & Gravel Co., 901 Fairview North, Seattle, $14,065; Noise Control of Seattle, Inc., 1109 N. 35th, Seattle, $15,010; Elliott Bay Lumber Co., 600 W. Spokane, $15,060; Brewer Co., 114 Virginia St., Seattle, $15,060. MG 1-18. Previous report 1-13

▲CEDAR POSTS— Seattle, Wash.

Bids received January 17 by City Council, Paul R. Hendricks, purchasing agent, room 511, County-City Bldg., Seattle, for the furnishing of cedar posts. LOW BID: Lockwood Lumber Co., 2823 Western, Seattle, $10,020. ONLY OTHER BID: Neidermeyer-Martin Lumber Co., Portland Trust Bldg., Portland, $18,000. MG 1-18. Previous report 1-11

★BUS GARAGE— Snohomish, Wash.

Award by (bids received January 12) School District 200, G. A. Moore, superintendent, High School Bldg., Snohomish, for four-stall single unit addition to high school bus garage. AWARD: Venne Beauchamp, 4000 Broadway, Everett, $7,108. OTHER BIDS: Roy Rudd, 834 Grand Ave., Everett, $7,190; Sanford Wright, 302 Clark Bldg., Everett, $7,431; Broughton Construction, Sultan, $8,350. HH-M 1-17. Previous report 12-22

▲CLEARING, ACCESS ROADS— Sultan-Covington, Wash.

Bids opened January 16 by Bonneville Power Administration, L. C. Stewart, procurement officer, 1001 N.E. Lloyd Blvd., Portland, for clearing right-of-way and constructing of access roads for about 27 miles for Schedule 1 and 2 of Sultan-Covington section of Chief Joseph-Covington 345 kv. transmission line, Snohomish and King Counties, Wash. (Inv. No. 7852). SCHEDULE I—LOW BID: Washington Utilities Construction Co., 2904 S. Alaska, Tacoma, $306,889. OTHER BIDS: F. H. Jarnagin Co., P. O. Box 11, Port Angeles, Wash., $333,452; The Helmick Co., Seattle, $333,858; Murray Bros. Construction Co., Box 191, Bend, Ore., $358,319; C.S.Z. Construction Co., P. O. Box 719, Everett, $366,478; F. E. Wilder, Route 11, Box 147, Olympia, $383,376; Russell Oliver, P. O. Box 104, Colburn, Idaho, $424,423; P. J. Anderson & Sons, 13501 Aurora Ave., Seattle, $587,120. SCHEDULE II—LOW BID: Murray Bros. Construction Co., $122,197. OTHER BIDS: Bergman & Sons, 708 N. 35th St., Seattle, $126,497; Russell J. Boe, 9785 Empire Way, Seattle, and Lee Shelton, 132 104th S.E., Bellevue, Wash. (joint venture), $128,434; F. H. Jarnagin, $137,183; Russell Oliver, $150,244; Washington Utilities Construction Co., $152,300; F. E. Wilder, $154,472; C.S.Z. Construction Co., $188,409; The Helmick Co., $192,906; P. J. Anderson & Sons, $285,144. WB 1-18. Previous report 1-13

●WATER PIPE— Sunnyside, Wash.

Bids to be opened February 6 by City Council, George Hubbert, city manager, City Hall, for 2,400' asbestos-cement fiber pipe to replace rotted sections of wood pipe on irrigation mains. DC 1-18

●STREET LIGHTING POLES— Tacoma, Wash.

Bids to be opened 11 a.m., January 23, by Board of Contracts and Awards, Frank H. Backstrom, chairman, room 404, City Hall, Tacoma, for galvanized steel or prestressed concrete street lighting strain poles with modifications and fittings. Plans on file with the board. Certified check 5%. DC 1-13

★TRUCK— Tacoma, Wash.

Award to International Harvester Co., 102 Puyallup Ave., Tacoma, $2,849, by Pierce County Commissioner, Jack Sonntag, clerk, Courthouse, Tacoma, for a gasoline powered motor truck, cab and chassis (Bid No. 1994) for body shop. MG 1-13. Previous report 12-9

★CANAL LATERALS— Warden, Wash.

Award to (bids received December 6) Stidham Construction Co., 48 "D" St., Ephrata, $4,084, by Bureau of Reclamation, P. R. Nalder, project manager, Box 368, Ephrata, for supplemental construction of East Low Canal laterals, Block 44.

Work includes altering reinforced concrete division box structure and construction of a farm weir structure at laterals EL 63, 1, Station 2497+27 and EL 63.1, Station 262+28; construct valve turnout from pump discharge, county road crossing and division box structures complete on lateral EL 61.7 pump discharge pipe line at Station 8+76; c.y. additonal unreinforced concrete in cut-off wall extensions. MG 1-13. Previous report 10-28

●SEWERS— Yakima, Wash.

Bids to be opened 10 a.m., January 23, by City Council, Grant Huey, commissioner of Public Works, City Hall, Yakima, for the installation of pipe sewer system for the Englewood Park Addition. Plans with A. B. Collins, city engineer, City Hall, Yakima. Certified check, cashier's check or bid bond 5%.

Quantities: 1412' of 12" concrete irrigation pipe sewer; 4598' of 16" concrete irrigation pipe sewer; 23 standard manholes; altering existing flush tank on Bitterroot Way; miscellaneous wyes and branches; repairing 188' gravelled driveways; 148' replacing bituminous pavement. IG-G 1-17

★ROAD MATERIALS— Yakima, Wash.

Award to (bids received January 9) Yaki-

All  eyes

are on PACIFIC CONSTRUCTION DAILY for ADVANCE NEWS of the CONSTRUCTION INDUSTRY

QUICK, ACCURATE CONSTRUCTION REPORTS

- Contemplated Projects
- Low Bidders
- Contract Awards
- Closing Dates
- Planholders

New construction projects at your finger tips every morning

Blanketing . . .

OREGON - WASHINGTON
IDAHO - MONTANA - UTAH
WYOMING and ALASKA

SEND FOR YOUR SAMPLE COPY NOW

PACIFIC CONSTRUCTION DAILY

2418 3rd Ave. Seattle 1, Wash.
MAin 0285

ma Cement Products Co., 1202 S. 1st St., Yakima, $9,281, by City Council, Grant Huey, commissioner of public works, City Hall, Yakima, for purchase of road materials for street department.
IG-M 1-18. Previous report 12-28

SUBSTATIONS— Yakima, Wash.

Construction has been started by Pacific Power and Light Co., L. W. Dick, manager, 7. N. 3rd St., Yakima, on increasing to 15,000 kva and 115,000 volts the substation at Toppenish. Work will be started at Sunnyside and Wapato substations in early spring with same increase in voltage. IG 1-18

SUBSTATION— Yakima, Wash.

Construction will be started soon by Pacific Power and Light Co., L. W. Dick, manager, 7. N. 3rd St., Yakima, for a new major substation near Pumpkin Center north of Granger, Yakima County.

Involves transformer, power switches, steel towers, oil circuit breakers, 7500 kva transformer switch gear. IG 1-18

IDAHO

●MOTOR CONTROL ASSEMBLY— American Falls, Idaho

Bids to be opened 2 p. m., February 23, by Bureau of Reclamation, L. N. McClellan, chief engineer, Bldg. 53, Denver Federal Center, Denver, Colo., for furnishing and delivering fob. cars at the shipping point or fob. cars, one 2,400-volt metal-enclosed, indoor type, motor control assembly for American Falls Pumping Plant, Michaud Flats Project, Idaho (Inv. No. DS-4608). MG 1-17

★TRANSFORMER— Idaho Falls, Idaho

Award to Pennsylvania Transformer Co., Canonsburg, Pa., $72,293, 100-day delivery time, by Atomic Energy Commission, Idaho Operations Office, Idaho Falls, for furnishing a 7,500 kva transformer for the National Reactor Testing Station. Apparent low bid had been Legnano Electric Corp., New York, $69,965, but the 360-day delivery time was not acceptable. The second low bid by Westinghouse Electric Corp., $71,868, was ruled out because of an indefinite delivery date. DM 1-13. Previous report 12-20

MONTANA

WATER MAIN— Billings, Mont.

The Yellowstone County Commissioners have created RSID No. 319, for installing 920' of 6" cast iron water main along Yellowstone Ave. from 22nd St. W., extending westward. Estimated cost of project $4,150.
EE-M 1-14. Previous report 1-4

BLACKTOPPING— Billings, Mont.

Yellowstone County Commissioners, Courthouse, Billings, have created RSID No. 320, for blacktopping all of MacArthur Ave. and Marshall Ave. from U. S. Highway 10 to Berg Ave.; installing concrete apron across Marshall Drive to drain surface water along MacArthur Ave.; grading Marshall Drive for drainage; install ornamental street lights along all of MacArthur Drive, and on Marshall Drive from U. S. Highway 10 to Berg Ave. Estimated cost of project $12,582.
EE-M 1-14. Previous report 1-4

●GRAVELING— Billings, Mont.

Bids to be opened 2 p. m., January 26, by U. S. Indian Service, P. J. Van Alstyne, area road engineer, 802 N. 29th, Billings, for grading, graveling and draining 6.8 mi. of the Ashland-North road on the Northern Cheyenne Indian Rserevation, Rosebud County. Bids were opened and rejected on this project September 28.
EE-G 1-17. Previous report 10-1

★WATER MAINS— Billings, Mont.

Award by (bids received January 10) Yellowstone County Commissioners, L. R. Sampson, county surveyor, Courthouse, Billings, for installation water mains in RSID No. 314. AWARD: Walter J. Hoven, 1016 Vaughn Lane, Billings, $14,020. ONLY OTHER BID: Barry O'Leary, Inc., 215 N. 16th St., Billings, $14,490.
EE-M 1-17. Previous report 12-28

●WATER MAINS— Billings, Mont.

Bids to be opened 11 a. m., February 6, by Yellowstone County Commissioners, Courthouse, Billings, in two rural special improvement districts. Plans and specifications may be obtained from Sage Engineers and Land Planners, Inc., 1010 Poly Drive, Billings. Bid bond 10% or certified cashier's check.

Project includes installing 998' of 14" cast iron water mains, with necessary valves and fittings, west from existing main on Colton Blvd. to Rehberg Lane. Estimated cost $5,753. Installing 2,665, of 14" cast iron water main along Colton Blvd., at estimated cost of $14,808.
EE-M 1-18

★WATER SUPPLY AND DISTRIBUTION SYSTEM— Browning, Mont.

Award to O'Conner Construction Co., Route 1, Columbia Falls, $104,630, by Town Council, William Thatch, town clerk, Town Hall, Browning, for construction of a new well three miles west of the city, a new pipeline and laying of pipe to areas not presently serviced. Bids were opened January 5 on a water supply and distribution system for the town. The low bidder on construction of a 500,000-gallon steel storage tank was Pittsburgh-Des Moines Steel Co. Award has been held pending financial arrangements.

Plans by Wenzel & Miller, consulting engineers, 41 Meadowlake Drive, Great Falls. Project involves well and infiltration pipe; installation of cast iron pipe; control vault; foundations for standpipe and chlorinator house; steel standpipe; other appurtenant work. DM 1-14. Previous report 12-28

FIRING-IN BUTT, TAXIWAY— Great Falls, Mont.

Bids to be opened about 2 p.m., February 21 by Corps of Engineers, Walla Walla District, Colonel Myron E. Page, district engineer, Bldg. 602., City-County Airport, Walla Walla, for construction of firing-in butt and taxiway, Malmstrom AFB, Cascade County, Great Falls (ENG-45-164-56-27). Completion time 210 calendar days. MG 1-17

★CHURCH— Medicine Lake, Mont.

Award to Boundary Construction Co., Plentywood, Mont., $40,173, by Union Congregational Church, Ralph Dixon, paster, Medicine Lake. Plans by Vernon Drake, architect, Empire Bldg., Billings. At time of bid opening the church decided to negotiate with the low bidder and reduce costs by eliminating some features. It has now been decided to keep the original plans and raise additional funds.
EE 1-18. Previous report 12-16

WYOMING

★STATE HIGHWAY PROJECTS— Cheyenne, Wyo.

Awards by Wyoming State Highway Commission, State Office Bldg., Cheyenne, on projects on which bids were opened January 12.

CASPER - GLENROCK ROAD — Grading, draining, base course surfacing, plantmix base course, plantmix surface course, sand gravel seal coat, three bridges over Elk Horn Creek, each consisting of four-continuous reinforced concrete slab spans, three reinforced concrete culverts and miscellaneous work on 5.268 miles of Casper-Glenrock road, in Natrona County FAP No. FI-89(8).

AWD: Northwestern Engineering Co., Denver, Colo., $568,751. 2ND LOW: Western Paving and Construction Co., Denver, $570,095. 3RD LOW: C. L. Hubner Co., Denver, $581,036.

EVANSTON - SOUTH BEND — Grading, draining, base course surfacing, oil treatment by roadmix method, sand gravel seal

coat, one three-continuous WF girder span bridge over Bear River, miscellaneous work on 6.512 miles of Evanston-South Road in Uintah County FASP No. S-36(4).

AWD: F. R. Knowlton & Son, Layton, Utah, $100,449. 2ND LOW: Carruth & Son, Inc., Evanston, Wyo., $127,608. 3RD LOW: Inland Construction Co., Omaha, Neb., $133,438.

SUSSEX-LINCH ROAD—Grading contract. Grading, draining, base course surfacing, surface treatment (inverted penetration) and miscellaneous work on 5.549 miles of Sussex-Linch Road in Johnson County. FASP No. S-96(1), Grading.

AWD: Boatright-Smith, Rawlins, Wyo., $168,736. 2ND LOW: Big Horn Construction Co., Sheridan, Wyo., $171,344. 3RD LOW: Lichty Construction Co., Casper, Wyo., $174,519.

SUSSEX-LINCH ROAD—Structure contract. One reinforced concrete culvert, one four-continuous reinforced concrete slab span bridge over Coal Creek, one five-continuous reinforced concrete slab span bridge over Carpenter Creek, miscellaneous work on 5.549 miles of Sussex-Linch Road in Johnson County. FASP No. S-96(1), Structure.

AWD: Husman Bros., Inc., Sheridan, Wyo., $62,000. 2ND LOW: N. A. Nelson Construction Co., Sheridan, $71,908. 3RD LOW: Charles M. Smith, Thermopolis, Wyo., $72,584.

MOREHEAD ROAD—Selected material, miscellaneous work on 5.240 miles of Morehead Road in Johnson County. State Project No. SC-CFM 4184.

AWD: Leonard C. Matheson, Gillette, Wyo., $10,776. 2ND LOW: Alfred E. Matheson, Sheridan, $11,025. 3RD LOW: O. W. Lasher, Buffalo, Wyo., $12,915.

WALCOTT—Construction of one cattleguard and standard right of way fence near Saratoga on the Walcott-Saratoga Road in Carbon County. State Project No. 4213.

AWD: Leonard C. Matheson, Gillette, $6,696. ONLY OTHER BID: Cheyenne Constructors, Inc., Cheyenne, $9,100.

STOCKPILING—Crushing and stockpiling crushed gravel surfacing, ¾" max., at various locations in Big Horn and Park Counties. Special State Maintenance Project No. 4218.

AWD: Algred E. Matheson, Sheridan, $26,249. 2ND LOW: Gilpatrick Construction Co., Riverton, Wyo., $27,870. 3RD LOW: W. E. Barling, Inc., Meeteetse, Wyo., $28,142.

STOCKPILING — Crushing, stockpiling crushed gravel surfacing, ⅜" max., at various location in Fremont County. Special State Maintenance Project No. 4219.

AWD: Gilpatrick Construction Co., Riverton, Wyo., $9,400. 2ND LOW: Larsen-Meyer Construction Co., Worland, Wyo., $11,300. 3RD LOW: Don Van Deburg, Jackson, Wyo., $13,300.

STOCKPILING—Crushing and stockpiling crushed gravel surfacing 5.8" max. at various locations in Albany, Goshen, Laramie, Niobrara and Platte Counties. Special State Maintenance Project No. 4240.

AWD: J. A. McPherson & Co., Laramie, $39,265. 2ND LOW: D. W. Hopkins, Wheatland, $40,330. 3RD LOW: Read Construction Co., Cheyenne, $44,612.

TK 1-17. Previous report 1-5

●CRANE— Glendo, Wyo.

Bids to be opened 2 p.m., M.S.T., February 21, by Bureau of Reclamation, L. N. McClellan, chief engineer, Bldg. 53, Denver Federal Center, Denver, Colo., for Glendo Power plant, Glendo Unit, Oregon Trail Division, Missouri River Basin Project, Wyo. (Inv. No. DS-4606).

Furnish one, 100-ton single trolley motor operated traveling crane, delivery fob. cars at shipping point or fob. cars at Glendo Power Plant. GW 1-13

WATER LINE— Jackson, Wyo.

Bids to be called late January or February for installation of new water supply line in Jackson, Wyo., by C. C. Cummins, town clerk, Town Hall, Jackson. Plans are being prepared by Wendell H. Smith, engineer, Preston, Idaho. Estimated cost of project $90,000. MG 1-13. Previous report 12-3

●SEWERS, PAVING— Rawlins, Wyo.

Bids will be opened 8 p.m., January 24 by City Council on storm sewers, curbs, gutters. Plans and specifications with J. T. Banner & Associates, engineers, Garlett Bldg., Laramie. $25 deposit. Bid bond 10%.

Quantities: 47,000' of 12" to 54" storm sewers with appurtenant structures; 15,000 c.y. of street grading; 49,000' of curb and gutter; 15,000 ton crushed gravel base course; 25,000 gallon of M.C. price; 4,500 gallon asphalt (85-100 penetration) for plantmix surfacing; 6,500 ton plantmix surfacing; 20,000 gallon R-C seal; 950 ton stone chips. LY 1-17

UTAH

WATER LINES— Ogden, Utah

Award will not be made for the construction of water distribution lines, Section 3 West, until 40 days after bid opening which was held on January 4, by Weber basin Water Conservancy District, E. J. Fjeldsted, manager, at the district offices, 506 Kiesel Bldg., Ogden. Plans by Templeton & Linke, consulting engineers, 500 Dooly Bldg., Salt Lake City. The low bid was Enoch Smith Sons' Co., 1441 Beck St., Salt Lake City, $511,227. GW 1-12. Previous report 1-10

▲WATER PURIFICATION PLANT No. 2— Ogden, Uah

Bids received January 10 by Weber Basin Water Conservancy District in the Ogden council meeting room, 6th floor, Municipal Bldg., Ogden, for water purification plant No. 2. LOW BID: R. W. Coleman, 3370 Washington Blvd., Ogden, $416,662. OTHER BIDS: Kloepfer Construction Co., 900 E. Center St., Logan, $429,306; Waterfall Construction Co., 1685 Wall Ave., Ogden, $442,810; Wheelwright Construction Co., Box 109, Ogden, $456,513; Enoch Smith & Sons Co., 1441 Beck St., Salt Lake City, $453,028; Hansen-Niederhauser, Inc., 1492 Major St., Salt Lake City, $459,285; Hilton & Carr Construction Co., 922 12th St., Ogden, $479,764; M. Morrin & Son, 251 22nd St., Ogden, $484,627; N. P. Van Valkenburgh, South Gate, Calif., $490,390; Wright Engineering and Construction Co., 51 E. 3900 S. Murray, $491,629.

GH-M 1-18. Previous report 12-31

HIGHWAY— Salt Lake City, Utah

Conversion of 7th E St. into a six-lane arterial highway was approved by the Salt Lake City Commission on recommendation of Roy W. McLeese, city engineer. Approval of the conversion followed a discussion by city officials and the Utah State Road Commission. The city will deed city-owned property lying in the proposed roadway improvement, to the state without cost, with the understanding that the Road Commission will bear the cost of construction of rights-of-way to be obtained on the proposed route. The city will also cooperate with the Road Commission in developing the state highway design of 9th E. from 21st S. to the south city limits when the project is presented to the state legislature. DC 1-13

ALASKA

●MILITARY FACILITIES— Elmendorf AFB, Alaska

Bids to be opened 11 a.m., February 3, A.S.T., by Corps of Engineers, Alaska District, Colonel Carl Y. Farrell, district engineer, Bldg. D-E, Anchorage, for construction of runway and taxiway extensions, multiple outlet hydrant system, hardstands and truck fill stand at Elmendorf AFB (ENG-95-507-56-31). This is readvertisement of Inv. No. 56-1 and new plans and specifications will be issued. Completion time September 1, 1957. Bid bond 20%.

MG 1-17. Previous report 12-29

●INSTALLING GENERATOR SET— Elmendorf AFB., Alaska

Bids to be opened 4 p.m., February 2, by Corps of Engineers, Alaska District, Colonel Carl Y. Farrell, district engineer, room 10, Bldg. D-E, Anchorage, for installing an emergency generator set, furnished by the government, in the communications and telephone building No. 5-900 at Elmendorf AFB. Specifications also may be obtained from the purchasing and requistion section, room 10, District Engineer Building, Elmendorf AFB. Completion time 45 calendar days. MG 1-17

★AIRFIELD LIGHTING— Fort Richardson, Alaska

Award to Peninsula Electric Co., Box 964, Anchorage, $13,740, by Corps of Engineers, purchasing and contracting section, Bryant Army Field, room 2200, APO 949, Seattle, for airfield lighting at Bryant Army Airfield, Fort Richardson.

DM 1-18. Previous report 1-6

★TEST WELL— Fort Richardson, Alaska

Award to Layne Drilling Co., Anchorage, $21,250, by Corps of Engineers, Alaska District, Colonel Carl Y. Farrell, district engineer, D-E Bldg., Anchorage, for test well (ENG-95-507-56-36) at Fort Richardson. This project was a readvertisement of ENG-95-507-56-19. DM 1-18. Previous report 12-29

CONTRACTS PENDING

BUILDING PROJECTS

Bids Must Be In	Date Printed in Pacific Construction Daily

OREGON

Jan	23—Clackamas—Repair Roofs	1-12
Jan	23—Corvallis—Paint Armory	1-12
Jan	23—Eugene—Installation of Brick	1-7
Jan	23—Eugene—Schl Addn	1-10
Jan	23—Portland—Steel Room	1-4
Jan	24—Lebanon—Paint Armory	1-12
Jan	24—Portland—Admission Hall, Clinic	1-11
Jan	24—Coos Bay—Repair Armory	1-4
Jan	24—Salem—Boiler House	1-14
Jan	25—Klamath Falls—Armory	12-31
Jan	26—Forest Grove—Safeway Store	1-17
Jan	26—Hermiston—Safeway Store	1-17
Jan	26—Moro—High School	1-6
Jan	26—Salem—Hospital Addition	1-18
Jan	27—Hines—Office, Warehouse	12-30
Jan	27—Klamath Falls—Stock Sales Arena	1-7
Jan	30—Klamath Falls—Housing, Shops, Rehabilitation	1-10
Feb	1—Seaside—Telephone Bldg	1-17
Feb	2—Eugene—Church	1-19
Feb	7—Portland—High School	1-14
Feb	8—Burns—Flooring	1-13
Feb	8—Portland—Cafeteria Alterations	1-12
Feb	8—Portland—Gym, Auditorium Equipment	1-12
Mar	1—Medford—Skiing Facilities	12-31

WASHINGTON

Jan	24—McChord AFB—Flight Simulator Training Building	12-28
Jan	24—Pasco—Schl	1-4
Jan	24—Seattle—Sprinkling system	1-14
Jan	24—Seattle—Bldg Packaging Center and Warehouse, Electrical	1-12
Jan	24—Spokane—Church	1-13

Jan 24—Yakima—Bleacher Seats 12-20
Jan 25—Arlington—School 12-31
Jan 25—Taholah—School 12-30
Jan 25—Tacoma—Bldg Repairs 1-6
Jan 26—Bremerton—School 12-28
Jan 26—Cusick—School Addn 12-24
Jan 26—Larson AFB—Elem Schl 12-3
Jan 26—Larson AFB—Schl Addn 12-3
Jan 26—McChord AFB—Doors 1-18
Jan 27—Walla Walla—Library 1-5
Jan 30—Colville—Flooring 1-5
Jan 30—Seattle—Church Addn 1-12
Jan 31—Bremerton—Church Addition 1-12
Jan 31—LaConner—School Addition 1-13
Jan 31—Tacoma—School 1-18
Jan 31—Tenino—Schl Addn 12-28
Jan 31—Yakima—School 1-6
Feb 1—Bellingham—Church 1-12
Feb 1—Geiger Field—Boiler Installation 1-6
Feb 1—Spokane—Commercial Bldg 1-12
Feb 2—Packwood—Hardwood Floor 1-10
Feb 7—Oakesdale—School Addn 1-7
Feb 7—Tacoma—Heating System 1-18
Feb 7—Toppenish—Swimming Pool 1-14
Feb 9—Fairchild AFB—Military Building 1-14
Feb 14—Tacoma—County-City Bldg 1-4

IDAHO

Jan 23—Lewiston—City Hall Alterations 1-12
Jan 24—Mountain Home AFB—Military Buildings 12-23
Jan 25—Idaho Falls—Painting Building 1-10
Jan 26—Mountain Home AFB—Military Buildings 12-30
Jan 26—Twin Falls—School 12-22
Feb 2—Boise—Metal Partitions 1-7
Feb 8—Post Falls—High School 1-18
Feb 9—Twin Falls—Schl Addn 12-22
Feb 9—Twin Falls—School Addition 1-14

MONTANA

Jan 24—Great Falls—Exchange Sales Store 12-29
Jan 25—Great Falls—Communications Bldg 12-24
Jan 27—Great Falls—Military Bldgs 12-30
Jan 31—Missoula—Hotel Addition 1-18
Feb 1—Wolf Point—Church and Parish House 1-18
Feb 12—White Sulphur Springs—Schl 1-12
Feb 15—Glasgow AFB—Military Buildings 1-14

WYOMING

Jan 23—Cheyenne—School Addition 12-29
Jan 31—Casper—Floor Repairs 1-18
Feb 6—Lander—Infirmary and Dorm 12-10

UTAH

Jan 24—Hill AFB—Apron Parking 1-5
Jan 31—Ogden—College Shop 12-20
Jan 31—Ogden—Educational Bldg 1-7
Feb 15—Fort Douglas—Five-Unit Armory 1-14

ALASKA

Jan 25—Alaska—Military Buildings 12-30
Jan 25—College—Boiler and Stoker 12-16
Jan 25—College—Power Plant Addition 12-20
Jan 31—Big Delta—Military Facility 1-14
Jan 31—Fort Greely—Military Building 1-7
Jan 31—Middleton Island—Military Building 1-6
Mar 1—Kodiak—Communications Bldg 1-14

ENGINEERING PROJECTS

Bids Must Be In — Date Printed in Pacific Construction Daily

OREGON

Jan 23—Portland—Transformer Transfer 1-7
Jan 23—Portland—Conductor Hardware Luminaires 1-7
Jan 23—Salem—Concrete Pipe and Drain Tile 1-6
Jan 23—Salem—Precast Concrete Deck Panels 1-7
Jan 24—Portland—Guard Rail 1-7
Jan 24—Portland—Grading, Surfacing 1-12
Jan 24—Portland—Fence Additions 1-11
Jan 24—Portland—Control Equipment 1-7
Jan 24—Portland—Lumber 1-14
Jan 25—Albany—Sewers 1-18
Jan 25—Hermiston—Sewers 12-31
Jan 26—Burns—Antenna Pole Facility 1-13
Jan 26—Oakridge—Lumber 1-18
Jan 26—Portland—Lumber 1-12
Jan 26—Portland—Substation 1-18
Jan 26—Portland—Grading, Surfacing 1-13
Jan 26—Portland—State Highway Projects 1-17
Jan 27—Portland—State Highway Projects 1-17
Jan 27—Woodburn—Painting Tank 1-18
Jan 30—Portland—Portable Engine-Generator Set 1-6
Jan 31—Portland—Rock Base, Surf 1-18
Jan 31—Portland—Plywood 1-14
Feb 2—The Dalles Dam—Oil Purifier 11-25
Feb 3—Portland—Slope Protection Facilities 1-10
Feb 8—Winchester Bay—Dredging 1-12
Feb 10—Charleston—Breakwater, Dredging 1-17
Feb 13—Condon—Replace Bank Transformer 1-18
Feb 14—Detroit Dam—Repair of Regulating Outlets 1-12
Feb 28—Madras—Haystack Dam 1-18
Mar 1—Portland—Interstate Bridge 1-14

WASHINGTON

Jan 23—Bellingham—Gravel Pit Equipment 1-18
Jan 23—Bellingham—Vehicles 1-18
Jan 23—Everett—Diesel Tractor 1-11
Jan 23—Fairchild AFB—Fuel Line 1-18
Jan 23—Seattle—Storm Sewer 1-6
Jan 23—Tacoma—Street Lighting Poles 1-13
Jan 23—Yakima—Sewers 1-
Jan 24—Bremerton—Asph Pvg 1-
Jan 24—Seattle—Switches 1-
Jan 24—Spokane—Power Switching 1-
Jan 26—Larson AFB—Waste Treatment Plant, Paving 12-
Jan 26—Spokane—Asph Concr Pvg 1-
Jan 26—Spokane—Asph Concr Pvg 1-
Jan 30—Seattle—Surfacing 1-
Jan 31—Ephrata—Stockpiling 1-
Jan 31—Fort Steilacoom—Boiler 1-
Jan 31—Olympia— State Highway Projects 1-
Jan 31—Seattle—Fixed Wheel Gates and Frame 1-
Jan 31—Seattle—Gate Frames, Anchorages 1-
Feb 2—Ephrata—Earthwrok, Structures 12-
Feb 2—Lester—Bridge 1-
Feb 2—Seattle—Safety Gates 1-
Feb 6—Bellevue—Water Pipe 1-
Feb 6—Sunnyside—Water Pipe 1-
Feb 7—Seattle—Hoists, Controls 1-
Feb 9—Vancouver—Water Well 1-
Feb 15—Yakima—Water System Extensions 1-
Feb 16—Ice Harbor—Cofferdam 1-
Feb 23—Ephrata—Earthwork 1-
Feb 28—Coulee Dam—Lubricating System 1-

IDAHO

Jan 23—Minidoka—Power Plant Equipment 12-
Feb 8—Heyburn—Substation 12-
Feb 8—Rupert—Substation 12-
Feb 23—American Falls—Motor Control Assembly 1-

MONTANA

Jan 23—Great Falls—Water Mains 1-
Jan 23—Great Falls—Sanitary Sewers 1-
Jan 26—Billings—Graveling 1-
Feb 1—Havre—Telephone Lines 1-
Feb 6—Billings—Water Mains 1-
Feb 7—Columbia Falls—Power Plant Modifications 1-

WYOMING

Jan 24—Glendo—Generators 1-
Jan 24—Rawlins—Sewers, Paving 1-
Feb 9—Glendo—Pumping Units 1-
Feb 16—Lingle—Switches 1-
Feb 21—Glendo—Crane 1-

UTAH

Jan 30—Clearfield—San Sewer Line 1-

ALASKA

Jan 24—Alaska—Water Wells 1-
Feb 2—Elmendorf AFB—Installing Generator Set 1-
Feb 3—Elmendorf AFB—Military Facilities 1-
Feb 7—Alaska—Dredging 1-

CONTRACT AWARDS ANNOUNCED RECENTLY

OREGON

Ashland—BRANCH BANK. James S. Hickory, Portland, amount not released, by U.S. National Bank of Portland. PCD 1-14

Elk City—WATER SYSTEM. Coast Construction and Excavating Co., Eugene, $66,195, by Elk City Water District, Elk City. PCD 1-5

Eugene—OFFICE ADDITION. Albert Vik & Son, Eugene, aproximately $5,000 by Pitchford Motor Co., Eugene. PCD 1-10

Eugene — CATHOLIC SCHOOLS. Gale M. Roberts, Eugene, approximately $240,000 by St. Mary's Catholic Parish, Eugene. PCD 1-11

Eugene—WAREHOUSE. J. M. Steinmuller, Jr., Eugene, $17,954, by Lane County Electric Co-op, Eugene. PCD 1-13

Eugene—SCHOOL ADDITION. Elson Shields, Eugene, $12,950, by Eugene School District No. 4., Eugene. PCD 1-18

McMinnville—SCHOOL. Paul B. Emerick, Portland, $618,000, by School District No. 40, McMinnville. PCD 1-10

Nyssa — CONTROL ASSEMBLY. Federal Pacific Electric Co., Scranton, Pa., $18,650, by Bureau of Reclamation, Denver, Colo. PCD 1-7

Nyssa—SCHOOLS. R. W. Luekenga, Nampa, Ida., $409,706, by School District No. 26C, Nyssa. PCD 1-18

Oswego — CHURCH ADDITION. Norman Builders, Portland, $48,109, by Our Savior's Lutheran Church, Oswego. PCD 1-10

Portland — BANFIELD EXPRESSWAY — Union Ave. Section. Gibbons & Reed Co., Portland, $1,097,068, by Oregon State Highway Commission, Salem. PCD 1-5

Portland — BROOKINGS-MORSE SECTION. Keith Bros. Construction Co., Medford, $39,440, by Oregon State Highway Commission, Salem. PCD 1-11

Portland—COQUILLE-RINK CREEK SECTION. Fred H. Slate Co., Oregon Ltd., Portland, and E. C. Hall, Portland, $306,278 (joint venture), by Oregon State Highway Department, Salem. PCD 1-5

Portland—OFFICE BUILDING. C. M. Corkum, Portland, $47,214, by Thompson & Runyan, Inc., Portland. PCD 1-6

Portland—HELMAN ST.-THIRD ST. SECTION. T. W. Thomas, Portland, $118,136, by Oregon State Highway Commission, Salem. PCD 1-5

Portland—POWER TRANSFORMERS. Wagner Electric Corp., St. Louis, Mo., $102,463 (Item 3); Pennsylvania Transformer Co., Canonsburg, Pa., $518,100 (Items 1, 2, 4, 5, 6), by BPA, Portland. PCD 1-6

Portland—POWER TRANSFORMERS. American Elin Corp., New York, $603,550, by BPA, Portland. PCD 1-6

Portland—BUILDING ALTERATION. Bingham Construction Co., Portland, $41,006, by Oregon State Board of Higher Education, Eugne. PCD 1-6

Portland — BRIDGE LIGHTING. Rochet Electric Co., Portland, $25,890, by Multnomah County Commissioners, Portland. PCD 1-10

Portland — STORE BUILDING. E. Carl Schiewe, Portland, $122,159, by Gevurtz Furniture Co., Portland. PCD 1-10

Portland—TELEPHONE BUILDING ADDITION. A. V. Peterson, Portland, $58,547,

by Pacific Telephone and Telegraph Co., Portland. PCD 1-13

Portland—DEEP CANYON SECTION. Allum Bros., Eugene, $349,502, by Oregon State Highway Commission, Portland. PCD 1-10

Portland — CHEMULT STRUCTURE. R. H. Jones, Hillsboro, $101,735 by Oregon State Highway Commission, Portland. PCD 1-10

Portland—UMATILLA BRIDGE JUNCTION. Arthur Simonsen & Co., Baker, $36,022 by Oregon State Highway Commission, Portland. PCD 1-14

Portland—OFFICE ALTERATIONS. E. Carl Schiewe, Portland, $27,913, by Portland School District No. 1, Portland. PCD 1-12

Portland—CHURCH. Anfelt B. Hansen, Portland, $153,082, by All Saints Episcopal Church, Portland. PCD 1-12

Portland — TRACTOR. Interstate Tractor and Equipment Co., Portland, $19,142, by city purchasing agent, Portland. PCD 1-14

Portland—STRAINERS. Zurn Western Services, Inc., San Francisco, $23,600, by city purchasing agent, Portland. PCD 1-14

Portland—LINE TRAPS. General Electric Co., Portland, $11,220, by BPA, Portland. PCW 1-18

Portland—CIRCUIT BREAKERS. Kelman Electric and Manufacturing Co., Los Angeles, $91,852 (Items 1, 2, 9, 10); Federal Pacific Electric Co., Los Angeles, $53,356 (Item 3); by BPA, Portland. PCD 1-18

Salem—SCHL ADDNS, ALTS. C. W. & Willis Hill, Salem, by Clear Lake Schl Dist, No. 122, Salem. PCD 1-7

Salem—MANUFACTURING PLANT. Andersen & Westfall Co., Portland (amount undisclosed), by American Can Co., Salem. PCD 1-12

WASHINGTON

Anacortes—MOORAGE FACILITIES. Charles Hansen and Co., 509 23rd, Anacortes, approximate cost $20,000, by Lloyd Foster, Port of Anacortes. PCD 1-7

Bremerton — GRADING, CURBS, SIDEWALKS. Hunsaker Bros. Bremerton, $10,883, by City Council, Bremerton PCD 1-12

Cheney—SCHOOL. Peter J. Young & Sons, Spokane, $199,255, by Cheney School District 357, Cheney. PCD 1-11

Clarkston—SCHOOL RENOVATIONS. Richard K. Wilson, Clarkston, $23,389 by Clarkston School District, Clarkston. PCD 1-13

Cowiche, Tieton—SCHOOLS. Gilbert Moen, Yakima, $312,368. (Tieton School), Hill's Construction Co., Yakima, $298,258 (Cowiche School) by Highland School District No. 203, Cowiche. PCD 1-18

Ephrata — EARTHWORK. Valley Construction Co., Seattle, $60,177 by Bureau of Reclamation, Ephrata. PCD 1-11

Everett — DOCTOR'S CLINIC. Pete Spadafore, Everett, no amount released, by George B. Youngstrom and David Shore, owner, Everett. PCD 1-10

Everett — LABOR TEMPLE ADDITION. Shaffer Construction Co., Everett, $66,651 by Building Trades Association, Everett. PCD 1-13

Fairchild AFB—SWIMMING POOL. Ruud Construction Co., Spokane, $183,000 by Corps of Engineers, Seattle District, Seattle. PCD 1-13

Fairchild AFB — TEST WELLS. Spokane Drilling Co., Spokane, $10,216 (56-85), E. A. Holman, Opportunity, $10,060, (56-86), E. A. Holman, Opportunity, $10,685 (56-87) by Corps of Engineers, Seattle District, Seattle. PCD 1-14

Kirkland—WATER SYS. Mallory & Compton, Seattle, $92,985, by King County Water Dist. No. 81, Kirkland. PCD 1-6

Lake Stevens—SCHOOL. Newland Construction Co., Everett, $110,130, by Lake Stevens School District No. 4, Lake Stevens. PCD 1-10

Manchester—STANDPIPE. R. L. Moss, Zenith, $13,410 by Manchester Water District, Port Orchard. PCD 1-14

Manchester—WATER DISTRIB. SYS. Lario Libri, Seattle, $45,112 by Manchester Water Dist., Port Orchard. PCD 1-14

Oso — SUB-STA ALTS, ERECT DISTRIB SYS. Donald W. Close Co., Seattle, $141,500, by 13th Naval District, Seattle. PCD 1-5

Paine AFB — BLAST PAD, AIRFIELD LIGHTING. Agutter Electric Co., Seattle, $22,773, by Corps of Engineers, Seattle District, Seattle. PCD 1-14

Port Angeles—STREET LIGHTS. Donald W. Close, Seattle, $80,698, by City Council, City Hall. PCD 1-12

Richland—FILTERS. George A. Grant, Pasco, $34,160, by Atomic Energy Commission, Richland. PCD 1-7

Richland — CONCRETE PRODUCTION. Frank H. Lohse, Pasco, $258,211, by Atomic Energy Commission, Richland. PCD 1-11

Richland—LOADING PAD, ROADS. Hoffman Construction Co., Portland, $22,722, by AEC, Richland. PCD 1-13

Richland—DRILLING WELLS. R. J. Strasser Drilling Co., Portland, $50,644, by AEC, Richland. PCD 1-18

Seattle — OFFICE AND HEADQUARTERS. Nelse Mortensen and Co., Inc., Seattle, $164,970, by Nile Temple Holding Corp., Seattle. PCD 1-5

Seattle — PEDESTRIAN UNDERPASSES. Howard S. Wright, Seattle, $353,000, by Boeing Airplane Co., Seattle. PCD 1-17

Seattle—GRADING. Fiorito Bros., Seattle, $159,000, by Boeing Airplane Co., Seattle. PCD 1-17

Seattle—WIRE. Bean Electric Co., Seattle, $31,626, by City Council, Seattle. PCD 1-17

Seattle — CAPACITOR BANKS. General Electric Apparatus Sales Dixision, Seattle, $295,400, by City Council. PCD 1-17

Seattle — PACKAGING CENTER AND WAREHOUSE. John H. Sellen Construction Co., Seattle, $458,633, by Sick's Seattle Brewing and Malting Co., Seattle. PCD 1-18

Sedro Woolley—SCHL ADDN. Phil Anderson, Mount Vernon, $39,098 by Sedro Woolley Schl Dist No 101. PCD 1-5

Tacoma—POWER CABLE. Sather Electric Distributors, Tacoma, $35,358, by Board of Contracts and Awards, Tacoma. PCD 1-5

Tacoma—WATER MAINS. Kendall Constr Co., Tacoma, $12,062 by Board of Contracts and Awards, Tacoma. PCD 1-4

Tacoma, WIRE. Graybar Electric Co., Tacoma, $46,076 by Board of Contracts and Awards, Tacoma. PCD 1-4

The Dalles Dam—CEMENT. Oregon Portland Cement Co., Portland, $14,040, by Corps of Engineers, Portland. PCD 1-6

Vancouver—SHOPPING CENTER. A. R. Nieman, Vancouver, $181,828, by Hazel Dell Development, Inc., Vancouver. PCD 1-6

Yakima—POWERPLANT. Hall-Atwater, Inc., Seattle, $572,763, by Bureau of Reclamation, Yakima. PCD 1-11

IDAHO

Boise—CALDWELL-RAILROAD OVERPASS. Babbitt Construction Co., Boise, $458,018, by Idaho Department of Highways, Boise. PCD 1-5

Challis—TELEPHONE LINES. Arrow Constr Co., $137,923, by Custer Telephone Co. PCD 1-7

Idaho — LEVEE. Wangsgaard Construction Co., Logan, $22,970 by Corps of Engineers, Seattle District, Seattle. PCD 1-10

Lewiston—SCHOOL. T. R. Pope, Clarkston, $207,956 by Independent Schl Dist No. 7, Lewiston. PCD 1-5

MONTANA

Billings—WATER MAINS. Walter J. Hoven, Billings, $14,020, by Yellowstone County Commissioners, Billings. PCD 1-17

Browning — WATER SUPPLY, DISTRIBUTION SYSTEM. O'Conner Construction Co., Columbia Falls, $104,630 by Town Council, Browning. PCD 1-14

Great Falls—TELEPHONE PLANT. C. E. Mitchell & Son, Great Falls, $514,900, by Mountain States Telephone and Telegraph Co., Great Falls. PCD 1-17

Medicine Lake—CHURCH. Boundary Construction Co., Plentywood, $40,173, by Union Congregational Church, Medicine Lake. PCD 1-18

Missoula—CLRG, GRDG. Leas, Amundon, & Richard B. Martin, Heelna, $84,741, by U. S. Forest Service, Missoula. PCD 1-7

Tiber Dam—OUTLET WORKS. Cop Construction Co., Billings, $203,601, by Bureau of Reclamation, Denver, Colo. PCD 1-5

WYOMING

Cheyenne — WAREHOUSE. Jacob Weber, Cheyenne, $219,900 by Wyoming Capitol Building Commission, Cheyenne. PCD 1-12

Cheyenne—STATE HIGHWAY PROJECTS—Casper-Glenrock Surfacing: Northwestern Engineering Co., Denver, $568,751. **Evanston Surfacing:** F. R. Knowlton, Layton, $100,449. **Sussex** Surfacing: Boatright-Smith, Rawlins, $168,736. **Sussex Bridges:** Husman Bros., Sheridan, $62,000. **Morehead Road:** Leonard C. Matheson, Gillette, $10,776. **Big Horn Stockpiling:** Alfred E. Matheson, Sheridan, $26,249. **Fremont Stockpiling:** Gilpatrick Construction Co., Riverton, $9,400. **Maintenance Project No. 4240:** J. A. McPherson, Laramie, $39,265, by Wyoming State Highway Commission, Cheyenne. PCD 1-17

Manderson—TEACHERAGE. Barterhorst & Sons, Basin, $16,790, by Manderson-Hyattville School District, Manderson. PCD 1-7

Thermopolis — EARTHWORK, PUMPING PLANT STRUCTURES. Charles M. Smith, Thermopolis, $277,748 by Bureau of Reclamation, Thermopolis. PCD 1-4

Wheatland—SCHOOL ADDITIONS. Garton & Garton, Cheyenne, $105,765, by School District No. 9, Wheatland. PCD 1-13

UTAH

Alterra—SCHOOL. Turner Construction Co., Heber, $285,000, by Uintah County School District, Vernal. PCD 1-5

Clearfield—SCHL ADDN. MAC Constr Co., Salt Lake City, $215,450, by Davis County School Dist., Salt Lake City. PCD 1-7

Hill AFB—FIRE ALARM CABLE. Cache Valley Electric Co., Logan, $11,415, by Dept. of Air Force, Air Material Area, Hill AFB. PCD 1-7

Hill AFB—ELEC SWITCHING STA. Security Constr. Co., Salt Lake City, $11,455 by Dept. of Air Force, Hill AFB. PCD 1-11

Ogden—PARISH HALL WING. V. J. Wadman, Ogden, $58,000, by Episcopal Church of the Good hSepherd, Ogden. PCD 1-10

Salt Lake City—DESERT JUNCTION-HARING. Wilkinson Construction Co., Morgan $88,729, by Utah State Road Commission, Salt Lake City. PCD 1-4

Salt Lake City—JUNCTION-BERYL. Whiting & Haymond, Springville, $11,949, by Utah State Road Commission, Salt Lake City. PCD 1-4

Salt Lake City—VERNAL-JENSEN SECTION. W. W. Clyde & Co., Springville, $728,299, by Utah State Road Commission, Salt Lake City. PCD 1-10

Salt Lake City—BLDG ALTS. G. Maurice Romney, Salt Lake City, $30,217, by Utah State Building Board, Salt Lake City. PCD 1-7

Salt Lake City—HOSP. ALTS. Atlas Construction Co., Salt Lake City, $43,256 by Salt Lake County Comsnrs., Salt Lake City. PCD 1-11

ALASKA

Anchorage—DIESEL ENGINE INSTALLATION. Pioneer Electric Co., Anchorage, $17,698 by General Services Administration, Seattle. PCD 1-6

Elmendorf AFB — MILITARY BUILDINGS. Baker & Ford, Bellingham, $3,418,110, (sched. A); Lease Co. Inc., and Puget Sound Bridge and Dredging Co., Seattle, $515,600 (sched. B and K); Kuney Johnson, Seattle, $2,479,500, (sched. C,D,F,H); Birch-Green, Seattle, $1,110,000 (sched E and Alt. J); J. B. Warrick, Seattle, $458,000 (sched. G), by Corps of Engineers, Alaska District, in the Seattle Branch Office, Seattle. PCD 1-4

Elmendorf AFB — UNDERGROUND FUEL FACILITIES. Pacific Alaska Contractors, Inc., Tacoma, $671,421, by Corps of Engineers, Alaska District, Seattle Branch Offices, Seattle. PCD 1-10

Eielson AFB—LAB TEST BUILDING. Chris Berg, Inc., Seattle, $591,500 (sched. A—Item 1 and 2A, (sched. B—Item 1 and 2), by Corps of Engineers, Alaska District, Anchorage. PCD 1-5

Fort Richardson—VETERINARIAN OFFICE. Wilson & Co., Anchorage, $21,845, by Purchasing and Contracting Office, Fort Richardson. PCD 1-10

Fort Richardson — AIRFIELD LIGHTING. Peninsula Electric Co., Anchorage, $13,740, by Corps of Engineers, Fort Richardson. PCD 1-18

Fort Richardson—TEST WELL. Layne Drilling Co., Anchorage, $21,250, by Corps of Engineers, Anchorage. PCD 1-18

Advertisements for Bids

Advertisements reaching us not later than Wednesday noon will appear the same week.

INTERSTATE BRIDGE
BIDS CLOSE 9 A.M., MARCH 1
Portland, Oregon
NOTICE TO CONTRACTORS

Time and Place of Receiving Bids:

Sealed bids for the work described below will be received by the State Highway Commission of the State of Oregon at the Imperial Hotel, Portland, Oregon, at 9:00 a.m., Thursday, March 1, 1956.

Type of Project:

This is a cooperative project to be financed and built under a tri-party agreement between the States of Oregon and Washington, acting through their respective State Highway Commissions, and the Washington Toll Bridge Authority. By authority of this agreement, all matters pertaining to furnishing plans and specifications to bidders and receipt of proposals are being handled by the State Highway Commission of the State of Oregon, address: State Highway Building, Salem, Oregon.

Description of Work:

The work for which bids are to be received consists of the following work on the Pacific Highway in the vicinity of Portland, Multnomah County, Oregon, and Vancouver, Clark County, Washington.

1. New Interstate Bridge over Columbia River—Construct a reinforced concrete and structural steel bridge 3,531'-5⅞" in length with a 40-foot roadway and one 5-foot sidewalk. Principal work consists of construction of 11 main river piers, 1-531-', 7-265' and 2-272' steel thru truss spans and 1-278' vertical lift span, and a 318' RC viaduct.

2. Oregon Slough Bridge—Alter the existing structures over Oregon Slough and Swift Road and widen these structures to accommodate two additional lanes of traffic. Principal work consists of construction of a widened portion of Oregn Slough Bridge, 1,294'-7" in length with a 38-foot roadway, and one 6-foot sidewalk and an approach ramp 133 feet in length with a 26-foot roadway.

3. Performance of miscellaneous and incidental work as required by the plans and specifications.

Quantities:

The work involves the following approximate quantities:

Item	Unit	*Alternate "A"	**Alternate "B"
Interstate Bridge:			
1. Shoring, Cribbing, Etc.	All	All	All
2. Structural Excavation	Cu. Yd.	15,500	20,500
3. Excavation Below Elevations Shown	Cu. Yd.	500	500
4. Furnish Timber Piling	Lin. Ft.	87,700	92,000
5. Furnish Treated Timber Piling	Lin. Ft.	4,200	4,200
6. Furnish Cast-in-Place Concrete Piling	Lin. Ft.	1,300	1,300
7. Drive Timber Piling	Each	1,493	1,699
8. Drive Cast-in-Place Concrete Piling	Each	21	21
9. Seal Concrete	Cu. Yd.	6,700	13,000
10. Class "A" Concrete	Cu. Yd.	14,300	10,500
11. Metal Reinforcement	Lb.	1,600,000	1,700,000
12. Structural Steel (4,700 T.)	All	All	All
13. Metal Handrail	Lin. Ft.	3,870	3,870
14. Bridge Buildings	All	All	All
15. Electrical and Mechanical Equipment	All	All	All
16. Lighting	All	All	All
17. Construction Walkway	All	All	All
18. Engineer's House	All	All	All
Oregon Slough Bridge:			
1. Shoring, Cribbing, Etc.	All	All	All
2. Structural Excavation	Cu. Yd.	2,600	3,400
3. Excavation Below Elevations Shown	Cu. Yd.	100	100
4. Furnish Timber Piling	Lin. Ft.	18,900	16,900
5. Furnish Treated Timber Piling	Lin. Ft.	7,800	7,800
6. Drive Timber Piling	Each	444	430
7. *Seal Concrete **Tremie Concrete	Cu. Yd.	*1,070	**2,350
8. Class "A" Concrete	Cu. Yd.	4,060	3,350
9. Metal Reinforcement	Lb.	576,000	669,000
10. Structural Steel (800 T.)	All	All	All
11. Metal Handrail	Lin. Ft.	1,150	1,150
12. Electrical Conduit	All	All	All
13. Construction Walkway	All	All	All
14. Roadwork	All	All	All
15. Concrete Slab Riprap	Sq. Yd.	160	160
16. Alterations to Existing Structure	All	All	All

* Conventional Poured-in-place pier construction
** Precast "shell-type" pier construction

Wage Rates:

In accordance with the provisions of Chapter 39.12 of the Revised Washington Statutes, the contracting parties hereto have ascertained the general prevailing rates of wages applicable to the work to be done within the State of Washington to be as follows:

Hourly Minimum Wage Rate	Classification
Skilled Labor	
2.83	Cranes (Locomotive, Whirley, Gantry, Hammerhead)
2.83	Clamshell dredge
2.43	Concrete mixer (1 to 5 bag capacity)
2.58	Concrete mixer (5 bag capacity and over)
2.90	Cement Mason
3.07	Ironworker (structural and ornamental
2.87	Ironworker (reinforcing)
2.85	Pilemen, Bridgemen, Wharfbuilders
2.63	Concrete road paver
2.63	Concrete mixer (dual)
2.28	Concrete batch and wet mix (operator)
2.83	Derrick operator (live boom)
2.48	Hoist, single drum
2.78	Hoist, two or more active drums on hoist
2.68	H.D. mechanic or welder
2.78	Piledriver engineer
2.75	Carpenters (Journeymen)
Intermediate Grade Labor	
2.38	Air compressor
2.48	Air compressor (over 1,000 c.f. stationary)
2.58	Drills (churn & core drill)
2.38	Finish machine operator
2.28	Firemen, dredge, floating derrick, retort, shovel
2.63	Generator, plant operator (diesel-electric)
2.73	Mixermobile
2.18	Oiler on all equip.
2.20	Side and end dump truck driver (6 yds and under)
2.25	Side and end dump truck driver (over 6 yds. & incl. 8 yds.)
2.30	Side and end dump truck driver over 8 yds. & incl. 10 yds.)
2.40	Side and end dump truck driver (over 10 yds. & incl 12 yds.)
2.20	Solo flatbed and misc. body trucks 1 ton to & incl. 4 tons)
2.20	Solo flatbed and misc body trucks (over 4 ton & incl. semi-trailer & truck & trailer not to exceed 10 tons)
2.20	Transit mix or wet mix trucks (3 yds. & under)
2.30	Transit mix or wet mix trucks (over 3 yds.)
2.25	Trucks, semi-trailer, and truck & trailer (over 10 tons incl. low bed)
2.20	Tank trucks, 1,600 gallons and under
2.20	Tank trucks, over 1,600 gallons
2.28	Jackhammer & power tool operator (Incl. chipping guns, paving breakers, vibrator operator—other than paving)
2.28	Ribbon setters (head)
2.18	Vibrator operator (paving only, incl sidewalks & curbs)
2.38	Wagon drillers
2.85	Piledrivermen riggers, burnermen & welders
Unskilled Labor	
2.38	Cement hog
2.23	H.D. Mechanic helper
2.20	Concrete buggies (power operated)
2.20	Truck helper (steady)
2.20	Warehousemen (warehouse paris & tool men)
2.18	Batch weighman, broomers, cement buckers; concrete buggymen, puddlers, rodders, rubbers (not fin.), spreaders, curing, sprayman and joint-dowel-tie bar setters
2.18	Car & truck loaders & road pump tenders
2.18	Flagmen (Traffic)
2.28	For strippers (swinging stage)

Rates of wages applicable to the work to be done within the State of Oregon shall comply with Oregon laws.

Prequalification of Bidders:

Prequalification of bidders will be required in accordance with the provisions of Oregon Revised Statutes 279.010 to 279.820, inclusive, and Chapter 47.28.070 of the Revised Washington Statutes.

Plans and Specifications:

Full information for bidders may be obtained at the office of the Oregon State Highway Commission, State Highway Building, Salem, Oregon. Plans and specifications

THE RATE for Advertisements for Bids is 35 cents per line for the first insertion; 25 cents per line for each insertion thereafter.

may be inspected at the same place and may be obtained by elegible bidders upon payment of $2.00 per set.

Plans and specificatins may be inspected at the office of the Associated General Contractors at Portland, Oregon, Seattle, Tacoma and Spokane, Washington, Boise, Idaho, and San Francisco and Los Angeles, California.

The right is reserved to reject any and all proposals or to accept the proposal deemed best for the States of Oregon and Washington.

OREGON STATE HIGHWAY COMMISSION
Ben R. Chandler, Chairman
Chas. H. Reynolds, Commissioner
M. K. McIver, Commissioner
R. H. Baldock
State Highway Engineer
ATTEST:
H. B. Glaisyer
Secretary to Commission (Oregon)

WASHINGTON STATE HIGHWAY COMMISSION
R. A. Moisio, Commissioner
R. E. Hensel, Commissioner
E. C. Huntley, Chairman
H. E. Morgan, Commissioner
Oscar E. Stone, Commissioner
W. A. Bugge
Director of Highways
ATTEST:
Lorentz Goetz
Secretary to Commission (Washington)

WASHINGTON TOLL BRIDGE AUTHORITY
Arthur B. Langlie, Governor and Chairman of Authority
Cliff Yelle, State Auditor
H. D. Van Eaton, Director, Department of General Administration
E. C. Huntley, Chairman, Washington State Highway Commission
Ralph M. Davis, Chairman, Public Service Commission
D. B. Hedges, Secretary of Authority.
5350—1-17

COUNTY-CITY BUILDING

BIDS CLOSE 10 A.M., FEBRUARY 14

Tacoma, Washington

NOTICE TO CONTRACTORS

Sealed proposal, in duplicate, for the construction of the County-City Building, on Blocks 912, 913, 914, 915, 1012, 1013 and 1014 of the City of Tacoma, Washington, will be received at the office of the Board of Pierce County Commissioners, Room, 206, Pierce County Court House, Tacoma, Washington until ten o'clock A. M. on Tuesday, the Fourteenth day of February, 1956, and will then and there be publicly opened and read aloud. Proposals received after the time designated for opening will not be considered.

Drawings and specifications including Contract Documents, may be examined at the office of the Architect, A. Gordon Lumm, 321 South Eleventh Street, Tacoma, Washington, at the office of the Associated General Contractors, in Tacoma, Seattle and Portland, and may be obtained by prime contractors at the office of the Architect upon deposit of $150.00 for each complete set. Others may purchase drawings and specifications at cost of reproduction.

The full amount of the deposit will be refunded to the prime contractors upon return of the documents, unmutilated and without marks or annotations, up to and including ten (10) days after opening proposals.Unsuccessful bidders who do not return their documents within this period will forfeit their deposits.

Proposals may be separate in 1, 2, and 3 and 4, or combined in 5 below.

1. General Construction 2. Jail Equipment 3. Mechanical Work 4. Electrical Work 5. Overall complete construction of all works of entire project, including Proposals 1, 2, 3 and 4.

Right is reserved by the Owner to make award on each division of the work as listed above or combination thereof as herein provided. All work shall be completed within 700 calendar days.

Each proposal shall be accompanied by a certified check or cashier's check made payable to the Board of Pierce County Commissioners, or a satisfactory Bid Bond executed by the Bidder, in an amount not less than five percent (5) of the amount of the proposal submitted. The check or bid bond shall be given as a guarantee that the bidder will execute the contract, if it be awarded to him, in conformity with the Contract Documents, and will provide surety bond or bonds as specificed therein, within ten (10) days after notification of the award of contract to bidder. Should the successful bidder fail to enter into a contract and furnish a satisfactory Performance Bond within ten (10) days from the date he is notified by the Pierce County Commissioners, the check or bid bond shall be forfeited as liquidated damages.

Attention is called to the fact that not less than the minimum salaries and wages, as set forth in the Specifications, shall be paid on this project.

No bidder may withdraw his Proposal after the hour set for the bid opening or before award of Contract, unless said award is delayed for a period exceeding thirty (30) days.

The Board of Pierce County Commissioners reserves the right to reject any or all Proposals and to waive irregularities or informalities in the bid or in the bidding.

By Order of the Board of Pierce County Commissioners, dated Dec. 30, 1955.

Board of Pierce County Commissioners
By Jack W. Sonntag, Clerk of the Board
5342—1-5, 12, 19, 26

HARDWOOD FLOOR

BIDS CLOSE FEBRUARY 2

Randle, Washington

NOTICE TO CONTRACTORS

Bids will be received by the White Pass School District No. 303 on February 2, 1956, in the superintendent's office, Randle, Washington, for furnishing, installing and finishing a hardwood floor in the Packwood gymnasium at Packwood, Washington. Approximate area 6,552 square feet. Plans are available at the office of William Arild Johnson & Associates, 3506 Broadway, Everett.
5345—1-10, 17, 24

REINFORCED CONCRETE BRIDGES, ROCK PRODUCTION, PAVING

BIDS CLOSE 9 A. M., JANUARY 26 AND 27

Portland, Oregon

NOTICE TO CONTRACTORS

Sealed bids on the following projects will be received by the Oregon State Highway Commision in the Queens Room of the Imperial Hotel in Portland, Oregon, at 9:00 a. m. on Thursday, January 26, and at 9:00 a. m. on Friday, January 27, 1956:

BIDS TO BE OPENED AT 9:00 A.M. ON THURSDAY, JANUARY 26

BENTON COUNTY: Alsea Rock Production Project on the Alsea and Alsea-Deadwood Highways, near Alsea. State Project. Requires approx. 13,900 cu. yds. crushed rock in stock piles. (Completion date 7-31-56).

JACKSON COUNTY: McKee Bridge over the Applegate River on the Applegate County Road, approx. 9 mi. south of Ruch. FAP No. S-173(3). 302' reinf. concrete deck girder bridge. Span arrangement: 40'-56'-70'-56'-40'-40'. Involves following approx. quantities: 195 cu. yds. struc. excavation; 568 cu. yds. Class "A" concrete; and 132,000 lbs. metal reinf. (Completion date 11-30-56.)

KLAMATH COUNTY: Little Deschutes River Bridge Widening on the Willamette Highway, 4 mi. west of its junction with The Dalles-California Highway. FAP No. F-184(3). Raise and widen existing 67' (span 19'-29'-19') composite concrete and timber bridge. Involves following approx. quantities: 30 cu. yds. struc. excavation; 400 lin. ft. treated timber piling (16 piling); 60 cu. yds. Class "A" concrete (precast beams, poured in place deck, etc.); 11,500-lbs. metal reinf.; and 2.0 M-FBM treated timber. (Completion date 8-31-56).

KLAMATH COUNTY: Lost River-Hatfield Junction Section of the Klamath Falls-Malin Highway near Merrill. FAP No. S-34(2). 4.02 mi. grading, paving and shoulder oiling. Requires roadbed grading on a per mile basis; approx. 160 cu. yds. concrete curbs; 20,250 cu. yds. crushed rock base and aggregates; 24 tons RC-3 asphalt; 13,500 tons A.C. paving mixture; 810 tons 120-150 asphalt in paving; 58 tons RS-1 asphalt; 60 tons RS-2 asphalt; and 62 tons 150-200 asphalt. (Completion date 9-15-56).

KLAMATH AND LAKE COUNTIES: South Unit, Lapine-Silver Lake Section of the Fremont Highway, about 14 mi. southeast of Lapine. State Project. 26.06 mi. of oiling; also furnishing crushed material in stock pile. Requires approx. 9,500 cu. yds. crushed rock, gravel or cinders; and 700 tons 150-200 asphalt. (Completion date 8-31-56).

LINN COUNTY: Two composite concrete-timber bridges to replace existing timber bridges on county roads near Lebanon. FAP Nos. S-119(3) and S-148(2). Three 21' precast beam spans with poured in place deck, etc., on timber pile bents. Involves following approx quantities: 65 cu. yds. struc. excavation; 1,320 lin. ft. treated timber piling (48 piling); 175 cu. yds. Class "A" concrete; 46,000 lbs. metal reinf.; and 3.0 M-FBM treated timber. (Completion date 6-30-56).

MALHEUR COUNTY: Basque Maintenance Station-McDermitt Section of the I.O.N Highway, about 65 mi. southwest of Jordan Valley. FAP No. FLH-3(15). 15.56 mi. of grading and paving. Requires approx. 66,-500 cu. yds. special borrow excavation; 350 hrs. blade grader work; 4,600 cu. yds. crushed material in shoulders; 35,000 tons A.C. paving mixture; 2,200 tons 120-150 asphalt in paving; 120 tons RS-1 asphalt; and 180 tons RS-2 asphalt. (Completion date 8-31-56).

MULTNOMAH COUNTY: East Parkrose Section of the Columbia River Highway, near Parkrose. State Project. 0.16 mi. of paving. Requires approx. 1,300 cu. yds. crushed base materials; 5 tons RC-3 asphalt; 540 tons A.C. paving mixture; 32 tons 100-120 asphalt in paving; and 3 tons RS-2 asphalt. (Completion date 6-30-56).

MULTNOMAH COUNTY: Ross Island Bridge On-ramp Section of the Pacific Highway East at the east end of the Ross Island Bridge in Portland. State Project. 0.14 mi. grading, paving and roadside improvement. Requires approx. 2,400 cu. yds. excavation; 170 cu. yds. topsoil; 140 cu. yds. concrete in curbs, walks, islands and steps; 1,230 lbs. metal reinf.; 840 cu. yds. crushed base materials; 240 tons A.C. paving mixture; 15 tons 100-120 asphalt in paving; 200 sq. yds. Portland cement concrete paving; reconstruction of sprinkling system; 0.6 acre lawn construction; and replanting existing shrubs. (Completion date 6-30-56).

MULTNOMAH COUNTY: N.E. 21st Avenue Structure over Banfield Expressway in Portland. FAP No. UI-323(17). Remove five south spans of the existing structure and replace with 3 span box girder section. Construct roadbed section beneath structure. Involves following approx. quantities: 6,400 cu. yds. gen. excavation; 100 tons asphaltic concrete mixture; 560 cu. yds. struc. excavation; 2,520 lin. ft. treated timber piling (72 piling); 860 cu. yds. Class "A" concrete; 190,000 lbs. metal reinf. (Completion date 9-30-56).

TILLAMOOK COUNTY: Short Creek Section of the Cape Meares Loop Road, about 1.2 mi. north of Oceanside. FAP No. S-1(3). 0.27 mi. of grading. Requires approx. 68,500 cu. yds. excavation; 1,500 cu. yds. loose rock riprap; 136 cu. yds. concrete in box culvert; and 29,000 lbs. metal reinf. (Completion date 8-31-56).

UMATILLA AND UNION COUNTIES: Weston-Elgin Rock Production Project on the Weston-Elgin Highway. State Project. Requires approx. 13,800 cu. yds. crushed rock in stock piles. (Completion date 8-15-56).

WALLOWA COUNTY: Weaver Bridge over the Wallowa River on the Werst Corner-Wallowa Road. FAP No. S-203(2). 120' reinf. concrete deck girder bridge to replace existing steel truss bridge. Span arrangement: 36'-48'-36'. Involves following approx. quantities: 200 cu. yds. struc. excavation; 200 cu. yds. Class "A" concrete; 50,000 lbs metal reinf. (Completion date 8-31-56).

YAMHILL COUNTY: Hess Creek (Newberg) Roadside Improvement Project on the Pacific Highway West at Newberg. FAP No. F-73(13). Requires approx. 1,100 cu. yds. topsoil; 600 lin. ft. chain-link fence, planting 30 trees and 8,500 vines (State-furnished); furnishing and planting 800 shrubs; 20 cwt. organic fertilizer; and 75 units sawdust. (Completion date 6-30-56.)

YAMHILL AND POLK COUNTIES: Wallace Bridge - Sheridan Unit, Valley Junction-Sheridan Section of the Salmon River Highway, east and west of Sheridan. FAP No. F-300(7). 6.86 mi. of grading. Requires ap-

prox. 805,000 cu. yds. excavation; 390 cu. yrs. concrete; 72,000 lbs metal reinf.; 5,200 rods Type 2 fence; and 3,550 cu. yds. crushed stone base materials. (Completion date 11-30-56).

BIDS TO BE OPENED AT 9:00 A.M. ON FRIDAY, JANUARY 27, 1956

DOUGLAS COUNTY: 168' reinf. concrete deck girder grade separation structure on the relocated Pacific Highway approx. 3 mi. north of Canyonville. FAP No. FI-78(29). Span arrangement: 51'-76'-41'. Involves following approx. quantities: 150 cu. yds. struc. excavation; 180 lin. ft. 12" cast-in-place concrete piling (8 piling); 313 cu. yds. Class "A" concrete; 76,400 lbs. metal reinf.; 60 lin. ft. 8" metal drain pipe; 215 sq. yds. concrete slab riprap. (Completion date 8-31-56).

GILLIAM COUNTY: Condon Rock Production Project on the John Day and Wasco-Heppner Highways, near Condon. State Project. Requires approx. 13,900 cu. yds. crushed rock or crushed gravel in stock piles. (Completion date 8-31-56).

JACKSON COUNTY: Casey Park Section of the Crater Lake Highway, about 6 mi. northeast of Trail. State Project. 0.24 mi. grading and oiling. Requires approx. 10,200 cu. yds. excavation; 600 lin. ft. steel pipe; 2,460 cu. yds. crushed stone materials; and 12 tons 150-200 asphalt. (Completion date 7-31-56).

JACKSON COUNTY: Reese Creek Section of the Crater Lake Highway, about 15 mi. northeast of Medford. State Project. 0.68 mi. grading and paving. Requires approx. 2,700 cu. yds. excavation; 600 cu. yds. crushed stone base material; 950 tons A.C. paving mixture; and 58 tons 100-120 asphalt in paving. (Completion date 8-31-56).

JACKSON COUNTY: Ashland Creek Structures in the city of Ashland. FAP No. F-302 (4). 256' reinf. concrete deck girder bridge over Ashland Creek and Water Street. Span arrangement: 32'-52'-44'-52'-32'. Involves following approx. quantities: 490 cu. yds. struc. excavation; 690 cu. yds. Class "A" concrete; 142,000 lbs. metal reinf.; and 526 lin. ft. of metal rail.

Ashland Creek Crossing—17' deck slab crossing of Ashland Creek. Involves following approx. quantities: 130 cu. yds. struc. excavation; 67 cu. yds. Class "A" concrete; and 10,300 lbs. metal reinf. (Completion date 9-30-56).

LANE COUNTY: Hellgate-Oakridge Dike Project on the Willamette Highway, near Oakridge. FAP No. F-308(5). 1,250 lin. ft. dike construction. Requires approx. 46 hrs. power shovel; 26 hrs. tractor and dozer; and 7,400 cu. yds. loose riprap. (Completion date 3-31-56).

MALHEUR COUNTY: 685' Nyssa Bridge over Snake River near Nyssa on the Old Oregon Trail Highway. FAP No. S-3746(3). 40' R.C.D.G. approach span; 600' welded steel plate girders (spans 186'-228'-186'); and 45' R.C.D.G. approach span. Involves following approx. quantities: 1,700 cu. yds. struc. excavation; 1,300 cu. yds. seal concrete; 1,200 cu. yds. Class "A" concrete; 175,000 metal reinf.; 1,066,000 lbs. struc. steel; 1,390 lin. ft. metal rail; and 44 lin. ft. 8" metal drain pipe. (Completion date 12-31-57).

MALHEUR COUNTY: Idaho State Line-Sucker Creek Section of the I.O.N Highway, about 18 mi. north of Jordan Valley. FAP No. S-25(3). 2.15 mi. grading and paving. Requires approx. 9,700 cu. yds. excavation; 12,500 cu. yds. crushed rock base; 45 tons MC-2 asphalt; 5,000 tons A.C. paving mixture; 300 tons 120-150 asphalt in paving; and 36 tons RS-2 asphalt. (Completion date 7-31-56.)

MALHEUR COUNTY: Ontario-Nyssa Shoulder Oiling Project on the Old Oregon Trail Highway. State Project. 11.27 miles of shoulder oiling. Requires approx. 3,300 cu. yds. crushed rock or gravel materials; 100 tons 150-200 asphalt; and 30 tons RS-1 asphalt. (Completion date 7-15-56).

MORROW COUNTY: Messner Overcrossing Reconstruction over the Union Pacific Railroad tracks on the Upper Columbia River Highway. State Project. Remove the existing frame trestle approaches and replace with three precast beam spans and one poured-in-place deck girder span. Widen the existing 90 ft. reinf. concrete structure. Structure will carry one-way traffic during construction. Project involves following approx. quantities: 280 cu. yds. struc. excavation, 390 cu. yds. Class "A" concrete; 90,000 lbs. metal reinf.; and 160 lin. ft. 8" metal drain pipe. (Completion date 10-31-56.)

UMATILLA COUNTY: Milton - Freewater Rock Production Project on 3 highways, extending west and north from Milton-Freewater. State Project. Requires approx. 6,400 cu. yds. crushed rock or gravel in stock piles. (Completion date 6-30-56).

UMATILLA COUNTY: Ukiah-Forest Boundary Section of the Ukiah-Hilgard Highway, about 50 mi. south (along US395) from Pendleton. FAP No. S-57(5). 9.99 mi. grading and topping. Requires approx. 323,000 cu. yds. excavation; and 44,000 cu. yds. pit-run gravel topping. (Completion date 8-31-56).

WASCO COUNTY: Shogren Overcrossing-Chatfield Section of the Columbia River Highway, ½ mi. east of Mosier. State Project. 1.29 mi. of pavement widening. Requires approx. 1,650 tons A.C. paving mixture; and 100 tons 120-150 asphalt in paving. (Completion date 7-31-56).

YAMHILL COUNTY: Chehalem Mtn.-Newberg Section of the Hillsboro-Silverton Highway north from Newberg. FAP No. S-65(3). 1.94 mi. of grading and paving. Requires approx. 20,000 cu. yds. excavation; 110 lin. ft. metal guardrail; 60 metal sight posts; 20 cu. yds. concrete islands; 16,600 cu. yds. crushed stone base materials; 30 tons RC-3 asphalt; 5,300 tons A.C. paving mixture; 320 tons 100-200 asphalt in paving; 12 tons RS-1 asphalt; and 24 tons RS-2 asphalt. (Completion date 9-30-56).

Unskilled labor employed for the Federal projects shall be obtained from lists prepared by agencies designated by the Oregon State Employment Service. The minimum wage paid to all labor employed in Federal projects shall be as follows: Skilled labor, $2.25 per hour; intermediate labor, $2.00 per hour; unskilled labor, $1.75 per hour.

Prequalification of bidders will be required in accordance with the provisions of ORS 279.010 to 279.024, inclusive. Full information for bidders may be obtained at the office of the Oregon State Highway Commission, State Highway Building, Salem, Oregon. Plans and specifications may be inspected at the same place and may be obtained by eligible bidders upon payment of $2.00 **per each set.**

Plans and specifications may also be inpected at the office of the Associated General Contractors in Portland, Seattle, Spokane, and Boise; and at the Builders Exchange Cooperative, Portland.

The right is reserved to reject any and all proposals or to accept the proposal deemed best for the State of Oregon.

OREGON STATE HIGHWAY COMMISSION
H. B. Glaisyer, Secty.

5347—1-14

BRIDGE

BIDS CLOSE 2 P.M., FEBRUARY 2

Portland, Oregon

NOTICE TO CONTRACTORS

Sealed bids for the construction of a reinforced concrete and steel bridge approximately 2 miles east of Lester, Washington, on the Snoqualmie National Forest, will be received up to 2:00 p.m., P.S.T., February 2, 1956, by the Regional Supply Officer, P. O. Box 4137, 729 N.E., Oregon St., Portland, Oregon. Bids may be secured from the Regional Supply Officer or Forest Supervisor, 415 Federal Bldg., Seattle, Washington.

5352—1-18

ELEMENTARY SCHOOL

BIDS CLOSE 7:30 P.M., JANUARY 28

Bremerton, Washington

NOTICE TO CONTRACTORS

Sealed bids will be received by the Board of Directors, Bremerton School District No. 100-C at the School District office, 16th and Chester, Bremerton, Washington, until 7:30 P.M., Thursday, January 26, 1956, for (A) the general contract, (B) the mechanical contract, (C) the electrical contract, and (D) the movable cabinet contract, separately, for the construction of Naval Avenue Elementary School—Project Wash. 52-C-27-D-X.

BID OPENING—

Bids will be opened publicly at the above stated time and place, and read aloud. Bids received after the time set for opening cannot be considered. Bidders and others properly interested are invited to be present at the bid opening.

BID DOCUMENTS—

Specifications, including bid and contract documents, and drawings may be examined at the office of the architect, Branch & Branch, 2616 East 11th Street, Bremerton, Washington, and at the various plan depositories and may be obtained at the architects's office upon deposit of $25 for each set.

REFUND OF DEPOSITS—

The full amount of deposit for one set of documents will be refunded to bona fide bidders upon return of the documents in good condition to the architect's office at or before the time set for opening bids. Other deposits will be refunded with deductions for the actual cost of reproducing the documents, under the same conditions.

BID GUARANTEE—

Each bond must be accompanied by a certified check, a bank cashier's check, or a bid bond issued by a bonding company licensed to do business in the locality of the project, in an amount not less than 5 per cent of the base bid, plus additive alternates, if any.

WITHDRAWAL OF BIDS—

No bid may be withdrawn after the time set for the opening thereof unless and until award of contract is delayed for a period exceeding sixty days.

OWNER'S RIGHT TO REJECT BIDS—

The right is reserved to reject any or all bids, and to waive informalities.

By order of:

BREMERTON SCHOOL DISTRICT No. 100-C
By ARMIN G. JAHR,
Superintendent.

5339—1-4, 11, 18

EARTHWORK, STRUCTURES

BIDS CLOSE FEBRUARY 23

Ephrata, Washington

NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-4607) will be received at Ephrata, Washington, until February 23, 1956, for furnishing labor and materials for Earthwork and Structures for Royal Branch Canal, Station 1/17 to Station 451/58, Wasteway and laterals, Columbia Basin Project, Washington, Location near Othello, Washington. Principal items are 600,000 cu. yds. excavation; 1,180 cu. yds. concrete; 6 radial gates and hoists; 45 metal slide gates; 7,600 lbs. miscellaneous metalwork; and other work. Completion time 330 days. For particulars, address Bureau of Reclamation, P. O. Box 368, Ephrata, Washington; or Building 53, Denver Federal Center, Denver, Colorado. W. A. Dexheimer, Commissioner.

5349—1-21

ELEMENTARY SCHOOL

BIDS CLOSE 8 P.M., P.S.T., JANUARY 24

Pasco, Washington

NOTICE TO CONTRACTORS

Sealed bids will be received by the Clerk of Pasco School District No. 1, Pasco, Washington, at the present junior high school office on or before 8:00 P.M. P.S.T., Tuesday, January 24, 1956, for the construction of a New Elementary School at Pasco, Washington, consisting of nineteen (19) classrooms, Library and Multi-Purpose Rooms, of frame and block construction. The bids will be then and there publicly opened and read aloud.

Bids received after the time fixed for opening cannot be considered. Separate bids will be received for the following contracts: (a) General, (b) Mechanical Work (c) Electrical Work. Drawings and specifications including contract documents may be examined at the office of the Architect, Victor Louis Wulff, 1526 West Riverside Avenue, Spokane, Washington, and may be obtained there, upon a deposit of $50.00 for each set.

The sets of plans and specifications will be on file at the following places: Construction Council, Spokane, Washington; AGC Builders' Chapter, South 18 Monroe, Spokane, Washington; Tri-City Construction Council, Pasco, Washington; Yakima Valley

Master Builders, Yakima, Washington.

The full amount of the deposit for one set of documents will be refunded to actual bidders upon return of the documents, unmutilated and without marks or annotations, within ten (10) days after the time set for the opening of bids. Other deposits will be refunded with deductions for the actual cost of reproducing the prints, under the same conditions.

Each bid must be accompanied by a certified check, Cashier's Check, or bid bond with a State-licensed surety or sureties in an amount of not less than five per cent (5)% of the largest bid, made payable to Pasco School District.

The right is reserved to accept or reject any or all bids and waive all claims, or any informalities or irregularities in any bidder or in the bidders.

No bidder may withdraw his bid after the time set for the opening thereof, unless the award of contract is delayed for a period exceeding thirty (30) days.

By order of Pasco School District No. 1.

PASCO SCHOOL DISTRICT NO. 1
Pasco, Washington
Emerson Morgan
Secretary of the School Board

5343—1-5, 6, 7

GRADE SCHOOL ADDITION AND GYMNASIUM

BIDS CLOSE 2 P.M., P.S.T., JANUARY 26, 1956

Spokane, Washington

NOTICE TO CONTRACTORS

Sealed bids will be received by the Clerk of Cusick Consolidated School District No. 59, at the office of Architect, Stuart Blackwell & Associates, N. 119 Post, Spokane, Washington, on or before Thursday, January 26, 1956, at 2:00 P.M., P.S.T., for construction of a Grade School Addition and Gymnasium. The bids will then and there be publically opened and read aloud.

No bid will be considered after time fixed for opening.

Separate bids will be received for the following contracts:

(a) General,
(b) Mechanical work,
(c) Electrical work.

Contract documents may be examined at the office of Stuart Blackwell & Associates, N. 119 Post, Spokane, Washington, and may be obtained there upon deposit of $20.00 per set.

Contract documents will be on file at:

Construction Council, 933 W. 3rd, Spokane
A.G.C., Builders Chapter, N, 1207 Washington, Spokane.

The full amount of deposit for one set of documents will be refunded to actual bidders upon return of documents, unmutilated and without marks, within one week after date of bid opening.

Each bid must be accompanied by a certified check, cashier's check, or bid bond with a State-licensed surety or sureties in an amount of not less than five per cent (5%) of the total bid, made payable to Cusick Consolidated School District No. 59.

Bidder may withdraw his proposal up to time of bid opening. No proposals may be withdrawn after bid opening.

Owner reserves right to reject any and/or all proposals(s) and to waive any informalities in connection with said proopsals.

By order of Cusick Consolidated School District No. 59,

Cusick, Washington.
Lillian Berendt, Clerk.

5338—12-28, 31; 1-7

EARTHWORK, STRUCTURES

BIDS CLOSE FEBRUARY 2

Ephrata, Washington

NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-4590) will be received at Ephrata, Washington, until February 2, 1956, for furnishing labor and materials for Earthwork, Concrete and Soil-Cement Lateral Lining, and Structures, West Central Part of Block 89 Laterals and Wasteways, West Canal Laterals, Columbia Basin Project, Washington. Location south of Ephrata, Washington. Principal items are 378,000 cu. yds. excavation; 6,570 cu. yds. concrete in structures and lining; 2,000 cu. yds. soil-cement lining; furnishing and installing 9 outdoor-type pumping units; and other work. Completion time 310 days. For particulars, address Bureau of Reclamation, P. O. Box 368, Ephrata, Washington; or Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.

5331—12-17

POWER PLANT ADDITIONS, ALTERATIONS

BIDS CLOSE 10 A.M., P.S.T., JANUARY 25

Juneau, Alaska

NOTICE TO CONTRACTORS

Reference Project Aaa. 50-A-147, Unit 2, Power Plant, College, Alaska, Date, December 13, 1955. Name and location of project. Additions & Alterations to Power Plant at the University of Alaska, Project Aaa. 50-A-147, Unit 2 College, Alaska. Department or Agency, Alaska Public Works, Office of Territories, Department of the Interior. By (Issuing office) James W. Huston, Director, Alaska Public Works, Office of Territories, Department of the Interior, Post Office Box 1181, Juneau, Alaska. Sealed bids in single copy for furnishing all labor, equipment, and materials and performing all work for the project described herein will be received until 10:00 A.M., Pacific Standard time, January 25, 1956 in the mailroom of the Office of the Director, Alaska Public Works, Office of Territories, Department of the Interior, 123 West Third Street, P. O. Box 1181 Juneau, Alaska and then publicly opened and read aloud. Information regarding bidding material, bid guarantee, and bonds follows: Plans and specifications and other proposed contract documents are open for public inspection at the Director's office, Juneau, Alaska; at Room 2723, Interior Bldg., Washington 25, D. C.; at the Area Engineer's office, Alaska Public Works, Room 220, Chena Bldg., 510 Second Ave., P. O. Box 1189, Fairbanks, Alaska and Associated General Contractors of America offices as follows: Seattle Chapter, Construction Center, 215 West Harrison St., Seattle, Wash.; Mountain Chapter, 220 West Harrison St., Seattle, Wash.; Tacoma Chapter, 452 St. Helens Ave., Tacoma 3, Wash.; Portland Chapter, Suite 112, Multnomah Hotel, Portland, Oregon; the Alaska Chapter, Anchorage, Alaska and the Plan Bureau, 2413 Western Ave., Seattle, Wash.; and Builders Exchange Cooperative, 317 Builders Ex-

When You Want Bids —

Architects and public officials charged with responsibility of getting competitive bids on construction projects have found for 53 years that our CONSTRUCTION NEWS publications provide the most effective and economical way through which to advertise for bids.

Year after year, more project are advertised in CONSTRUCTION NEWS BULLETIN, in PACIFIC ARCHITECT AND BUILDER, and in PACIFC BUILDER AND ENGINEER than in any other Northwest publications.

Rates are thirty-five cents per line for the first insertion; twenty-five cents per line for subsequent insertions. Copy received up to Wednesday noon reaches our readers the following Saturday.

PACIFIC ARCHITECT AND BUILDER

3rd Saturday of Each Month

PACIFIC BUILDER & ENGINEER

First Saturday of Each Month

CONSTRUCTION NEWS BULLETIN

2nd, 4th and 5th Saturdays

PACIFIC BUILDER & ENGINEER, INC., (MAin 0285) 2418 3RD AVENUE, SEATTLE 1, WASH.

change Bldg., Portland, Oregon. A set of such documents may be procured from the office of the Director at Juneau, Alaska, upon deposit of $25.00, all of which will be refunded upon the return of the plans and specifications in good condition within twenty (20) days from date of bid opening. Each bid must be accompanied by a satisfactory bid security (certified check or bid bond) in an amount not less than 5 per cent of the total bid in dollars and cents. No bid will be withdrawn until thirty days after the scheduled closing time for the receipt of bids. The successful bidder will be required to furnish a performance bond and payment bond, each in the amount of 100 per cent of the contract price. The Government reserves the right to award a contract for the project on the basis of the acceptance of any or all of the alternates, whichever course is in the best interest of the Government.

DESCRIPTION: Project Aaa. 50-A-147, Unit 2, Power Plant, College, Alaska. The project includes the extension of the existing boiler plant and coal handling facilities, foundations for the boilers and stokers, induced draft fans, ash precipitators and auxiliary equipment. Information regarding liquidated damages (if any), payments, etc., is attached or made a part of the specifications. Bids shall be submitted on the forms furnished or copies thereof.

5335—12-24, 31; 1-7

SUBSTATION

BIDS CLOSE FEBRUARY 8

Rupert, Idaho

NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-4475) will be received at Rupert, Idaho, until February 8, 1956, for furnishing labor and materials for Heyburn Substation, Minidoka Project, Idaho. Location in Heyburn, Idaho. Principal items are 900 cu. yds. excavation; 150 cu. yds. concrete; furnishing and erecting 75,000 lbs. steel structures; constructing service building; installing 27 transformers; and other work. Completion time 260 days. For particulars, address Bureau of Reclamation, P. O. Box 937, Boise, Idaho; Rupert, Idaho; or Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.

5333—12-31

LUBRICATING SYSTEMS

BIDS CLOSE FEBRUARY 28

Coulee Dam, Washington

NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-4610) will be received at Coulee Dam, Washington, until February 28, 1956, for furnishing labor and materials for centralized grease lubricating systems for hydraulic turbines, Grand Coulee Power Plant, Columbia Basin Project, Washington. Location in Coulee Dam, Washington. Principal items are furnishing and installing centralized grease lubricating systems for 18 main-unit turbines; furnishing and installing centralized grease lubricating systems for 3 station-service turbines; and other work. Completion time 300 days. For particulars, address Bureau of Reclamation, Coulee Dam, Washington; or Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.

5348—1-21

ELEMENTARY SCHOOL

BIDS CLOSE 8 P.M., JANUARY 31

Tenino, Washington

NOTICE TO CONTRACTORS

Sealed bids will be received by the undersigned until 8:00 p. m., Tuesday, January 31, 1956, at the office of the Superintendent of Schools, Tenino School District No. 402, Tenino, Thurston County, Washington, for the general contract, including architectural, mechanical and electrical trades for the construction of an elementary school building.

Plans, specifications and contract documents may be obtained by the bidders at the office of William Arild Johnson and Associates, 3506 Broadway Avenue, Everett, Washington.

Each prime contractor will be allowed one set of drawings and specifications upon deposit as follows: Complete plans and specifications—$20.00.

Plan holders who do not enter a bona fide bid and who do not return unmarked and unmutilated plans and specifications prior to bid opening will forfeit their deposits. Additional sets of drawings and specifications may be secured at the cost of printing. Such sets remain the property of the architect and shall be returned.

Each bid shall be accompanied by a certified check, cashier's check, or bid bond made payable to Tenino School District No. 402 in an amount not less than five percent (5%) of the bid plus all alternates. School board directors reserve the right to waive any informalities or irregularities in any bid or in the bidding and may reject any or all bids.

No bidder may withdraw his bid after the hour set for the opening thereof or before award of the contract unless said award is delayed for a period exceeding thirty (30) days.

TENINO SCHOOL DISTRICT No. 402,
Fred Martin,
Clerk of the Board.

5340—12-30; 1-6, 13

COURTHOUSE

BIDS CLOSE 10:30 A. M., FEBRUARY 21

Billings, Montana

NOTICE TO CONTRACTORS

Notice is hereby given that sealed proposals will be received up to 10:30 a. m., Tuesday, February 21, 1956, by the Board of County Commissioners, Yellowstone County, Billings, Montana, at the office of the commissioners in the County Court House, Billings, Montana, for the furnishing of materials and labor for the construction of a court house at the corner of Third Avenue North and 27th Street North, Billings, Montana, for the following:

1. General construction.
2. Mechanical construction.
3. Electrical construction.

All to be in accordance with plans and specifications prepared by Chandler C. Cohagen, architect, 211 Hedden Building, Billings, Montana. Bids will be opened on the third floor of the Chamber of Commerce, February 21, 1956, at 11:00 a. m. Bids shall be made on the printed forms furnished with the specifications. Plans and specifications may be obtained at the office of the architect. Each bid shall be marked on the outside of the opaque envelope with the nature of the proposal and the name of the bidder. Each bidder shall submit, with his proposal, certified check or cash in the amount of ten percent, (10%) of the total amount of his proposal. This security shall be made in favor of the County of Yellowstone as a guarantee that bidder will enter into a contract and furnish a performance bond in the value of one hundred percent (100%), if contract is awarded to him. No bidder may withdraw his bid within fifteen days after the closing time for the receipt of bids. The board reserves the right to reject any and all bids, and to waive informalities.

Signed:
Board of County Commissioners,
Yellowstone County, Montana.
By BEN B. HAGERMAN,
Chairman.

Attest:
CHRIS RUBICH,
County Clerk and Recorder.

5351—1-21, 28; 2-4

ASPHALTIC CONCRETE PAVING, BITUMINOUS SURFACING, CONCRETE BRIDGE, ILLUMINATION SYSTEM

BIDS CLOSE 10 A. M., JANUARY 31

Olympia, Washington

NOTICE TO CONTRACTORS

Sealed bids will be received by the Washington State Highway Commission at Olympia, Washington, on Tuesday, January 31, 1956, until 10:00 A. M., for the construction of the following improvements and will then and there be opened and publicly read:

Clearing, Draining, Grading, Surfacing, Constructing a Cement Treated Base and Paving with Type I-1 Asphaltic Concrete on 2.535 miles of Primary State Highway No. 1 in Skagit County, CONWAY JCT. T HICKOX ROAD, FAP No. BFI-001-3(Unit 3, involving about 13.4 acres of Clea ing, 152,255 cubic yards of Common Exc vation and Borrow, 18,500 M cubic yar stations of Overhaul, 58,230 tons of Se ected Roadway Borrow, 5,130 tons Crushed Stone Surfacing, 13,116 tons CTB Aggregate, 3,460 barrels of Portlan Cement, 111 tons of Asphalt Cement, 6 cubic yards of Crushed Cover Stone an Mineral Aggregate, 7,610 tons of Asphalt Concrete, 2,328 linear feet of Concre Pipe, 2,334 linear feet of Corrugated Met Pipe, 490 linear feet of Iron Pipe, 2 linear feet of Beam Guard Rail, 18 Meta Guide Posts and other items.

Draining, Grading and Surfacing wit Light Bituminous Surface Treatment o 7.604 miles of a Franklin County Road TAYLOR FLATS ROAD AND FEEDE ROAD 19-18, FAS No. S-1033(3), involving about 25,210 cubic yards of Common Excavation, 49,670 tons of Crushed Stone Surfacing and Crushed Cover Stone, 220 tons of Asphalt Cement, 320 linear feet of Corrugated Metal Pipe, 378 linear feet of Concrete Pipe and other items.

Clearing, Draining, Grading, Surfacing, Paving with Type I-1 Asphaltic Concrete and Constructing a Precast Concrete Bridge on 2.258 miles of a Snohomish County Road, GETCHELL ROAD, FAS No. S-0318(2), involving about 21,740 cubic yards of Common Excavation and Borrow Including Haul, 13,950 cubic yards of Selected Roadway Borrow, 4,550 cubic yards of Crushed Stone Surfacing, 4,18 tons of Asphaltic Concrete, 990 linear feet of Concrete Pipe, 500 linear feet of Treated Timber Piling, 3.4 MBM of Treated Timber and Lumber, 5 Precast Concrete Roadway Units, 42 linear feet of Steel Bridge Railing and other items.

Draining, Grading, Surfacing, Paving with Unfinished Cement Concrete and Type I-1 Asphaltic Concrete and Installing an Illumination System on 1.346 miles of Primary State Highway No. 1 in King County, JCT. PSH. No. 5 VICINITY AND JCT. SSH. No. 1-L VICINITY, a State Project, involving about 4,120 cubic yards of Unclassified Excavation Including Haul, 1,310 cubic yards of Selected Roadway Borrow, 2,6 cubic yards of Crushed Stone Surfacing, Crushed Cover Stone and Mineral Aggregate, 38 tons of Asphalt Cement, 1,91 tons of Asphaltic Concrete, 5,055 square yards of Unfinished Cement Concrete Pavement, 655 linear feet of Precast Traffic Curb, 14,628 linear feet of Extruded Traffic Curb, 1,580 linear feet of Concrete Pipe, a lump sum bid for Installation of Illumination System and other items.

Installing an Illumination System on Primary State Highway No. 1 in Snohomish County, WALNUT STREET INTERCHANGE, a State Project, involving a lump sum bid for the Installation of an Illumination System.

Federal funds have been allocated for items Nos. 1 to 3, inclusive.

All bid proposals shall be accompanied by a bid proposal deposit in cash, certified check, cashier's check or surety bond in an amount equal to five per cent (5%) of the amount of such bid proposal. Should the successful bidder fail to enter into such contract and furnish satisfactory performance bond within the time stated in the specifications, the bid proposal deposit shall be forfeited to the State of Washington.

Prequalification of bidders is required. Maps, plans and specifications may be obtained from this office upon written request therefor and payment to the Director of Highways by cash, certified check, cashier's check or money order in the sum of two dollars ($2.00) for each copy of such maps, plans and specifications as a rental for the use of them. Plans will be forwarded by First Class Mail.

Informational copies of maps, plans and specifications are on file in the office of the County Engineer of the County in which the work is situated, the Chapter offices of the Associated General Contractors of America in Seattle, Spokane, Tacoma and Portland, and the offices of the District Engineers of the Department of Highways where they may be inspected.

E. C. HUNTLEY, Chairman
W. A. BUGGE, Director of Highways.

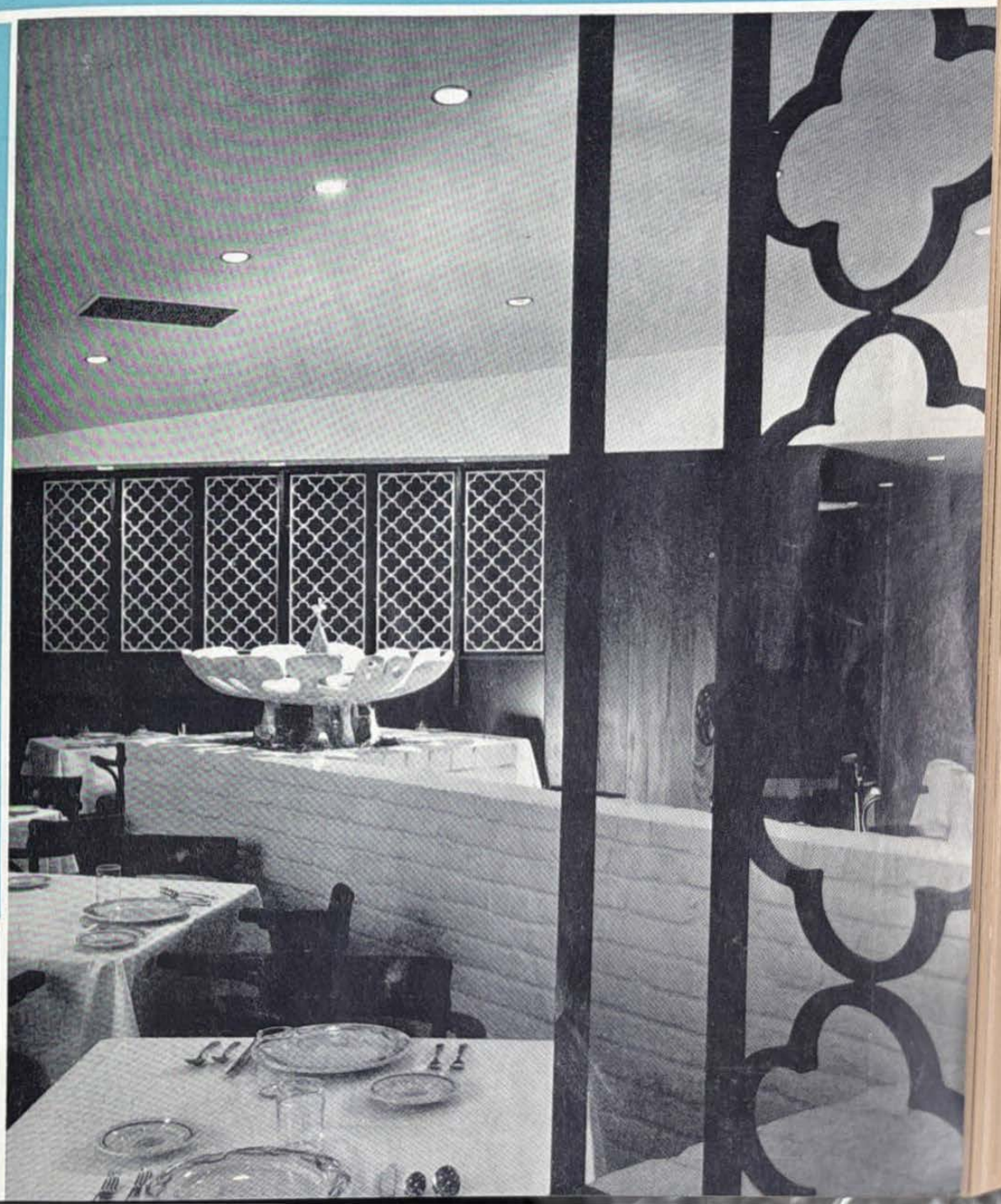
5346—1-14, 21

Pacific Architect and Builder

FEBRUARY BPA 1956

35¢

WITH CONSTRUCTION NEWS BULLETIN



this issue—

Two additions to fraternity row at Southern Cal

Visual delight in the heart of downtown Seattle

An architectural primer for use of porcelain enamel

wo restaurants by Mario Gaidano planned on mparatively tight bud- ts: one is smartly mod- n; the other approaches e classical with its rought iron grillwork nd free form sculpture hoto and p. 11).

Published by PACIFIC BUILDER ND ENGINEER, Inc. Established 1902

MACOMBER *Originator of the*

OPEN WEB STEEL JOIST

Announces a great new advance in Structural Framing



The MACOMBER

V-BEAM

STRONGER • LIGHTER • MORE RUGGED

FOR SPANS TO 48 FEET



NAILABLE TOP AND BOTTOM CHORDS

The new Macomber V-BEAM is an advance in floor and roof framing equaled only in importance by the announcement of the original Macomber bar joist.

The Macomber V-BEAM carries more load per pound than any other structural member, with greater reserve strength. Deflections are no more than those of other secondary framing members. Lateral rigidity is appreciably increased.

Architects and Engineers will like the advanced design of the V-BEAM. Contractors will recognize the extra value their money buys.

This is a product worthy of your immediate investigation. Send for your V-BEAM Catalog.

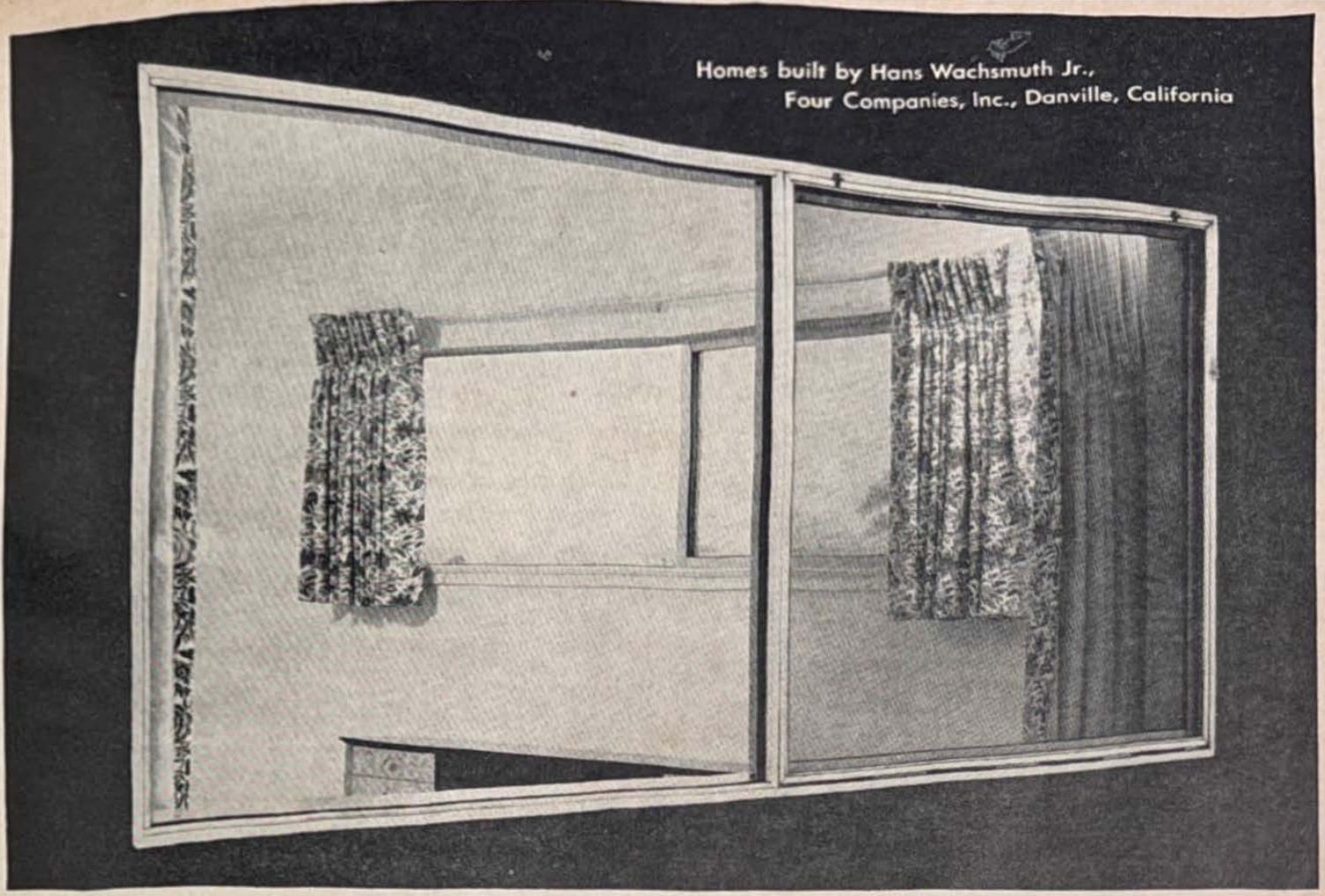
STANDARDIZED STEEL BUILDING PRODUCTS

MACOMBER INCORPORATED

CANTON 1, OHIO

• ENGINEERING • FABRICATING AND ERECTING •

NAILABLE STEEL JOISTS
•
LONGSPANS
•
BOWSTRING ROOF TRUSSES
•
METAL DECK
•
V-LOK STEEL FRAMING
•
STRUCTURALS



Homes built by Hans Wachsmuth Jr.,
Four Companies, Inc., Danville, California

Arislide aluminum sliding windows

They're your best buy by far! Arislide Aluminum Sliding Windows are precision-manufactured in nine popular sizes. Special sizes to your order. Natural aluminum finish, anodized if specified.

- Reduced installation cost: nail-in anchor fin eliminates surrounds or frames.
- Nylon bottom rollers for smooth, quiet operation.
- Complete mohair weather stripping.
- Sliding unit easily removed from inside.
- May be purchased knocked-down or fully assembled.



Also—Arislide Aluminum and Arislide Steel Sliding Doors!

Since 1912 ARISTON Metal Products

Write for catalogues!

Mail to: Arislide Windows & Doors Division, Michel & Pfeffer Iron Works, Inc.
Address: 212 Shaw Road, South San Francisco, California
Please send catalogue on Arislide Aluminum Sliding Windows and Arislide Aluminum and Steel Sliding Doors.

Your Name .....
Firm .....
Address .....
City and State .....
Dept. PAB

MICHEL & PFEFFER IRON WORKS, INC. • 212 SHAW ROAD • SOUTH SAN FRANCISCO, CALIFORNIA

An architect's report:

WHITE HOUSE CONFERENCE ON EDUCATION

Guest Editor

HENRY L. WRIGHT, FAIA
Los Angeles, California



Because Henry L. Wright was one of two architects who attended the White House Conference on Education, we are especially happy to present his comments on that important meeting. The immediate past president of the California Council of Architects, he was named a fellow of the AIA in 1955. He is a partner in the firm of Kistner, Wright & Wright which has made significant contributions in school planning and design in southern California.—The Editor.

WIDESPREAD INTEREST was aroused throughout the nation last December when President Eisenhower's White House Conference on Education convened in Washington.

Criticism leveled at this remarkable gathering, before, during and after its sessions, came from many quarters. This was to be expected. Not every segment of opinion could have been satisfied and this certainly was not the objective of the conference.

President Eisenhower first announced plans for this meeting in his State-of-the-Union message of January 7, 1954. He urged that each state hold conferences on local and state levels, to terminate in the national meeting. This, he later termed as "the most thorough, widespread and concerted study that the American people have ever made of their educational problems . . ." That it was to review statistics and air opinions gathered and formulated over a period of years was evident. Educators and others throughout the United States are familiar with the problems facing our school system and, in most cases, know the answer, at least in their own bailiwicks.

In my opinion, the great value of this unprecedented assembly was that never before has there gathered together, in one place, at one time, such a representative body to discuss so vital a subject. Every delegate who attended, in addition to those who came as observers, returned to his community pledged to keep the subject of education alive in the public mind and to continue local and regional gatherings to study the problems and to attempt to find solutions.

The big question facing the White House Conference —should the United States government step in to aid the financing of schools when the state or community has done all it is able?—was thoroughly discussed and an overwhelming majority said "yes." However, the type of federal aid the majority wanted was limited to **school construction** on the basis of "demonstrated need." All warned against any "deterrent to state and local initiative." Although the final word on federal aid for school construction has yet to be given, it is indicated that this year a definitive administration-congressional decision will be made.

It was regrettable that of the 2,000 delegates and 400 observers who were present, representing more than 300 national organizations, only **two** were architects. As chairman of the national school building committee of the AIA, I was privileged to participate. Delegates were appointed prior to the convention by state governors and only one representative was permitted from each national group. This considerably narrowed the percentage for architects. However, it points up a problem: that of the architect becoming sufficiently integrated in his local area through his contribution to community betterment, so that he would be a logical choice as a delegate to such conferences.

There was much that school architects could have contributed to this national forum; their professional knowledge would have been invaluable. The grave status of our schools—the overwhelming lack of classrooms and shortage of teachers—is a primary problem that must be faced and solved. Architects everywhere must marshall their resources to aid in this imperative national task.

It is hoped that by May of this year, at the national AIA convention in Los Angeles, substantial information on the federal aid program will be available and that architects will have an opportunity to participate in the local and regional conferences which are succeeding the White House meeting. It is possible that by broadening their community activities, especially with regard to the education of our youth, they will perform an enduring service for our AIA, for our nation and for our children.

Pacific Architect and Builder

FEBRUARY BPA 1956

WITH CONSTRUCTION NEWS BULLETIN

VOLUME 62 NUMBER 2

Published by
Pacific Builder and Engineer, Inc.
Established 1902

MAIN EDITORIAL AND BUSINESS OFFICE
2418 Third Ave., Seattle 1, Wash.
Phone MAin 0285

N. B. Chapin — President
John E. Miller — General Manager

Phyllis E. Forth — Production Manager
Frances Eggan — Circulation Manager
Robert G. Hitchens — Director of Business Services and Circulation Sales

ADVERTISING
Main Office — Seattle
L. C. McDowell

MIDWEST ADVERTISING OFFICE
30 N. LaSalle St., Room 1240
Chicago, Ill.—Phone STate 2-3158
Charles W. Crandall — Representative

CALIFORNIA EDITORIAL OFFICE
24 White St., San Francisco 9, Calif.
Phone GRaystone 4-8532
Ken MacDonald — Contributing Editor

PORTLAND EDITORIAL OFFICE
1109 S.W. Fourth Ave.—Phone CApitol 3-1229
Win Romtvedt — Portland News Manager



PA&B's Area

a Four Billion Dollar Building Market

Roscoe E. Laing—Editor Bob Koehler—Associate Editor

Paul Nelson, assistant editor; Anne Hecker, editorial assistant; Joan Storey, research assistant

D. F. McCormick, editor, Construction News Bulletin

CONTENTS

Two Restaurants by Mario L. Gaidano: One Is as Smart as the Other Is Charming—San Francisco and Corte Madera, Calif. 10

On Fraternity Row: Pledged to Economical but Good Design—University Park, Los Angeles 14

Savings and Loan Headquarters: Visual Delight in the Heart of Down Town—Seattle 16

Architectural Primer for Porcelain Enamel—*by J. G. Terry* 18

Building Methods: Mobile Outriggers Increase Versatility of Crane—Eugene, Ore. 20

West Leads Nation in Housing Activity During 1955 24

DEPARTMENTS

Perspectives 6

Trends—News—Views 7

Architectural Preview: Portland's Air Terminal 8

Building Permit Tabulation 25

T-square Talk 28

Materials, Products, Tools and Latest Literature 30

Builders and Suppliers 32

CONSTRUCTION NEWS BULLETIN

Building and Engineering News of the Pacific Northwest and Alaska 35

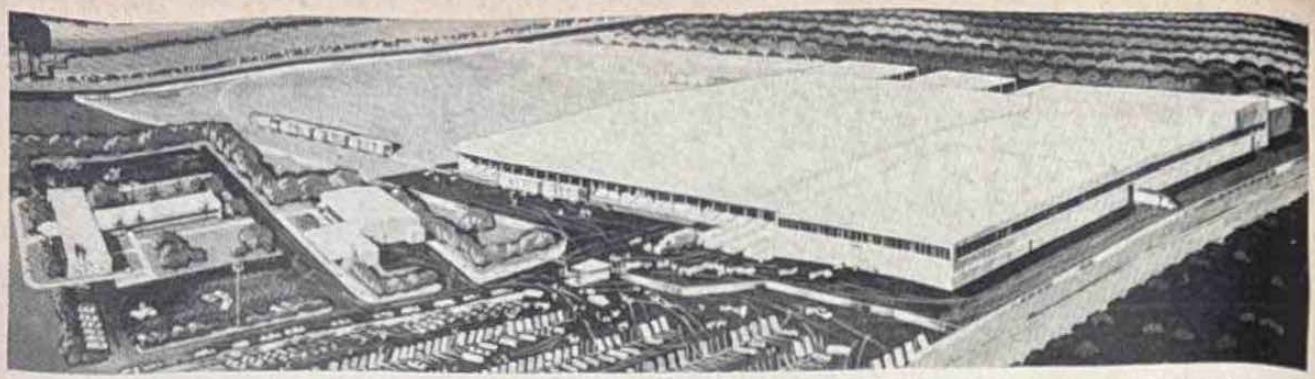
SUBSCRIPTION RATES—Payable in Advance

PACIFIC ARCHITECT AND BUILDER—3rd Saturday each month. $4 one year; $6 two years; $7 three years. Canadian $5, $8, $10. Foreign $6, $10, $13. Single copies, 35c. With CONSTRUCTION NEWS BULLETIN (2nd, 4th, 5th Sat.) $16, $24, $31, in U.S. and Alaska.

PACIFIC BUILDER AND ENGINEER—1st Saturday each month. $4 one year; $6 two years; $7 three years. Canadian $5, $8, $10. Foreign $6, $10, $13. Single copies 35c.

FOR NORTHWEST BUILDING AND ENGINEERING NEWS EVERY WEEK subscribe to all three (PA&B, PB&E, CNB) $20 one year; $30 two years; $38 three years. FOR FLASH ADVANCE DAILY SERVICE read Pacific Construction Daily, $75 per year. Rates for U.S. and Alaska.

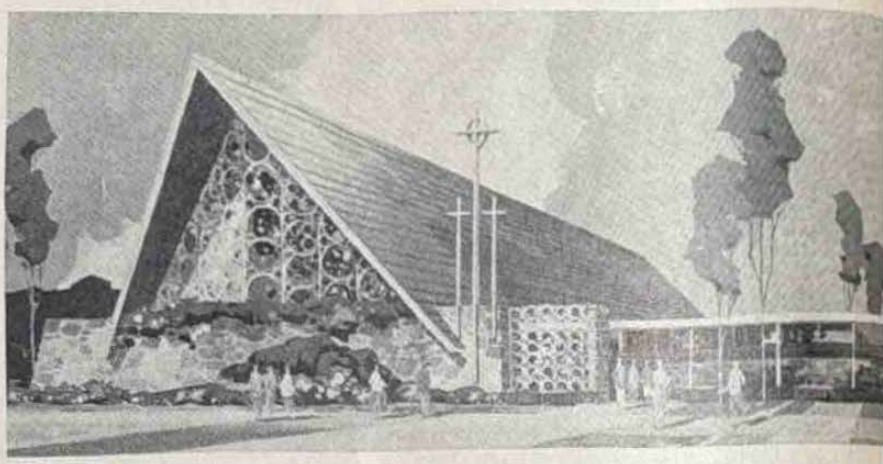
PACIFIC ARCHITECT AND BUILDER is published monthly by Pacific Builder and Engineer, Inc., 2418 Third Ave., Seattle 1, Wash., and is mailed on the third Saturday of each month. Price: $4 per year. Acceptance under P.L.&R. 34.64 authorized.



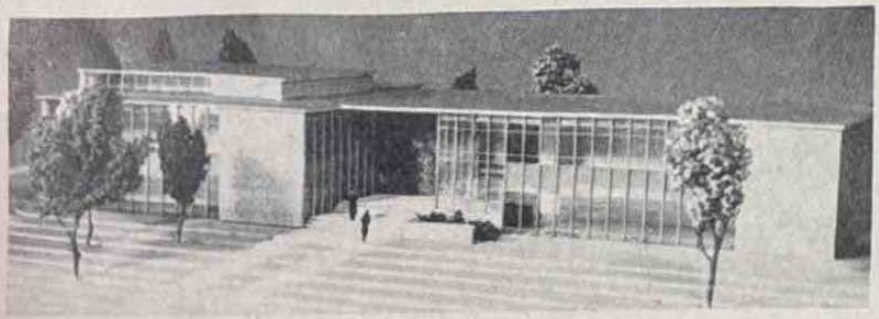
WHEN COMPLETED in mid-year, $6,500,000 facility for Rheem Automotive Co. on 50-acre site at Fullerton, Calif., will be largest plant in Orange County. Pictured from left are executive office, personnel services and manufacturing buildings, containing more than 400,000 sq. ft., with additional 103,000 sq. ft. in steel storage and dock areas. Plans were drawn by James H. Van Dyke of Los Angeles.

PERSPECTIVES

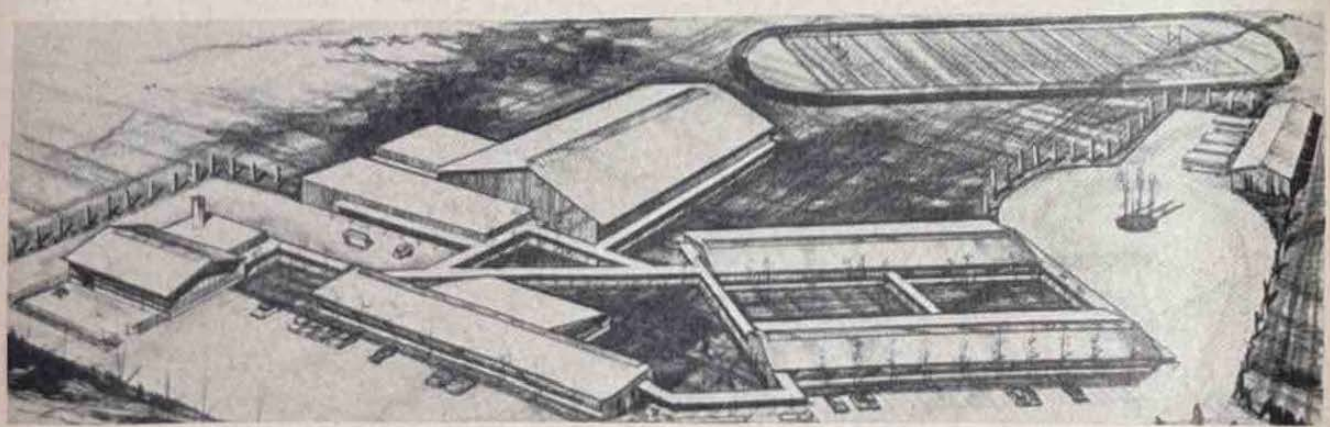
by Pacific architects



EARLY SCANDINAVIAN LINES, natural woods and stone are combined in $100,000 building for Trinity Lutheran Church in Norwalk, Calif. Architects Armet & Davis of Los Angeles have brought nature into plan through use of glass end walls almost 50 ft. high through which worshippers will see extensive plantings of native trees and shrubs. Decorative metal grille defines entrance to grounds.



MODEL OF COURTHOUSE for Gilliam County at Condon, Ore., which won national design award citation for Morrison & Howard of Klamath Falls. Structural frame of $180,000 building is reinforced concrete, with brick exterior walls, marble entry hall and aluminum spandrels and windows.



ESTIMATED TO COST $1,250,000, construction is scheduled to get underway in May for junior high school building for Everett, (Wash.) School District No. 2. On sloping site, complete educational plant has been designed by William Arild Johnson & Associates.

NEW WOODS FOR PACIFIC COAST HOMES and buildings are being introduced on the market by the Northwest Hardwood Association (for details on its conference in Portland last month, see "Builders and Suppliers.")

Alder, native to the coastal strip from southern Oregon into British Columbia, is rapidly gaining recognition. Up to now regarded as a "weed tree"—fit only for extermination by loggers of the big firs which overshadowed it both literally and figuratively—the alder is winning a place among the fine hardwoods of the nation because of its inherent beauty and wide range of uses.

Here are a few random examples of the progress being made. Weyerhaeuser Timber Co. has set up special machinery to produce alder panels for interior walls that compete with knotty pine and tropical veneers. At Sedro Woolley, Wash., Goodyear Nelson Hardwood Co. is turning out maple flooring in lengths that can rarely be found in the depleted eastern hardwood areas. Oregon Alder-Maple Co. of Willemina is producing millwork for interior trim.

DEMONSTRATION OF A SIRLOIN STEAK broiled in an oven heated solely by the sun was witnessed by 450 builders attending a short course at the University of Illinois last month but they were warned not to throw away the kitchen range or house furnace yet. Hyman A. Steinberg, research assistant professor of architecture of the Small Homes Council said that while solar-house heating is possible, it is a long way from being economical due to the abundance of other fuels available.

ONE OF THE WORST FLOODS in the state's history, followed by an almost continuous period of rain, combined during January to slow northern California's building almost to a standstill. Many builders were compelled to stop much of their outside work because of rain and in numerous areas it was impossible to begin new construction because of mud and flood conditions.

In spite of the bad start, most builders anticipate another volume year for home building in California. The number of starts may be lower than last year but industry spokesmen believe dollar volume will go above that of 1955.

Frank Belgrano, president of Transamerica Corp. in San Francisco, predicts that most of the curtailment will be largely in the low priced field. He expects alterations and additions to boom, creating new markets for home builders.

SOUTHERN CALIFORNIA CONTRACTORS, after a slow return to normal last month following the end of the three-month-long rock, sand and gravel strike, were urged to give school construction priority over other work because "the need for new schools and additional classrooms is reaching a crisis." A Los Angeles school official said the strike has forced the changing of "some critical school opening dates from February to September, while other schools scheduled to open next fall have been delayed until September 1957."

A BROADENED EDUCATIONAL BASE for architectural training is seen by a former professor of architecture at Harvard University who now heads the Inter-American Housing Center, Bogota, Columbia. "This will reflect itself in schools through increased emphasis on the problems of community development and collaboration with sociologists, anthropologists and economists," according to Leonard J. Currie, AIA, who has been lecturing in this country.

"A great many new teachers must be recruited in the next few years," Currie warns, adding that training in teaching methods should not be neglected since good architects are not necessarily good teachers.

A "GUARANTEED TRADE-IN" plan in which persons may buy a contemporary design home with a trade in of their old one has been launched by a major U.S. home builder, Joseph Eichler. A resale broker, Saxe Realty Co. of San Francisco, has been appointed exclusive sales agent for all Eichler developments in Marin and San Mateo counties.

THE AMOUNT OF LUMBER used in home construction has been declining steadily in recent years and will continue to so so, unless the industry goes in for broader research programs, adopts the "cell structure" approach and develops new products and uses. So declared Julius Stulman, head of a Brooklyn lumber firm, appearing as guest lecturer at City College of New York. "As a cell structure lumber lends itself to chemical and electronic treatment," he said. "We might reconstruct the cells so that they could be gathered in a liquid or powder state of known and controlled properties. Then perhaps we could pour the substance into moulds and make finished and semi-finished products in this way."

THE STEEL JOIST INSTITUTE has arranged to conduct periodic unscheduled inspections of its members' plants to determine conformity of manufactured products to standards established by the group. This marks the first time that an association of structural materials manufacturers have adopted such a quality control program.

MODULAR MEASURE, a 20-year-old system that has gained considerable favor in construction of schools and commercial structures, got a shot in the arm in the big untouched field of home building recently. A house planned on the 4-in. measurements was exhibited at the annual convention of National Association of Home Builders in Chicago.

Carrying on an intensive campaign, the American Institute of Architects has succeeded in getting builders and manufacturers of steel and wood windows together to try to agree on standard sized windows, based on modular measure. Should this system be applied to an entire house, estimates of cost savings have run as high as 20%.



SOUTHERN CALIFORNIA BUILDER Fritz B. Burns (center) chats with Dean Francis B. Sayre of the Washington National Cathedral and Presidential Assistant Sherman Adams at Operation Home Improvement luncheon in Washington, D.C. Albert M. Cole, Housing and Home Finance administrator, predicts that 20 million U.S. homes will be repaired or modernized during Home Improvement Year at cost of nearly $20 billion.



Information Please...

Architect:

"How can I plan for the most efficient venting system?"



Builder:

"What type of vent is best for both economy and buyer satisfaction?"



Client:

"How can I be sure of a safe and durable gas venting system?"





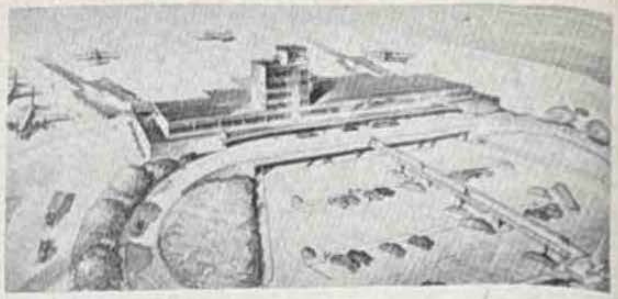
Get the latest facts about gas venting

This new, specially prepared 16-page book is full of all the latest facts and helpful information about correct gas venting — its design, planning and installation. You'll find it an important, up-to-date addition to your information file, one that can save you considerable time and money.

write for your free copy today

METALBESTOS DIVISION
WILLIAM WALLACE COMPANY · BELMONT, CALIF.

Offices in Belmont and Glendale, Calif., Seattle, Denver, Dallas, Des Moines, Blue Springs, Mo., Minneapolis, Chicago, Atlanta, Akron, Louisville, New York, Buffalo, Westbrook, Conn., Richmond, Va.
Stocked by principal jobbers in major cities. Factory warehouses in Atlanta, Dallas, Philadelphia, Des Moines, Chicago, New Orleans.



FIREPROOF STRUCTURE will consist of concrete structural frame, exterior facing primarily of enamel iron insulated panel skin cover with a small amount of brick and aluminum sash and trim. Initial building will have two fingers as shown, each 750 ft. long, with positions for 16 airplanes to load and unload passengers only.

Portland's airport terminal

AFTER FOUR YEARS of planning, construction of Portland's new $3,500,000 International Airport Terminal building is expected to get underway by early July. Some preliminary work such as clearing, filling and grading has been completed, but bids for the building are tentatively scheduled to be advertised in late April, by the Port of Portland, with a bid opening planned for early June.

Working drawings are nearly completed by the architects, Burns, Bear, McNeil & Schneider. Leigh Fisher & Associates, South Bend, Ind., airport consultants, assisted in the planning.

Except for size, the new terminal will be equal to most and better than many terminals in the United States. It has been designed with function foremost in mind. One of its outstanding features is the short passenger walking distance. The ultimate plant of the building and area provides for 34 aircraft gates or berths which occupy a total frontage of a mile. Because of the four fingers, or piers, and the central building location, the average walking distance from the ticket counter to the gates is only some 600 ft. with the nearest eight gates only some 335 ft.

Customers will have no stairs to climb, for seven escalators will be provided. With 625,000 passengers handled in 1955 and a volume of 998,000 expected by 1965, it was necessary to segregate incoming and outgoing passengers.

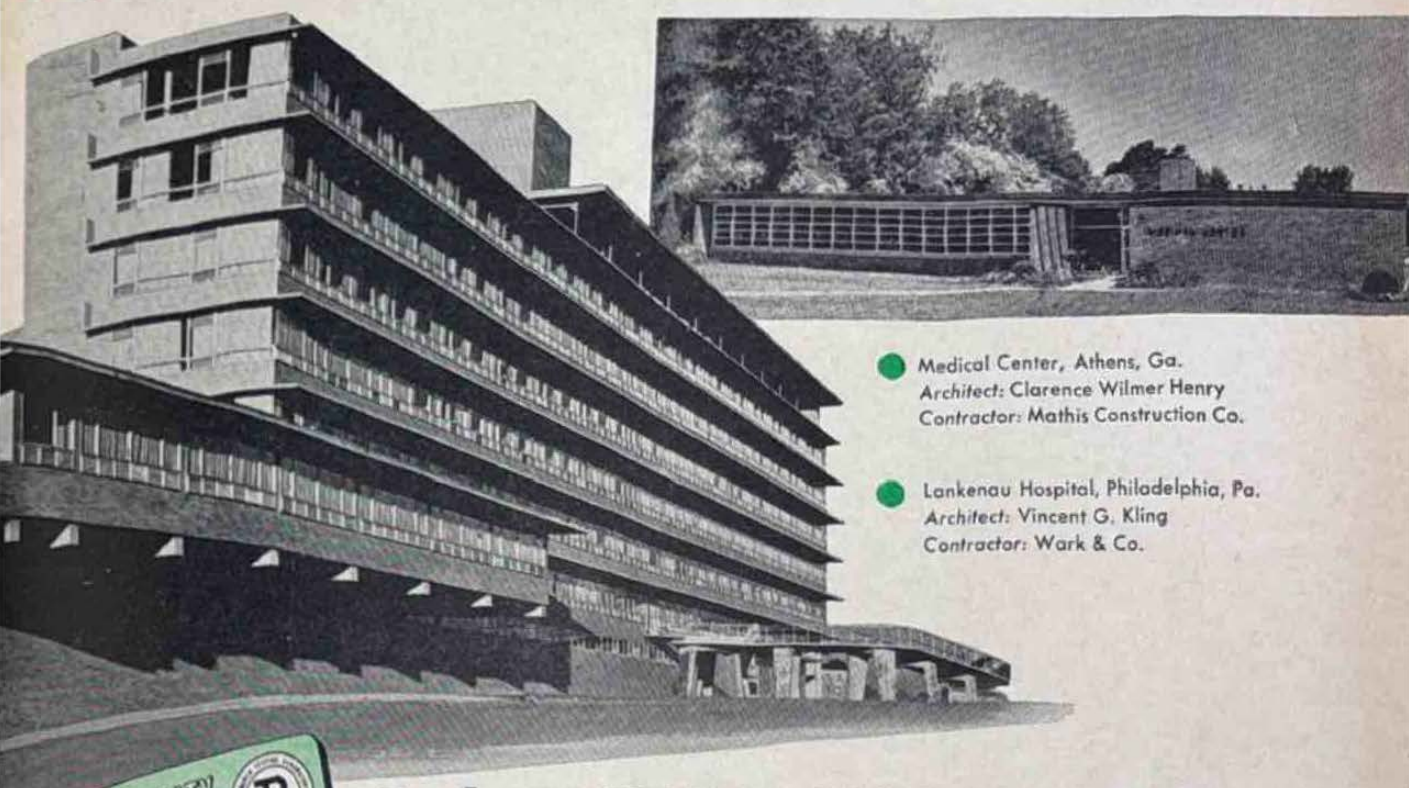
Outgoing passengers enter the terminal from an elevated roadway, while incoming passengers leave from the lower level after claiming their baggage. Escalators in the fingers, or concourses, take them down to or up from the aircraft loading aprons.

Parking for some 1,500 cars, buses and taxis will be provided. The walkway, which will be covered with a metal roof and enclosed with glass on the south side, takes passengers to a controlled parking lot. Beyond this will be a free parking lot for the public and employees.

The main building is to be 500x112 ft. on two main levels with a mezzanine. Remaining space is in form of a four-story tower, approximately 32x64 ft., to give the control tower its necessary height.

The ground level will be largely operational, occupied by airlines, baggage, freight handling, heating boilers, machinery, etc. On the second or main level will be airline ticket counters, restaurant, 19 roomettes and various other concessions and facilities for the comfort and convenience of travelers and visitors.

Large city HOSPITAL or community MEDICAL CENTER



- Medical Center, Athens, Ga.
  Architect: Clarence Wilmer Henry
  Contractor: Mathis Construction Co.

- Lankenau Hospital, Philadelphia, Pa.
  Architect: Vincent G. Kling
  Contractor: Wark & Co.



Reduce MAINTENANCE EXPENSE with *Quality Approved*

ALUMINUM WINDOWS

It doesn't make any difference whether you're building a large 320 bed hospital like the beautiful new Lankenan Hospital shown above or a small, community medical center, you help save important maintenance dollars when you insist on "Quality-Approved" aluminum windows.

Experience has clearly demonstrated that aluminum windows are the only practical, reasonably-priced windows that *never* require painting . . that cannot rust or rot, warp or swell that retain their trim, modern-looking appearance for the life of the building.

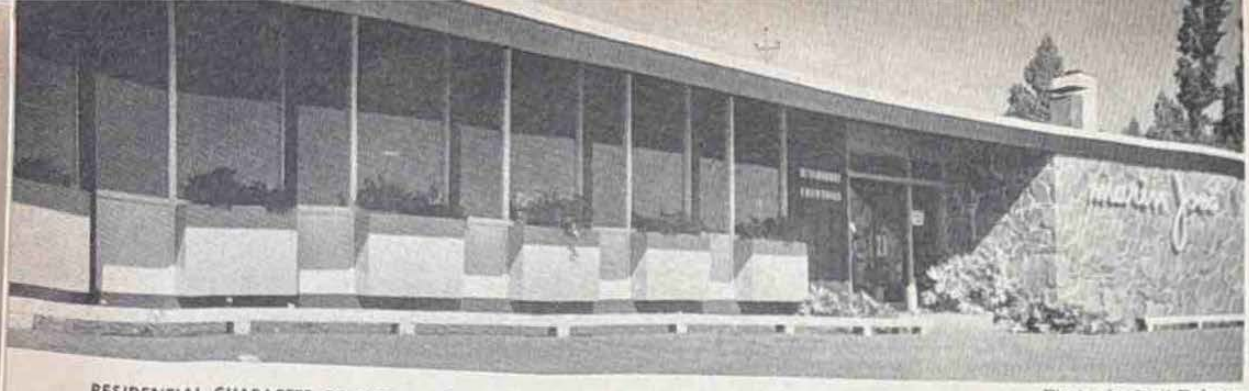
"Quality-Approved" aluminum windows are available through many manufacturers in sizes and styles (awning, casement, double-hung, projected and sliding) to fit any design treatment. Only those that carry the "Quality-Approved" Seal have been tested by the independent Pittsburgh Testing Laboratory and approved for quality of materials, construction, strength of sections, and minimum air infiltration.

For our latest Window Specifications Book consult any manufacturer listed below, see Sweet's (16a/ALU) or address Dept. PAB-62

Aluminum Window Manufacturers Association

75 West Street, New York 6, N. Y.

MEMBERS: Alcasco Products, Inc., Detroit, Mich. • The Wm. Bayley Co., Springfield, Ohio • Bourne Products, Inc., El Cajon, Calif. • Ceco Steel Products Corp. (Sterling Aluminum Window Division), Chicago, Ill • Cupples Products Corp., St Louis, Mo. • Duralite Window Corp., Knoxville, Tenn. • Fentron Industries, Inc., Seattle, Wash. • Michael Flynn Mfg. Co., Philadelphia, Pa. • General Bronze Corp., Garden City, N. Y. • Metal Arts Mfg. Co., Inc., Atlanta, Ga. • Reynolds Metals Co. (Parts Division), Louisville, Ky • The F C. Russell Co. (Aluminum Division), Bristol, Pa. • J. S. Thorn Co., Philadelphia, Pa. • Universal Window Co., Berkeley, Calif • Ware Laboratories, Inc., Miami, Fla • Windalume Corp., Kenvil, N. J.



RESIDENTIAL CHARACTER OF SITE is reflected in exterior of California redwood, natural stone and glass. —Photos by Phil Palmer

MARIO L. GAIDANO, AIA
Architect

BORMOLINI & SON
General Contractors

Marin Joe's Restaurant
Corte Madera, California

One restaurant is as smar

WHEN Don Pareglio and Adolph Della Santina decided to locate their new restaurant on Highway 101, not far from Corte Madera, they knew that such a suburban site would require more than just good food. The partners set forth this objective: create eye-appeal on an $84,000 budget covering all costs, including furnishings and kitchen equipment.

To accomodate the long, narrow lot fronting the highway, with a 30-ft. setback in the rear, the architect planned a rectangular structure fitted low to the ground; included a slightly pitched plank and beam roof to add an interesting break in the long rectangular lines; and provided a deep cut in the side of the slope to create a pleasant backdrop for green plantings which can be seen from the dining room.

The residential atmosphere dictated the choice of materials such as redwood and natural stone. Even the open kitchen and charcoal broiler were designed to suggest the intimacy and comfort of home, combined with the luxury of dining out. And the colors, browns and tangerine, were selected as being complementary to the type of food served—traditional Italian.

Marin Joe's actually is divided into three sections: lounge, main dining room and a long counter for quicker service where the patrons can watch their meals being prepared in an open-face brick broiler. Over this counter is a partial ceiling of acoustical tile with lights inset to illuminate the cooking area but to prevent glare from flashing in the eyes of customers.

The main dining room, located at the left of the counter section, consists of comfortable leather padded booths. At the end of the counter is an outdoor patio with room for two or three tables. The lounge serves as seating for overflow diners.

OUTLINE SPECIFICATIONS

Type of Construction: Frame and masonry on reinforced concrete footings.

Exterior Walls: California redwood and natural stone.

Roof: Pitched; timber beams, plank deck.

Floors: Concrete slab, with asphaltic tile, carpeting in lounge, cement in kitchen area.

Interior Walls: California redwood board and battens and natural stone; plywood in service and utility areas.

Ceilings: Exposed decking; partial ceiling of acoustical tile above counter.

Total Cost: $84,000, including architect's fees, landscaping, furnishings and equipment.

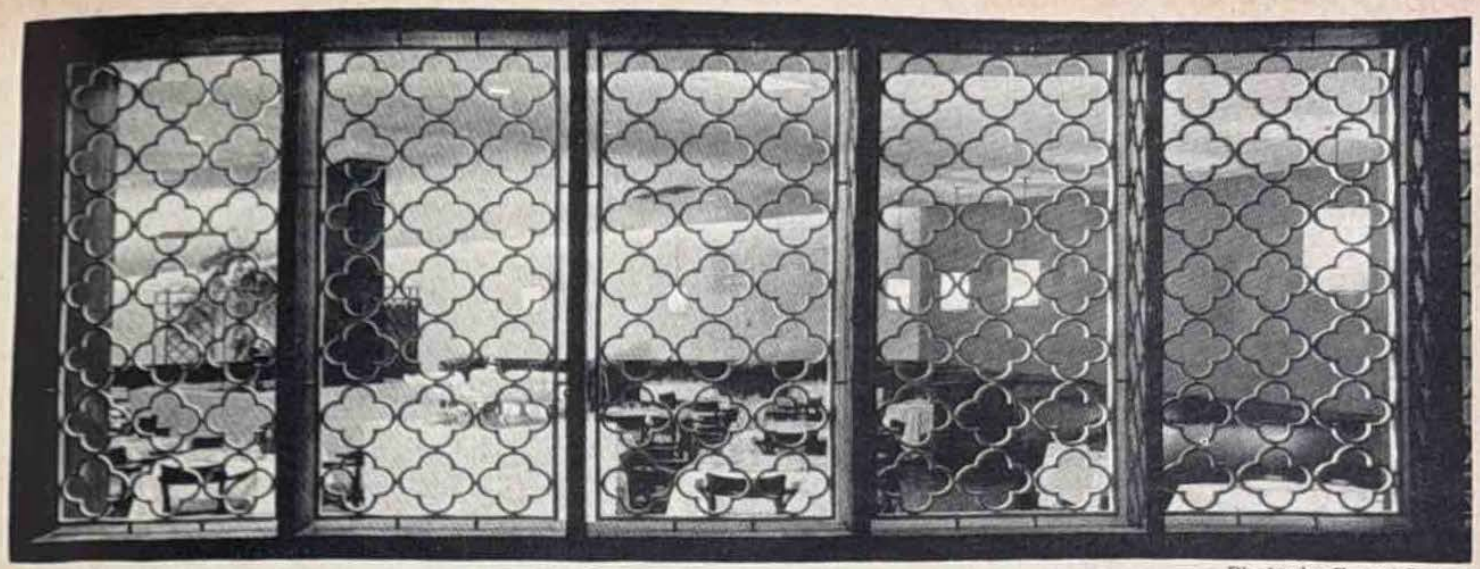
Total Area: 3,800 sq. ft.

REDWOOD is repeated inside; lighting achieves warm, somewhat romantic glow. Dining area at left of counter consists of booths.



CUSTOM-DESIGNED black iron "floating" fireplace dominates lounge, with sofas lining walls. Natural stone wall separates area from dining.





—Photos by Ernest Braun

"A STIMULATING CHALLENGE to prove my theory that restaurants, perhaps more than any other kind of building, have need for what I call the integration of art and architecture," says architect Gaidano.

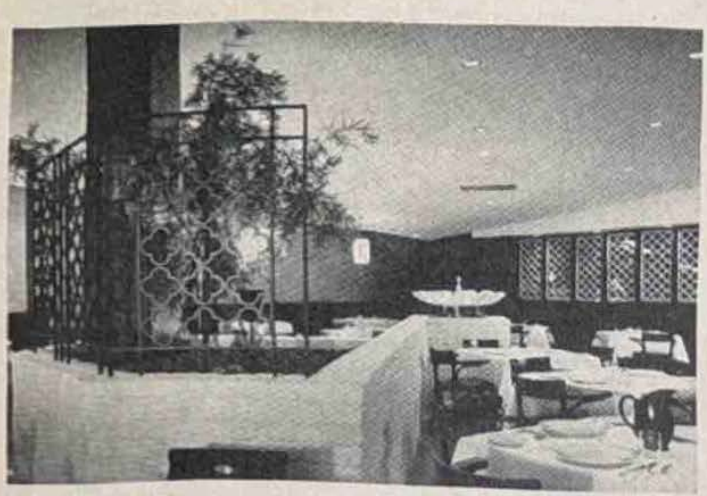
Grillwork of wrought iron trellis divides lounge from spacious dining room (note in photo below). Materials and forms are at same time contemporary and remindful of classical spirit of another era.

as the other is charming

Fior d'Italia Restaurant
San Francisco, California

MARIO L. GAIDANO, AIA
Architect

ROYAL SHOWCASE CO.
General Contractor



USED WHITE BRICK creates divider and base for planter. Sculpture by Ray Rice is flower form symbolic of name of restaurant.



EXTERIOR is merely painted and accented with colorful awnings, was not changed structurally.

THE DESIGN of the Fior d'Italia incorporates almost as much of the artist as that of the architect, who was given a $60,000 modernization budget and a "completely free hand" to convert a dilapidated old building into an ultra-modern new home for the 69-year-old restaurant.

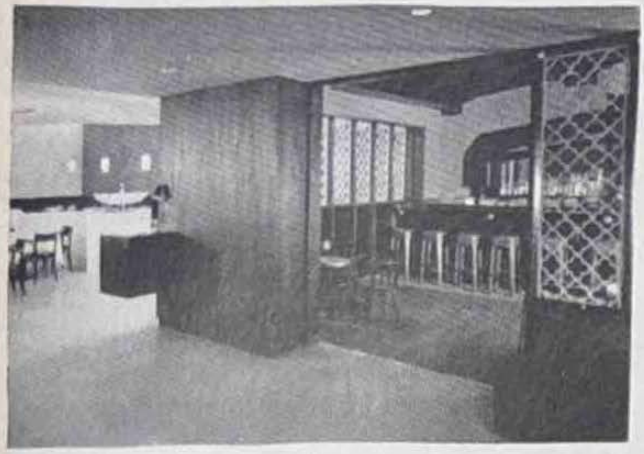
"The problem we faced," explains the architect, "was that of retaining most of the traditions so long associated with this famous establishment and at the same time creating a brand new Fior d'Italia with a distinctive and modern atmosphere.

"The structure being modernized was formerly occupied by a ranch style restaurant. It faces San Francisco's colorful Washington Square and St. Peter and Paul Church in the very heart of the city's large Italian colony.

"This meant, of course, that the architectural design should appeal to the people of the area and fit into the 40x90-ft. building with maximum functional utilization of the existing 3,600 sq. ft. of floor space."

The architect achieved his objectives, within the budget by integrating art and architecture into a modern Italian style planned deliberately to retain the old established clientele and to attract a faithful new following.

The building into which the restaurant moved



WROUGHT IRON GRILLWORK, functional as well as decorative, separates lounge from dining room and waiting area.



SLOPED CEILING runs diagonally across square room, drops gently to corners to give spacious dining area more intimate feeling.

was on sound footings and foundations and the brick exterior was in perfect condition. The interior, however, was a "big barn of a place" with a high ceiling, no partitions and few structural columns.

The old ceiling was lowered considerably by installation of a sloped, acoustical plaster ceiling. This new ceiling, with its ridge running diagonally across the square room and dropping gently to the corners, helps to create the desired intimate, sheltered feeling.

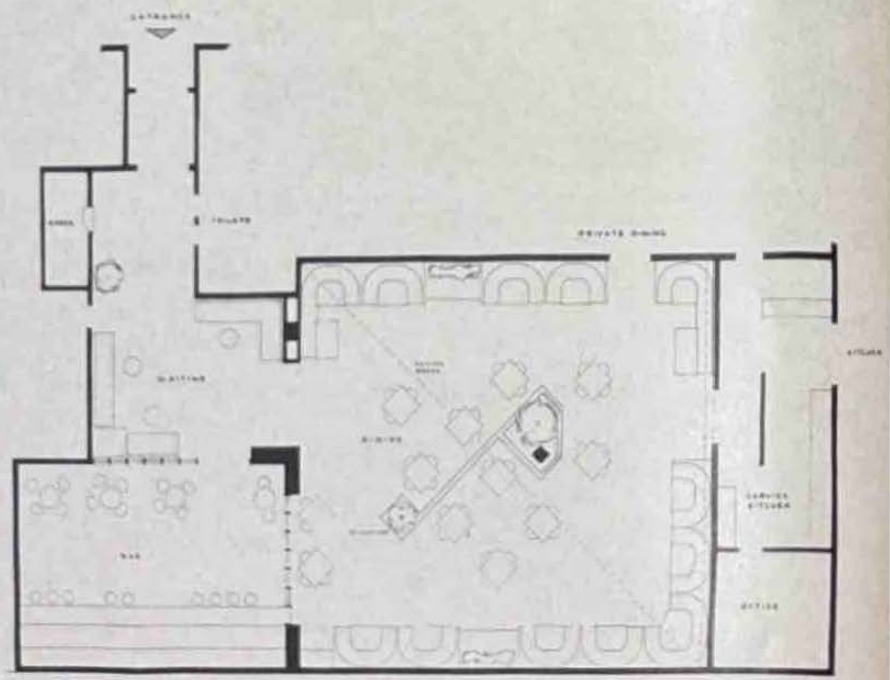
Materials used for the walls, such as brick, burlap and wood, were selected to suggest solidity and naturalness. Colors were chosen to harmonize with the clean, cool whiteness of the brick and the acoustical plaster ceiling.

The quatrefoil design of the cast iron grilles, the chandeliers and the sculpture—in fact, all of the materials and forms—although completely contemporary are somehow reminiscent of the classical spirit of early Italian architecture. Grillwork consists of wrought iron trellis, custom designed and custom manufactured, to divide the lounge from the large and dignified dining room, which is lighted by handsome lanterns hung from the ceiling.

The diner has a choice of alcove accomodations or of tables which are spaced over a wide area to permit a true sense of privacy. The red walls, in contrast with the black leather seats, provide a striking color effect. The finish of the interior walls varies from white used brick to burlap to highly polished wood.

Some architects gain immortality with their names engraved in the stones of structures they design. But this story has an ending that's a bit different. Owners George and Frank Marianetti were so pleased with the results that the choicest item on their menu is Roast Tenderloin of Beef Gaidano, a succulent dish of meat, mushrooms, artichokes and wine sauce.

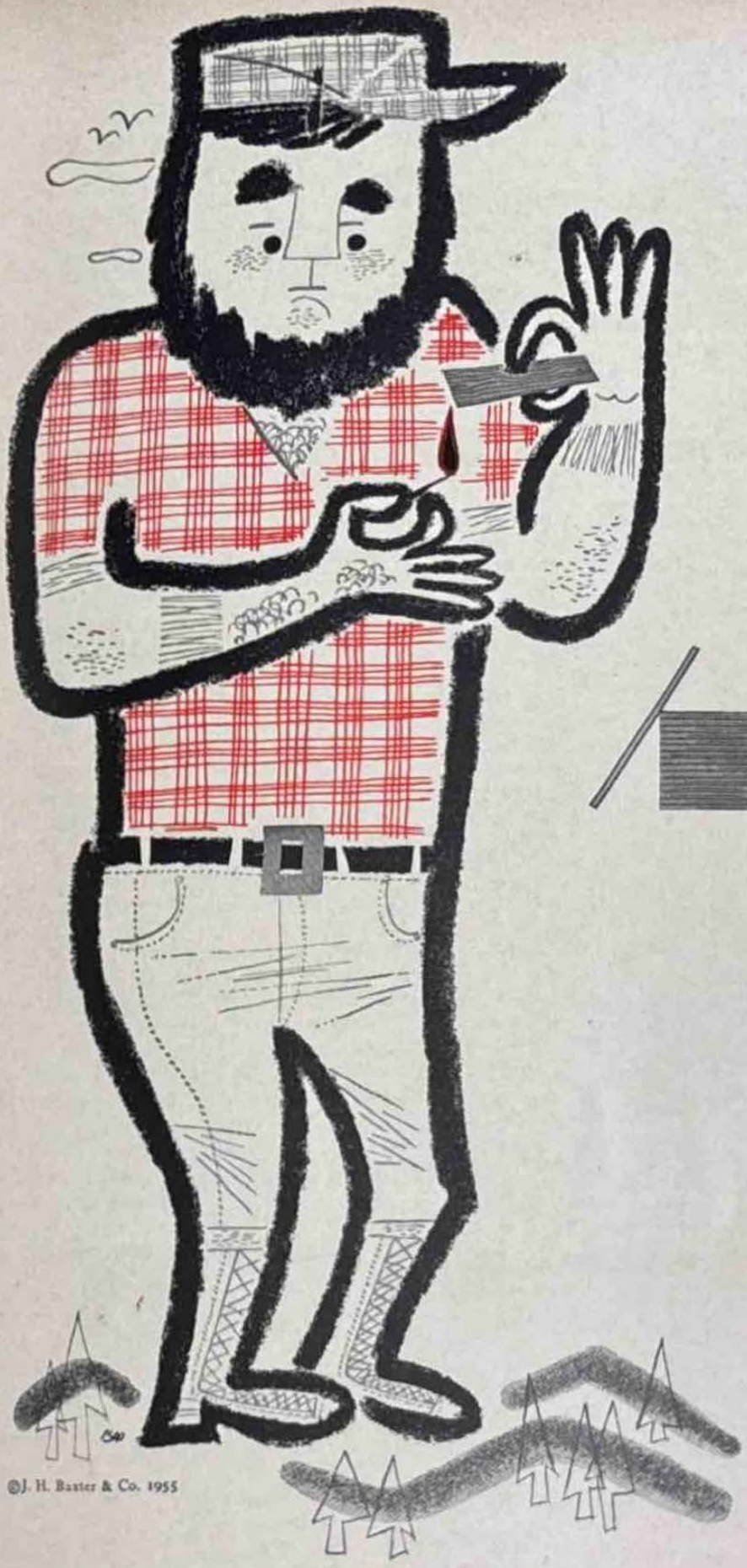
FLOOR PLAN indicates how architect planned for diners' privacy: either alcoves or tables spaced over wide area.



OUTLINE SPECIFICATIONS

(Remodeling)

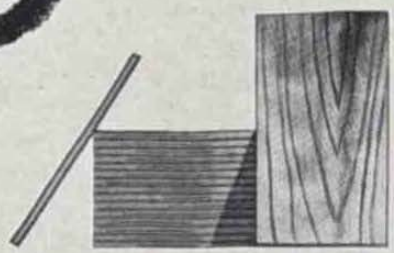
Floor Finish: Vinyl plastic.
Interior Wall Finish: White used brick veneer, burlap, wood.
Ceiling: Acoustical plaster.
Heating: Fired hot air gas furnace.
Total Cost: $60,000.
Cost per Square Foot: $16.
Total Area: 3,600 sq. ft.
Date of Completion: February 1955.



©J. H. Baxter & Co. 1955



"Can't get this dad-burned sliver o' wood to burn," rumbled Paul Bunyan to Babe, the Blue Ox. A mountain top trembled and fell, damming up a river. "Babe, what the cuss do you suppose them Baxter folks done to this here piece o' plywood? ✳ She's dry—but she JEST DON'T BURN!"

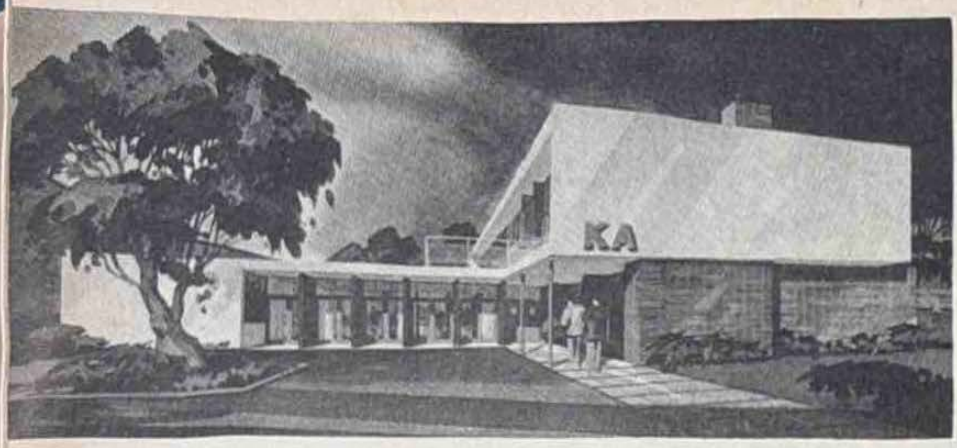


BAXCO
FIRE-
RETARDANT
PLYWOOD
(Pressure treated with Protexol)

✳ Sorry, Paul, old timer—but even you couldn't get that wood to burn! It's BAXCO's new fire-resistant plywood, pressure treated with Protexol fire retardants and kiln dried after treatment. These are the most effective and widely approved fire retardants. Protexol-Pyresote affords termite and decay protection as well to the treated plywood. Protexol meets all important fire hazard and flame-spread classifications. BAXCO will quote promptly—send your inquiry today.

RECOMMENDED USES: *Partitions . . . Core Stock—Panels and doors . . . Interior trim and finish . . . Barns, stables and stalls . . . Railroad car flooring . . . Ship and Yacht interiors . . . Cabinet work.*

J. H. BAXTER & CO. *120 Montgomery Street, San Francisco 4, California*



ROOF DECK for sun bathing is popular feature of fraternity house.

Kappa Alpha Fraternity House

ALBERT C. MARTIN & ASSOCIATES
Architects-Engineers

J. A. McNEIL CO.
General Contractor

Pledged to economical but good design

COLORFUL STONES in entrance walk, spaced with strips of redwood, blend with turquoise doors for striking effect.



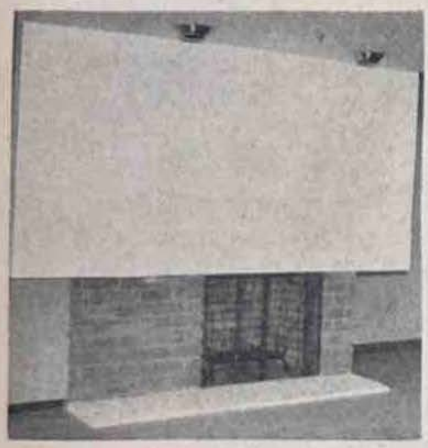
University of Southern California
University Park, Los Angeles

ECONOMY was the watchword when the architects designed two houses for fraternity and sorority row at Southern Cal. The fraternity house is finished; the sorority house, shown on the next page, is nearing completion.

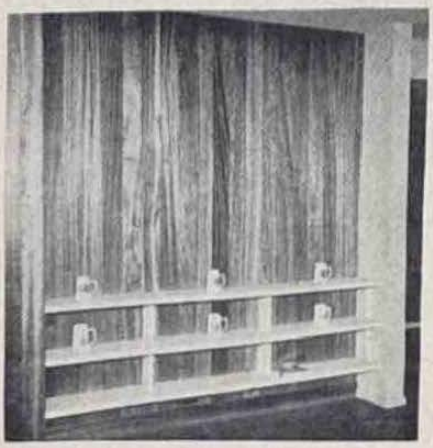
Because of the limited budgets, the strictly functional approach in a few areas resulted in an almost sterile design. But generally speaking the architects in each case planned a practical building constructed along simple, straightforward lines without sacrificing quality. For $10 and $13.40 per square foot, they incorporated such features as built-in desks, wardrobes and bureaus. And in each house the plan is flexible enough to meet future expansion requirements and to allow added touches—shelves, trophy cases and the like—as funds become available.

THE FRATERNITY HOUSE is sited on a flat lot, permitting horizontal emphasis. A large, old camphor tree

BAS RELIEF MURAL is planned for fireplace element. Meanwhile, stark white adds note of drama to chapter lounge room.

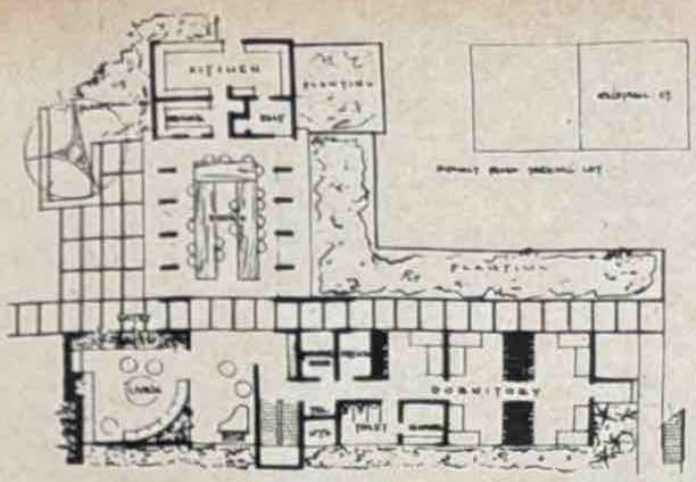


BUILDING is so designed that as funds become available, cabinets, built-ins, trophy cases and shelves may be easily added.



WALLS of dormitory section are painted in several bold colors, relieving simple, functional design of rooms.





FIRST FLOOR PLAN

OUTLINE SPECIFICATIONS

Type of Construction: Frame, two-story.
Exterior Walls: Higgins brick veneer, Philippine mahogany paneling, plaster.
Roof: Flat, composition built up.
Floors: Concrete, first floor; wood deck, second; colored concrete and asphalt tile finish.
Windows: Steel casement.
Doors: Philippine mahogany veneer solid core.
Interior Walls: Brick, wood and gypsum lath partitions; brick, Philippine mahogany and plaster finish.
Built-ins: Wooden desks, wardrobes, bureaus, shelves.
Ceilings: Plaster and acoustical tile.
Insulation: Mineral on roof and in sidewalls.
Heating: Forced air gas perimeter duct system in concrete slab floor.
Total Area: 8,000 sq. ft.
Total Cost: $100,000.
Cost per Square Foot: $10.
Date of Completion: January 1955.

on the site was taken into consideration as part of the design element.

Exteriorwise, brick was selected for its warmth and for its relation to the southern tradition of the fraternity; other materials were chosen for their practicality within specific areas. Inside, bright, warm shades of turquoise, rust, white, brown, yellow and sky blue were selected. It was felt that these colors best reflect the active lives of the young residents and compliment the severe structural frame. Turquoise is repeated at the entrance.

The two-story building contains 10 two-man bedrooms and a 10-man dormitory. The dining room accommodates 60, while the kitchen has an automatic dishwasher-dryer, garbage disposal and freezing unit.

Facilities include a combination patio and volleyball court, roof deck for sun bathing, indoor planting area, rooms for chapter meetings, study and game activities and trophy collections. Parking space is provided for 30 cars. Extras include a powder room for feminine visitors and an employees lounge.

Kappa Alpha Theta (Omicron Chapter) Sorority House

ALBERT C. MARTIN & ASSOCIATES
Architects-Engineers

L. D. RICHARDSON & CO.
General Contractor



PALOS VERDES STONE FACING lends warm, contemporary feeling.

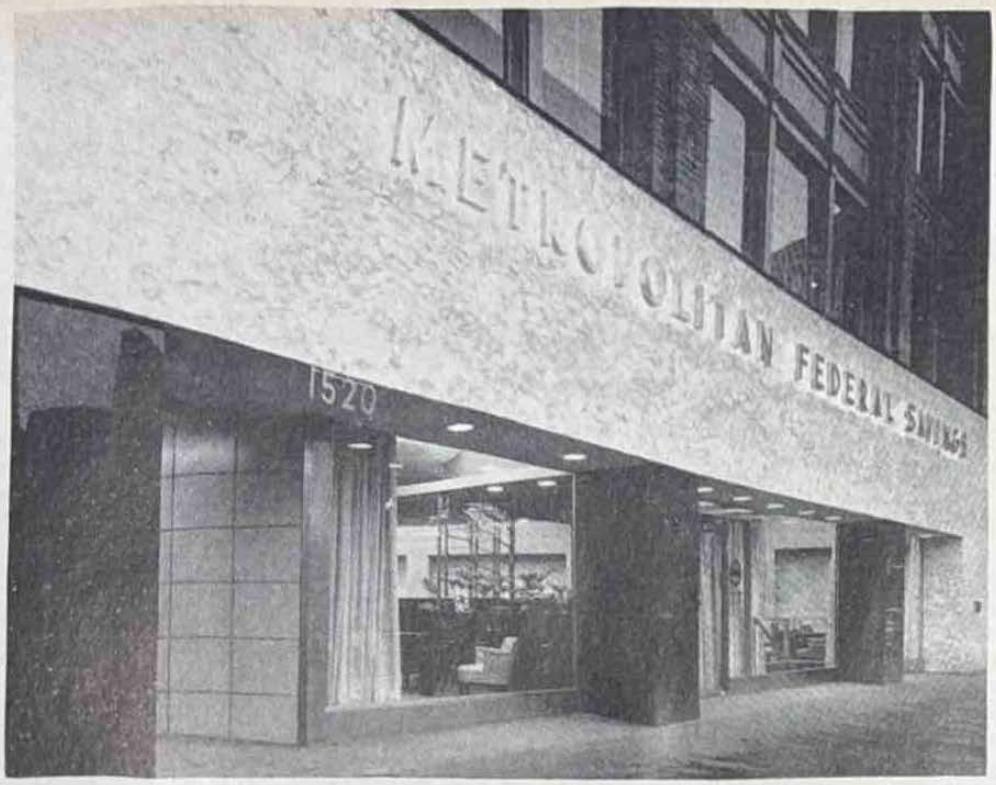
THE SORORITY HOUSE, limited by the width of the site, is basically a three-story rectangle with extended balconies and indented covered patio areas. The design was developed around simplicity of flow and form to provide a pleasant background for living.

Palos Verdes stone was used as facing three stories high in certain areas because of the warm, contemporary feeling it lends to the structure. Since the Los Angeles city code does not cover the cantilevering of the stone facing 34 ft. high, an unusual construction technique—a "tie" system on a steel frame—was applied to meet the special requirements of an earthquake area.

The house contains 20 two-woman rooms and a dormitory for 10. The housemother's suite is on the second floor. Complete kitchen facilities are included as well as an electric ironer, washer and clothes dryer. A room for beauty care provides hair-drying equipment. The dining room is divided by two folding panels.

Cantilevered fireplaces were designed by the architects, working in conjunction with interior designer Carroll Sagar who coordinated the theme of the decor. Other features are a roof garden, recreation court and extensive parking lot.

Philippine mahogany paneling, aluminum sliding doors and sash, rubber flooring tile and base, light-diffusing hung plastic vinyl ceilings and acoustical tile ceilings have been used in the $200,000 structure, to be completed this month.



ITALIAN WHITE MARBLE and Norwegian emerald pearl granite dramatize simple exterior in downtown Seattle.

Visual delight in the heart of down town

Metropolitan Federal Savings
and Loan Association
Seattle, Washington

LaMONTE J. SHORETT, AIA, Architect
WORTHINGTON & SKILLING, Structural Engineers
STERN & TOWNE, Mechanical Engineers
BEVERLY A. TRAVIS, Electrical Engineer
HOWARD S. WRIGHT & CO., INC., Contractor

OUTLINE SPECIFICATIONS

Exterior Trim: Italian Cremo white marble, Norwegian emerald pearl granite, bronze supplied by Seattle Bronze Co. and Gladding, McBean terra cotta.

Doors: Herculite.

Floor Finish: Vinyl cork in work area; carpeted in public area; Armstrong asphalt tile in basement.

Ceilings: Inverted saucer of sprayed acoustical plaster in public area; elsewhere Neo-Ray egg-crate suspended system.

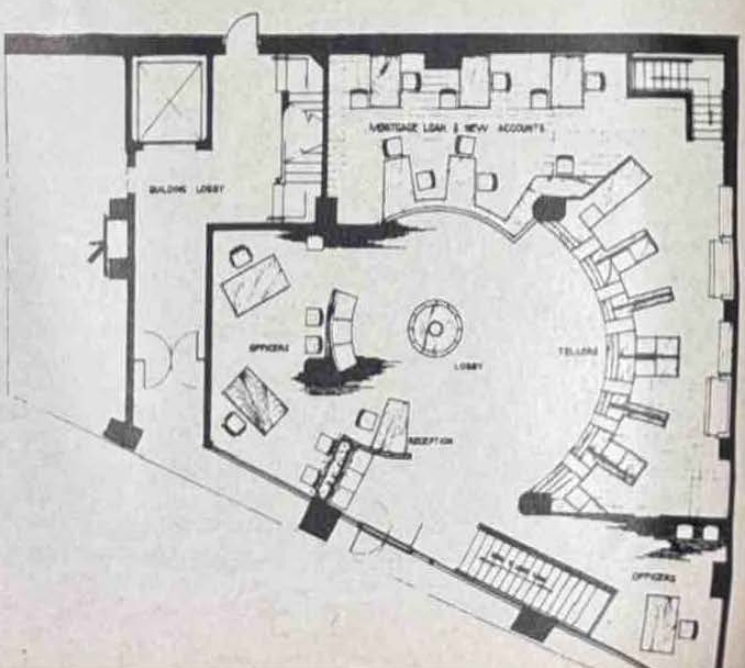
Walls: Plastered and papered, with extensive walnut paneling upstairs and down; wall-to-wall and floor-to-ceiling mirrors in officers' section.

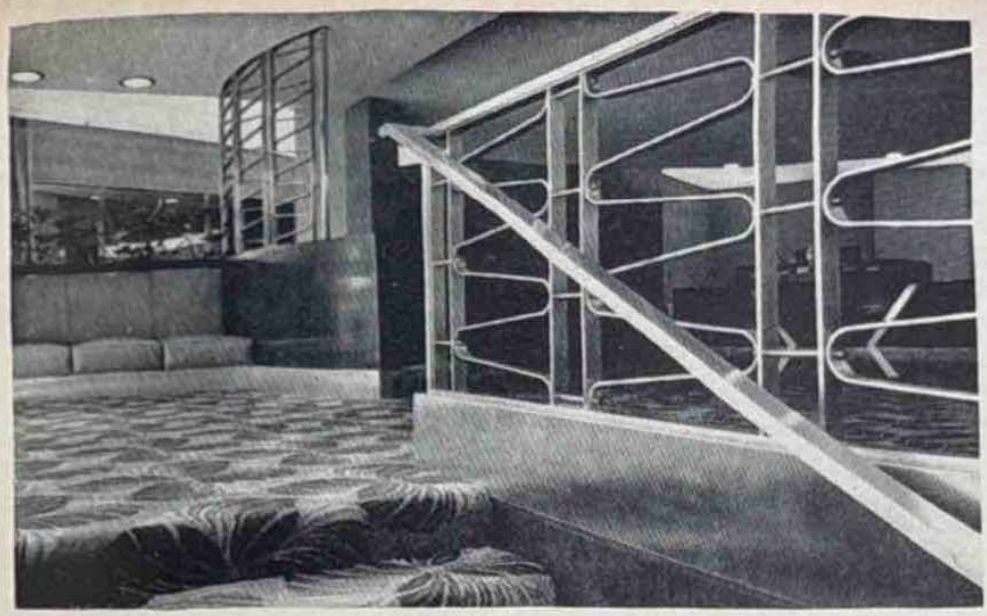
Lighting: Continuous fluorescent tubes providing 150 foot-candles on working surface.

Ventilation: Zoned air conditioning with Worthington self-contained unit.

Total Cost: $230,000, including architect's fee and furnishings.

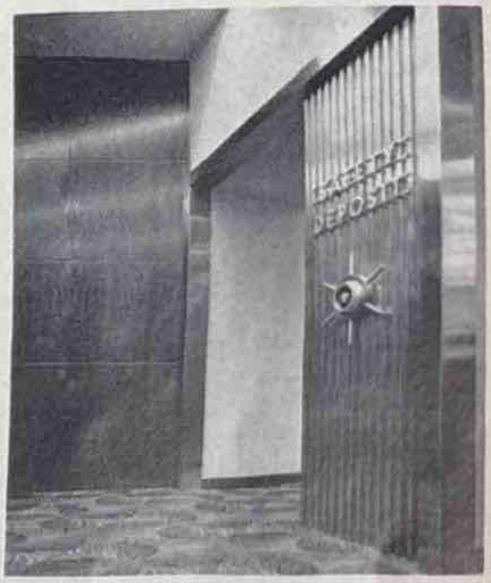
Date of Completion: November 1954.





BRONZE RAILING leads to work area in basement, which also has storage space and coffee shop with self-contained kitchen.

STAINLESS STEEL and bronze lettering which covers column at bottom of stairs is suggestive of vault but safety deposit boxes actually are at further end of passage.



LOCATION PLANNING by the client and the architect has paid off handsomely for the Metropolitan Federal Savings and Loan Association, whose total assets have nearly doubled within 15 months, according to president David T. Young.

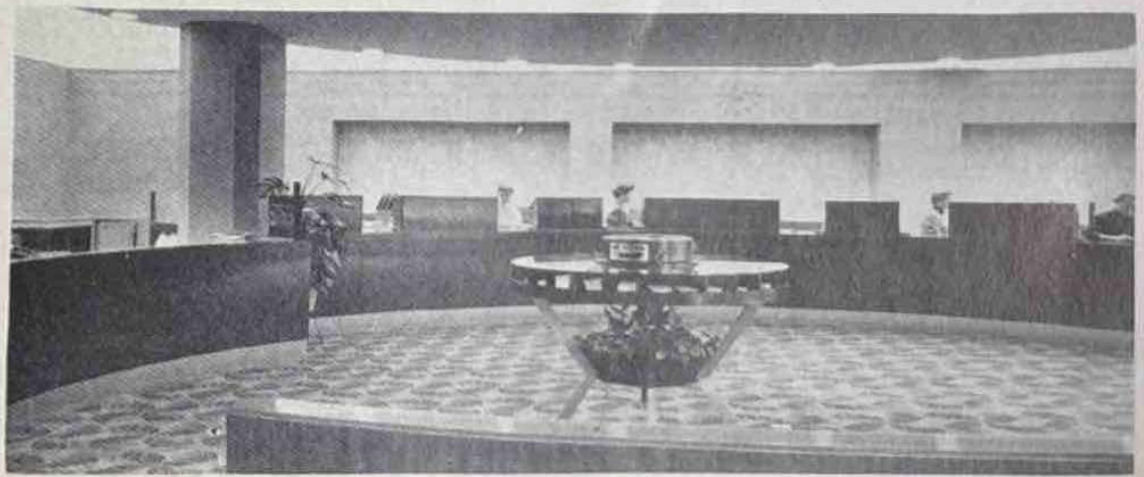
After searching 10 years for a key site, the organization purchased a triangular shaped building in the heart of downtown Seattle and completely gutted that portion which its headquarters would occupy. It was agreed that the simplest architectural form the offices could take would be a sufficient contrast with the generally cluttered-up, gingerbread appearance of the immediate area.

Preliminary plans called for an all-glass front but orientation studies indicated that this would be untenable for office personnel. The sun hits hard from the west, since the wide expanse of the diagonal street offers little protection from the afternoon rays. Consequently the glass line was brought down fairly low, banded with white marble and touched off with granite and bronze to give a dignified yet striking tone to the simple exterior.

Looking through the large expanse of glass, the passer-by sees that the same dignity has been carried inside where fine walnut paneling and bronze trim blend with unusually attractive carpeting and wallpaper. Only one structural column was removed in the circular public area from which the tellers' cages splay out, increasing the work space.

To accomodate new Burroughs Sensimatic machines being used for the first time in the Seattle area, the architect designed a mock-up which later became an actual plywood cage tested by association personnel. The result: a near perfect teller's cage for this highly specialized pre-audit system which has been adopted by other savings and loan groups.

TELLERS' CAGES splay out from circular lobby, increasing work area where it is needed most. Walnut paneling is used extensively here.

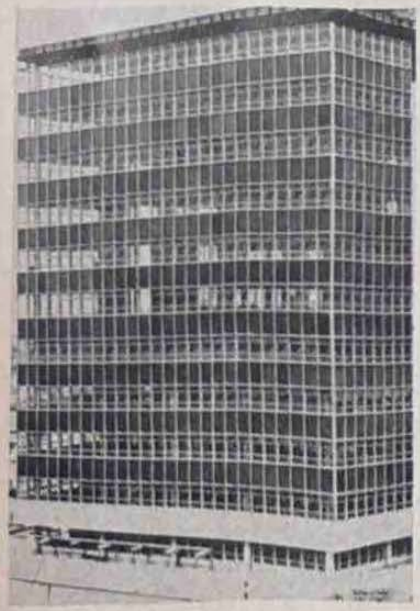


Architectural primer for porcelain enamel

'To those architects desiring a new and versatile material for expressing creative imagination, porcelain enamel offers a wide spectrum of colors and variety of textures'



METAL SKIN of Standard Federal Bank Building in Los Angeles consists of blue-gray porcelain enameled iron bonded to thin core of aluminum honeycomb. Panels are 5/8-in. thick and about 3 ft. 8 in. wide and 6 ft. 9 in. high. Three panels are placed side by side to form spandrel about 11 ft. wide. Panels are set in extruded aluminum frames attached to clips to sill-high concrete sprandel ware. Architect: Welton Becket & Associates.



MORE THAN 75,000 FT. of porcelain enameled curtain wall sheathes 12-story First Security Bank Building in Salt Lake City, Utah, ready for occupancy this month. Much of wall consists of shaped vertical ribbing with textured ceramic surface, framing window areas. Spandrels are new type of panel designed to create waffle effect. Color scheme is rust with parts of facade in off-white and gray.

by J. G. TERRY
Development Supervisor
Development Engineering Dept.
Armco Steel Corp.

PORCELAIN ENAMEL is a hard, durable vitreous finish composed of inorganic mineral materials. It is much the same as ordinary glass in properties and color ranges. This material is principally fused to iron or steel.

These finishes have long been familiar on sinks, plumbing ware, kitchen appliances and water heater liners. Vitreous coatings provide excellent protection from corrosion, high temperatures and abrasion. In the past, this material has been limited to these specific fields since most people erroneously believed that it was fragile and could not stand everyday use in industrial service.

Pioneering work by several of the enameling companies, as well as by steel and enamel producers, has indicated that special base metals, especially compounded enamel substances or frits, and special enameling practices have prepared porcelain enamel for the most rigorous corrosive and heat-resisting service. Naturally, the enamel formulations differ and careful selection must be made for each individual application.

However, the material is of such versatility that uses are limited only by the imaginative bonds of the designer. There are few places today where porcelain enamel is not recognized as an excellent material for permanent installation. Not the least reason for this is the little or no maintenance required.

Past applications offer little guidance in planning uses for porcelain enamel in architecture. The shiny opaque white, long associated with the antiseptic cleanliness of the kitchen advertisements, has certainly no recommendation in it to the designer of monumental buildings. But the development of matte finishes and the compounding of pastel additives has opened a new and heretofore unexplored field for porcelain enamels. Architects who have seen these materials recognize that here is a material with an unlimited range of color combinations for use in architecture. It covers a wide range of applications, from facade to interior trim, as well as public areas such as restrooms and those for food preparation.

The reasons why porcelain enamel is an accepted architectural material are many. First, Bureau of Standards tests have demonstrated that special formulations are non-fading even in the most severe atmospheres. Second, the smooth finish is self-cleaning on vertical surfaces because of the washing action of falling rain. The little soil that is not removed in this manner can be easily cleaned with a water wash at five- or ten-year intervals. A third characterstic is the high abrasion resistance of porcelain enamel, which offers protection from scuffing, heavy traffic or harsh abrasive cleansers. And fourth is its excellent resistance to high temperatures. Being inorganic on metal, it will not burn or support combustion.

Thus porcelain enamel on iron or steel offers the architect a color

---

A new concept of metal curtain wall construction is creating widespread interest in the architectural and building fields. Several years ago the Porcelain Enamel Institute commissioned William Lescaze, FAIA, of New York City to investigate the requirements for such walls and to develop recommended designs. Architect Lescaze came up with this definition:

"A curtain wall may be defined as an exterior wall which is non-load-bearing and is supported at each floor by the structural framework of the building. The conventional brick and masonry walls used in steel and concrete framed buildings are curtain walls also but these present certain inherent disadvantages, viz., great weight, considerable thickness, low insulating value, etc."—The Editor.

---

scheme that remains the same year after year with little, if any, cleaning needed to keep the building looking fresh and new. Even in areas of heavy usage and hard wear, such as washrooms, porcelain enameled wall panels and partitions always look clean and attractive.

Porcelain enameled steel panels have been used in the difficult field of remodeling exteriors of obsolete buildings. Here the fresh colors and easy installation make this material of primary consideration to both owner and architect. It is economical too, for there have been a number of jobs where increased rental more than offset the cost of remodeling. And it solves the problem of heavy unsafe cornices and parapets falling on pedestrians and traffic.

But porcelain enamel today goes far beyond face lifting and renovation work. Its use is increasing by leaps and bounds in the field of monumental buildings. We find the Hilton (Statler) hotel chain building hotels with porcelain enamel curtain walls—at a tremendous saving over conventional masonry. The United Mine Workers are planning a series of hospitals with a rigid budget. Porcelain enameled steel was the only material approaching the cost goal. In schools—a notorious low budget building field—porcelain enamel panels are also finding ready acceptance because of maintenance and initial cost factors.

In this field of monumental buildings a new concept seems to be arising. Architects are using window frames which require no fire resistance rating, and after permit issuance are requesting deviation in applying panels in the sash openings. This plan offers still other advantages. Panels glazed into sash openings will be guaranteed for watertightness the same as windows. Recaulking schedules should be about the same as for glass. Horizontal expansion and deviation can be compensated behind mullion and still covers just as in rough openings.

An interesting yet often overlooked application of porcelain enamel is seen in architectural decoration. Here porcelain enamel on steel offers many unusual architectural effects. Silk screen techniques used by enamelers permit relatively low cost use of color and texture in widely varying designs.

The many architectural aspects of porcelain enamel on steel have prompted questions on how to use this material with regard to design of parts, radii, fabrication and flatness. These questions may continue but need not limit the architect if close working relations are maintained with the enameler during layout and detailing.

Actually, there are only a few simple rules for the architect to follow and the enameler will do the rest. The main points to be remembered are these:

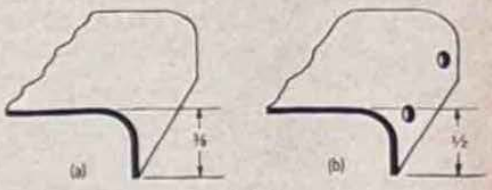
1. **Any corner, bend or edge must have a 1/4-in. minimum radius.**
2. **Depth of flange must be 3/8-in. minimum.**
3. **Holes should be at least 5/16-in. minimum diameter and at least 1/16-in. greater than bolt diameter.**

With these simple precautions, little difficulty should be encountered in obtaining satisfactory work from any commercial enameling shop.

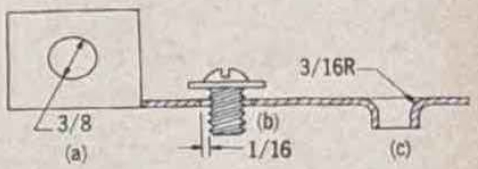
Since porcelain enamel is a kind of glass, reasonable care must be taken to prevent fracture. However, with proper design the rigidity of the metal to which it is fused minimizes this hazard to the point where it may be forgotten. For example, an old and accepted use of porcelain enameled iron is in coal chutes. Here hard knocks and abuse are the rule rather than the exception, and porcelain enameled chutes provide long satisfactory service. Even when coating failures have been reported, there was no undercutting or progressive corrosion damage.

To those architects desiring a new and versatile material for expressing creative imagination, porcelain enamel offers a wide spectrum of colors and variety of textures. The future should see more and more of these effects, often desired, but seldom realized, with the evergrowing use of this material.

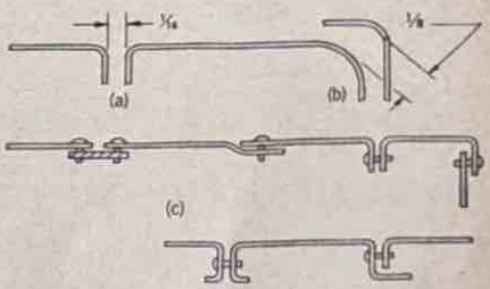
SHEET METAL DESIGN CHART



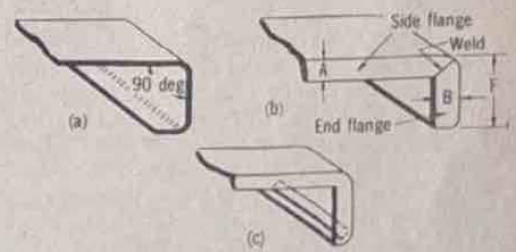
FLANGE DEPTH must be 3/8-in. minimum (a). If holes are punched in flange, depth should be 1/2-in. or 9/16-in. Radius of curvature for flange should be 1/4-in. minimum. Insufficient radii cause covering troubles and present chipping hazard.



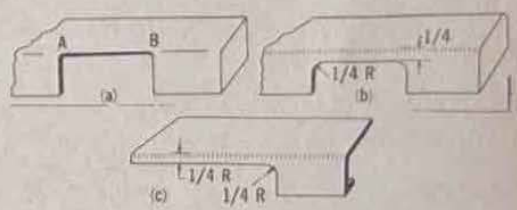
HOLES should be 5/16-in. diameter or larger (a). Hole should be 1/16-in. larger than bolt diameter (b). Extruded holes (c) should have minimum radius of 3/16 in.



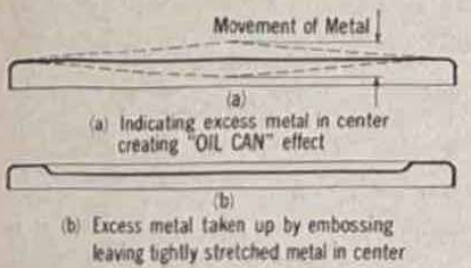
ALLOWANCE should be made for enamel thickness in designing assemblies. Use 1/16 in. between mating parts to allow for fabrication deviation and enamel thickness.



PROVIDE FLANGE SUPPORTS if possible. In (b) A equals B equals 1/3 F for best design practice.

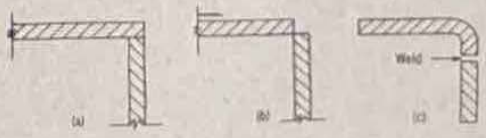


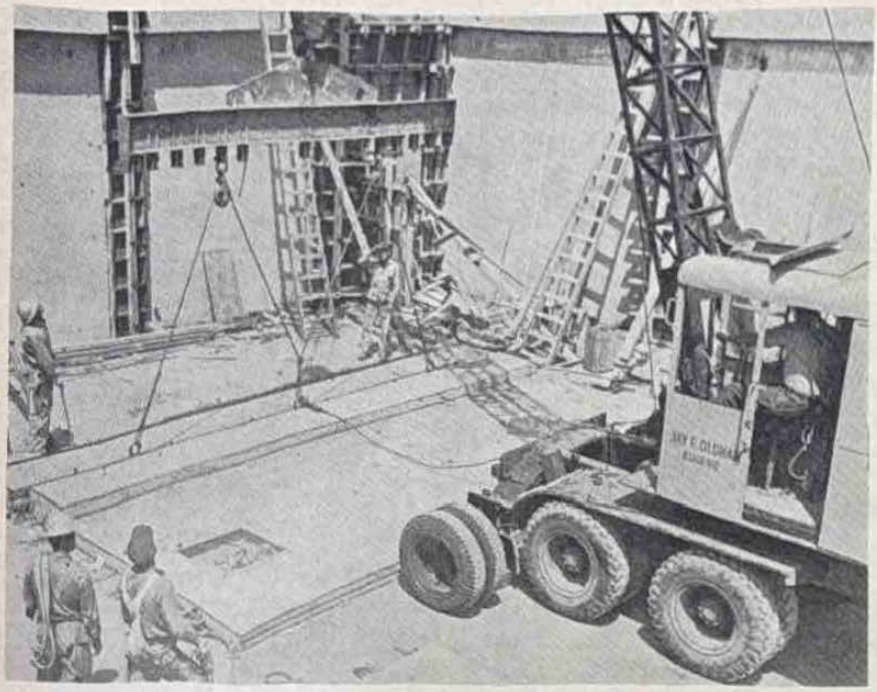
CUTOUTS in flanges should be avoided. If needed, (b) shows good practice, (a) and (c) poor practice in which enamel defects may be expected.



EMBOSSING is excellent method of stiffening panels and reducing deformation in enameling. Minimum radii remains same: 1/4 in.

WELD as shown in (b) or (c). In (a) incorrect practice is illustrated.





CRANE CAN MANEUVER with loads up to 20 tons as small dual pneumatic wheels replace conventional outrigger screws. Outriggers devised by Oregon contractor fit three different rigs.

Mobile outriggers increase versatility of crane

THE TILT-UP method of wall construction has appeared for some time to be a half-step ahead of the equipment used to raise tons of pre-poured concrete panels into place.

That was the thought, at least, of Jay F. Oldham, Oregon contractor and heavy equipment expert, who evolved a new method to speed erection of the W. T. Grant Co. store in Eugene and in so doing made his crane equipment more versatile. Oldham placed panels for Hilp & Rhodes, San Francisco, general contractor.

There are 20 panels for the first floor and 10 for the second floor of the project, designed by John Bolles, AIA, of San Francisco.

The large department store building is one of the first major structures in Eugene to utilize the tilt-up method and the first on which the new invention was tried and proven successful.

Oldham's idea: A mobile set of outriggers which permits a truck crane to pick up and walk with up to 20 tons without visible strain. Up to this development, the crane was anchored by immobile outriggers and considerable time lost in jockeying equipment through jerky stages of blocking, shifting and re-blocking to properly place heavy panels.

Made in Jay F. Oldham shops under direction of George McKibben and Oldham, the mobile unit is 12 ft. from outside to outside wheel. It is transported to the job by an accompanying service pickup truck.

Fairly simple in construction, the device consists of a steel axle welded to a plate which is bolted to a plate on the end of the I-beam. Duo wheels add stability and help support the load. Identical alignment permits the same bolts used on the stationary outrigger screws to be used with the mobile unit which attaches readily to any of three varying Thew-Lorain cranes used in Oldham's operations.

An unusual problem confronted contractors when it was found the basement floor elevation was actually 2 ft. below the then existing grade water line. In spite of this, the basement is fully sealed.

To accomplish this, a 2-in. seal was first put down followed by a membrane. A second seal was then laid and reinforcement placed. Atop these layers the 12-in. concrete slab was poured. Both open pit and well points were used to pump the area.

Builder hauls long lumber with tubular steel bar

A unique and effective bar to permit the safe hauling of loads of long lumber on short-bed trucks has been developed by a Denver, Colo., home builder who specializes in custom construction.

Harry E. Scott's pickup truck serves as his workhorse and the idea for the new gadget came as he was trying to haul 400 fbm. of 18-ft. stock to a jobsite. He lost the load three times in as many blocks and finally had to call in a larger truck to get the material delivered.

The thought occurred to the builder that he could have handled the load if he had a bar across the front of the bed of the truck to restrain the upward motion created by the overhang. The result: Scott's Lock-Tite bar of rugged construction using tubular steel.

Home builders who want additional information concerning the Lock-Tite bar may write Reader Service, Pacific Architect and Builder, 2418 Third Ave., Seattle 1, Wash.

The bar will hold at any position in its operating range and the lock can be released with one hand. Material is loaded beneath the bar. When the truck is loaded, the bar is compressed with foot pressure.

Scott bands light stock at the overhanging end so that it will not feather out when the truck is turned. The lock is designed to permit downward pressure only and it must be released by a trip lever.

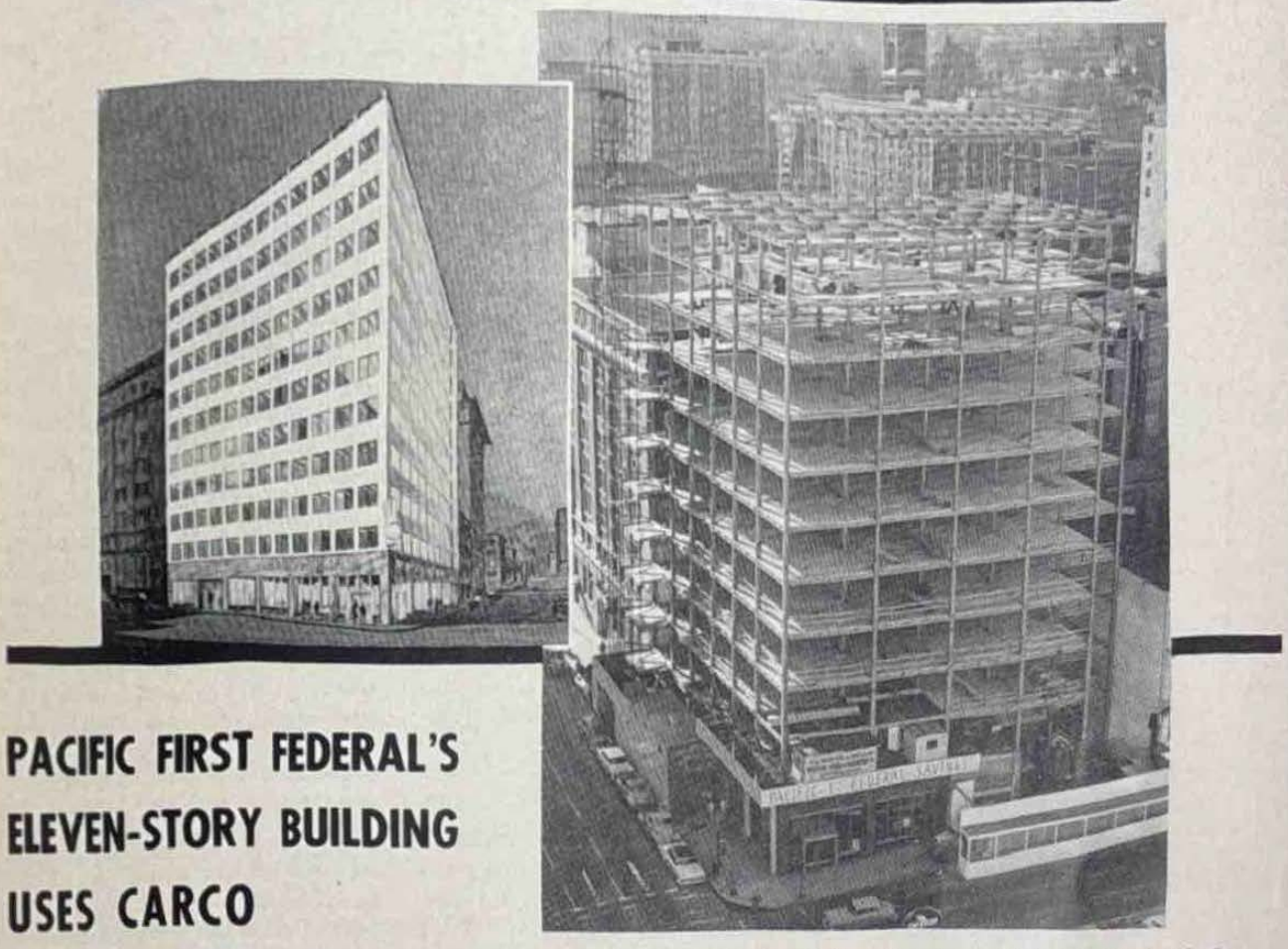
The bar is bolted through its frame to the sides of the truck, 6 to 8 in. from the front of the pickup bed. The head frame and bar can be removed in a minute. A friction clutch prevents the lock bar from releasing its downward pressure.

Scott has hauled lumber, timber and irrigation tubing of all kinds, lengths and sizes as well as tubular concrete forms, full length reinforcing rods and 12-ft. drywall.



TUBULAR STEEL Lock-Tite bar is displayed by its inventor. Note bar installed on pickup truck.

ANOTHER EXAMPLE OF CARCO "one stop" STEEL SERVICE



PACIFIC FIRST FEDERAL'S ELEVEN-STORY BUILDING USES CARCO FABRICATED STEEL

Architect: Stanton, Boles, Maguire and Church, Portland, Ore.
Structural Engineers: Cooper and Rose, Portland, Ore.
General Contractor: Hoffman Construction Co., Portland, Ore.

Late in 1956, the Pacific First Federal Savings and Loan Association of Portland, Oregon, will have completed, at a cost of about $2,000,000 their handsome, new building.

Located on a 100' by 100' site at the corner of Yamhill Street and S.W. Sixth Avenue, the new structure is to be eleven stories and basement.

The enlarged quarters of the bank will occupy 70% of the basement and first floor. The remaining area of about 76,500 square feet will be rented.

The lower floor, including the banking facilities, will be trimmed with red and black granite. Above the first floor, the two street fronts and the west wall are to be faced with white marble. The upper eight floors will have identical window spacing. All windows will be double glazed in aluminum frames.

A few of the other features of this modern structure will be complete air conditioning, three high-speed automatic elevators, cellular steel floors for flexibility of electrical services and extensive sound conditioning.

Worthy of note is the fact that the original five story, reinforced concrete building was demolished and the new structure is to be erected while the bank continues to occupy their quarters in the first floor and basement.

Pacific Car fabricated and erected 485 tons of structural steel for the new Pacific First Federal building. High tensile bolts were used to join the steel framing. This type of erection is quiet, fast and economical.

Let Carco help you solve your steel problems regardless of whether your needs are large or small. Remember, Pacific Car offers buyers of structural steel not only the largest fabricating facilities in the Northwest but also a "one-stop" steel service. This means money-saving ideas and suggestions, prompt engineering detail and estimates, fabrication and erection.

PACIFIC CAR AND FOUNDRY COMPANY

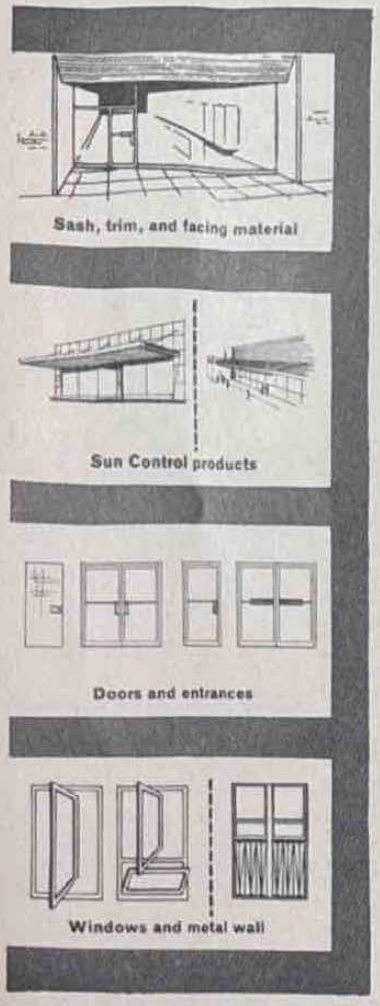
CARCO®

STRUCTURAL STEEL FABRICATION AND ERECTION, STEEL CASTINGS, FORGING, HEAT TREATING, MACHINING, HOT DIP GALVANIZING, TRACTOR EQUIPMENT: Winches, Hoists, Arches, Log Carts, Rigging.

STRUCTURAL STEEL DIVISION—120 W. HUDSON—SEATTLE 4—RAinier 5355 MAIN PLANT AND OFFICES—RENTON, WASHINGTON—OLive 4511

THE KAWNEER TOUCH...

THE RESULT OF 50 YEARS OF ARCHITECTURAL COOPERATION



Throughout its 50 year history Kawneer has worked closely with architects in the development of architectural metals. The invention of resilient sash by the *architect-founder* of Kawneer revolutionized store design and retail merchandising. It was the foundation upon which many other architectural products were developed and manufactured over the years. Since the very first installation of Kawneer sash in the Johnson Department Store in Holdredge, Nebraska, in 1906, to the many thousands of modern store fronts and other buildings today with Kawneer doors, sash, trim, windows, metal wall and sun control products, compelling design has been the main consideration.

Pioneer in Aluminum Fabrication

The ability to give architectural metal products a certain "touch" has given Kawneer the opportunity to build products for all types of buildings. For example, Kawneer pioneered the use of aluminum for curtain wall construction and windows. Such notable buildings as the St. Paul Post Office, the Mellon Institute of Industrial Research and Boulder Dam Power House featured the famous Sealair windows and cast aluminum spandrels. Today, outstanding monumental edifices like the new, modern Tishman Building in Los Angeles and the Equitable Life Assurance Building in San Francisco feature metal wall construction by Kawneer. In the 30's, Kawneer was the largest aluminum window manufacturer in the U. S. The famous Sealair name was known as the ideal metal sash for home, office and factory. World War II stopped production of this window, but today it has returned again with outstanding features designed for the architect.

The great diversification of Kawneer architectural products and the company's leadership in the field of store front design, to a great extent, is due to the cooperation between the architectural management of Kawneer and the practicing architect. When it became apparent that World War II was ending, Mr. Lawrence J. Plym, President of the Kawneer Company, engaged a leading architect to help develop Kawneer-advanced store front design theories.

By this time, Kawneer had had experience in working all of the commercial metals—copper, bronze, steel and aluminum. It became apparent that aluminum was the ideal architectural metal because of its attractive appearance, corrosion-resistance, light weight and workability.

New Store Front Concept Created

The ideas that the consultant architect and the Kawneer staff developed have since become criteria for the entire industry. Useless ornamentation, or "rococo" were eliminated. The intrinsic beauty of aluminum was accentuated in simple, functional metal design. The concept of the "open front" was advanced. It was believed that the desired effect of the full vision front would be attained when framed. As a result, many king-size trim-mouldings were introduced into the Kawneer line. The tremendously appealing flush glazing was developed. The result of this cooperation was the "K-47" line of architectural metals that have a professional design character, yet can be purchased out of stock.

Out of the post-war development came a new idea in aluminum facing. This is the product we all know today as ZOURITE. The consultant architect designed the profile of this facing while Kawneer engineers were experimenting with certain types of finishes. Although a regular alumilite finish

was in demand, a group of colors would make this product much more versatile. Many experiments were conducted with lacquers, baked enamels, paints and porcelain. None were quite satisfactory. Then, despite the low melting point of aluminum, Kawneer and DuPont pooled resources and for the first time, applied porcelain enamel to aluminum successfully to a production process. Today, Zourite is available in 10 different colors and a new additional profile has been designed that comes in pastel shades and alumilite. The color and profile combinations give the architect great versatility of design. Since the first Zourite, the use of color in architectural metals has become one of the major design focal points.

The K-47 line of architectural metals brought forth new concepts in store design. As a result of this research, many books were published to assist the architect. Illustrations developed at great expense are still available to act as guideposts.

In Constant Touch with Architects

The interest in new products grew to an enthusiastic pitch as a result of the immediate post-war development. Kawneer's Research and Development Department grew by leaps and bounds. The size necessitated formal working agreements with architectural firms. These firms act as consultants by establishing design criteria for proposed projects. They help in specifying the desired features, functions, size and modular requirements. Throughout the development period, the solutions to these requirements are reviewed by practicing architects.

To round out the development work in relation to the architect's needs, an architect with a heavy background in architectural research is retained on the Kawneer staff. He is concerned with desirable sizes and modular standards. He works with a group of the more prominent architectural firms so that their thought is brought into the design considerations.

Finally, Kawneer makes sure by surveying a large cross section of architectural firms during the formative stage to gather opinions and demands. If you have seen the phrase "Demand-Designed" in regard to a Kawneer product, this survey technique is the reason why.

After 50 years of close cooperation with architects, Kawneer can truthfully claim to have always been in "touch" with the profession and construction industry. Today the line has greatly diversified to include metal wall, flush doors, sun control products and other assemblies for big buildings, little buildings, stores, offices, factories, schools, et al. The organization has grown to include 12 factories and warehouses, over 110 salesmen covering the U. S., Canada and Latin America, and more than 1200 factory-trained dealers. From research to the installed metal, Kawneer devotes itself to the needs of the architect.

HOW YOU BENEFIT TODAY FROM THE KAWNEER TOUCH

- Good workmanship by skilled artisans for better-looking buildings.
- Extensive and modern production and warehouse facilities to insure prompt delivery.
- Research and development section cooperating with architects, to design new products for the construction industry.
- Thoroughly experienced engineers to provide precision products for quick and accurate erection.
- Nationwide company sales force for immediate counsel and service.
- Large factory-trained dealer organization for quality installation to conform to specification and design.

NEW PRODUCTS to commemorate 50th Anniversary

Kawneer maintains an extensive Research and Development program to contribute new products to the construction industry. Very soon, a number of new products will be announced in commemoration of its 50th Anniversary. Look for the announcement in the coming issues of this magazine.



The first truly modern store front with large display windows in Kawneer resilient sash.



The St. Paul Post Office and Customs House features Kawneer windows and spandrels.



The modern Tishman Building in Los Angeles features Kawneer Metal Wall including specially constructed louvers.



The modern store front of today represents the new "open front" concept for greater merchandising effectiveness.

50TH ANNIVERSARY
Kawneer
General Offices NILES, MICHIGAN
ARCHITECTURAL PRODUCTS DIVISION
1906–1956

foremost fabricator of aluminum and plastics for the construction, aircraft and appliance industries

West leads nation in housing activity during 1955

Based on a ratio of housing starts to population, western states are leading the nation in housing activity, a survey by the United States Department of Commerce shows.

During 1955, the West, with 139 starts per 10,000 population, was 81% ahead of the second highest southern states and 70% higher than the national average.

The department's year-end resume of the national construction picture points to:

More single-family residences

Shift to larger homes

Higher materials prices

Higher Wages

Large cities continued to gobble up the major share of new housing, with three-fourths of the starts located in metropolitan areas during 1955. As in 1954, Los Angeles led the 10 top metropolitan areas in number of housing units last year and the San Francisco-Oakland area was sixth.

Nationwide, the dollar value of new private home building in 1955 rose to nearly $15 billion, highest since the record year of 1950. The importance of housing to the construction field can be seen in the fact that this $15 billion is 36% of the entire national bill for every type of construction.

More than 1,300,000 privately owned housing units were begun in 1955, a bare 52,000 below the record year of 1950.

Reflecting the strong trend toward home ownership, more one-family houses were put under construction in 1955 than in any previous year. Nine out of 10 dwelling units started were single-family.

Another outstanding trend in the home building field is the shift from smaller to those in the moderate size range and the increasing number of three-bedroom houses.

In other building fields, plant expansion climbed 18% to a record $2.4 billion. Increases were especially substantial in the iron and steel and nonelectrical machinery groups and in the rubber and paper industries. Dollar volume for both store and office buildings rose substantially in 1955.

While most of the office buildings went up in the cities, over half of the stores and gasoline and service stations were scheduled for the fast-growing suburbs.

Substantial advances in the prices of metals and metal products, coupled with wage increases, kept construction costs rising steadily until November of last year when they began to level off at a rate about 5% higher than 1954. More than half of the increases occurred last summer when rising prices for steel, copper and aluminum were reflected in the prices of such products as structural steel shapes, reinforcing bars, pipe, plumbing and heating equipment and metal sash.

In general, the greatest increases occurred in metal products, structural clay products and the hardwoods. Moderate increases of 3% or less were reported for Portland cement, concrete products, paint and paint materials, building board and the major softwoods. Millwork and insulation material prices declined.

Employment also increased in 1955, rising some 4% on a national scale but considerably higher in the Pacific States and in New England. Wage rates continued to advance, the most frequent increase provided in new union contracts being 10 cents.

Fringe benefits also continued to gain in importance.

For the second consecutive year, work stoppages declined.

NONFARM HOUSING STARTS IN RELATION TO POPULATION

	Number of starts per 10,000 population—in relation to total population		Number of 1955 starts per 10,000 population—in relation to population increase between 1954 and 1955
	1954	1955	
United States	77	82	4,149
Northeast	58	66	3,528
North Central	69	74	3,669
South	74	77	5,930
West	134	139	3,918



It's better to plan than patch (telephone facilities, that is)

People who are shopping for a new home like to feel that every modern convenience has been built into the house they select. Exposed wires, for example, are a dead give-away that telephone outlets were put into the house rather than planned into it. Yet it costs so little to put built-in telephone facilities in your plans.

Why not take advantage of Pacific Telephone's free Architects and Builders Service. Let us help you plan the kind of telephone facilities every buyer expects to find in his home.

Put built-in telephone facilities in your plans

Pacific Telephone

Building permits hit nearly $200 million

REVERSING the trend of the past few months, dollar volume of building permits in the five western states climbed back up to nearly $200 million for January.

The increases were fairly widespread with slightly more than half of the 116 building permit agencies reporting increases over a year ago.

The $197,528,347 total for January is a 15% increase over a year ago, thus halting a trend begun last October when monthly dollar volume began to slide below the previous year's totals. The January volume, highest since last September, is also a substantial 32% over December of 1955.

On a statewide basis, only Washington reported a decrease from last year, 25%; California was up 23%; Oregon, 15%; Montana, 5%; and Idaho, 82%.

In comparison with December totals, Montana had a 60% drop and Idaho, 59%, but California was up 34%; Oregon, 67%; and Washington, 21%.

Most of the major metropolitan areas reported increases over both January 1955 and December. Los Angeles was up $5¾ million over a year ago; Los Angeles County $5 million; Orange County $7 million; San Francisco $6¾ million; Portland $1¼ million; Spokane $¾ million. King County dropped $2½ million; Seattle was down $2½ million; and Multnomah County was down $½ million.

Dwelling units continued to take the lion's share in metropolitan areas, as shown in the following breakdown of building permits issued by a few major agencies during January:

	DWELLING UNITS	COMMERCIAL & INDUSTRIAL	PUBLIC
Portland	87 ($ 843,475)	20 ($1,812,325)	3 ($ 225,000)
King County	321 ($ 2,947,360)	32 ($ 196,144)	3 ($ 484,342)
Seattle	450 ($ 2,817,640)	136 ($1,497,685)	2 ($ 295,000)
Tacoma	96 ($ 486,725)	30 ($ 507,100)	
Los Ang. Cnty.	2307 ($24,085,309)	931 ($5,598,710)	12 ($ 288,500)
Orange County	1368 ($11,777,608)	65 ($1,153,745)	51 ($3,425,476)

Building Permit Totals for 116 Western Agencies for January, 1956

CALIFORNIA	Jan. 1956	Dec. 1955	Jan. 1955
Alameda County	$ 1,850,500	$ 4,384,498	$ 5,046,350
Anaheim	4,000,780	1,567,679	4,402,365
Bakersfield	1,785,776	1,808,327	617,007
Burbank	1,423,136	1,047,379	430,535
Contra Costa County	1,598,226	2,561,988	1,919,398
Fresno	1,080,495	1,853,620	1,549,182
Fullerton	877,725	880,140	2,455,173
Glendale	2,847,514	2,414,203	826,471
Inglewood	362,731	442,282	887,151
Long Beach	2,477,040	3,124,305	2,779,315
Los Angeles	40,100,044	32,312,870	34,264,161
Los Angeles County	31,665,362	20,800,665	26,557,555
Oakland	2,215,897	2,148,660	1,333,548
Ontario	1,619,999	725,098	366,353
Orange County	16,592,273	7,062,360	9,445,583
Palo Alto	556,852	1,191,136	475,345
Pasadena	1,555,659	1,809,362	752,685
Pomona	2,351,965	2,504,710	2,221,445
Richmond	2,017,289	399,168	425,730
Riverside	1,685,000	2,409,870	1,983,884
Sacramento	5,953,771	1,105,650	1,388,588
Sacramento County	3,014,936	5,393,000	4,253,292
San Bernardino	1,439,217	911,322	1,499,687
San Bernardino County	5,259,960	4,796,837	3,220,320
San Diego	3,999,674	5,621,219	8,764,305
San Diego County	2,649,070	2,546,865	2,256,242
San Francisco	9,608,039	3,877,046	2,896,825
San Jose	3,470,165	1,352,200	1,239,075
San Mateo	329,353	592,263	2,454,464
San Mateo County	1,629,095	2,758,905	1,526,335
Santa Ana	2,974,190	662,745	552,771
Santa Monica	642,568	1,765,793	782,137
Stockton	757,204	911,149	518,316
Sunnyvale	481,885	383,200	1,182,035
Torrance	7,609,226	902,817	4,314,275
West Covina	1,408,725	549,430	1,686,300
TOTAL	$169,891,341	$125,398,761	$137,274,183

OREGON	Jan. 1956	Dec. 1955	Jan. 1955
Albany	$ 70,625	$ 13,500	$ 169,200
Astoria	16,448	320,280	3,975
Baker	7,160	53,930	1,500
Bend	37,120	18,160	10,440
Coos Bay	26,395	83,679	4,450
Corvallis	128,680	62,150	191,335
Eugene	641,347	133,524	158,370
Grants Pass	303,885	60,575	52,906
Gresham	37,200	14,900	33,200
Hillsboro	38,281	38,450	97,300
Klamath Falls	32,200	37,200	2,980
LaGrande	6,725	10,650	14,700
Lane County	391,930	605,825	494,495
Medford	166,140	279,002	161,911
Multnomah County	1,901,990	1,244,895	2,533,817
North Bend	44,610	22,960	144,087
Oregon City	57,100	59,090	75,415
Pendleton	82,000	205,944	364,080
Portland	3,499,560	1,303,380	2,134,735
Roseburg	155,445	72,890	118,240
Salem	664,886	333,562	297,565
Springfield	55,050	9,950	198,550
The Dalles	32,269	46,030	31,565
TOTAL	$ 8,397,046	$ 5,030,526	$ 7,294,815

WASHINGTON	Jan. 1956	Dec. 1955	Jan. 1955
Aberdeen	$ 49,755	$ 349,386	$ 19,694
Anacortes	31,715	12,962	71,140
Auburn	24,045	16,750	130,620
Bellingham	356,532	533,671	594,351
Bremerton	65,734	51,011	1,376,640
Centralia	42,660	27,896	35,398
Chehalis	23,153	46,065	3,740
Clarkston	98,600	363,115	26,822
Ellensburg	2,500	7,758	4,800
Ephrata	335,451	13,950	353,000
Everett	252,996	138,837	257,025
Kelso	9,100	21,800	52,100
Kennewick	187,375	39,500	268,700
King County	3,627,846	3,776,844	6,338,013
Kirkland	45,150	54,124	1,150
Longview	195,209	118,796	206,140
Moses Lake	449,623	80,316	495,636
Olympia	378,081	126,482	106,889
Pasco	75,150	29,550	168,650
Pierce County	915,200	759,950	1,771,725
Port Angeles	32,995	67,800	49,600
Puyallup	819,845	68,110	62,400
Ritzville	15,000	13,500	1,500
Seattle	4,701,070	3,677,220	7,362,460
Shelton	35,125	101,900	22,000
Spokane	1,820,990	1,249,072	1,037,494
Spokane County	1,095,497	1,341,845	1,208,675
Sumner	26,450	12,099	20,500
Tacoma	1,169,383	856,594	870,360
Vancouver	411,267	411,252	103,838
Walla Walla	101,844	73,600	49,990
Wenatchee	28,506	16,587	78,207
Yakima	113,488	62,331	175,420
TOTAL	$ 17,537,335	$ 14,520,683	$ 23,304,177

MONTANA	Jan. 1956	Dec. 1955	Jan. 1955
Billings	$ 126,000	$ 75,200	$ 171,550
Bozeman	25,000	58,100	15,000
Butte	29,719	132,797	31,378
Glasgow	Nil	25,000	3,725
Glendive	Nil	66,200	2,500
Great Falls	386,606	109,518	399,220
Helena	29,925	1,141,740	24,800
Kalispell	30,700	32,200	49,300
Lewistown	12,000	4,000	9,500
Livingston	39,300	25,400	6,000
Miles City	5,114	980	31,965
Missoula	165,890	419,210	62,800
TOTAL	$ 850,254	$ 2,090,345	$ 807,738

IDAHO	Jan. 1956	Dec. 1955	Jan. 1955
Blackfoot	$ 33,115	$ 129,750	$ 10,600
Boise	281,961	934,228	183,374
Coeur d'Alene	47,100	68,550	68,700
Idaho Falls	65,300	186,450	38,900
Jerome	18,400	9,550	8,000
Lewiston	52,750	54,250	57,365
Nampa	39,575	30,650	21,770
Payette	41,600	10,000	Nil
Pocatello	184,570	127,412	41,775
Sandpoint	1,400	100,386	500
St. Maries	17,500	Nil	1,000
Twin Falls	68,100	67,020	36,640
TOTAL	$ 851,371	$ 1,718,246	$ 468,624
GRAND TOTAL	$197,527,347	$148,758,551	$169,150,537



How to stretch a $12,000 home-building budget . . . using steel

It's a familiar story: young couple . . . house hunting . . . small budget . . . big plans. Usually, couples like this must either lower their sights or wait until their savings grow. Usually—but not always. Here is a new home that has everything its owners wanted . . . at a price they could afford: under $12,000.

The couple wanted a small, easy-to-care-for home; but wanted it to be open and big *looking*. They wanted a lot of natural light inside; but their building site was heavily shaded. Above all, they wanted a sturdy, substantial structure; nothing flimsy. Using steel (for frame, siding and roof decking), designer Pierre Koenig delivered all these features: Steel frame needs no inside support, so this home's 1,000 sq. ft. interior is open and uncluttered with conventional bearing walls. Thin, trim steel columns leave large perimeter areas open for steel sliding door frames. Thus, all available sunlight is utilized, giving a light, cheerful atmosphere on a shaded lot.

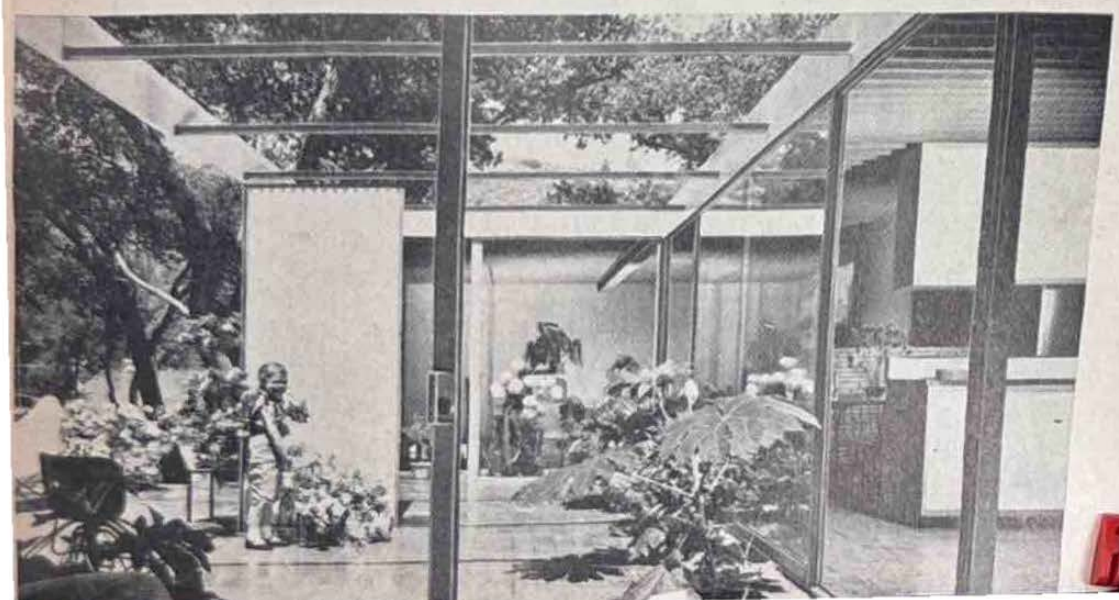
FRAME AND ROOF UP IN 2 DAYS: The steel framework was cut and joints electrically welded (for clean, smooth joints) at the shop, then transported to the building site for easy erection. With a minimum number of job welds necessary, the framework and 1400 square feet of roof decking were in place in two days.

CORRUGATED STEEL SIDING: The designer saw galvanized corrugated steel sheet as a strong, "different looking" siding material. The steel sheets, painted a light blue, are fastened to the steel channels. The result is a very economical, durable and attractive siding.

SEALED IN CONCRETE SLAB: With the frame in place, and siding fastened, the concrete slab was placed. By so burying the steel at a marked height (see cross-sectional drawing), all details are simplified and everything is waterproof. And it makes for a quick, economical job . . . and solid construction.

There are any number of additional advantages to building with steel. Among them is low upkeep; no problem with termites; no warping and checking. The obvious strength and long life of steel predicts a better loan value and lower insurance rates for this type of home.

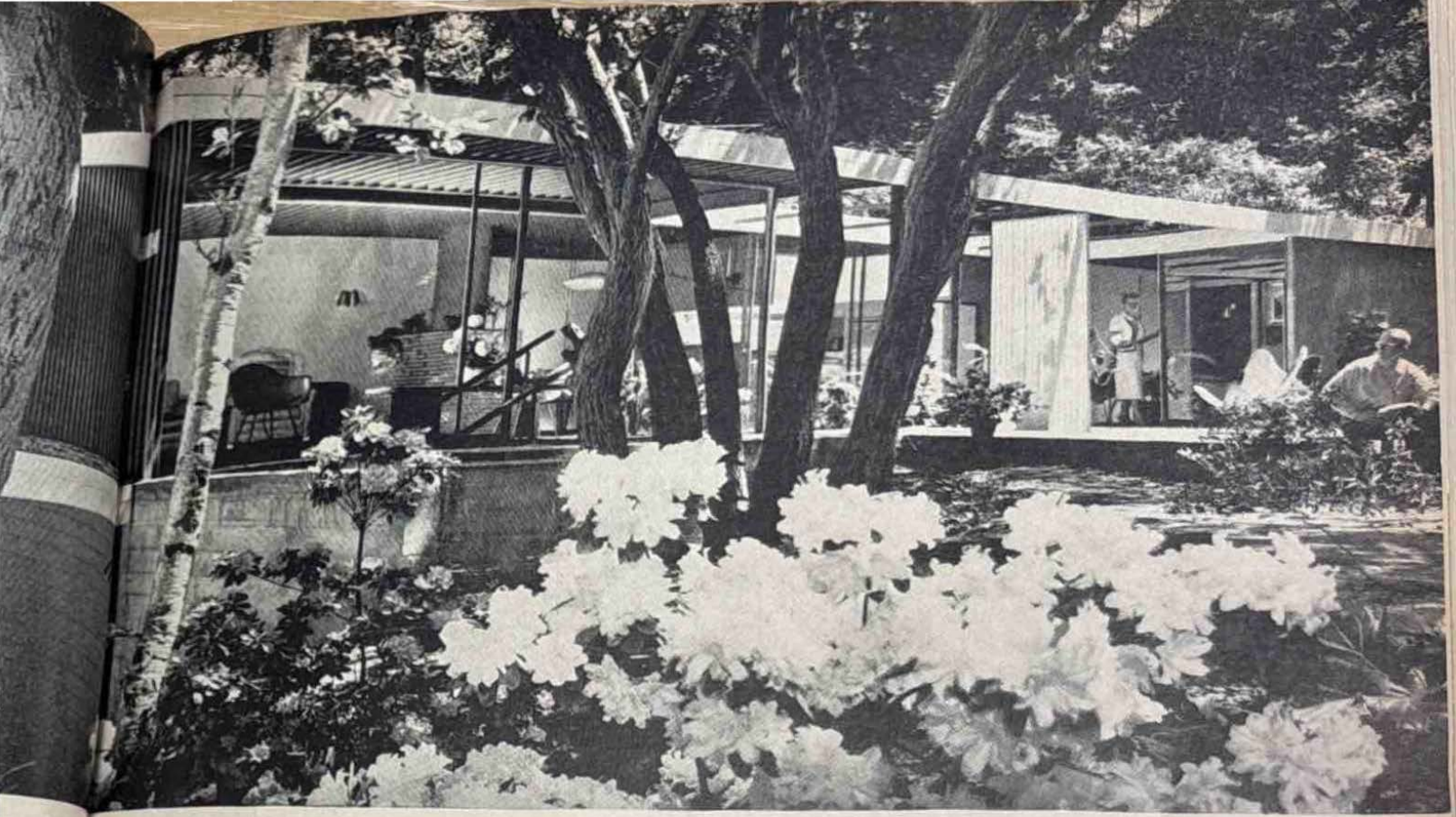


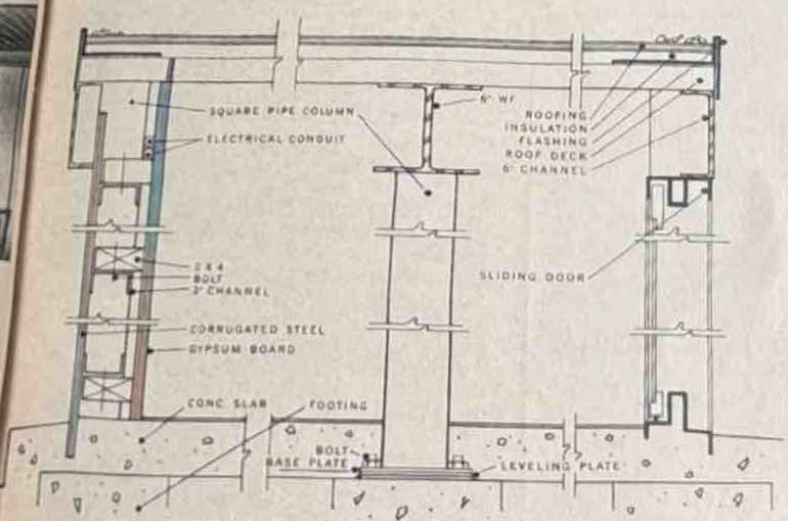


Designer: Pierre Ko

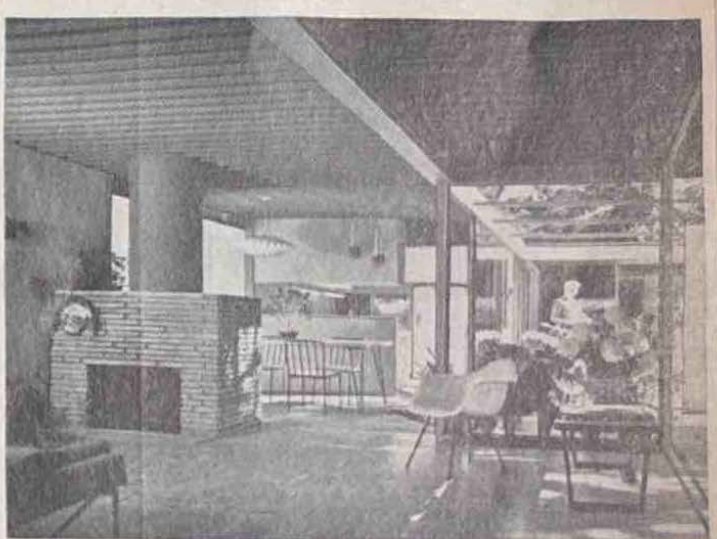
Location: 1884 Los
Glendale,

Steel: 6" wide flange
channel continuous
facia; 3" channels; co
steel siding sheets; st
decking; sliding ste
frames and square st
columns. The major po
this steel is United State





TYPICAL SECTION



ARCHITECTS AND ENGINEERS: We expect to have additional information on the use of steel in residential construction. If you are interested in receiving this, please send us your name and address and we will forward the material as it becomes available. Write: Columbia-Geneva Steel Div., United States Steel Corporation, 120 Montgomery St., San Francisco 6—Architects and Engineers Service.

Western homes of the future are now building with steel... **UNITED STATES STEEL**

Pacific Architect and Builder

T-square talk

about architects • planners • engineers

TO ITALY: Fred Bassetti, AIA, is on a year's leave of absence from the Seattle firm of Bassetti & Morse to serve as architectural consultant on housing to the National Productivity Center of the Italian government in Rome. It is believed his job will be mainly an administrative one, involving from four to eight housing developments, some of which will be experimental.

Bassetti, who with his wife and children sailed for Naples from New York City early this month, is being sponsored by the International Cooperation Administration of the State Department.

NEW OFFICES: Norris M. Gaddis, AIA, has opened an office for the general practice of architecture at 632 Grand Ave., Oakland (TEmplebar 2-6133). He formerly practiced in Eugene where he was on the faculty of the School of Architecture and Allied Arts at the University of Oregon.

Robert F. Rathjen has opened an architectural office at 213 Lake St. S., Kirkland, Wash. (VAndyke 2808). Since graduating from Washington State College, he has worked with the college architect at Pullman; Whitehouse & Price of Spokane; and Naramore, Bain, Brady & Johanson of Seattle. Rathjen has had his own office in Seattle and more recently in Houghton, Wash.

Douglas L. Cuykendall has opened an office at 4114 Arcade Bldg., Seattle (MAin 4777).

NEW PARTNERSHIPS: One of Seattle's oldest architectural firms, Victor N. Jones & Associates, with offices in the Republic Building since 1929, has formed a new partnership under the name of Jones, Lovegren, Helms & Jones. The partners, all AIA members, are Victor N. Jones, Lloyd J. Lovegren, Kenneth C. Helms and Gayne L. Jones.

Prior to 1946 the senior partner and Robert McClelland operated a partnership in the same suite of offices under the name of McClelland & Jones which, in turn was an outgrowth of McClelland, Pinneh & Jones.

Lovegren, who heads the Washington State chapter, AIA, has been associated with the firm since 1945 and previously was identified with the Lake Washington Floating Bridge.

Helms came to Seattle from Illinois for his part in the design of the University of Washington Medical School in 1946 and has been with Jones since.

Gayne L. Jones, the youngest partner, was graduated from Washington State College in 1951.

An associate of the firm, John T. Jacobsen, is on leave in Honolulu.

In Great Falls, Mont., Ray L. Amundson has joined A. L. Bordeleau and James Pannell in the architectural firm of Bordeleau-Pannell & Amundson. The new partner came to Montana from Minnesota in 1950 to join Bordeleau and later became associated with McIver, Hess & Jaugsjaa, with whom he has been engaged up to now.

BRANCH OFFICES: Victor Louis Wulff, AIA, of Spokane has opened a branch office at 507 N. Fourth Ave., Pasco, Wash. The architect's field inspector, Al Raber, is in charge of the Tri-City area operation.

ON THE MOVE: The architectural firm of Rushmore & Woodman has moved to the J. S. Ditty Building at 602 104th St., Bellevue, Wash.

Another Bellevue architect, Warren Huntington Smith, has gone to Holland as an exchange student.

SEMINARS IN SEATTLE

A six-week series of seminars on architectural practices will get underway this month in Seattle and continue through March at the new headquarters building of the Mountain Pacific chapter, AGC. Designed particularly as preparation for individual practice, the sessions will be sponsored by the Washington State chapter, AIA, but open to nonmembers. Merrill S. Rich is seminar chairman. Dates and subjects follow.

February 20: Estimating Construction Costs.

February 27: Use of Paint, Stain, Plastics.

March 5: Use of Wall Materials —Masonry, Plaster, Acoustical.

March 12: Use of Aluminum and Steel Windows, Curtain Window Walls.

March 19: Job Inspection—What to Look for.

March 26: Seattle's New Building and Zoning Codes.

SHARE OFFICES: Robert Germaine Thompson, AIA, and Robert L. Tidball, structural and mechanical engineer, are now sharing offices at 7404 S.W. Macadam Ave., Portland.

Thompson for six years was with the architectural firm of Dougan & Heims. Prior to that he was with Annand & Kennedy; assistant naval architect at Albina Engine & Machine Works; and with Graham Smith, architect, at Eugene.

Before opening his own firm in 1946, Tidball served in the Navy and was in the power design section of the Corps of Engineers.

DIED: Thorkel M. Haaland, 45, assistant professor of architectural engineering at Washington State College died January 15 following a heart attack. A native of Tacoma, he had been at the Pullman campus since 1949.

Fred Wilbur Howard of Burlingame, Calif., nationally known structural engineer, died January 27 after a long illness at the age of 71.

PRIZE-WINNERS: Three West Coast projects are in the prize money in the $25,000 porcelain enamel design competition sponsored by Ferro Corp. of Cleveland. Honorable mention awards of $500 each have gone to Bassetti & Morse of Seattle for a community youth center and to Falk & Booth of San Francisco and to Charles A. Metcalf, Roland H. Lane and Mark L. Pence of Seattle for elementary schools.

SPEAKERS: Victor Gruen, one of three designers to plan Detroit's new 110-acre downtown area, described the realities of city redevelopment January 31 to a meeting of the San Francisco Planning and Housing Association. The Los Angeles architect referred to the project as "the invention of a new type of residential community aimed at attracting back into the city the involuntary suburbanites who have to live in the suburbs even if they hate to mow lawns, because they can find no satisfactory city dwelling."

Two Seattle architects, Marvin R. Patterson, chairman of the Northwest regional AIA committee on research, and Edward J. Baar, AIA, will discuss color when the SCPI Pacific Northwest Brick & Tile Association holds its annual meeting in Seattle's Construction Center March 2.

AIA activities

Southern California: Paul Robinson Hunter is the new president of the chapter which will host the national AIA convention in Los Angeles at the Biltmore Hotel May 15-18. Stanley R. Gould has been named vice president; John Aleck Murrey, secretary; and Graham Latta, treasurer.

Directors are Stewart S. Granger, three years; George Vernon Russell, two; and C. M. Deasy and William Glenn Balch, one.

Oregon: New officers will be honored at the annual banquet scheduled for Tuesday evening, February 28, at Riverside Golf and Country Club, Portland. They are: Donald W. Edmundson, president; Earl P. Newberry, secretary; Charles Gilman Davis, treasurer.

Dr. O. Meredith Wilson, president of the University of Oregon, will be the principal speaker, using the topic, "The Architect in Contemporary Society."

The officers will be installed at the regular meeting February 21 by Waldo Christenson of Seattle, Northwest regional director. In addition to the officers, the new executive committee will be composed of Donald J. Stewart, retiring president, and two holdover directors: Holman J. Barnes and H. Abbott Lawrence.

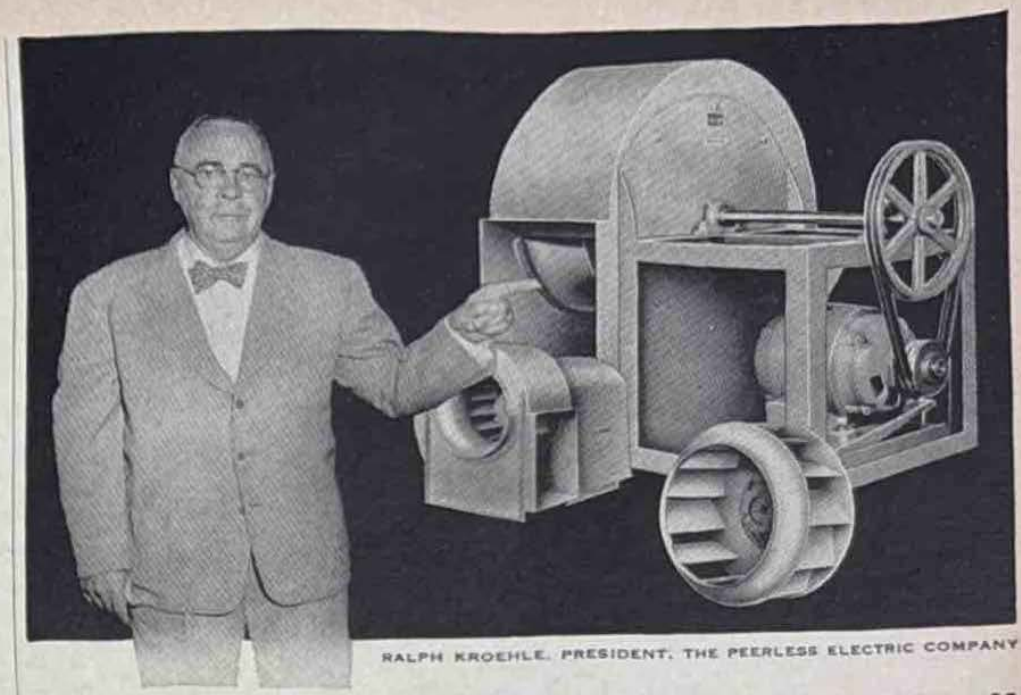
Montana: At their midwinter meeting in Helena February 4, 30 architects recommended that a committee meet with engineers to discuss a proposed licensing law. Sigvald Berg, as arrangements committee chairman, was in charge of the all-day session.

Among the speakers were James M. Tindall, executive assistant to the state superintendent of public instruction, who spoke on the state school consultant and the federal school building law as it relates to Montana.

The next chapter meeting is scheduled for Bozeman in May.

San Joaquin: New officers of the chapter, which maintains headquarters in Fresno, are Phillip S. Buckingham, president; Allen Y. Yew, vice president; James J. Nargis, secretary; Paul C. Shattuck, treasurer; and William G. Hyberg, David H. Horn and Alastair Simpson, directors. Simpson and Buckingham were named as delegates to the California Council of Architects.

Southwestern Oregon: Thomas Balzhiser of Eugene will serve another year as chapter president. Other officers are Cleo Jenkins, Corvallis, vice president; Alan G. Seder, Eugene, secretary-treasurer; and Robert Fischer, Grants Pass, and Chris Jeppsen, Corvallis, directors.



RALPH KROEHLE, PRESIDENT, THE PEERLESS ELECTRIC COMPANY

"...THE BEST BLOWER ENGINEERING..."

● Peerless engineers work under orders to give every fan and blower "the best possible engineering." Our engineering standards now meet or exceed all industry codes. The reason is simple.

COMPLETE ENGINEERING— Peerless builds its own motors and job matches them to meet blower requirements. They have the advantage of being one complete unit, tested thoroughly for motor characteristics, speed and drive alignment.

HEAVY CONSTRUCTION— Peerless frames and housings are better and of heavier construction than any competitive products. Construction is all-welded. The result is a vibration-free unit.

NAFM STANDARDS— Peerless Backward Curve Belt Drive Utility Blowers in sizes from 12½" to 36½" meet all NAFM recommendations. They have self-limiting horsepower characteristics and dynamically balanced wheels with matched spun cones. There is nothing in the air stream. Operation is exceptionally quiet.

CERTIFIED RATINGS
AUTHORIZED BY
NAFM

PERFORMANCE DATA— Complete data on Peerless fans and blowers is cataloged for easy reference. Bulletin SDA-160 shows all fans and forward curve blowers. Bulletin SDA-200 gives all data on backward curve blowers (NAFM) from 12½" to 36½". Write for your file copy. Dimension prints are available on request.

THE PEERLESS ELECTRIC COMPANY, WARREN, OHIO

MONTGOMERY BROTHERS

WESTERN REPRESENTATIVES

LOS ANGELES, CALIF. 2113 S. San Pedro St. Phone Richmond 7-9401

SAN FRANCISCO, CALIF. 1122 Howard St. Phone UNderhill 1-3527

PORTLAND, OREGON 1632 N. W. Johnson St. Phone CApital 3-4197

SEATTLE, WASH. 911 Western Ave. Phone SEneca 3270

Materials – Products – Tools

and the latest literature

PLYWOOD PANEL: A quality panel made from saw-log plywood filled with plastic and coated with Crezon, a resin cellulose plastic sheet, has been developed by United States Plywood and Crown Zellerbach.

Trade-named Duraply, it will sell for considerably less than plastic surfaced plywoods now available. Other features include check-free surface, excellent paint finish, wear and moisture resistance and easiness to work with ordinary wood-working tools.

Duraply panels are available in 4x8-ft., 4x9-ft. and 4x10-ft. panels of varying thicknesses with Crezon bonded to one or both sides. It is recommended for both exterior and interior applications.

(Item No. 1)

PERSPECTIVES: A new system of perspective drawing providing photographic accuracy, yet simple and fast in the representation of a subject on a plane surface has been developed by a Seattle firm, Perspective, Inc.

The system uses a series of printed grids and the firm is now offering basic sets of seven grids in three different sizes for both exterior and interior rendering, plus a selector chart for determining which grid and grid position to use for the viewing angle desired.

(Item No. 2)

BUILDING BLOCK: A lightweight building block designed by Empire Building Material for use in firewalls has been tested and granted a four-hour rating by Underwriters Laboratory Inc.

The new fire block is an 8x8x16 expanded shale unit with 1⅝-in face shell, one square end and weighing only slightly more than the conventional Lite-Rock block.

(Item No. 3)

SCHOOL FURNITURE: To resist the sometimes destructive impulses of kindergarten and lower grade pupils, National School Furniture is marketing a line of furniture with plastic laminated surfaces both exterior and interior. Matched units can be used in a wide variety of combinations and groupings.

(Item No. 4)

FLUORESCENT LIGHTING: For commercial installations, Electro Silv-A-King has developed an addition to the Skylouver series featuring a thinner, lighter feeling through use of a ½-in. Poly-cube polystyrene louver basket providing 45x45-degree shielding.

The appearance of a one-piece louver basket bottom is achieved in each 4-ft. Skylouver because there is no visible supporting bar for the louver. This series is designed for either pendent or flush mounting and can be continuous row mounted without additional parts.

(Item No. 5)

FOLDING DOOR: New type concealed spring connectors ensure quiet operation of the latest model Rolscreen



SILENT FOLDING DOOR

wood folding door. Panels fit closely together so that doors fold to a compact stack only 2 in. or less for each foot of opening width. Nylon rollers also have been added.

(Item No. 6)

DRAFTING TOOLS: A tray for tools that keeps them off the drawing board, yet within easy reach is being marketed by Draftray.

This is a partitioned tray attached to an adjustable arm which clamps to the edge of the drawing board. It provides orderly space for draftsman's tools and can be adjusted to correspond with all angles of the drawing board.

(Item No. 7)

WALL PANEL: For greater economy in light gage metal, curtain wall construction, Detroit Steel Products has added a field assembled wall panel to its Fenestra line.

Designated Type FA, panel components can be shipped to the jobsite where erection and fabrication take place at the same time. A quick and easy assembly method of erection produces a panel 24 in. wide and 3¼ in. deep. Wet, slow curing materials are eliminated.

(Item No. 8)

EXHIBIT MATERIAL: A rubber-like material for display and exhibit backgrounds so lifelike it has to be touched to be believed is being marketed under the trade name Texture-Flex.

Originally developed for Broadway and TV productions, the material duplicates such items as weathered wood planking and shingles, fieldstone, cut stone, old brick, herringbone brick, flagstone and tree bark.

Light in weight, it may be stapled to vertical or horizontal surfaces and when not in use can be rolled or folded for storage in a small area.

(Item No. 9)

CERAMIC TILE: Mosiac Tile has announced addition of Bluegrass Green quarry tile to its line. The tile was developed to provide a subtle color that would harmonize with other tile shades and afford a neutral background for furniture and furnishings in homes and institutional and commercial buildings.

Like other colors in the line it completely permeates the tile and can neither fade nor wear off.

(Item No. 10)

TRANSLUCENT PANELS: Two specialized panels have been added to the Alsynite line of translucent fiberglass products, one for residential use and one for commercial applications.

The residential Fiesta is available in eight colors and features Filtron 25, a new heat-blocking formula said to reduce light and heat, and armor plate surface for longer life and wear.

Industry panels also have the armor plate surface, plus improved color stability and equalized light transmission.

(Item No. 11)

SLIDING GLASS DOORS: Latest in the Ador line of all-aluminum sliding glass doors is a unit specifically designed and priced for multiple housing construction.

It is available as a single or double sliding unit which can be stacked as a three or four-panel door through addition of extra threshold and header sections. Other features include Alumilite finish and full weatherstripping.

(Item No. 12)

DRAIN PIPE: For sewer and drain application, Carlon Products has designed a lightweight plastic pipe which is moisture and corrosion proof, easy to carry and install.

One man can install 100 ft. of Carlon pipe in 40 minutes using a saw and a can of quick-setting cement. An out-

standing feature of the pipe is its ability to return to original form after being compressed up to 75% of its normal diameter.

(Item No. 13)

PAINT: Three different colored paints can be sprayed simultaneously from a single spray gun with Glid-Tex, a lacquer coating made by Glidden.

No special spray equipment is necessary. Glid-Tex, which comes in a combination of yellow, gray and white is sprayed directly on the base coat and covers approximately 30% of the background color.

(Item No. 14)

COVE MOLDING: A vinyl acoustical tile molding installed by simply pressing it into place has been introduced by A. Z. Bogert. The molding is held firmly by its own tension.

No painting, nailing, adhesive, puttying, retouching or wood ground is needed. Furnished in a natural, soft-finish white, the molding can be painted if desired.

(Item No. 15)

Latest Handbooks, Manuals and Literature

Yours for the Asking

INSULATION: To help architects, engineers and builders solve insulation problems, Infra Insulation has published a 48-page manual called "Heat Flow by Radiation in Buildings."

The manual was written by Alexander Schwartz, president of the company and an expert in the field of heat and vapor flow.

Included are the newest installation techniques for insulating wood joists and studs, steel beams and trusses, ducts, pipes and masonry walls. The manual is liberally illustrated with charts, diagrams, tables and photographs.

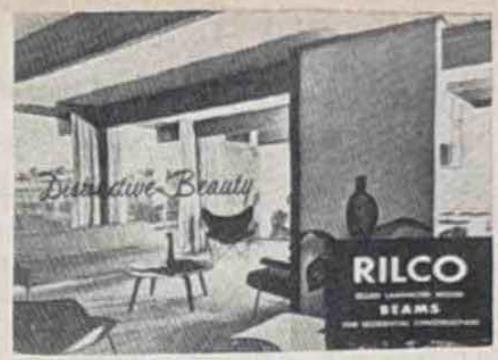
(Item No. 16)

HOME ECONOMICS: Many valuable suggestions for designing a home economics department can be found in a 24-page booklet put out by the National Electrical Manufacturers Association.

Called "Planning the Modern Home Economics Department," the booklet is printed in blueprint blue and white and includes actual floor plans from 16 schools plus a number of basic floor plans. It should be helpful in discussions with school boards.

(Item No. 17)

LAMINATED BEAMS: How exposed beam construction for homes provides economy and facilitates open planning is the theme of a Rilco brochure



LAMINATED BEAMS

entitled "Distinctive Beauty."

The four-page brochure contains photographs, drawings and floor plans illustrating use of laminated beams in residential construction. Suggested application data also are given.

(Item No. 18)

SHOPPING CENTERS: Suggested uses for architectural porcelain in shopping centers are depicted in a four-page folder published by Davidson Enamel Products. The folder includes detail drawings, condensed specifications and descriptions of facing panels and double-wall panels.

(Item No. 19)

CENTRAL HEATING: Iron Fireman has published two brochures on its Select-Temp heating system featuring a thermostat in every room.

One concentrates on the home building field and describes units available and features which appeal to home buyers. The other discusses the advantages of this combined steam and forced warm air heating for motels.

(Item No. 20)

WOOD TRIM: Special moldings and trim, both interior and exterior, are covered in the latest technical bulletin offered by the Architectural Woodwork Institute. This is the eighth in a highly popular series.

Drawings of recent installations are included in the brochure.

(Item No. 21)

CEDAR SHINGLES: Five novel ideas for applying cedar shingles on roofs are described in a booklet offered by the Red Cedar Shingle Bureau.

The unusual designs are accomplished by applying extra courses of shingles at regular or irregular intervals on the roof. The bureau calls the designs Ocean Wave, Dutch Weave, Thatch, Pyramid and Serrated.

(Item No. 22)

SLIDING WINDOWS: A brochure by Steelbilt places emphasis on weather-sealing improvements on steel frames for horizontal sliding windows and a complete curtain wall system.

The brochure covers the bottom roller, top roller-hung and dual-glaze Steelbilt frame types. Photographs of the recently completed Colorado A & M dormitories illustrate the curtain wall system which expands the top roller-hung windows into a complete grid system.

(Item No. 23)

ELECTRIC PANELBOARDS: Some 20 pages of engineering data pertinent to panelboard installation and selection is included in a 75-page catalog published by Federal Pacific Electric.

Data include information on transformer connections for distribution voltages, relevant National Electrical Code and Underwriters' Laboratories requirements and circuit breaker characteristics.

Photographs, drawings, diagrams and specifications describe features and construction of each panelboard and aid in their application.

(Item No. 24)

FURRED CEILINGS: Tables on size and spacing of cross furring, types and weights of metal lath and fire resistive ratings are included in "Furred Metal Lath Ceilings," latest technical bulletin in a series offered by the Metal Lath Manufacturers Association.

Details and specifications related to furred ceilings under steel, concrete and wood joists are featured.

(Item No. 25)

READER SERVICE

Pacific Architect and Builder
2418 Third Ave., Seattle 1, Wash.

Please send the literature or data about the material, products and tools listed on these pages.

FEBRUARY 195

ITEM NO. (Circle those you wish): 1 2 3 4 5 6 7 8
9 10 11 12 13 14 15 16 17 18 19 20
21 22 23 24 25 26 27 28 29 30 31 32

Name ..... Title .....

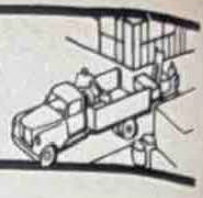
Firm .....

Address .....

City ..... Zone ..... State .....

Builders and Suppliers

headlining the news



• **Taft-Mercer Construction Products, Inc.,** is the new name of Taft Construction Products, Inc., which was formed three years ago in Seattle. Robert T. Mercer, a registered engineer who was formerly an executive of Mercer Steel Co. in Portland, is vice president and treasurer of the reorganized company. B. A. Taft heads the firm which supplies standardized materials for custom-designed buildings.

• **Associated Home Builders, Inc., of San Francisco** has named William Blackfield, president; Richard H. Mesak, vice president; Rollin E. Meyer Jr., secretary; and M. Douglass Couch, treasurer.

• **SCPI Pacific Northwest Brick and Tile Association** will hold its annual meeting March 2 in the Construction Center, Seattle. Among the speakers will be Robert B. Taylor, director of research, Structural Clay Products Research Foundation, Geneva, Ill., who will discuss the industry's multi-million-dollar research program. The all-day program will end with an informal dinner at the Seattle Yacht Club.

• **Utah Construction Co.,** which is engaged in building a vast development of homes and shopping centers at Moraga, has named Edmund W. Littlefield executive vice president. C. W. Davis and Frank M. Keller have been made vice presidents.

• **Portland Concrete Pipe and Products Co.** has admitted George H. Ehlen to partnership in the manufacturing firm. Ehlen, who has been with the company 17 years, is a director of both the Oregon Building Congress and the Associated Concrete Products Manufacturers. He joins Floyd L. Martin and Hugh P. Ford in the partnership.

• **Northwest Hardwood Association** members attending an all-day conference in Portland January 21 were told that they can develop a thriving industry similar to that which exists in eastern United States.

"West Coast woods compare favorably with the second growth hardwood of the East," according to Jack R. Pfeiffer, research specialist at Oregon Forest Products Laboratory. "We have adequate resources and due to existing, as well as increasing, population trends in western United States, an ever-growing market is provided," he said.

Washington, Oregon and California were represented among the 81 participants in the conference, presided over by E. J. Nist of Seattle Box Co., association president. Harry O. Mitchell, secretary-manager, has an office at 3253 Commodore Way, Seattle.

• **Portland Home Builders Association** will sponsor the seventh annual Home Show March 23-April 1 at the Pacific International Exposition Building. Al Learman will manage the event.

• **Concrete Products Association of Washington** will hold its annual spring meeting in Seattle's Construction Center March 15-17. In addition to general sessions, the block manufacturers will convene Thursday afternoon, while the pipe manufacturers will meet Saturday morning. An informal dinner-dance is set for Friday evening.

• **The Bland Simmons Co.,** 4350 S.W. 86th Ave., Portland, has been named exclusive representative in Oregon and Washington for Sunwarm, Inc., manufacturer of ceiling heating cable and electrical wall heaters.

• **Calaveras Cement Co.** has appointed Harold A. Lovegreen assistant sales manager with headquarters in its San Francisco office. Lovegreen joined the firm in February 1953 and until recently was stationed in Los Angeles as white cement sales representative for southern California, western Nevada, Arizona and Utah.

• **Reynolds Metals Co.** has promoted and transferred two Northwest sales executives. John Clearwater, former aluminum conductor sales representative in Idaho, Montana, Washington Oregon and northern Wyoming, has been transferred from Portland to Seattle where he replaces Richard N. Peters as Northwest division sales manager. Peters, who has headed the sales force in that area for the past two years, is now division sales manager in San Francisco.



SPECIAL TRUCK facilitates making of rapid repairs on building jobs around San Diego area for M. N. Golden Construction Co. Truck holds parts and tools, even welding equipment. Mechanic checks with central office by means of radio telephone.

• **W. P. Fuller & Co.** has elected W. P. Fuller Brawner, formerly vice president, to head the San Francisco firm. He succeeds his brother, A. H. Brawner, who was named chairman of the board.



BRAWNER

Upon graduating from Princeton University in 1924, the new president entered the company as a trainee. He was placed in charge of production in 1936 and elected treasurer in the same year.

Brawner currently serves on the board of the Bank of California, is a director of Emporium-Capwell Co. and president of the board of trustees of Mills College. He is a past president of the San Francisco Chamber of Commerce.

• **Central Equipment and Hardware Co.** of Yakima has changed its name to Dopps & Banks. Company personnel will remain the same.

• **E. F. Herbel,** general credit manager of Pomona Tile Manufacturing Co., has been elected to the board of directors of the Building Material Dealers' Credit Association for a three-year term.

• **B. M. Heede, Inc.,** of Long Island City, N. Y., has opened an office at 260 Kearny St., San Francisco, to assist the industry in problems related to slipform construction and to rent its Concretor hydraulic lifting equipment. While grain elevators and other storage structures have long been recognized as slipform projects, the field is being widened by Heede to include such jobs as apartment and industrial buildings.

• **Superior Portland Cement, Inc.,** of Seattle has named the following

officers: Ned H. Nelson, executive vice president; Jack H. McGoldrick, secretary; P. R. Barrett, assistant secretary; H. E. Thompson, treasurer and assistant secretary; and F. W. Bailey, assistant treasurer. Thomas Balmer, McGoldrick and Nelson were elected to the executive committee.

The company reported net earnings of $1,048,000 for 1955, compared with $914,000 in 1954.

• **Harold E. Parker** of Martinez, who has been constructing homes in the San Francisco Bay area for the past five years, is the new president of the General Contractors Association of Contra Costa County. Other officers: Frederick C. Kracke, reelected executive vice president; John Osmundsen, vice president; Kermit L. Lincoln, secretary-treasurer.

• **Consolidated Machinery and Supply Co., Ltd.**, Los Angeles, has announced several new management appointments. Jim Davidson has been named vice president and general manager. He previously headed the gasoline engine driven power tools division of Mall Tool Co.

Russell Eagles has been promoted to assistant general manager; Wiley Wickman has been named sales manager; and Don Malcham has been named Northwest regional sales manager.

• **The Long-Bell Lumber Co.** has promoted C. L. (Connie) Anderson to the position of general manager of the Vernonia, Ore., division. Anderson, a veteran lumberman, has been assistant general manager since 1953.

• **All-Brite Fluorescent Fixtures of California** has begun a 40,000 sq. ft. addition to the modern 66,000 sq. ft. plant in South San Francisco completed only five months ago.

• **F. J. Hearty & Co.**, Los Angeles, has been named southern California sales representative for Union Asbestos and Rubber Co.'s heating and air conditioning products. Hearty's territory will be south of the San Luis Obispo, Kern and San Bernardino county lines.

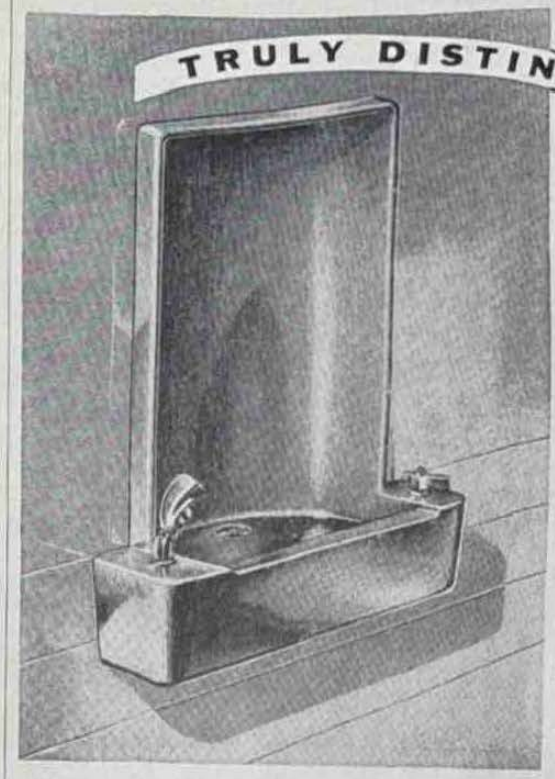
• **Georgia-Pacific Plywood Co.** has elected Robert B. Pamplin of Portland to the board of directors. Pamplin is financial vice president and secretary of the company.

• **H. K. Porter Co., Inc.**, has purchased two firms, Henry Disston & Sons, Inc., manufacturer of saws and other tools, and Carlson & Sullivan, Inc., producer of steel rules and measures at Monrovia, Calif. Both companies will be operated as the Henry Disston Division of Porter under the general managership of Lawrence L. Garber, a Porter vice president. In addition to the main plant at Pittsburgh, Disston had five plants, including one at Seattle.

• **Sliding Glass Door and Window Institute**, an organization of 19 southern California firms, has installed Herbert Shull as president. He succeeds Charles Morearty. Other new officers are Frank B. Miller, vice president; Murrell Spence, secretary; Lawrence Bourland, treasurer.

• **Weber Showcase and Fixture Co., Inc.**, of Los Angeles has purchased the entire manufacturing facilities of the Grand Rapids Store Equipment Corp. in Grand Rapids, Mich. The plant will be used to manufacture Weber equipment. Portland, Ore., facilities were not involved in the transfer and will continue to operate as an entity of the Grand Rapids store equipment firm.

• **Kieruliff & Co.**, of Maywood, Calif., has been appointed southern California distributor for the Sonic Servant, a combination radio and home



TRULY DISTINCTIVE IN STAINLESS STEEL...

HAWS

SEMI-RECESSED WALL FOUNTAIN

MODEL No. 73

Smartly designed, extraordinarily convenient is this *entirely new* HAWS Semi-recessed Fountain that takes up little space in corridor or room and has drinking fountain head and operating lever handle accessibly located opposite one another on the top platform. An access panel in wall is NOT required for this fountain and all fittings are accessible from under bowl.

Write today for full details of this handsome fixture that will lend grace to your most exactingly designed public building, office building, school, hospital or restaurant.

HAWS DRINKING FAUCET CO.

1443 FOURTH STREET (Since 1909) BERKELEY 10, CALIFORNIA

intercom system manufactured by Sonic Specialties, Inc.

• **Sylvania Electric Products, Inc.**, has named Charles A. Dickinson special representative for national lighting accounts covering the western region: California, Oregon, Washington, Idaho, Montana, Nevada, Utah and Arizona. Dickinson was Seattle district sales manager for the lighting division for 10 years and more recently handled similar duties in respect to TV sets and radios in the Northwest.

• **Utility Appliance Corp.** has just completed a 105,000 sq. ft. addition to its plant in Los Angeles, featuring a completely conveyorized paint and metal-finishing system for parts for air conditioners, forced air furnaces and other equipment manufactured there.

• **Anaconda Aluminum Co.** has revealed that the firm is considering establishing a plant in the Spokane, Wash., perimeter to make alumina from domestic clays. A pilot plant will be built first to test commercial feasibility of the clay reduction process. The company now produces alumina from imported bauxite ores.

• **Wanke Panel Co.** of Portland and **Lundgren Dealers Supply Co.** of Tacoma are the first in a network of distributors being established on the West Coast for Fine Wood hardwood panels manufactured by Dulaney Plywood Corp. Cruver Sales Co. of Tacoma is in charge of handling arrangements for distributorships for the Kentucky firm.

• **Adams-Rite Manufacturing Co.** of Glendale, Calif., has appointed John W. Cervenka as general sales manager of its builders hardware division.

• **General Electric** has picked Richard C. Schey of Birmingham, Mich., to manage the Northwestern district office of the construction materials division in Seattle. He succeeds William W. Bryan, who has been transferred to the manager's post at the division's Pacific district office in Los Angeles.

• **Douglas Fir Plywood Association** members met recently in Portland to honor E. W. Daniels, chairman of the management committee, who is stepping down after 17 years in the post. Daniels was presented with a 26-ft. pleasure boat and a complete set of fishing equipment.

He is a former president and still active with Harbor Plywood Corp. of Aberdeen, Wash., and has been in forest products work since the early 1920s. Succeeding him as chairman is Arnold Koutonen, plywood manager for St. Paul & Tacoma Lumber Co., who is also a veteran of many years in the industry.

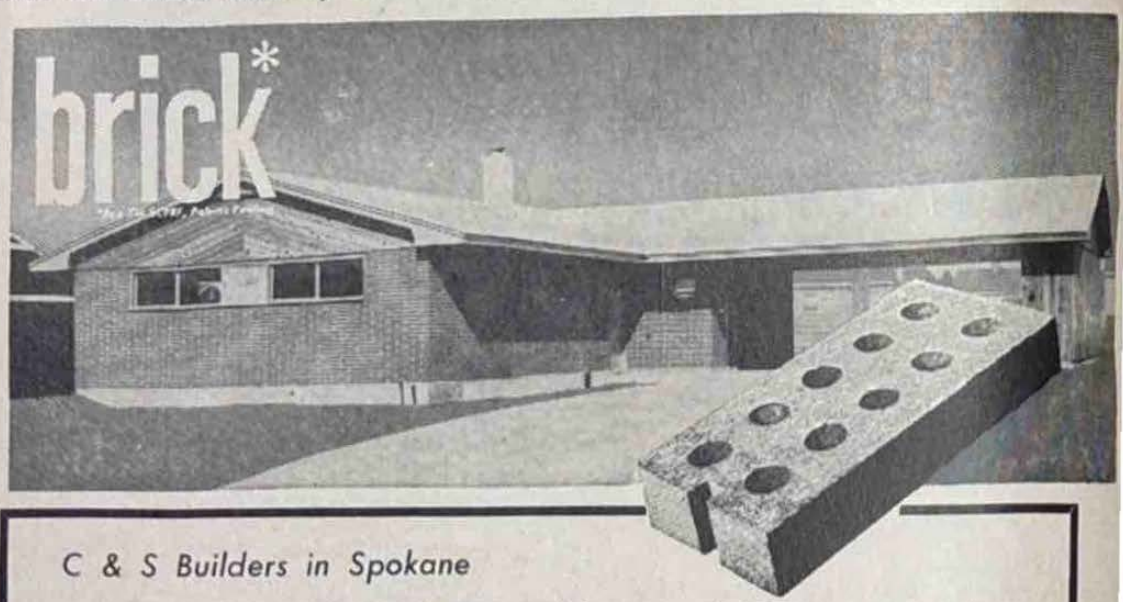
• **Armstrong Cork Co.'s** floor division has inaugurated a consulting service for architects, decorators and builders in the institutional, commercial and mass home building fields. To introduce the architectural-builder consultants program, the company sponsored a closed circuit telecast in color on February 3 on a network of 54 TV stations. First western city to have the service is Los Angeles, with others planned for a later date.

• **Washington Steel Products, Inc.**, Tacoma manufacturer of cabinet and builders hardware, has acquired the capital stock of three Northwest hardware distributing firms; Washington Hardware Co. of Tacoma, Northwest Builders Hardware Co. of Seattle and Oregon-Washington Hardware Co. of Portland.

• **Rheem Manufacturing Co.** and **Richmond Radiator Co.** have merged, subject to stockholders approval. Richmond, one of the country's oldest producers of plumbing fixtures, will be maintained as a separate operating division of Rheem.

the brick that makes masonry construction comparable in cost to quality frame!

SCR brick*



- True Economy
- Perfect for Ranch Homes
- Builds the Whole Wall
- Choice Color Range

C & S Builders in Spokane

recently built 43 new SCR brick homes, priced $11,750 to $13,500 . . . more than half sold before completion . . . 46 more planned! This is true quality building with brick comparable to frame. Investigate superior qualities of WaCo SCR Brick.

WASHINGTON BRICK & LIME CO.

SPOKANE • PORTLAND • SEATTLE

Construction News Bulletin

Vol. 62—No. 3 (PA&B) News Section of Pacific Architect and Builder February 18, 1956

D. F. McCormick ..... News Editor
G. M. Westman ..... News Staff
Win Romtvedt ..... Portland News Manager
A. E. Maguire ..... News Staff

Newsroom • 2418 Third Avenue, Seattle 1, Washington • Phone MAin 0285

BUILDING NEWS

Washington, Oregon, Idaho, Montana, Wyoming, Utah, Alaska

- ● Bids Called
- ★ Contract Awards
- ▲ Low Bids—Bid Received
- ■ Planholders—Prospective Bidders

OREGON

★ALTER BUILDING— Astoria, Ore.

Award to A. T. Duoos & Son, Box 222, Astoria, $18,158, by U. S. Naval Station, M. G. Franklin, officer in charge of construction, Public Works Office, Tongue Point, Astoria, Ore., for relocation of CPO mess facilities and provisions of enlisted men's club facilities at the station (Contract NBy-1936). MG 2-15. Previous report 1-24

●SCHOOL ADDITION— Bandon, Ore.

Bids to be opened 7:30 p.m., March 6, by School District No. 54-C, Alice K. Gallier, clerk, High School Bldg., Bandon, Ore., for an addition to the Bandon High School. Plans with Dougan & Heims, architects, 401 Royal Bldg., Portland. $25 deposit. Certified check, cashier's check or bid bond 10%.

Basic bid for addition of two classrooms, toilet rooms and storage rooms; frame construction with shake exterior to match existing building; plywood interior walls; some ceramic tile. Alternate for 40'x60' shop building; reinforced concrete, tilt-up construction; laminated beams; wood deck. WB 2-15

★PARTICLE BOARD PLANT— Brownsville, Ore.

Award to Randolph & Cole, Eugene, by Brownsville Particle Board Associated Products, Inc., Floyd Rapp, president, Brownsville, for construction of a plant. Randolph & Cole is the Eugene distributor for Timber Structures, Inc., Portland, which will fabricate the columns. Carothers Sheet Metal Co. will do the exterior work on the building. Plans by Columbia Engineering Co., Corvallis. DC 2-15

★REPAIR ARMORY— Coos Bay, Ore.

Award to Johnson Cement Products, Box 428, Coos Bay, $5,985, by Department of Finance and Administration, 1225 Ferry St., Salem, for repair and remodeling of the Armory at Coos Bay. Bids were opened in Salem January 24. TW-M 2-15

●QUONSET BUILDINGS— Corvallis, Ore.

Bids to be opened 2 P.M., March 6, by Oregon State Board of Higher Education, Earl M. Pallett, secretary, room 6, Benton Hall, Oregon State College, Corvallis, for construction of Quonset Buildings at the Farm Service Area on the campus of Oregon State College, Corvallis. Plans with superintendent of Physical Plant, room 3, Benton Hall, Oregon State College, Corvallis. $5 deposit. Certified check or bid bond 10%. DC 2-14

●MACHINE SHOP— Dallas, Ore.

Bids to be opened 4 p.m., February 22, by Gerlinger Carrier Co., 1011 Lyle St., Dallas, for a machine shop. Select list of bidders. Plans with James L. Payne, architect, 725 S. Commercial, Salem.

One story; 166'x204'; poured reinforced concrete walls; concrete slab floors; built-up roofing; aluminum or steel sash; gypsum board ceiling; masonry block partitions; two boilers and unit heaters. DC 2-15

●LOCKER ROOM ALTERATIONS— Eugene, Ore.

Bids to be opened 2 p.m., P.S.T., March 8, by 13th Naval District, Bureau of Yards and Docks, Rear Admiral R. H. Meade, chief of bureau, room 100, Bldg. 232, U. S. Naval Station, Seattle, for alterations to the locker rooms at the U. S. Naval and Marine Corps Reserve Training Center, Eugene (NBy-1903; Spec. No. 1903/56). Specifications with Naval Department. $10 deposit. Bid bond 20%.

The work includes alterations and additions to the existing locker room and involves carpentry, flooring, heating, ventilation, electrical installation and painting. GW 2-10

POST OFFICE ANNEX— Eugene, Ore.

An assignable land option has been accepted and plans are under way by S. G. Schwartz, regional director, Post Office Department, Portland, for a post office annex at Olive St., between West 5th and 6th Aves., west of the present post office, Eugene.

One story with partial second floor; partial basement; 23,000 sq. ft.; include a garage with 3,500 sq. ft.; concrete construction. DW-M 2-15

SWIMMING POOL— Eugene, Ore.

A $170,000 bond issue will be presented to Eugene voters in the May primary election to finance a new city swimming pool in the Amazon Park, in east Eugene. Pool contemplated by Eugene Bureau of Parks and Recreation, W. R. Matsler, superintendent, City Hall, Eugene. DW-M 2-15

★PRINTING SHOP— Eugene, Ore.

Award to Albert Vik & Son, 160 Madison, Eugene, $37,495, by Shelton-Turnbull-Fuller, 32 11th Ave. E., Eugene, for a printing shop and office at 352 W. 12th Ave. Plans by Western Engineering Consultants, 110 E. 12th Ave., Eugene.

DW-G 2-15. Previous report 1-18

★ROOM FINISHING— Forest Grove, Ore.

Award by (bids opened February 9) by Forest Grove School District No. 5, Washington County, Patricia Gilman, clerk, High School, Forest Grove., Ore., for finishing dressing rooms in gymnasium at Forest Grove High School. AWD: Bickford Construction Co., 923 S.E. 28th Ave., $42,760 (Basic bid, $47,960, less alternates A and B). OTHER BIDS: Sterner Construction Co.,13845 S.E. Rhine St., $47,802; Walter Beebe, 2134 N. Flint Ave., $49,898; Blanchard Construction Co., 2546 S.W. Vista Ave., $49,948. Of Portland.

WB 2-14. Previous report 2-1

■COURTHOUSE— Gold Beach, Ore.

Additional description of new courthouse at Gold Beach, Ore. Bids to be opened 8 p.m., February 24, by Curry County, Guy Forsyth, county judge, Gold Beach, Ore. Plans with Raymond O. Marks, architect, 6917 S.E. 34th Ave., Portland. $50 deposit. W. Bruce Morrison, 1125 Cascade Bldg., is mechanical engineer, and Pettingell & Kelley, 1008 S.W. 6th Ave., electrical engineers.

Planholders: Teller Construction Co., 845 N. Graham St., Portland; W. H. Shields Co., 252 Taylor, Eugene; Harold Grappe, Coos Bay; Smith-Phillips Co., 7402 S.W. Macadam Ave., Portland; Leroy Weidman, Brookings; McCormack Construction Co., S.E. 3rd and Goodwin, Pendleton; A. T. Fox, 421 Simpson, North Bend; Donald M. Drake Co., 1600 N.W. Savier, Portland.

Reinforced concrete construction with pan floor construction and concrete beams; painted waterproof cement stucco exterior; aluminum windows, doors and frames; metal stud with lath and plaster interior partitions; suspended acoustical tile ceilings; built-up roofing; copper flashings; mostly fluorescent lighting; electric-fired boiler; mechanical ventilation; mostly asphalt tile flooring. Approximate cost, $300,000.

WB 2-10. Previous report 1-28

●GRADE SCHOOL— Gold Beach, Ore.

Bids to be opened 8 p.m., March 1, by School District No. 3-C, Curry County, Eva H. Seger, clerk, superintendent's office, Gold

Beach, Ore., for a new grade school. Plans with Freeman, Hayslip, Tuft & Hewlett, 2040 S.W. 3rd Ave., Portland. $50 deposit. Certified check, cashier's check or bid bond 5%.

Basic contract includes seven classrooms, multi-purpose room, kitchen, boiler room, and special education room; alternates for office suite and for two additional classrooms. Frame construction with brick veneer; wood sash; built-up roofing; covered bus-loading porch; hardboard wainscotting and gypsum board walls in corridors; plywood and gypsum board classroom walls; asphalt tile flooring; acoustical tile ceilings; hot water heating with convectors, except heat exchangers in multi-purpose room; incandescent lighting with concentric ring fixtures in classrooms. WB 2-11

ELEMENTARY SCHOOL— Helix, Ore.

Bond election was held February 1 for Unified School District No. 1, Helix, and bond issue was defeated which was to finance construction of a new five room elementary school and a multipurpose room. MG 2-11. Previous report 1-13

SCHOOL ADDITION— Lebanon, Ore.

Bond issue for $11,000 approved by Sodaville School District No. 13, Linn County, principal, Sodaville School, Lebanon, Ore., to finance addition of one classroom to existing three-classroom school. Construction is to be completed this summer. Sodaville is located near Lebanon, two miles off Highway 20. WB 2-11

▲ICE CREAM PLANT— Medford, Ore.

Bids received February 8 by Jorgenson's Dairy Products Co., Medford, for construction of an ice cream plant. Plans by Leslie Poole, engineer, 301 Royal Bldg., Portland. LOW BIDS: Bessonette & Graff, Box 709, Medford, $162,254; Armin Richter & Associates, 221 N. Central, Medford, $169,719; Smith-Phillips Co., 7402 S.W. Macadam Ave., Portland, $169,997.

WB 2-10. Previous report 1-28

★WAREHOUSE ADDITION— Milwaukie, Ore.

Award to low bidder, Smith-Phillips Co., 7402 S.W. Macadam Ave., Portland, no amount announced, by United Grocers, Inc., Harry Thye, general manager, 6433 S.E. Lake Road, Milwaukie, for an addition to existing warehouse. Plans by Leslie E. Pole, engineer, 301 Royal Bldg., Portland.

Addition to west side of warehouse building, 80'x275'; reinforced concrete construction; wood truss roof; electrically operating steel rolling doors; sprinkler system.

WB 2-11. Previous report 10-22

CHURCH ADDITION— Oregon City, Ore.

Working drawings authorized by Zion Lutheran Church, E. G. Wuest, pastor, 8th and Jefferson Sts., Oregon City, for an educational unit connecting to existing church at 8th and Jefferson Sts. Plans by Edmundson, Kochendoerfer & Kennedy, architects and engineers, 325 Henry Bldg., Portland. Plans to be complete about May 1, but contract for excavation will be let earlier.

Two story and basement educational unit including classrooms, office, study. Concrete block construction; wood floors; built-up roof; steam or hot water boiler system. Approximate cost, $160,000. WB 2-10

★FLOORING— Pendleton, Ore.

Award to Pendleton Floor Covering, 216 S.W. Emigrant Ave., Pendleton, $3,950, by Department of Finance and Administration, 1225 Ferry St., Salem, for installing rubber tile floor, Eastern Oregon State Hospital. Bids were opened in Salem, February 3. TW-M 2-15

★PLANT ADDITION— Portland, Ore.

Award to Henry M. Mason Co., 2206 N.W. Thurman St., Portland, no amount announced, by Crown Zellerbach Corp., Central Engineering Office, 6301 Airport Way, Seattle, for an addition to North Portland plant of Western Waxed Paper Division of Crown Zellerbach Corp., on N. Portland Road, adjacent to Swift & Co. plant. Bids were opened January 24.

Pre-cast, reinforced concrete tilt-up walls; Steel beams and columns (furnished by Bethlehem Pacific Steel Co.); fire protection facilities. WB 2-10. Previous report 1-21

RADIO TOWER— Portland, Ore.

Edmundson, Kochendoerfer & Kennedy, architects and engineers, 325 Henry Bldg., retained by City of Portland, Fred Peterson, mayor, Portland, to design to radio antenna tower to be built in conjunction with the Civil Defense Communications and Control Center Bldg., now under construction. WB 2-10

▲HIGH SCHOOL— Portland, Ore.

Bids opened February 7 by School District No. 7, Multnomah County, Robert D. Sproul, clerk, Fairview Grade School, 5th and Main St., Fairview, for Reynolds High School, at N.E. Halsey St. and Birdsdale Road, Portland. Plans by Max P. Williams and Robert B. Martin, architects, 1919 S.W. 12th Ave., and Stewart & Richardson, 219 S.W. Stark St. LOW BID: Ross B. Hammond Co., P.O. Box 3901, Portland, $1,137,679. OTHER BIDS: Frank C. Ralph & Son, 2204 N.E. Alberta St., Portland, $1,157,000; W. H. Shields Construction Co., 252 Taylor St., Eugene, $1,164,000; Howard Brewton, 716 N.E. 3rd Ave., Portland, $1,165,000; A. V. Petersen, P.O. Box 2368, Portland, $1,173,462; Teller Construction Co., 845 N. Graham Ave., Portland, $1,177,000. Award was to be made Feb. 9. WB 2-10. Previous report 1-25

▲DRESS SHOP— Portland, Ore.

Bids received February 8 by Young's Gown Shop, 931 S.W. Alder St., Portland, on a new shop building to be constructed at S.W. 10th Ave. and Montgomery St., Portland. Plans by Rosce D. Hemenway, architect, 619 Cascade Bldg., Portland. LOW BID: Norman Builders, 2805 S.W. 3rd Ave., Portland. Amount not announced. WB 2-10. Previous report 2-7

▲CAFETERIA ALTERATIONS— Portland, Ore.

Bids received February 8 by Portland School District No. 1, 620 N.E. Halsey St., Portland, for cafeteria alterations at Vestal, Vernon, James John and Irvington grade schools in Portland. LOW BIDS: James & Yost, Inc., Box 1025, Portland, $32,985 (Vestal), $23,785 (Vernon), $43,885 (James John); E. Carl Schiewe, 1024 N.E. Davis St., Portland, $20,695 (Irvington).

WB 2-10. Previous report 1-27

■SCHOOL ADDITION— Portland, Ore.

Planholders announced for addition to Abernethy School, 2421 S.E. Orange St., Portland. Bids close 2:30 p.m., February 22, and will be opened 3:30 p.m., by Portland School District No. 1, L. J. Baker, business manager, 620 N.E. Halsey St., Portland. Plans by Victor E. Cochran, 429 S.W. 4th Ave., Portland. Plans with business office. $25 deposit. Certified check or bid bond 10%.

Planholders: James & Yost, Inc., Box 1025; Sergeant Construction Co., 10104 S.E. Ankeny St.; E. Carl Schiewe, 1024 N.E. Davis St.; Contractors, Inc., 1101 N.E. 21st Ave.; Simonton & Steele, 3805 S.W. Garden Home Road; Sterner Construction Co., 13845 S.E. Rhine Road; Loftin & Robinson, Route 2, Box 350, Gresham; A. C. Edmon, 4120 S.E. Gladstone St.; Gene Settergren, 2632 S.E. Salmon St.; Heigele Home Construction Co., 4034 N.E. 18th Ave. Of Portland, except as noted. WB 2-11. Previous report 1-26

■SCHOOL ADDITION— Portland, Ore.

Planholders announced for addition to Woodlawn Grade School, 7200 N.E. 11th Ave., Portland. Bids close 2:30 p.m., February 22, and will be opened 3:30 p.m., by Portland School District No. 1, L. J. Baker, business manager, 620 N.E. Halsey St., Portland. Plans by Robert Germaine Thompson, architect, 7404 S.W. Macadam Ave., Portland. Plans with business office. $50 deposit. Certified check or bid bond 10%.

Planholders: James & Yost, Inc., Box 1025; Sergeant Construction Co., 10104 S.E. Ankeny St.; E. Carl Schiewe, 1024 N.E. Davis St.; Contractors, Inc., 1101 N.E. 21st Ave.; Sterner Construction Co., 13845 S.E. Rhine Road; Loftin & Robinson, Route 2, Box 350, Gresham; A. C. Edmon, 4120 S.E. Gladstone St.; Gene Settergren, 2632 S.E. Salmon St.; Heigele Home Construction Co., 4034 N.E. 18th Ave.; Howard Brewton, 716 N.E. 3rd Ae.; C. M. Corkum, 2630 S.W. 3rd Ave.; Bigelow Construction Co., 2014 N.E. Sandy Blvd. Of Portland except as noted.

WB 2-11. Previous report 1-26

▲GYMNASIUM, AUDITORIUM EQUIPMENT— Portland, Ore.

Bids opened February 8 by Portland School District No. 1, L. J. Baker, business manager, 620 N.E. Halsey St., Portland, for gymnasium and auditorium equipment at Woodrow Wilson High School. FOLDING BLEACHER SEATS—LOW BID: Beatty Safway Scaffold Co. of Oregon, 2021 S.E. Grand Ave., $29,563. OTHER BIDS: Berlin-Chapman, 1938 N.W. Glisan St., $38,992; W. H. Cress Co., Concord Bldg., $39,477; J. K. Gill Co., 408 S.W. 5th Ave., $39,668; Northern School Supply, 1505 N.W. Lovejoy, $41,773; bid of Lowman-Hanford, 1238 N.W. Glisan, was not signed. AUDITORIUM SEATING—LOW BID: Lowman-Hanford, $13,657. OTHER BIDS: B. F. Shearer, 1947 N.W. Kearney, $14,100; Modern Theater Supply Co., Inc., 1935 N.W. Kearney, $14,265; J. K. Gill Co., $15,590; Northern School Supply, $18,702. STAGE EQUIPMENT—LOW BID: Northern School Supply Co., $13,973. OTHER BIDS: B. F. Shearer, $14,390; Modern Theater Supply Co., Inc., $17,462. Of Portland.

WB 2-11. Previous report 1-12

▲CAFETERIA ALTERATIONS— Portland, Ore.

Bids opened February 8 by Portland School District No. 1, L. J. Baker, business manager, 620 N.E. Halsey St., Portland, for cafeteria alterations at four grade schools. VESTAL—LOW BID: James & Yost, Inc., P.O. Box 1025, $32,985. OTHER BIDS: E. Carl Schiewe, 1024 N.E. Davis St., $23,333; Lorentz Bruun, 3636 S.E. 20th Ave., $34,187; Heigele Home Construction Co., 4034 N.E. 18th Ave., $35,486; O. B. Blakeley Construction Co., 10355 N.E. Saratoga St., $36,140; George H. Buckler, 4235 S.E. 17th Ave., $39,964. VERNON—LOW BID: James & Yost, $23,785. OTHER BIDS: Gene Settergren, 2632 S.E. Salmon St., $24,555; E. Carl Schiewe, $24,729; Heigele Home Construction Co., $25,876; O. B. Blakeley, $27,266; George H. Buckler, $30,451. JAMES JOHN—LOW BID: James & Yost, $43,885. OTHER BIDS: E. Carl Schiewe, $43,938; Heigele Home Construction Co., $44,736; Sterner Construction Co., 13845 S.E. Rhine St., $45,112; O. B. Blakeley, $48,593; George H. Buckler Co., $48,237. IRVINGTON—LOW BID: E. Carl Schiewe, $20,695. OTHER BIDS: Gene Settergren, $21,038; Lorentz Bruun, $21,171; James & Yost, $21,222; Heigele Home Construction Co., $22,296; O. B. Blakeley, $22,936; George H. Buckler, $22,974. Of Portland.

WB 2-11. Previous report 2-10

DRESS SHOP— Portland, Ore.

Separate electrical and mechanical bids will be called by Roscoe D. Hemenway, architect, 619 Cascade Bldg., for Young's Gown Shop building at S.W. 10th Ave. and Montgomery. Award of general contract will be made to Norman Builders, 2805 S.W. 3rd Ave., Portland. Total cost is estimated at $105,000. WB 2-11. Previous report 2-10

●UNION BUILDING— Portland, Ore.

Sub-bids to be received by 1 p.m., March 1, by Holman J. Barnes, architect, 514 Henry Bldg., Portland, for headquarters building for Mason Trades Building Association, Ralph Holm, secretary. The association will act as general contractor and is made up of Cement Masons Local No. 555, L. M. Jolley, president, 1419 S.W. 3rd Ave., and Bricklayers & Masons Local No. 1, Ray Hord, president, 1316 S.W. 4th Ave.

Building to feature unit masonry, including concrete blocks and bricks, mostly exposed in interior; long span steel joists with metal forms and lightweight concrete decks; some reinforced architectural concrete; glazed structural walls and ceramic floors in toilet rooms and some other areas; terrazzo floor in entry; asphalt or vinyl tile floor elsewhere; exposed plaster or acousti-

cal treatment on ceilings; built-up roofing; aluminum sash and metal trim; oil-fired hot water heating; fluorescent and incandescent lighting.

WB 2-14. Previous report 1-31

★**OFFICE BUILDING ADDITIONS—** **Portland, Ore.**

(Estimated cost, $1,000,000)

Contract award to Hoffman Construction Co., 715 S.W. Columbia St., Portland, for addition of seven additional floors to two wings of Public Service Building, 920 S.W. 6th Ave., Portland, by Pacific Power & Light Co., Paul B. McKee, president, who operate the building for New England Mutual Life Insurance Co., Corbett Bldg., Portland. Plans are under way by Belluschi and Skidmore, Owings & Merrill, architects, 2040 S.W. Jefferson St., Portland. Construction is to start about June 1. General contractors are accepting sub-contract figures for structural steel.

Additions will bring wings up to 12 stories; main building has 15 stories; includes remodeling of penthouse; includes automatic elevators with electronic controls.

WB 2-14. Previous report 12-23

AIRPORT TERMINAL BUILDING— **Portland, Ore.**

(Estimated cost, $3,500,000)

Bid call to be issued late April (tentative) with bid opening in early June by the Port of Portland, W. L. Williams, president, and John J. Winn, general manager, 5848 N. Lagoon Ave., Swan Island, Portland. Working drawings are nearly complete by Burns, Bear, McNeil & Schneider, architects, 2940 S.E. Belmont St., Portland. Leigh Fisher & Associate, South Bend, Indiana, were airport consultants. Construction is tentatively scheduled to start in early July.

Terminal building to be located between present 8,800' runway near south edge of airport field, and a parallel runway planned for the future near the north edge of the field. Automobile access will be from an extension of N.E. 82nd Ave. Initial building to be 500'x112' on two main levels with mezzanine; two, 750' loading fingers with stations for 16 airplanes; tower of building is 32'x64', four stories with control tower on top; parking areas for 1,500 cars ,busses and taxis. Ground level to be largely operational with baggage room space, freight handling, boilers, machinery, etc.; main level includes airline ticket counters, restaurant, lounge, snack bar, 19 roomettes, and various other facilities and concessions; mezzanine includes observation deck and airline office; rental space on third floor; Port of Portland on fifth floor; C.A.A. on sixth and seventh floors. Building foundations treated wood or composite piles; fireproof construction with concrete structural frame; exterior facing primarily of enamel iron insulated panel skin cover; some brick exterior; aluminum trim and sash; Thermopane glass in control tower; Solex glass in dining room and lounge; 20-year built-up roof; structural steel loading concourses with masonry walls; other walls in public areas of ceramic tile; vinyl or enamel iron; terrazzo public floors; acoustical ceilings throughout; prime concessionaire to provide all leasehold improvements and equipment, including carpeted floors in dining room and lounge, terrazzo in lobby and quarry tile in kitchen; air conditioning in restaurant, lounge, control tower, and roomettes; hot water, steam and hot air heating from central plant burning heavy oil and convertible to gas; incandescent and fluorescent lighting; clock system; several treadle type electrically operated doors; seven escalators; elevator in tower; recesses for animated advertising signs or luminated plane signs; walkway covered with metal roof and enclosed with glass on south side.

WB 2-15. Previous report 3-22

●**SCHOOL ADDITION—** **Portland, Ore.**

Bids to be opened 8 p.m., March 6, by Raleigh School District No. 95, Washington County, Mrs. Myrtle Raasch, clerk, Raleigh Grade School, 5225 S.W. Scholls Ferry Road, Portland, for an addition to the schools. Plans with Max P. Williams and Robert B. Martin, architects, 1919 S.W. 12th Ave., Portland. $50 deposit. Bid bond 5%.

Four-classroom addition, with boys' and girls' toilet rooms; alternates for two additional classrooms. Frame construction; glued laminated beams; built-up roofing; asphalt tile flooring; gypsum board walls; acoustical ceilings; cabinet work; heating, plumbing and electrical works to be extended from existing systems.

WB 2-15. Previous report 11-17

SCHOOLS— **Salem, Ore.**

Bond issue of $2,900,000 was approved by voters of Salem School District No. 24CJ, Salem, in a recent election. Preliminary plans are under way by William I. Williams, architect, 1390 N. Capitol St., Salem, for two schools, each to cost approximately $1,200,000. One school is to be built on site at Lansing Ave. near Silverton Road, and other school on Jones Road near Hrubetz Road. School buildings will be of frame construction with classroms for 1000 pupils each. A $500,000 remodeling program will include new music room at North Salem High School, 14th and "D" Sts.; enlargement of classrooms at Parrish Junior High School, Capitol and "D" Sts., and at Leslie Junior High School, Howard and S. Cottage St. Walter Snyder is superintendent of Salem School District No. 24 CJ, Administration Building, 13th and Ferry, Salem. TW-M 2-10

●**RESIDENCE—** **Salem, Ore.**

Bids to be opened 2 p.m., February 24, by William C. Ryan, secretary, Oregon State Board of Control in room 124, State Capitol Bldg., Salem, for construction of a residence for the Oregon Fairview Home, 2250 Strong Road, Salem. Plans with Lyle P. Bartholomew, architect, 3335 Pringle Road, Salem. $15 deposit.

DC 2-14



ROOF TRUSSES-Give Ring a Ring

Cover the overhead with custom cut "BOWSTRING" or "A" type TRUSSES for stores, warehouses, commercial, farm and utility buildings.

SHOW US THE WALLS — WE'LL COVER THE ROOF . . . OR YOU CAN!

RING & PITTS CLEAR SPAN ROOF TRUSSES

N. 2607 MONROE, SPOKANE 17, WASH. EMpire 4465

COMFORT with ECONOMY in

PORTLAND

OREGON

Portland's fine home-like hotel in the center of the city—Unsurpassed service and fine cuisine makes your visit one of happiness and comfort.

Campbell Court Hotel

ELEVENTH AND MAIN STREETS

Our rates are especially reasonable. All rooms with private bath. Singles from $3.50. Doubles from $4.50

The Northwest's Most

DISTINCTIVE BRICK

. . . in tones and textures that for three generations have made it an integral part of the Pacific Northwest's fine regional architecture.

CHEHALIS BUFF ROMANS
CHEHALIS RED ROMANS
BUFF NORMANS
RED NORMANS
NEW SCR BRICK

SCPI

CHEHALIS BRICK & TILE CO.

BOX 868, CHEHALIS, WASHINGTON

SCHOOL— **Springfield, Ore.**

Bond election to be held April 26 to finance a proposed new junior high school for Springfield School District No. 19, Harold Beall, superintendent, 1030 G St., Springfield. The amount of the bond issue will be determined by the school district's budget committee. DW-G 2-11. Previous report 2-9

★ELECTRICAL WIRING— Tillamook, Ore.

Award to Rochat Electric Co., 4635 W. William, Portland, $6,680, by Department of Finance and Administration, 1225 Ferry St., Salem, for installing new electrical wiring in the Armory, Tillamook, Ore. (Bid No. S-345-56). Bids were opened February 3 in Salem. TW-M 2-15

WASHINGTON

★SERVICE STATION— Anacortes, Wash.

Award to Stewart-Martens Co., 9739 Evanston, Seattle, approximately $55,000, by Union Oil Co., David Affleet, Anacortes, for construction of new service station at 13th and Commercial, Anacortes. JD-M 2-15

CARETAKER'S HOUSE— Aberdeen, Wash.

Bids will be called about April 1 by Department of Game, John Biggs, director, 509 Fairview Ave. North, Seattle, for construction of a caretaker's house, garage and toolshed at the Johns River public shooting area, near Aberdeen. MG 2-14

OFFICE— Bellevue, Wash.

Plans and specifications are under way on a new business office at 10701 N.E. 4th St., Bellevue, to be occupied by Pacific Telephone and Telegraph Co. Bellevue manager of the telephone company is G. W. Benedict. The site has been purchased by Ralph and Jack Benaroya who will build for the telephone company under terms of a long-term lease. The proposed structure will be built across the street from Puget Sound Power and Light Co.'s future headquaters building. MG 2-10

★OFFICE BUILDING— Bellevue, Wash.

Award to Cawdrey & Vemo, 3601 Fremont, Seattle, no amount released, for construction of new office building in Bellevue, for Puget Sound Power and Light Co., L. A. Williams, division manager, Electric Bldg., Seattle. GW 2-11. Previous report 1-21

SHOPPING CENTER— Bellevue, Wash.

Preliminary plans under way by John Graham & Co., architects and engineers, 1426 5th Ave. Bldg., Seattle, for construction of a shopping center on a 40-acre tract at the entrance to Eastgate at 150th Ave. N.E. and Sunset Highway, Bellevue. It will contain food stores, gasoline station, department store, furniture and hardware stores, bank, clinic and other services, for Eastgate Investment Corp., A. Gordon Bennett, president, Bennett-Campbell, Inc., 6401 Carlton, Seattle. GW 2-11. Previous report 9-28

▲SCHOOL— Bellevue, Wash.

Bids received in the office of Naramore, Bain, Brady & Johanson, architects, 904 7th Ave., Seattle, by Bellevue School District No. 405, George B. Brain, superintendent, Box 6, Bellevue, for the additions and alterations to Bellevue High School. The following are all basic bids representing a combined total of A, B and C. GENERAL—LOW BID: Leavitt-Chandler Co., Box 6, Bellevue, $380,715. 2ND LOW: Hedeen Construction Co., 1404 N. 143rd, Seattle, $395,600. 3RD LOW: Lewis Construction Co., 1711 Jackson, Seattle, $398,453. MECHANICAL—LOW BID: L. G. Massart Plumbing and Heating Co., 4501 9th Ave. N.W., Seattle, $96,051. 2ND LOW: Bellevue Plumbing and Heating Co., 102nd and Main St., Bellevue, $97,945. 3RD LOW: George H. Lucken Plumbing and Heating Co., 922 Leary Way, Seattle, $100,901. ELECTRICAL—LOW BID: Ewing Electric Co., 535 Main St., Edmonds, $41,900. 2ND LOW: Gracey Electric Co., 3009 Fairmount, Seattle, $42,875. 3RD LOW: Selo Electric Co., 1050 N. 38th, Seattle, $43,000. GW 2-11. Previous report 2-3

PARKVIEW ELEMENTARY SCHOOL— Bellingham, Wash.

Plans to be completed about February 15 by Galen W. Bentley, architect, 1130 State St., Bellingham, for construction of Parkview Elementary School, Coolidge Drive, Bellingham. Bids will be called at a later date by Gordon Carter, superintendent, Bellingham School District No. 501, Roeder School, Bellingham.

One stroy; no basement; L-shaped; 225'x 147'; concrete footings and foundation; tilt-up concrete solid masonry walls; concrete slab floors; steel girders; flat roof with steel decking; steel studs, masonry, plaster partitions; steel windows; brick, concrete wall finish; metal lath partitions; asphalt tile floor finish; acoustical tile ceilings; metal exterior and interior doors; wood cabinets; blackboards; rigid insulation over roof deck; hot water heating system, gas or oil fired, ventilating system. MG 2-10. Previous report 9-29

●WINDOW HARDWARE REPAIR— Bremerton, Wash.

Bids to be opened 11:30 a.m., February 21, by Department of the Navy, Bureau of Yards and Docks, F. L. Enderbrock, officer in charge of construction, Bldg. 78, U.S. Naval Base, Bremerton, for window hardware repair (NBy-1956; Spec. No. 1956/56). Specifications with Navy, Bremerton. $10 deposit. Certified check, cashier's check or bid bond 20%.

The work consists of removal of existing spring friction shoes and chain operators from projected steel window sash, and installation of new adjustable friction shoes with stainless steel tracks and casement-type fasteners on approximately 55 windows. GW 2-10

COTTAGES— Chehalis, Wash.

(Estimated cost $200,000)

Architects, Wohleb & Wohleb, 715 Washington St., Olympia, hace been retained to draw plans for the construction of three cottages at the Green Hill School for Boys, Chehalis, for Department of Public Institutions, H. D. Van Eaton, director, Public Lands-Social Security Bldg., Olympia. DE-G 2-15. Previous report 2-4

▲MILITARY BUILDING— Fairchild AFB., Wash.

Complete list of bids received February 8 by Corps of Engineers, Seattle District, Colonel N. A. Matthias, district engineer, 4735 E. Marginal Way, Seattle, for military building Tacan, Fairchild AFB. (ENG-45-108-56-105). LOW BID: Lindbrook Construction Co., 11738 34th Ave. N.E., Seattle, $35,471 (Items 1-10A), $31,202 (Items 1-9 and 10B). OTHER BIDS: C. B. Campbell Co., 436 21st Ave., Seattle, $35,703, $31,378; George Chichis Co., E. 2917 Sharp, Spokane, $36,802, $33,348; P and B Co., E. 8903 Main, Spokane, $37,772, $34,368; H. Halvorson, Inc., Box 6, Yardley, $41,447, $37,447; Sceva Construction Co., N. 2928 Madelia, Spokane, $42,092, $36,877; Wickes Engineering and Construction Co., 1441 2nd Ave., Des Moines, Iowa; Ruud Construction Co., 602 Realty Bldg., Spokane, $44,875, $36,875; West Coast Construction Co., 835 W. 48th, Seattle, $50,910, $49,067. Government estimate, $36,719, $33,275. MG 2-11. Previous report 2-16

▲BUILDING REHABILITATION— Geiger Field, Wash.

Bids received February 9 by Department of U.S. Air Force, C. S. Phelps, procurement officer, Geiger Field, Spokane, for rehabilitation of Bldg. 162, in accordance with drawing GGR-192. LOW BIDS: P. & B. Construction Co., Inc., N. 2004 Bessie, $3,438; Anton J. Popp Construction Co., W. 205 29th Ave., $3,368; Frost Electric Co., N. 2115 Division, $3,613. All of Spokane. CE-G 2-14. Previous report 1-25

●REMODEL GYMNASIUM— Hoquiam, Wash.

Bids to be opened 8 p.m., March 7, by Hoquiam School District No. 28, in the office of William F. Bohrson, superintendent, Central Elementary School office, Hoquiam, for remodeling of the high school gymnasium. Plans with John Graham & Co., architects and engineers, 1426 5th Ave. Bldg., Seattle. Three separate contracts, general, mechanical and electrical. $25 deposit. Certified check, cashier's check or bid bond 5%.

Remodeling project will include removal of stage and addition of new steel truss in the roof; new bleachers to double the seating capacity; gymnasium floor to be lengthened; play court to be enlarged; new shower and toilet facilities for boys and girls; new incinerator; boiler room alterations; complete new electrical and mechanical systems. GW 2-10. Previous report 9-28

PARISH HALL— Marysville, Wash.

Plans to be completed in May for parish hall for the Bethlehem Lutheran Church, Dennis Anderson, pastor, Marysville. Plans by Grant, Copeland and Chervabek, architects, 420 E. Howell, Seattle.

One story; 50'x60'; to include kitchen;

Damp-proof Concrete with ANTI-HYDRO

For concrete walls and foundations, be sure you specify Anti-Hydro, the integral water-proofer. This concrete sealer and primer hardens concrete, prevents freezing, makes it more water-resistant.

Anti-Hydro is backed by a 5-year maintenance guarantee. To damp-proof concrete, stucco and concrete blocks, specify Anti-Hydro on your next job. Write or phone Pioneer for details.

PIONEER SAND & GRAVEL CO.

901 FAIRVIEW AVE. N. ● 910 W. SPOKANE ST. ● SEATTLE ● MAin 2900

frame walls; concrete slab floors; glued laminated beams with 4" wood decking; built-up roof; aluminum windows; plaster partitions; asphalt tile floor finish; stained wood ceiling, wood slab dors; rigid insulation in roof and batt insulation in sides.
MG 2-14. Previous report 2-8

CHURCH ADDITIONS— Mountlake Terrace, Wash.

(Estimated Cost, $60,000)

Preliminary plans have been approved by church members of the First Baptist Church, 22800 56th Ave. W., Mountlake Terrace. Plans by Alfred F. Simonson, architect, 518 1st North, Seattle. Rev. Arthur Smith is pastor of the church.

New sanctuary will be built south of the first unit, to include a church office and pastor's office. Connecting the present unit to the new addition will be built additional space for nursery and kindergarten rooms plus a foyer. Seating capacity of new unit to be 250. HH-M 2-10. Previous report 3-29

REMODEL COURTHOUSE— Mount Vernon, Wash.

Architect, Don L. McKee, Anacortes, has been retained by Skagit County Commissioners, Wallace Sharpe, chairman, Courthouse, Mount Vernon, for proposed expansion of the courthouse. Tentative plans call for construction of a new wing on the west or north side of the existing building.
JD 2-15. Previous report 8-13

■WATER FACILITIES— Orting, Wash.

Planholders anounced for remodeling of water facilities in the hospital at the State Soldier's Home, Orting. Bids to be opened 3 p.m., February 20 by Washington Department of Institutions, H. D. Van Eaton, director, Public Lands and Social Security Bldg., Olympia. Specifications from Whitson-Miller, & Associates, 1511 Center St., Tacoma. $10 deposit.

Planholders: Bergh-Griggs Inc., 709 Pacific Ave.; Kaelin Plumbing and Heating Co., 1301 Center; Addco, Inc., 1117 A St.; H. K. Western, Beschaler Plumbing and Heating Co., All of Tacoma; Skinner Construction Co., Orting.
GW 2-15. Previous report 2-10

FARM SHOPS— Pullman, Wash.

Plans to be completed about February 15 by McClure & Adkison, architects, American Legion Bldg., Spokane, for construction of farm shop building and classroom and office wing addition to present high school building, Pullman. Upon approval, Louis Bruno, superintendent, Pullman School District No. 307, Pullman, will issue a call for bids.

One story; 50'x100' shop; 40'x70' classroom area; 9,600 sq. ft.; reinforced concrete footings and foundation; poured concrete wall, brick veneer, some solid; concrete slab floors; glued laminated beams, purlin, 2"x6" t&g decking over built-up roof; frame partitions; industrial steel windows; plywood exterior wall finish, stained wood trim; asbestos-vinyl tile floor finish; acoustical tile ceilings; steel exterior doors, two wood overhead doors; wood benches and shelves; metal lockers, chalk and tack boards; plank insulation in roof.
CE-M 2-10. Previous report 12-21

MANUFACTURING AND OFFICE FACILITIES— Renton, Wash.

Plans for an $8,500,000 manufacturing and office building for Boeing Airplane Co., at Renton Plant No. 2, have been announced. The building will be erected on a 46½-acre tract adjacent to and southeast of the existing government owned plant at Renton Airport. Project is subject to acquisition of land, negotiations for which are in final stages. New structure will have 558,000 sq. ft. and will provide combination manufacturing and assembly floor space, engineering space and transport divisional offices; some space will be used for assembly body sections of 707 commercial jets with a small area for mock-up. This new facility for the Boeing Airplane Co., William M. Allen, president, 7752 E. Marginal Way, Seattle, was designed by Austin Associates, 2930 4th Ave. S., Seattle. Construction will start soon and will be completed early summer of 1957. GW 2-10

FOLDING CARTON PLANT—Renton, Wash.

Preliminary plans underway by John Graham & Co., architects and engineers, 1426 5th Ave. Bldg., Seattle, for a folding carton plant for Container Corp. of America, John G. Robinson, vice-president, Shell Bldg., San Francisco, Calif.; W. P. Peters, manager of the present Seattle plant, 4634 E. Marginal Way, Seattle. A 48-acre site has been purchased south of Seattle, at S. 143rd St., about half a mi. from Renton Junction, in King County.
GW 2-11. Previous report 11-11

★CHURCH ADDITION— Seattle, Wash.

Award to Ballard Contractors, Inc., 4601 6th Ave. N.W., Seattle, $50,316, by Highline Methodist Church, Charles Hesse, chairman of building committee, 13015 1st Ave. So., Seattle, for construction of an educational and administration unit. The contract was negotiated after plans were revised by Steinhard, Stanley, Theriault & Anderson, architects, 404 Medical Arts Bldg., Seattle. Among various plan changes was removal of the narthex. GW 2-10. Previous report 2-1

●ROOF REPAIR— Seattle, Wash.

Bids to be opened 2 p.m., March 1, by Department of the Navy, Bureau of Yards and Docks, Rear Admiral R. H. Meade, chief of the Bureau, room 100, Bldg. 232, U. S. Naval Station, Seattle, for roof repair, Bldg. A-13, Plant A, U.S. Naval Industrial Reserve Shipyard, Seattle, and includes removal of existing roofing gravel and providing new built-up gravel surfaced roofing (NYb-1905; Spec No. 1905/56). Specifications with Navy Department, Seattle. $10 deposit. Bid bond 20%. GW 2-11

DEVELOPMENT CENTER— Seattle, Wash.

Plans for a $21,000,000 development center for Boeing Airplane Co., to be built on the former Acme Packing Co's site, west of E. Marginal Way, at the south end of Boeing Field, have been announced. This is part of the 65 acres purchased some time ago on both sides of Marginal Way. New construction project will contain four main buildings and will have minor supporting structurese. When complete it will be 1,021,000 sq. ft. of covered area; to house Boeing operations; the largest of these new buildings will have a total of 754,000 sq. ft.; certain of the BOMRAC projects, physical research, structural testing and experimental activities are among the functions to occupy the area. Structures will all be basically reinforced concrete except they will have steel in high bay areas. The first move towards actual start was made this week when clearing was started on the property. The 2nd phase will include filling of certain areas from the Duwamish River. Design of the buildings is by Austin Associates, 2930 4th Ave. S., and construction will be by the Austin Co., same address. Completion of the buildings will be in the fall of 1957. GW 2-11

SWIMMING POOL— Seattle, Wash.

(Estimated cost $370,000)

Preliminary plans approved by City Council for the proposed Magnolia indoor swimming pool. It will be financed by formation of a local improvement district and will be built at the Catherine Blaine Junior High School at 2550 34th Ave. W., Seattle. (Resolution No. 16524.) Plans by Lamont & Fey, architects, 308 Columbia St., Seattle.
GW 2-14

▲OFFICE BUILDING— Seattle, Wash.

Bids received February 10 and rejected as too high by Seattle Masters Building Association, 1930 6th, Seattle, for construction of office building at Denny Way and Newton. Plans by Oliver W. Olsen, architect, 2437 Market St., Seattle.
MG 2-14. Previous report 2-7

CITY HALL— South Bend, Wash.

Plans nearly complete and bids will be called in March on a new city hall for South Bend. Estimated cost of project is $39,500. Bids will be called by City Council, City Hall, South Bend.
DC 2-10. Previous report 10-4

MEDICAL BUILDING— Spokane, Wash.

(Estimated cost $725,000)

Working drawings under way by George W. Stoddard, Huggard & Associates, architects, 1120 Harvard, Seattle, for Carl M. Stolle, owner, 814 Old National Bank Bldg., Spokane, for medical clinic at 1000 Cliff Ave., Spokane. Three-story building on stilts; first story providing parking for 120 cars; office space for 25 to 30 doctors; pharmacy; laboratory facilities; 27,500 sq. ft.; reinforced concrete footings and foundation; architectural reinforced concrete walls; concrete slab floors; concrete columns; structural reinforced concrete roof; flexible modules drywall interior partitions; concrete walls, paint finish; asphtl tile floors; drywall ceiling with furred light circuits; blanket insulation in roof, walls and ceiling; hot water heating system, gas fired; heating and refrigerated cooling units under windows in each room.
CE-M 2-14. Previous report 12-2

●COUNTY-CITY BUILDING— Tacoma, Wash.

Bid opening extended from February 14 to 3 p.m., February 21, by Pierce County Commissioners, Jack Sonntag, clerk, room 206, Courthouse, Tacoma, for construction of a County-City building. Plans with Gordon A. Lumm, architect, 321 S. 11th, Tacoma. $150 deposit. Certified check, cashier's check or bid bond 5%. Horace J. Whitacre and Associates, structural engineers, 2907 A St.; David Hopkins, mechanical engineer, 260 S. 5th; Walter S. Gordon, electrical engineer, 260 S. 5th, all of Tacoma. The architect is submitting additional alternates for the contract to make certain the bids will fall within the amount of money available.

The building will be constructed in units. UNIT A—Superior and county court: two-story and basement, reinforced concrete walls. UNIT B—Administration offices: ten-story, structural steel girders. UNIT C—



Sheriff and police quarters, jail, kitchen: four-story, structural steel girders. UNIT D—Service station for county and city cars. UNIT E—Parking garage for city and country vehicles. There will also be a parking lot for 600 cars.

Following description applies to the entire building: Concrete slab flors; built-up roof; partitions in office areas will be movable composition wallboard or metal; concrete stairways; aluminum windows; window walls; alternates will be taken on exterior wall finish, (a) masonry, (b) architectural concrete; interior partitions to be plaster except the movable; rubber tile flooring with alternate of asphalt tile; ceramic glazed structural units in toilets and rest rooms with terrazzo flooring; acoustical ceilings, suspension system; steel doors and frames, with aluminum doors in lobby. There will be an alternate on wood doors; steel cabinets in public areas, wood in other areas; folding doors, lift doors; light fixtures and air diffuser recessed in suspended ceilings; sprinkling system; laboratory for city and county health departments; steam heat from Central Heating Co., 1218 A St.; air conditioning throughout. The whole project will cover two city blocks facing on Tacoma Ave. and extending from S. 9th to S. 11th St.

Bids may be submitted on either or all proposals, general, jail equipment, mechanical and electrical work.

GW 2-10. Previous report 1-25

● ELEMENTARY SCHOOL— Tacoma, Wash.

Bids to be opened 4 p. m., February 28, by Clover Park School District No. 400, A. G. Hudtloff, superintendent, 5214 Steilacoom Blvd., Tacoma, for the construction of a new elementary school at 108th St. S.W. and Idlewild Roa, Tacoma. Plans with Donald F. Burr, architect, 6103 Mount Tacoma Drive S.W., Lakewood Center, Tacoma. Separate bids for general, mechanical and electrical. $25 deposit for each set. Certified check, cashier's check or bid bond 5%.

Five separate buildings, three of which will be four-classroom units, the fourth will contain the administration unit, library and kindergarten, and the fifth will be a multi-purpose room with kitchen and custodian's area. Construction will be concrete slab on grade with masonry exterior walls on concrete block backing; wood framed pitched roof; laminated beams; aluminum windows; plastic skylights; suspended plastic ceilings, with some acoustical tile; interior partitions to be drywall with sheet rock and plywood; asphalt tile flooring; the three classroom units will have separate warm air heating units; the other two buildings will be heated by hot water. The building is designed for future expansion, to 20 classroom size, featuring single-loaded classrooms, self contained. The kitchen will be set up for food service in the classrooms. GC 2-10

★ HEATING SYSTEM— Tacoma, Wash.

Correction on figure of award published in PCD 2-10. Award to Weber Plumbing and Heating, 110 N. Tacoma Ave., Tacoma, $6,383, by Clover Creek School District No. 4, Route 7, Tacoma, for conversion of heating system in the school.

MG 2-11. Previous report 2-10

■ CHURCH— Tacoma, Wash.

Planholders announced for the construction of new building for Central Lutheran Church, to be located at N. 4th and Tacoma Ave., Tacoma, Dr. William Rosenbladt, chairman of the building committee, Tacoma. Bids to be opened 3 p. m., February 21, in the office of the architects, Lea, Pearson & Richards, 240 S. Stadium Way, Tacoma; E. L. Strandberg, structural engineer, Arcade Bldg., Seattle; Gellert; Griffin, Harrigan & Associates, mechanical and electrical engineers, Lyon Bldg., Seattle.

Planholders—GENERAL: Nelson Construction Co., 3504 N. Monroe; Ostruske-Murphy, 1515 Center; Standard Construction Co., 315 E. 25th; Quality Builders, 3720 Center; Anderson Construction Co., 115 S. 9th, all of Tacoma. MECHANICAL: F. C. Grosser, 1115 S. Tacoma Ave.; Howard Chapman, 2145 S. K; Bergh-Griggs, 709 Pacific Ave., all of Tacoma. ELECTRICAL: Tide Co., 1512 Center; Jardeen Electric Co., 1240 S. Sprague; Buford L. Payson, 3537 Olympic Blvd.; Electric Construction Co., 1650 Center; Eckroth Electric Co., 7915 A St.; Ault Electric Co., 4625 N. 11th; Ace Electric Co., 2302 E. 11th, all of Tacoma.

GC 2-11. Previous report 1-31

REMODEL CHURCH— Tacoma, Wash.

Plans to be completed by March 1 by Robert F. Rathjen, architect, 213 Lake St. South, Kirkland, for remodeling existing church building for First Church of the Nazerene, South 37th and M Sts., Tacoma. Rev. Virgil M. Grover is pastor of the church.

Remodeling includes construction of sanctuary and social room 30'x60', kitchen and classrooms; two story with basement; frame walls; concrete slab floors with steel joists; glued laminated arches; gable roof with shingles; frame partitions; concrete stairway; steel windows; brick veneer wall finish, plaster interior finish, wood trim; plaster partitions; asphalt tile floor finish; acoustical ceiling; solid slab doors; pella folding doors between classrooms; sound proof glass between nursery and sanctuary; hot water heating system, oil fired; forced air ventilating system.

MG 2-14. Previous report 2-1

● DEPARTMENT STORE— Tacoma, Wash.

(Estimated cost 0$250,000)

Bids to be opened 3 p. m., March 9, by Norman L. Iverson, in the office of the architect, Robert Billsbrough Price, 2907 A St., Tacoma, for construction of the Iverson Building, an addition to the People'e Department Store in Tacoma. $20 deposit. Certified check, cashier's check or bid bond 5%. Specifications with the architect. Bids will be received on general, mechanical and electrical.

Four-story and basement addition to existing store; 75'x120'; steel skeleton; Cofar steel deck; 4" concrete floors; fluorescent lighting; sprinkler system; hot water heat from Consumers' Heat Co. DC 2-15

SCHOOL— Tumwater, Wash.

(Estimated Cost, $300,000)

Preliminary plans are under way by William Arild Johnson and Associate, First National Bank Bldg., Everett, on construction of a 12-room grade school for the Tumwater School District No. 333, Tumwater. An ultimate capacity of 20 rooms is planned. The first unit will be composed of classrooms, multi-purpose room, kitchen, and playshed. Construction is expected this spring. HH-M 2-10

★ COMMUNICATION STATIONS— Walla Walla, Wash.

Award to C. B. Campbell Co., Inc., 436 21st Ave. S., Seattle, $11,004, by Civil Aeronautics Administration, 5651 Manchester Ave., Los Angeles, Calif., for communications stations at Baker, Ore.; Walla Walla, Wash.; Ellensburg, Wash. (Proposal 4-56-947). GW 2-15. Previous report 2-7

▲ SCHOOL— Washtucna, Wash.

Bids received February 9 by Washtucna School District No. 109-43 at the office of the school district, for construction of a new grade school and high school building at Washtucna. Plans by Victor Louis Wulff, architect, 1526 W. Riverside Ave., Spokane. GENERAL—LOW BIDS: Peter J. Young & Son, E. 1211 Columbia, Spokane, $261,920; Gus J. Bouten Construction Co., N. 627 Napa, Spokane, $275,000; Jensen-Rasmussen & Co., Box 89, Sunnyside, $279,920. MECHANICAL—LOW BIDS: W. R. O'Rourke Plumbing and Heating Co., 339 S. 2nd, Walla Walla, $88,465; Arnold & Jeffers, N. 1309 Ash, Spokane, $89,895; Standard Plumbing and Heating Co., E. 1801 Sprague, Spokane, $92,000. ELECTRICAL—LOW BIDS: Ritzville Electric Co., Ritzville, $27,000; Electric Smith, Inc., E. 123 Sprague, Spokane, 527,393; Tdams Electric Co., N. 416 Helena, Spokane, $28,266. GC 2-14. Previous report 2-7

▲ GREENHOUSE— Wenatchee, Wash.

Bids received February 10 by Board of Regents of State College of Washington, at the Administration Building on the college campus for the F. L. Overley Memorial Greenhouse, located at the Tree Fruit Experiment Station in Wenatchee. LOW BID: Cusick Construction Co., Inc., 739 S. Mission, $28,288. ONLY OTHER BID: Van Divort Construction Co., McKittrick, $31,256, both of Wenatchee.

MG-G 2-14. Previous report 1-25

★ CRASH CREW QUARTERS— Whidbey Island, Wash.

Award to Johannes Christenson, Oak Harbor, $4,891, by the officer in charge of construction, Public Works Department, Bldg. 26, Seaplane Base, U. S. Naval Station, Oak Harbor, Whidbey Island, for relocation and renovation of the crash crew quarters at Cornet Bay crash boat station of the Naval Air Station at Ault Field, on Whidbey Island. GW 2-11. Previous report 1-10

● LODGE BUILDING— Yakima, Wash.

Bids to be opened 8 p. m., February 29, by John S. Villesvik, architect, 109 N. 3rd St., Yakima, for lodge building for the Knights of Pythias, 11th Ave. and Brown, Yakima. $15 deposit. To be bid general, mechanical and electrical. Plans may be obtained from the office of the architect, 109 N. 3rd St., Yakima.

One story; 9,300 sq. ft.; concrete slab on grade; wood frame with brick; glued laminated beams; 2"x6" t&g roof decking; plaster wall finish; built-up roof.

IG-M 2-10. Previous report 11-1

YMCA BUILDING— Yakima, Wash.

Construction of new YMCA building, plans for which are being drawn by Maloney & Whitney, architects, Larson Bldg., Yakima, has been postponed until late summer or early fall.

One story portion of structure facing E. Yakima Ave., with the three- or four-story section facing Naches Ave. Includes swimming pool 75'x42', with balcony; gymnasium with 2250 sq. ft. of floor space; multi-purpose room with sliding partitions; showers and locker rooms; 72 sleeping rooms; classrooms; dining space; small chapel.

IG-G 2-15. Previous report 11-25

IDAHO

▲ CHURCH— Bonners Ferry, Idaho

Bids received February 9 by Trinity Lutheran Church, Gerald Amundson, pastor, Bonners Ferry, for the construction of a new church building. Plans by Culler, Gale, Martell & Norrie, architects, 720 Realty Bldg., Spokane; Lyle E. Marque and Associates, mechanical engineers, Realty Bldg.; Joseph M. Doyle, electrical engineer, 509 Realty Bldg., all of Spokane. LOW BIDS: Busboom & Rauh, N. 601 Cedar, Spokane, $101,940; Miller & Hill, Bonners Ferry, $102,976; Walter G. Meyers, Inc., and Sons, N. 1407 Calispel, Spokane, $108,112.

GW 2-14. Previous report 1-25

▲ TELEMETERING STATION BUILDING— Idaho Falls, Idaho

Bids received February 8 by Atomic Energy Commission, H. Noble, director, contracts and administration division, Idaho Operations office, 550 2nd St. (Box 1221), Idaho Falls, for the construction of a building for a telemetering station at the National Reactor Testing Station in Idaho (Inv. No. AT(10-1)-808). LOW BID: Arrington Construction Co., 1895 Yellowstone Ave., Idaho Falls, $5,650. ONLY OTHER BID: Kenneth H. Latham Co., 450 B St., Idaho Falls, $5,973. GW 2-14. Previous report 1-26

▲ HIGH SCHOOL— Post Falls, Idaho

Bids received February 8, by Post Falls School District, John O. Johnson, superintendent, Post Falls, for high school. Plans by Ralph J. Bishop, architect, W. 1526 Riverside Ave., and George Ritter, associate architect, 301 Hyde Bldg., both of Spokane. LOW BIDS: Purvis Construction Co., E. 5019 Sprague, $143,975; Walter G. Meyers, Inc., and Sons, N. 1407 Calispel St., $149,641; Ruud Construction Co., 405 Realty Bldg., $157,850. All of Spokane.

CE-G 2-14. Previous report 2-2

MONTANA

★**STORAGE ROOMS**— **Billings, Mont.**

Awards by Ryan Grocery Co., Northern Pacific Industrial site, Billings, for the construction of four banana rooms and two produce coolers. Plans by Harry Loners, architect, 418 N. 25th, Billings. GENERAL—AWARD: Riedesel Construction Co., 2325 9th Ave. N., $18,100. PLUMBING—AWARD: Big Horn Plumbing and Heating Co., 115 N. 27th, $928. ELECTRICAL—AWARD: Yellowstone Electric Co., 520 N. 32nd, $2,189. REFRIGERATION—AWARD: Modern Refrigeration Service, 2716 Montana Ave., $8,750. All firms of Billings. Bids were opened January 17 and held under advisement.

EE-G 2-14. Previous report 1-13

★**WAREHOUSE**— **Billings, Mont.**

Award to A. N. Matson Construction Co., Billings, $14,750, by L. R. Austin, owner, 3rd Ave. N. and 22nd St., Billings, in the office of the architect, Vernon L. Drake, 232 Empire Bldg., Billings, for construction of a warehouse addition.

EE-M 2-15. Previous report 2-7

●**SWIMMING POOL**— **Billings, Mont.**

Bids to be opened 10 a. m., February 29, by Billings Park Commission, in the office of William J. Fry, clerk, City Hall, Billings, for construction of a swimming pool at Athletic Park, N. 27th St., and 9th Ave. N., Billings. Plans with S. B. Ward, city engineer, City Hall, Billings. Certified check, cashier's check or bid bond 5%.

EE-G 2-15

★**OLD FOLKS HOME**— **Forysth, Mont.**

Awards by Rosebud County Commissioners, Courthouse, Forsyth, for the addition of an old folks wing to the existing Rosebud County Hospital. Plans by Harry Loners, architect, 418 N. 25th, Billings. GENERAL—AWARD: Sterhan Construction Co., Glendive, $85,500. MECHANICAL—AWARD: Carl's Sheet Metal and Plumbing Co., Forsyth, $23,493. ELECTRICAL—AWARD: Miles City Electric Co., Miles City, $8,350.

EE-G 2-14. Previous report 1-25

●**TRAINING BUILDING**— **Great Falls, Mont.**

Bids to be opened 2 p. m., March 8, by Corps of Engineers, Walla Walla District, Colonel Myron E. Page, Jr., district engineer, Bldg. 602, City-County Airport, Walla Walla, for construction of proficiency training building, Malmstrom AFB., near Great Falls, Cascade County, Mont. (ENG-45-164-56-32). $100 deposit. Completion time, 270 calendar days.

Concrete and masonry proficiency training building, approximately 11,500 sq. ft., with structural steel roof, framing and metal roof decking; removal of existing foundations of five buildings to permit installation of appurtenant utilities and sidewalks and to permit construction of the building; removal of an existing sidewalk and culvert in way of construction of drainage ditch, parking area and building; removal of existing utilities; installation of aerial building services and transformer installations.

MG 2-10. Previous report 1-25

▲**MILITARY BUILDING**—**Great Falls, Mont.**

Bids received February 9 by Corps of Engineers, Walla Walla District, Colonel Myron E. Page, Jr., district engineer, Bldg. 602, City-County Airport, Walla Walla, for construction of rocket storage, check-out and assembly building addition to an existing ammunition storage and shop building and related facilities, Malmstrom AFB., Great Falls (ENG-45-164-56-25). LOW BID: Sletten Construction Co., 1301 10th North, Great Falls, $137,122. OTHER BIDS: George Chicha, E. 2917 Sharp, Spokane, $141,837; Wayne Construction Co., 3810 Stone Way, Seattle, $146,214. Government estimate, $150,750.

MG 2-10. Previous report 2-1

▲**EDUCATION BUILDING**— **Helena, Mont.**

Bids received February 10 by Montana Education Association, 422 N. Park Ave., Helena, for construction of an education building in the 1300 block facing the State Capitol on E. 6th Ave., Helena. Plans by Sigvald L. Berg, architect, 711 Monroe Ave., Helena. GENERAL—LOW BIDS: L. P. Barney, 1100 Waukesha Ave., $20,320; Al Johnson, 326 Allen, $21,825; Bergum Bros., 915 Poplar, $22,789. MECHANICAL—LOW BIDS: Reber Plumbing Co., 805 N. Main, $5,857; City Plumbing and Heating, 413 N. Main, $6,450; Carlson Plumbing and Heating, $6,570. ELECTRIC—LOW BIDS: Palmquist Electric Co., 420 N. Main, $2,460; Mayer Electric, 210 N. Rodney, $2,477. All of Helena.

LS 2-15. Previous report 2-9

▲**MEAT PACKING PLANT**— **Kalispell, Mont.**

Bids received February 10 by Mountain Meat Co., Kalispell, for the construction of a meat packing plant. Plans by Weed & Fehlberg, architects, Sundelius Bldg., Kalispell. GENERAL—LOW BID: Gyrion Construction Co., Box 72, Kalispell, $89,613. OTHER BIDS: Walter M. Varnum, Box 983, Coeur d'Alene, Idaho, $96,098; Midland Construction Co., Libby, $101,190. MECHANICAL—LOW BID: Walbon Plumbing and Heating Co., 330 E. Idaho, Kalispell, $36,444. ONLY OTHER BID: Kalispell Plumbing and Heating Co., Box 626, Kalisplel, $37,969. ELECTRICAL—LOW BID: Hollingsworth Electric Co., 419 1st Ave. E., Kalispell, $9,160. OTHER BIDS: Poulson Electric Co., 325 1st Ave. E., Kalispell, $9,290; Pollock Electric Co., Rt. 1, Kalispell, $9,945; Miller-Ford Electric Co., 19 2nd St. E., Kalispell, $10,867.

GW 2-15. Previous report 1-27

■**SCHOOL ADDITION**— **Libby, Mont.**

Planholders announced for the construction of an addition to the Wood Junior High School, Libby. Bids to be opened 8 p. m., February 21, by School District No. 4, Dolores Ferris, clerk, at the High School. Plans with Richard L. Taylor, architect, Ford Block, Kalispell. Separate bids on general; plumbing, heating and ventilation; electrical. $25 deposit. Bid bond 5%.

Planholders — GENERAL: Gyrion Construction Co., 94 5th Ave. W., Kalispell; Midland Constructors, Inc., Box 608, Libby; Monegan Construction Co., Conrad Bank Bldg., Kalispell; Montana Builders, Box 401, Kalispell. MECHANICAL: Kalispell Plumbing and Heating Co., 333, 1st Ave. E., Kalispell; Walbon Plumbing and Heating Co., 330 E. Idaho St., Kalispell; Lawrence E. Carroll, Box 423, Libby; Jack Hoener, Plumbing and Heating Co., Columbia Falls. ELECTRICAL: Hollingsworth Electric Co., 419 1st Ave., E. Kalispell; William Kusner Electrical Contractor, Troy; Poulson's Electric Co., 325 1st Ave. E., Kalispell; Pollock Electric Co., on the Strip, Kalispell; Ralph Williams, 520 Louisiana Ave., Libby.

GW 2-14. Previous report 2-9

CHAPEL, RECREATIONAL GYMNASIUM— **Malmstrom AFB., Mont.**

Bids to be opened about 2 p. m., March 15, by Corps of Engineers, Colonel Myron E. Page, Jr., district engineer, Walla Walla District, Bldg. 602, City-County Airport, Walla Walla, for construction of a chapel and recreational gymnasium at Malmstrom

Classified Advertising

★

CLASSIFIED RATES

Classified Display: $5 per column inch.

(Column 2¼" wide)

Undisplayed: Count 7 words for keyed address. Replies forwarded without charge 10c per word, minimum charge $2. Positions Wanted: 5c per word, minimum charge $1.50.

Terms: Cash with order. All rates net.

PACIFIC PRINTING CO.
of Seattle, Inc.

Mailing Pieces — Advertising Folders — Sales Manuals — Sales Literature — Broadsides — Business Stationery — Circulars — Programs

MAin 0285
2418 Third Ave. Seattle 1, Wash.

SERVICEMAN WANTED

Experienced mechanic for field service work. Must know LeTourneau - Westinghouse equipment and GMC engines. Operator experience preferable but not necessary. Age 30-35. References required. Permanent job for right man.

WESTERN CONSTRUCTION EQUIPMENT COMPANY
P. O. Box 2537, Billings, Montana
Phone: 9-5501

HELP WANTED

Licensed Engineer, Salary $500 per month to start (increase after first year if satisfactory).

Apply to Sidney Parker, Chairman, Board of County Commissioners, Court House, Wahkiakum County, Cathlamet, Washington

FOR BEST RESULTS
Place your classified ads in
PACIFIC BUILDER AND ENGINEER
PUBLICATIONS
2418 Third Ave. Seattle 1, Wn.

RIVETS FOR SALE

We offer, subject to prior sale, 60 Tons ¼"x⅝" Round Head Rivets. Good Condition. Packed in boxes or kegs. Available for inspection at our plant, 500 Myrtle Street, Seattle. Name your own price. Write or phone W. R. Kelly, Purchasing Agent, National Steel Construction Co., Seattle. Telephone RAinier 4009.

AFB., near Great Falls, Cascade County, Mont. (ENG-45-164-56-33). $100 deposit. Completion time November 1, 1956.

Project includes SCHEDULE A—chapel; site grading; 10' of 2" water line; valve and curb box; post indicator valve; 10' of 2½" water line; 35' of 6" sanitary sewer; 250' of 1½" gas line; storm drain inlet; 230' of 8" storm drain; manhole; fire hydrant; exterior electrical work; 140' of 15" culvert pipe; 370 s.y. concrete sidewalk; 1,400 s.y. asphaltic concrete paving; 330' parking rail. SCHEDULE B—recreational gymnasium; site grading; 180' of 3" water line; 3" valve and curb box; 20' of 6" sanitary sewer; manhole; cap and abandon existing sewer and manhole; 170' of 1½" gas line; exterior electrical work; 353' of 15" culvert pipe; 300 s.y. concrete sidewalk; 1,140 s.y. of asphaltic concrete pavement; 300' parking rail; fire hydrant. MG 2-14

▲DORMITORY ADDITIONS— Missoula, Mont.

Bids received February 14 by State Board of Education, Helena, for the construction of two dormitory additions, one for Craig Hall, a man's dormitory, and the other for Corbin Hall, a women's dormitory on the campus of Montana State University at Missoula. Plans by Brinkman & Lenon, architects and engineers, Strand Theater Bldg., Kalispell. The following are basic. LOW BID: Hightower & Lubrecht, Box 1432, Missoula, $594,248. 2ND LOW: Pew Construction Co., 300 Walnut, Missoula, $611,954. 3RD LOW: J. H. Wise & Son, Box 267, Boise, $638,931. MECHANICAL—LOW BID: C. W. Schmid, Plumbing and Heating Co., 231 W. Front St., Missoula, $114,279. 2ND LOW: Lembke the Plumber, 2045 S. 12th St., Missoula, $114,934; Fullerton Plumbing and Heating Co., Box 188, Hamilton, $118,605. ELECTRICAL—LOW BID: The Electric Shop, 225 W. Broadway, Missoula, $42,957. 2ND LOW: Walford Electric Co., 513 S. Higgins, Missoula, $49,561. 3RD LOW: Western Electric Co., 205 W. Front St., Missoula, $52,000. LS-G 2-15. Previous report 2-10

▲RESIDENCE HALLS— Missoula, Mont.

Bids received February 14, by the State Board of Education, Helena, for the construction of two residence halls for Montana State University, at Missoula. Plans by Witner & Price, architects and engineers, Box 356, Missoula. The following are basic. GENERAL—LOW BID: C. B. Lauch Construction Co., Box 2559, Boise, $939,765 (basic bid). 2ND LOW: Pew Construction Co., 300 Walnut, Missoula, $949,837. 3RD LOW: J. H. Wise & Son, Box 267, Boise, $981,257. MECHANICAL—LOW BID: Fullerton Plumbing and Heating Co., Box 188, Hamilton, $175,852. 2ND LOW: Harry Lewis Plumbing and Heating Co., N. 1003 Washington, Spokane, $178,500. 3RD LOW: C. W. Schmidt Plumbing and Heating Co., 231 W. Front St., Missoula, $178,750. ELECTRICAL—LOW BID: The Electric Shop, 225 W. Broadway, Missoula, $137,000. 2ND LOW: Allen Electric Co., 23 W. 6th Ave., Helena, $158,013. 3RD LOW: Western Electric Co., 205 W. Front St., Missoula, $169,000.

LS-G 2-15. Previous report 2-7

WYOMING

●TELEPHONE BUILDINGS— Basin, Wyo.

Bids to be opened March 1 by Tri-County Telephone Association, Inc., Basin, Wyo., for construction of two buildings which will be used to house telephone equipment at Burlington, Big Horn County, and Tensleep, Washakie County. Bids were opened and rejected February 7. Plans with Miner & Miner, consulting engineers, 905 16th St., Greeley, Colo. $10 deposit.

Each building will have approximately 200 sq. ft.; brick and clay tile; concrete Slab roof. EE-G 2-15. Previous report 1-28

■SCHOOL— Buffalo, Wyo.

Planholders announced on addition for the Buffalo grade school on which bids will be opened at 8 p.m., February 22, by School District No. 2, Johnson County, Louis Adams, clerk, Buffalo. Plans with Sam C. Hutchings, architect, 1902 Thomes Ave., Cheyenne.

Planholders—GENERAL: William B. Ross & Sons, Box 991, Buffalo; Reidesel-Lowe, 501 E. 15th, Cheyenne; N. A. Nelson Construction Co., Box 644, Sheridan; Spiegelberg Construction Co., 259 W. Fremont, Laramie; Loren Hancock, Boyd Bldg., Cheyenne; Husman Bros., Big Horn Ave., Sheridan; Julien Construction Co., Box 889, Newcastle; Goodrich Construction Co., Box 289, Wheatland; William E. Burks, Box 732, Casper. MECHANICAL: Baker Plumbing and Heating, Box 54, Casper; Columbus Plumbing and Heating, Sheridan; Worland Plumbing and Heating, 215 N. 9th, Worland; Denny Plumbing and Heating, 619 Coburn Ave., Worland; P. T. Roush Plumbing and Heating, 1055 N. Custer, Sheridan; Green Plumbing and Heating, Sheridan; Miller Plumbing and Heating, 941 S. Ash, Casper; Mills Plumbing and Heating, Box 311, Buffalo; Frickney Sheet Metal Works, Inc., 545 N. Main, Sheridan; Prill Bros., 40 E. 5th, Sheridan. ELECTRIC: J. G. Knepper Electric, Sheridan; Simpson Electric Co., 920 E. 15th, Cheyenne; T. E. Pleasants, Box 590, Sheridan. LY 2-15. Previous report 1-27

STUDENT CENTER— Cheyenne, Wyo.

Plans nearly complete, bids to be called soon for a Catholic student center at the University of Wyoming. Plans by John K. Monroe, architect, Denver. Bids will be called by Monsignor John H. McDevitt, chaplain of Catholic students at the University.

Building to be located on Grand Ave. facing the university campus; 230' long; to contain social, educational and religious facilities. DC 2-10

HOSPITAL BUILDING— Evanston, Wyo.

Plans to be complete about February 15 for construction of two new buildings at Wyoming State Hospital. Plans by Kellogg & Kellogg, architects, 2309 Warren Ave., Cheyenne. Estimated cost of the buildings will be $600,000.

Two-story infirmary and a one-story recreational therapy building.

LY-G 2-10. Previous report 1-7

SCHOOL, ADMINISTRATION BUILDING ALTERATIONS— Fort Washakie, Wyo.

Additional description on a new grade school and remodeling of the administration building located on school property, two miles from Fort Washakie, Fremont County, Wyo. Bids will be opened 8 p.m., February 29 by School District No. 21, Paul O. Hines, clerk, Fort Washakie. Plans with Tresler & McCall, architects, Box 900, Cody, Wyo. $50 deposit. Certified check or bid bond 5%. There will be two alternates in the contract: alternate No. 1 involves two additional classrooms; alternate No. 2 involves adding ceramic tile wainscot in corridor and entrance of new grade school. Completion time on new grade school, November 1; on remodeling administration building, September 1.

Planholders—GEN: A. N. Nelson, Box 851, Riverton; Speigelberg Lumber and Building Co., 259 W. Fremont, Laramie; Max W. Dudley Construction Co., Box 668, Riverton; Gorton & Larton, 1939 E. 18th, Cheyenne. MECH.: Baker Plumbing and Heating Co., 2324 E. 5th, Casper; Big Horn Plumbing and Heating Co., Box 1693, Billings; City Plumbing and Heating Co., 340 Main, Lander. ELEC.: Modern Electric Co., 933 W. 14th, Casper; Simpson Electric Co., Box 1196, Cheyenne; Caldwell Electric Co., Box 877, Powell.

One-story grade school building; 221'x70'; glued laminated beams; concrete footings, foundation; brick and pumice block walls; concrete slab on corruform floors; built-up roof, asbestos-cement, rigid insulation; metal decking; reinforcing steel; steel doors and frames; quarry tile and vinyl tile flooring; aluminum window sash; hardware in toilets of brass with chrome plated finish; hollow metal doors; plastic skylights; chalkboards and tackboards.

DM 2-10. Previous report 1-28

Previous Report at the end of an item signifies the previous date the item was published in Pacific Construction Daily.

GYMNASIUM, CLASSROOMS— Huntley, Wyo.

A special election will be held February 28 on a $130,000 bond issue. Bonds would finance construction of a gymnasium and additional classroom facilities for the Huntley School District. DC 2-16

ELEMENTARY SCHOOL— Lander, Wyo.

Bond issue defeated for financing new grade school on the north side of Lander. Estimated cost of $350,000. Plans have been started by George C. Reid, architect, 202 Sweetwater, Lander. LY-G 2-11

▲INFIRMARY AND DORMITORY— Lander, Wyo.

Bids received February 6 by State Board of Charities and Reform, E. C. Rothwell, secretary, Capitol Bldg., Cheyenne, for construction of boys' and girls' training school in Lander. LOW BID: N. A. Nelson, Sheridan, $374,000 (basic bid), $3,100 (alt. 1). OTHER BIDS: Speigleberg Lumber and Building Co., 259 W. Fremont, Laramie, $380,261 (basic bid), $2,500 (alt. 1), $129,000 (sched. A), $137,900 (sched. B), $267,000 (sched. C); A. N. Nelson, Box 381, Riverton, $391,400, $2,600, $144,000, $142,350, $283,000; Max W. Dudley, Box 668, Riverton, $393,372, $2,700, no bid (sched. A), (sched. B), (sched. C); Julien Construction Co., Box 889, Newcastle, $403,471, $3,000, $141,000, $149,347, $290,000; Louis B. Welch, $409,639, $2,900, $154,450, $151,494, $304,239.

MG 2-14. Previous report 1-26

★CHURCH ADDITION— Sheridan, Wyo.

Award by Harry Witner, general contractor, 209 Wyoming Ave., Sheridan, on mechanical and electrical work for the new addition to St. Peter's Episcopal Church, Sheridan. Plans by Harrison L. Cook & Associates, 119 N. Main St., Sheridan. MECHANICAL—AWARD: Sheridan Plumbing and Heating Co., (owners P. J. and M. J. Orr), 155 W. Brundage St., Sheridan, $29,000. ELECTRIC—AWARD: T. E. Pleasants, Electric Contractor, 1505 Leopard St., Sheridan, $6,900. LY-G 2-11. Previous report 2-1

●RE-WIRING— Sheridan, Wyo.

Bids to be opened 10 a.m., February 27, by City Council, C. Harold Campbell, city clerk, City Hall, Sheridan, for completely re-wiring of the lighting system in the City Hall, with an alternate proposal for completion of only part or parts of the proposed work. Specifications with city clerk. Certified check, cashier's check or bid bond 10%. GW 2-11

CENTRAL JUNIOR HIGH ADDITION— Sheridan, Wyo.

(Estimated cost $240,000)

Bids to be called soon by School District No. 7, Karl D. Bell, superintendent, Sheridan, for construction of additions and alterations to Central Junior High School, Sheridan. Plans by Harrison L. Cook & Associates, archiects, 119 N. Main, Sheridan; Roy L. Prussing, mechanical engineer, Fratt Bldg., Billings, Mont.

One story; 16,630 sq. ft.; concrete footings, foundation; solid masonry, block walls; concrete slab floors; timber girders; glued laminated truss, flat roof; masonry and frame partitions with exposed masonry and drywall finish; wood and concrete stairways; steel windows; rigid and batt insulation in roof and walls; masonry, paint and wood paneling wall finish; asphalt tile; plaster and acoustical ceilings; wood doors and cabinets; blackboards; fire doors; extension of existing gas fired heating system; blowers. LY 2-11. Previous report 1-19

■STEAM DISTRIBUTION SYSTEM— Sheridan, Wyo.

Planholders announced for the installation of a steam distribution system at the Veterans Hospital in Sheridan. Bids to be opened 1:30 p.m., E.S.T. February 28 by Veterans Administration, Design Service, room 2707 Munitions Bldg., Washington, D. C.

Planholders: Electro Inc., Box 1227, Denver, Colo.; Husman Bros., Inc., Big Horn

Ave. Sheridan; Larsen & Co., 365 W. 4th St., Salt Lake City.
GW 2-15. Previous report 1-3

UTAH

▲BATH HOUSE, ENCLOSED SWIM— Ephraim, Utah

Bids received February 7 by City Council, City Hall, Ephraim, for bath house, enclosed swimming pool. LOW BIDS: Weyher Construction Co., 380 S. 4th West, Salt Lake City, $71,700; Prothero & Boardman, 991 E. 2nd North, Provo, $75,400; Fullmer Bros., 1600 Jefferson St., Salt Lake City, $75,943; Chytraus Bros., 2040 Redondo Ave., Salt Lake City, $76,900.
GH-M 2-14. Previous report 1-31

CHURCH— Moab, Utah

Preliminary plans are under way by Haines & Purhonen, architects, 65 E. 4th South, Salt Lake City, for a new church building for the Community Baptist Church, Moab.
GH-M 2-14

TEST PLANT— Ogden, Utah

Plans under way by Marquardt Aviation Co. for a plant at Ogden, which would produce ram-jet engines. Estimated cost $4,000,000 to $4,500,000.
DC 2-10

★REMODEL SCHOOL— Ogden, Utah

Award by Ogden School District, T. O. Smith, superintendent, 2351 Grant Ave., Ogden, for an addition and remodeling for Central Junior High School, 781 25th St., Ogden. Bids were opened February 9. Plans by Lawrence D. Olpin, architect, Kiesel Bldg., Ogden. AWARD: Hilton & Carr Constr. Co., 922 12th St., Ogden, $531,-900. OTHER BIDS: Larsen Constr. Co., 2667 Lincoln Ave., Ogden, $552,738; Saunders Constr. Co., 706 21st St., Ogden, $557,820.

Addition of 34,300 sq. ft.; concrete footings, foundation; solid masonry and block walls; concrete slab floor; steel girders; flat, steel truss roof; masonry and frame partitions; metal stairways; steel windows; face-brick finish; aluminum and hardwood trim; exposed masonry and plaster on metal lath for partition finish; asphalt, rubber, cork, ceramic tile floor finish; plaster, acoustical ceiling; hollow metal exterior doors; birch slab interior dors, wood cabinets; blackboards; fiberglass batt insulation in roof; gas fired, steam heating system.
DM 2-15. Previous report 1-19

HEADQUARTERS BUILDING— Price, Utah

Haines & Purhonen, architects, 65 E. 4th South, Salt Lake City, have been retained to draw plans for new headquarters building at the Preston Nutter Ranch for Preston Nutter Ranch Association, Price. GH-M 2-14

▲AUTO PLANT— Salt Lake City, Utah

Bids opened and rejected February 2 as too high by Wheeler-Kershaw Co., J. K. Wheeler and Walter W. Kershaw, owners, 253 W. S. Temple, Salt Lake City, for construction of a new automotive plant in Salt Lake City. Plans by Slack W. Winburn, architect, 618 Beacon Bldg., Salt Lake City.
GH-G 2-10. Previous report 1-27

★REHABILITATE WIRING SYSTEM— Salt Lake City, Utah

Award to Wasatch Electric Co., 406 S. State St., Salt Lake City, $34,153, by City Council, Roy McLeese, city engineer, City-County Bldg., Salt Lake City, for rehabilitation of electric wiring system at Salt Lake Airport. Plans by city engineer.
GH-G 2-11. Previous report 2-7

▲PAINTING BUILDING— Salt Lake City, Utah

Bids received February 7 by Utah State Building Board, 419 State Capitol Bldg., Salt Lake City, for cleaning and painting interior of Capitol Bldg., Salt Lake City. LOW BID: Ben F. Charlesworth & Son, 2849 Polk Ave., Ogden, $18,050. OTHER BIDS: Lippold Painting Co., 132 "E" St., Salt Lake City, $18,674; Armitage Painting Co. and State Painting Co., 2522 Green St., Salt Lake City, $23,890; Wiscomb Painting Co., 1215 S. 3rd West, Salt Lake City, $26,785; Bloomquist Painting Co., 1291 Atkin Ave., Salt Lake City, $27,300. GH-M 2-11. Previous report 1-26

GYMNASIUM— Salt Lake City, Utah

(Estimated cost $125,000)

New gymnasium is contemplated for St. Mary of the Wasatch College, East Bench and 13th South, Salt Lake City. Sister Marie de Lourdes is president of the college.
GH-M 2-14

PARKING RAMP— Salt Lake City, Utah

(Estimated cost $200,000)

Deseret Architects and Engineers, Ness Bldg., Salt Lake City, have been retained to draw the specifications for a new 3-level parking garage on West Temple St., Salt Lake City. The present building located on the site at 21 to 37 West Temple will be razed. Zions Securities Corp., Pierce Brady, manager, Union Pacific Bldg., Annex, Salt Lake City, are owners of the building.
GH-M 2-14

REMODEL BUILDING— Salt Lake City, Utah

(Estimated cost $250,000)

Remodeling the chemical engineering building at the University of Utah is contemplated. R. C. Culp is chairman of the board's building committee.
GH-M 2-14

REMODEL BUILDING— Salt Lake City, Utah

(Estimated cost $150,000)

Remodeling the old Union Building at the University of Utah is contemplated by the University of Utah, R. C. Culp, chairman, Salt Lake City. Old structure will be used for classrooms after new structure is complete.
GH-M 2-14

■BUILDING REPAIRS— Wendover AFB., Utah

Bids are being received by Purchasing and Contracting Office, Bldg. 2601, Wendover AFB., Utah, for fabrication and installation of shelves and hangers in 24 barracks buildings and construction of garbage racks, at Wendover AFB. (42-607-56-17). Bid bond 20%.

Planholders: Security Construction Co., 3298 Highland Drive, Salt Lake City; United Construction Co., 750 S. Main, Tooele; Bethers & Stoker, 163 "L" St., Salt Lake City; D. R. Mayberry, 3574 Eccles Ave., Ogden.
GH-M 2-11

●RENOVATION OF BUILDING— Wendover AFB., Utah

Bids to be opened 2 p.m., February 20, by Purchasing and Contracting Office, Bldg. 2601, Wendover AFB., for complete renovation of building 2118, which will be used as bowling alley (Proj. WE 6-56), and complete renovations of building 2701, which will be used as a gymnasium (Proj. WE 4-56). Bid bond 20%.
GH-M 2-11

ALASKA

▲MILITARY BUILDINGS— Alaska

Bids received February 10 by Corps of Engineers, Alaska District, Colonel Carl Y. Farrell, district engineer, D-E Bldg., Anchorage, for construction of C and D towers and additions to existing operations buildings at the following locations: Fire Island, Murphy Dome and Campion Air Force Stations, Alaska (ENG-95-507-56-22).

FIRE ISLAND—LOW BIDS: Northern Corp., Box 2011, Anchorage, $202,822; E. M. Peterson, Box 1116, Spenard, Alaska, $235,-477; Chrus Berg, Seattle, $239,00. Government estimate $184,476. CAMPION—LOW BIDS: Reed & Martin, Box 568, Fairbanks, $196,000; B-E-C-K Constructors, Seattle, $207,400; Northern Corp., Anchorage, $218,-226. Government estimate $201,728. CAMPION—LOW BIDS: E. M. Peterson, Spenard, $123,870; Peter Kiewit Sons' Co., Seattle, $132,221; Burgess Construction Co., Fairbanks, $144,200. Government estimate $82,-453.
DC 2-15. Previous report 2-1

SCHOOL— Anchorage, Alaska

Plans to be complete April 1, by Edwin B. Crittenden, architect, Box 358, Anchorage, for construction of an elementary school near L Court and between 12th and what would be 14th Ave., for Anchorage Independent School District. A. W. Morgan, superintendent, Anchorage. Stern & Towne, mechanical engineers, 615 Lakeview Blvd., Seattle; T. E. Sparling, electrical engineer, 615 Lakeview Blvd., Seattle.

One story; 27,500 sq. ft.; block and concrete footings and foundations; frame walls; concrete slab floors; timber beams; flat roof; masonry partitions; wood windows; block and metal panel exterior finish; exposed masonry interior partition, some drywall; wood, asphalt tile and terrazzo floor finishes; wood cabinets; blackboards; fire doors; coal fired hot water heating system; forced air ventilation.
GW 2-15

●SCHOOL ADDITIONS— Fort Richardson, Elmendorf AFB., Alaska

Bids to be opened 8 p.m., A.S.T., March 13, by L. R. Durkee, area representative, Housing and Home Finance Agency, in the office of Manley & Mayer, architects, 210 Loussac-Sogn Bldg., Anchorage, for construction of two school additions, one at Fort Richardson and the other at Elmendorf AFB. Plans and specifications may be botained from Manley & Mayer, architects, in Anchorage, or from Howard E. Schroedel, engineer, Lowman Bldg., Seattle. $7.50 charge for each set. Certified check or cashier's check 2%.

Two individual projects as follows: one-story, wood frame and reinforced concrete three-classroom addition to Ursa Minor Elementary School at Fort Richardson Army base; one-story wood frame and reinforced concrete six-classroom addition to Mount Spurr Elementary School at Elmendorf AFB.
DC 2-11

HEALTH CENTER— Kake, Alaska

Plans nearly complete; bids to be called about April 1, by Alaska Public Works, James W. Huston, director, Box 1181, Juneau, for new health center of frame construction at Kake (50-A-62). Estimated cost, $58,600. Plans by Linn Forrest, architect, 622 Hemlock Way, Juneau.
JU-G 2-10

HEALTH CENTER— McGrath, Alaska

Plans under way by Foss & Olsen, architects, Box 1344, Juneau, for the construction of a new health center at McGrath for Alaska Public Works, James W. Huston, director, Box 1181, Juneau. Bids will be called about April 1. Estimated cost, $79,000.
JU-G 2-10

●HOSPITAL— Seward, Alaska

Bids to be opened 10 a.m., March 28, by Alaska Public Works, James W. Huston, director, Box 1181, Juneau, for construction of a 30-bed hospital at 1st Ave. and Lowell St., in Seward (Proj. Aaa. 50-A-97). Plans by Foss and Olsen, architects, Box 2623, Juneau; Stevenson & Rubens, structural engineers, Olympic National Bldg., Seattle; J. Donald Broeker & Associates, mechanical engineers, 4504 S.W. Corbett Ave., Portland; George Pettingell, Grant Kelley & Co., electrical engineers, 1008 S.W. 6th Ave., Portland.

One story with partial basement; 18,700 sq. ft.; poured concrete walls; concrete slab floors; concrete beams and girders; flat roof with bar joist and wood deck; frame partitions; concrete sairways; wood sash; board insulation in walls and roof; concrete exterior finish; plaster board, marlite and vinyl interior finishes; exterior trim wood; interior metal; drywall interior partitions; rubber tile, ceramic tile, plastic asbestos tile, quarry tile, and static conductor tile floor finishes; exterior doors to be metal; interior doors wood; wood cabinets; fire doors; oil fired hot water heating system; mechanical vetilation system; kitchen equipment; sterilizers; X-ray and laboratory equipment.
MG 2-12. Previous report 2-8

ENGINEERING NEWS

Washington, Oregon, Idaho, Montana, Wyoming, Utah, Alaska

- ● Bids Called
- ★ Contract Awards
- ▲ Low Bids—Bid Received
- ■ Planholders—Prospective Bidders

OREGON

●STRUCTURAL STEEL STOPLOGS— Bonneville Dam, Ore.

Bids to be opened 2 p.m., March 6, by Corps of Engineers, Portland District, Colonel Jackson Graham, district engineer, 628 Pittock Block, Portland, for construction and delivery to Bonneville Dam of 31 structural steel stoplogs (CIVENG-35-026-56-146). MC 2-11

▲BREAKWATER, DREDGING— Charleston, Ore.

Complete list of bids received February 10 by Corps of Engineers, Portland District, Colonel Jackson Graham, district engineer, 628 Pittock Block, Portland, for construction of stone breakwater and dredging a small boat basin in South Slough, Coos Bay, at Charleston, Ore. (CIVENG-35-026-56-116). LOW BID: Coos Bay Dredging Co., P. O. Box 217, Coos Bay, $476,137. OTHER BIDS: Manson Construction & Engineering Co., and Osberg Construction Co., 1132 N. 128th St., Seattle, $529,365; Natt McDougall Co., 824 Pittock Block, Portland, and H. G. Palmberg, P. O. Box 991, Astoria, $540,860; Miller & Strong, Box 366, Eugene, $543,182. Engineer's estimate, $529,308.

WB 2-14. Previous report 1-24

▲REPLACE BANK TRANSFORMER— Condon, Ore.

Bids received February 13 by Department of the Air Force, C. S. Phelps, procurement officer, George Field, Spokane, for replacing existing bank transformer adjacent to the mess hall and repair of supporting structures at 636th AC&W squadron, in the vicinity of Condon, Ore. (IFB-45-614-56-47). LOW BIDS: F. C. Wood Construction Co., Hermiston, $2,114; Western Electric Co., 1235 N.E. 47th Ave., Portland, $3,029; Power City Electric Co., N. 920 Howard, Spokane, $3,099.

CE-G 2-15. Previous report 1-19

■REPAIR OUTLETS, CONSTRUCT LINERS— Detroit Dam, Ore.

Additional planholders announced for repairing lower regulating outlets and constructing steel liners for lower regulating outlets at Detroit Reservoir, North Santiam River, Willamette Basin, Ore. (CIVENG-35-026-56-123). Planholders were previously listed in PCD February 3 under "Repair of Regulating Outlets," with the opening date of February 14. This date was tentative. Bids are to be opened 2 p.m., February 28, by Corps of Engineers, Portland District, Colonel Jackson Graham, district engineer, 628 Pittock Block, Portland. Bid bond 20%.

Additional planholders: Independent Iron Works, Inc., 8th and Pine Sts., Oakland; Adsco Industries, Inc., Richmond.

WB 2-10. Previous report 2-3

RECONSTRUCTION TELEPHONE SYSTEM— Elkton, Ore.

Plans and specifications to be complete by April 15 by Northwest Telephone Engineers, 1220 S.W. Stark St., Portland, for reconstruction of outside plant facilities of Umpqua Telephone Co., C. J. Lickider, owner-manager, Elkton, Ore. Plans and specifications for dial equipment have been issued to four manufacturers, with bids due about March 15.

About 70 miles of line to be reconstructed, using power company poles. Bids to be called later for two small dial equipment buildings at Scottsburg and Elkton. Company serves about 350 users.

WB 2-8. Previous report 12-7-54

DAM, POWER PLANT— Eugene, Ore.

A $8,000,000 revenue bond issue election has been slated for March 27 on the Beaver Marsh hydroelectric power project on the McKenzie River. Ford, Bacon & Davis, engineers, Los Angeles, Calif., submitted a favorable feasibility report.

Project involves dam at Fish Lake, diversion dam at Clear Lake, diversion tunnel, power plant at re-regulating dam at Beaver Marsh. DW-M. 2-3. Previous report 12-14

▲SEWERS— Hermiston, Ore.

Bids received January 25 and held under advisement by George Harkenrider, mayor, City Hall, Hermiston, for construction of the Jenny Ave. sewer system. Plans by city engineering department. LOW BID: Joplin Construction Co., Hermiston, $7,587. OTHER BIDS: Leslie Harris, 805 S.E. Court, Pendleton ,$8,873; Anderson-Herman, Rt. 3, Abbott Road, Walla Walla, $10,751.

GW 2-11. Previous report 1-13

●CRUSHED ROCK— McMinnville, Ore.

Bids to be opened 10 a.m., February 22, by Yamhill County Court, R. E. Renne, county judge, Courthouse, McMinnville, for furnishing approximately 50,000 c.y. crushed rock in stockpiles. Specifications with county court. DC 2-14

●STEEL STRUCTURES— Portland, Ore.

Bids to be opened 10 a.m., February 21, by Bonneville Power Administration, L. C. Stewart, procurement officer, 1001 N.E. Lloyd Blvd., Portland, for substation steel structures, fob. Eavan Spur, Vancouver, Wash. (Inv. No. 7898).

Project includes 11 current transformers; one reactor rack; 12 lightning arrester supports; one insulator mounting. MG 2-10

●PAVING, SHOULDERS— Portland, Ore.

Bids to be opened 10:30 a.m., February 23, by Board of County Commissioners, Multnomah County, John W. West, purchasing agent, room 504, Courthouse, Portland, for paving with asphaltic concrete and constructing shoulders on N.E. Halsey St. from approximately 2400' east of N.E. 162nd Ave. to Sandy Blvd., and Section Line Rd. from Cleveland Ave. to Kerslake Road. Plans with county roadmaster, Paul Northrup, 2115 S.E. Morrison St., Portland. $2 charge. Certified check or bid bond 10%.

Quantities: 14,600 ton class B asphaltic concrete; 4,498 c.y. ¾" minus material-in-base; installing 26 monuments boxes; raising 11 monument boxes. WB 2-10

▲POWER SWEEPER— Portland, Ore.

Bids opened February 8 by Portland School District No. 1, L. J. Baker, business manager, 620 N.E. Halsey St., Portland, for industrial power sweeper for maintenance department. LOW BID: Cramer Machinery Co., 1005 S.E. Stark St., Portland, $2,297, (another bid, $2,548). ONLY OTHER BID: Ivan W. Lee & Sons, 2300 S.E. 7th Ave., Portland, $2,838.

WB 2-11. Previous report 1-26

▲COPPER TUBING— Portland, Ore.

Bids opened February 7 by city purchasing agent, Gentry W. Yates, room 208, City Hall, Portland, for furnishing copper water tubing. LOW BID: Peerless Pacific Co., 2238 N. Interstate Ave., $60,998. OTHER BIDS: Utilities Supply Co., 4455 S.E. 26th Ave., $61,303; Central Supply Co., 828 S.W. 1st Ave., $61,784; Consolidated Supply Co., 1905 N. Williams, 26th Ave., $62,068; Waterworks Supplies Co., 1905 N. Williams Ave., $62,518; Marshall Wells Co., 1420 N.W. Lovejoy St., $64,212; American Steel Warehouse Co., 425 N.E. 9th Ave., $72,585. Of Portland.

WB 2-11. Previous report 1-31

▲STREET IMPROVEMENTS— Portland, Ore.

Bids opened February 8 by city auditor, Will Gibson, City Hall, Portland, for street improvements. ALLEY IN BLOCK 11, INA PARK—LOW BID: Richard M. Palmer, 6020 S.E. Brooklyn St., $1,905. OTHER BIDS: Perkins Bros., 10324 N.E. Halsey St., $2,092; Zuber Bros. Contractors, 3600 S.E. 28th Ave., $2,080. N.W. LURAY TERRACE—LOW BID: Zuber Bros., $2,473. OTHER BIDS: Perkins Bros., $2,515; Richard M. Palmer, $2,795; Harold G. LaVelle, 10430 S.E. Bush St., $3,064. Of Portland.

WB 2-11. Previous report 2-2

●BRIDGE— Portland, Ore.

Bids to be opened 10 a.m., February 28, by Bureau of Public Roads, F. E. Andrews, division engineer, 753 Morgan Bldg., Portland, for constructing a three-span reinforced concrete bridge, Oregon Forest Development Road, Project Siskiyou 325-A1, Elk River Road, Siskiyou National Forest, Curry County, Ore. Plans with Portland BPR office.

Quantities: 70 c.y. excavation; 198 c.y. concrete; 36,000 lb. reinforcing steel; 298' metal handrail. DM 2-11

▲FENDER PILES— Portland, Ore.

Bids opened February 10 by Commission of Public Docks, Thomas P. Guerin, general manager, 3070 N.W. Front Ave., Portland, for furnishing and driving new fender piles at Terminal No. 1, No. 2 and No. 4. LOW BID: H. G. Palmberg, P. O. Box 991, Astoria, $50,692. OTHER BIDS: C. M. Corkum, 2620 S.W. 2nd Ave., $56,840; General Construction Co., 4850 N.W. Front Ave., $57,611; Willamette Tug & Barge Co., Foot of N. Portsmouth St., $57,972. Of Portland except as noted. WB 2-14. Previous report 1-25

▲SLOPE PROTECTION FACILITIES— Portland, Ore.

Complete list of bids received February 10 by Corps of Engineers, Portland District, Colonel Jackson Graham, district engineer, 628 Pittock Block, Portland, for construction of slope protection facilities on the Union Pacific Railroad embankment on the Columbia River between a point two mi. east of Rufus and two mi. east of the John Day River (CIVENG-35-026-56-115). LOW BID: Miller & Strong, Box 366, Eugene, $174,765. OTHER BIDS: Harbert Bros., Estacada, $181,236; J. N. Conley, 4332 N.E. Royal Court, Portland, and Vernie Jarl, Box 507, Gresham (joint venture), $198,172; River Bend Contractors, Portland, $212,544; Fred H. Slate & E. C. Hall Co., 12012 S.W. Barbur Blvd., Portland, $234,410; G. D. Dennis & Sons, 7355 S.E. Johnson Creek Blvd., Portland, $255,550; Kuckenberg Construction Co., P. O. Box 7407, Portland, $266,666. Engineer's estimate, $214,933.

WB 2-14. Previous report 2-11

●GASOLINE MOTORS— Portland, Ore.

Bids to be opened 2 p.m., February 21, by city purchasing agent, Gentry W. Yates, room 208, City Hall, Portland, for furnishing two gasoline motors and installing in fire equipment. Certified check or bid bond 10%. WB 2-14

●LUMBER— Portland, Ore.

Bids to be opened 9:30 a.m., P.S.T., February 21, by lumber branch of Corps of Engineers, Colonel Jackson Graham, district engineer, 628 Pittock Block, Portland, for approximately 892,000 fbm. lumber, softwood, for various destinations (ENG-35-026-56-126). WB 2-15

●LUMBER— Portland, Ore.

Bids to be opened 9:30 a.m., P.S.T., February 23, by lumber branch of Corps of Engi-

neers, Colonel Jackson Graham, district engineer, 628 Pittock Block, Portland, for 8,000,000 fbm lumber, softwood, for export (ENG-35-026-56-128). WB 2-15

●LUMBER— Portland, Ore.

Bids to be opened 9:30 a.m., P.S.T., February 24, by lumber branch of Corps of Engineers, Colonel Jackson Graham, district engineer, 628 Pittock Block, Portland, for approximately 307,000 fbm. lumber, softwood, for various destinations (ENG-35-026-56-130). WB 2-15

●CATTLE GUARDS— Portland, Ore.

Bids to be opened 11 a.m., March 1, by U.S. Forest Service, Frank Walisch, regional supply officer, 729 N.E. Oregon St., room 18, Portland, for 64 steel cattle guards, fob. bidder's plant. WB 2-15

●RECONSTRUCT BRIDGE— Rainbow, Ore.

Bids to be opened 2 p.m., March 1, by U.S. Forest Service, Frank Walisch, regional supply officer, 729 N.E. Oregon St., room 18, P.O. Box 4137, Portland, for reconstruction of Elbow Grade Bridge, approximately 11 mi. south of Rainbow, Ore., Willamette National Forest. Plans with supply officer, or from Willamette National Forest, supervisor, Post Office Bldg., Eugene, Oregon.

Project includes approximately 4,300 lbs. structural steel; 4.9 mbm. treated timber; raising, shoring and bracing existing bridge; removal of top chord and knee brace members; installation of bulkhead plank. WB 2-15

★CONTROL TOWERS— Sand Island, Ore.

Award to Gilpin Construction Co., 4850 N.W. Front Ave., Portland, $12,333, by Corps of Engineers, Portland District, Colonel Jackson Graham, district engineer, 628 Pittock Block, Portland, for construction of four horizontal control towers at mouth of Columbia River, near Sand Island, Ore. (CIVENG-35-026-56-129). WB 2-14. Previous report 2-9

●TIMBER BRIDGE— Seaside, Ore.

Bids to be opened 5 p.m., P.S.T., February 27, by City Council, Robert T. Urie, auditor' City Hall, for construction of a 140' long treated timber bridge on creosoted piling, approach fills with paving, drainage pipe and other minor appurtenances. Specifications with city auditor. $5 deposit. Certified check or bid bond 5%.

Quantities: 1,320' piling in place; 22 MFBM untreated lumber in place; 26.6 MFBM treated lumber in place; 1,730 sq. yd. oil mat; 80 c.y. crushed rock; 60 ton asphaltic concrete; 3,700 c.y. embankment. DC 2-14

●TRANSFORMER— Seufert, Ore.

Bids to be opened 2 p.m., March 20, by Corps of Engineers, Portland District, Colonel Jackson Graham, district engineer, 628 Pittock Block, Portland, for delivery fob. railroad cars at Seufert, Ore., of one type OW, three-phase, 3750 kva transformer (CIVENG-35-026-56-144). Bid bond 20%. Delivery time not later than March 1, 1957. MG 2-11. Previous report 2-10

FILTRATION PLANT— Silverton, Ore.

A bond issue of $200,000 for construction of filtration plant and pipeline will be placed on the ballot for the November 6 election. Project includes necessary pipeline from water source on Abiqua Creek. J. W. Cunningham, consulting engineer, Portland Trade Bldg., Portland, has been retained by R. E. Borland, city manager, to draw up the specifications. TW-M 2-15

★MOORING DOCK PIERS— The Dalles Dam, Ore.

Award to Gilpin Construction Co., 4850 N.W. Front St., Portland, $42,521, by Corps of Engineers, Portland District, Colonel Jackson Graham, district engineer, 628 Pittock Block, Portland, for construction of mooring dock piers for oil trainsfer line barges, Oregon Shore, at The Dalles Dam Project (CIVENG-35-026-56-117). WB 2-10. Previous report 1-24

●SIDEWALKS— The Dalles, Ore.

Bids to be opened 5 p.m., February 20, by City Council, J. Julian Baget, clerk, City Hall, The Dalles, for construction of various sidewalks designated as 1955 Sidewalk Program. Plans with city engineer. $20 deposit. Certified check, cashier's check or bid bond 5%.

Quantities: 1,705 c.y. unclassified excavation; 86,300 sq. yd. new sidewalks. DC 2-14

●CONTROL, TELEPHONE CABLE— The Dalles, Ore.

Bids to be opened 2 p.m., March 13, by Corps of Engineers, Portland District, Colonel Jackson Graham, district engineer, 628 Pittock Block, Portland, for the manufacturing, testing and delivery to The Dalles Dam, control and telephone cable (CIVENG-35-026-56-143). Completion time January 1, 1957.

Project includes the following: 7,300' of control cable, 12 conductor No. 19/22 AWG; 2,000' of telephone cable, 11 pair No. 19 AWG, solid; 7,300' of telephone cable, 51 pair No. 19 AWG, solid copper, paper insulated, lead sheath, polycloroprene outer jacket. MG 2-14. Previous report 2-9

SEWER, DISPOSAL PLANT— Tigard, Ore.

Thomas Smithson, consulting engineer, 10154 S.W. Parkway, Cedar Hills, Beaverton, retained by Tigard Sanitary District, J. O. Johnson, attorney, Failing Bldg., Portland, for preliminary engineering survey of proposed sewer system and sewage disposal plant. Survey to be complete about March, and bond election contemplated in May. WB 2-2. Previous report 12-23

★CONCRETE STEPS— Tillamook, Ore.

Award to Tittle Construction Co., Box 229, Tillamook, $782, by Department of Finance and Administration, 1225 Ferry St., Salem, for repairing concrete steps in front of the Armory in Tillamook (Bid No. S-304-56). Bids were opened in Salem, January 31. TW-M 2-15. Previous report 1-24

PELTON DAM— Warm Springs, Ore.

Plans and specifications will be available about February 10 by Portland General Electric Co., Fred G. Hodge, purchasing agent, 410 Maegly-Tichner Bldg., 610 S.W. Broadway, Portland, for construction of Pelton Dam. Bids to be opened in March. $50 deposit.

Pelton Hyroelectric Development located about 10 road miles west of Madras, Jefferson County, Ore. General contract will cover construction of a 180' high concrete arch dam and spillway, powerhouse, rockfill regulating dam and related concrete spillway and appurtenant works. The turbines, generators and certain other major apparatus and equipment will be furnished by the owner. WB 2-4. Previous report 1-6

●WATER LINES, HEATING SYSTEM— Warrenton, Ore.

Bids to be opened 10:30 a.m., February 27, by Lt. Col. William H. Adams, purchasing and contracting officer, Oregon National Guard, 504 State Office Building, Salem, for three separate contracts on the water system at Camp Clatsop, Warrenton. Plans with Colonel Adams' office.

Project involves installation of hot water storage tanks in the kitchens; replacing water lines; installation of hot water heating system in the bath houses. DC 2-14

★DREDGING— Winchester Bay, Ore.

Award to H. G. Palmberg, Box 991, Astoria, $36,310, by Corps of Engineers, Portland District, Colonel Jackson Graham, district engineer, 628 Pittock Block, Portland, for dredging in Winchester Bay, on the left bank of the Umpqua River about two miles above its mouth (CIVENG-35-026-56-110). WB 2-14. Previous report 2-9

Up to the minute news on all types of building and engineering construction in the states of Oregon, Washington, Idaho, Montana, Wyoming, Utah and in Alaska, will be found in these columns.

WASHINGTON

●STEAM LINE REPAIR— Aberdeen, Wash.

Bids to be opened 2 p.m., P.S.T., March 6, by 13th Naval District, Bureau of Yards and Docks, Rear Admiral R. H. Meade, chief of bureau, room 100, Bldg 232, U.S. Naval Station, Seattle, for replacing steam line at the Naval and Marine Corps Reserve Training Center, Aberdeen (NOy-90558; Spec. No. 49237). Specifications with Naval Department, Seattle. $10 deposit. Bid bond 20%.

The work includes the removal of portions of the existing underground steam piping and the provision of a new reinforced concrete pipe trench and new steam and return piping. GW 2-10

DIKE— Aberdeen, Wash.

Bids will be called about April 1 by Department of Game, John Biggs, director, 509 Fairview Ave. North, Seattle, for diking the first 100 acres of the 750 acre property along the Johns River, near Aberdeen. Plans are under way by J. H. Lyon, chief engineer, 509 Fairview Ave. North, Seattle.

Dike is expected to be 8' wide and will extend 2' higher than original dike. MG 2-15

PAVING— Anacortes, Wash.

Cost estimates are now being determined by the city engineering department, City Hall, Anacortes, on a proposed paving project for streets in the city's business district and the first fire limits area. A second plan is also being considered for paving the remainder of all city streets. Preliminary costs show that asphalt paving would be about $1,500 per block for paving and curbs, not including intersections or roadbed preparation. Project could be paid by general obligation bond issue of $200,000. Chairman of the Community Action Committee is Rufus Fox, City Hall, Anacortes. JD 2-4. Previous report 1-12

SEWERS— Bellevue, Wash.

Cost estimates and financing plans are under way by Bellevue Sewer District to include most of the east shore of Lake Washington in the Bellevue proposed trunk sewer line. Contracts are being prepared calling for Mercer Island, Lake Hills and other districts and proposed developments to bear proportionate shares of the costs. The plans are to be ready for submission before March 1.

Estimated cost of project, $2,750,000. The Bellevue plans include a disposal plant at Black River Junction, effluent to be dumped into the Duwamish and out into salt water; a trunk sewer line from Houghton south to Renton. The plans, by serving most of the Overlake area, would eliminate nearly all of the pollution threat to Lake Washington. DC 2-7

●CLEARING, GRADING, DRAINING— Bellevue, Wash.

Bids to be opened 9:30 a.m., February 27, by King County Commissioners, room 402, County-City Bldg., Seattle, for clearing, grading, draining and resurfacing one mile of Lake Washington Blvd., P.S.H. No. 2, to 108 Ave. S.E., Bellevue. Plans with D. L. Evans, country road engineer, 905 County-City Bldg., Seattle. $10 deposit. Certified check, cashier's check or bid bond 5%.

Quantities: clearing and grubbing; 3,423 c.y. common exca., incl. haul; 21 c.y. struct. excav.; 998 ton cr. stone surf. base course; 711 ton cr. stone surf. top course; 1,376 ton asph. concr. type 1-1 cl. L level course; 1,027 ton asph. cocnr. type 1-1 cl. C wear course; 18' of 18" standard reinf. concr. culv. pipe; 45' of 12" standard reinf. concr. culv. pipe; 39' of 12" concr. culv. pipe; catch basins and miscellaneous items. GW 2-10

●PORTABLE SHREDDER— Bellingham, Wash.

Bids to be opened 5 p.m., February 20, by City Council, Alfred B. Loop, clerk, City Hall, Bellingham, for furnishing the city with a portable Royer shredder with a 30 to 50 c.y. capacity. Plans and specifications

may be obtained from the office of City Comptroller, or from Park Department Office, City Hall, Bellingham. Bid bond 5%.

Machine will be used for sewage purposes and is to have four pneumatic tires, air cooled engine with clutch.

JD-M 2-15. Previous report 2-9

● ASPHALTIC CONCRETE— Bremerton, Wash.

Bids to be opened 11:30 a. m., February 23, by Department of the Navy, Bureau of Yards and Docks, F. L. Enderbrock, officer in charge of construction, Bldg. 78, U. S. Naval Base, Bremerton, for furnishing and installing 210 ton asphaltic concrete for paving west of Bldg. 550, Puget Sound Naval Shipyard, Bremerton (NBy-1957; Spec. No. 1957/56). Specifications with Navy Department. $10 deposit. Bid bond 20%. GW 2-11

★ CAST IRON PIPE— Bremerton, Wash.

Award by City Council, E. H. T. McGowan, city clerk, City Hall, Bremerton, for 4,000' of 12" cement lined class 150, cast iron pipe with mechanical joints. Prices fob., Bremerton. AWARD: Pacific States Cast Iron Pipe Co., room 1806, Smith Tower, Seattle, $4.82 per ft. OTHER BIDS: United States Pipe Co., room 302, Colman Bldg., Seattle, $4.52 per ft.; American Cast Iron Pipe Co., 1252 1st Ave. S., Seattle, $4.78 per ft.

GW 2-15. Previous report 2-2

★ CRUSHED STONE— Coupeville, Wash.

Award to Fowler Asphalt Paving Co., 711 2nd St., Mount Vernon, $36,350, by Island County Commissioners, Arthur M. Moa, commissioner, Coupeville, for crushing and stockpiling crushed cover stone, approximately 25,000 c.y. Bids were opened February 6 and held under advisement.

GW 2-15. Previous report 1-21

● PRIEST RAPIDS DAM— Ephrata, Wash.

Bids to be opened 2 p. m. P.S.T., March 12, by Public Utility District No. 2, Grant County, G. A. Smothers, manager, at the PUD office in Ephrata for construction of the dam, powerplant and appurtenances for the Priest Rapids project on the Columbia River, Wash. Plans and specifications with PUD office, Ephrata. Certified check, cashier's check or bid bond 5%. Consulting engineers Harza Engineering Co., 400 W. Madison St., Chicago, Ill.

Priest Rapids dam, powerplant and appurtenances to be located on the Columbia River in south central Washington, 397 mi above the mouth, 105 upstream of the McNary Proj and abt 200 mi downstream from Grand Coulee Dam; approx 200 mi SE of Seattle; 55 mi NE of Yakima by road. Dam incls 6400' of earth embankment; 260' of concr gravity sec; 1150' of deep gated concr spillway; 1025' powerhse with integral intake or a total length of 8835'. Dam is designed to develop head of approx 81'; maximum height from deepest excav to the rdway will be abt 175'; earth embankments located at both ends of dam will have impervious central cores with upstream and downstream shells of river sand and gravel; central cores to extend thru the pervious river gravels to bedrock. Spillway to be located in the right section looking downstream; concr with ogee crest and bucket type energy dissipation; 22 tainter gates 40' wide by 50' high betw concrete piers; to carry a bridge with 12' rdway. Powerhse to be of integral intake type; to be located in left section of the river channel; fully enclosed with space for 10 main generating units of which 8 will be installed initially under the first construction contract; generators to be 79,000 kva, 0.95 P F, 13.8 kv units driven at 85.7 rpm by 114,000 hp Kaplan type turbines. Fish handling facilities have been tentatively proposed and would incl a fish ladder adjacent to the right end of the spillway and a power operated lift at the powerhse side of the river.

MAJOR QUANTITIES: 3,000,000 c y excav; 3,500,000 c y embankment; 840,000 c y concr; 46,000,000 lbs reinf stl. Construction will incl the dam, powerplant, appurtenances, purchase and inst of major equip items such as turbines, generators, transformers, intake gates, intake gantry crane, powerhse bridge cranes, spillway gates and gate hoists. Relocations and other reservoir wk will not be incl in the first contract. Compl time spring of 1961. DM 2-14. Previous report 1-12

PARK— Everett, Wash.

Architects Botesch & Brown, 502 Commerce Bldg., Everett, have been retained by the city park board to prepare preliminary sketches and master plans for development and modernization of Forest Park. A bond issue for $75,000 will be presented to the voters at the March 13 election. HH 2-7

★ SEWER ROD MACHINE— Everett, Wash.

Award by City Council, John L. Sugards, city clerk, City Hall, Everett, for furnishing one sewer rod machine with all necessary accessories. AWARD: Waterwork Supply Co., Seattle, $4,613. OTHER BID: Flexible Sewer Rod Equipment Co., Seattle, $4,631.

HH 2-10. Previous report 1-19

● ASPHALT— Everett, Wash.

Bids to be opened 10 a. m., February 24, by City Council, John L. Sugars, clerk, City Hall, Everett, for contract to furnish the city with 500 ton of hot asphalt concrete, to be delivered as needed, and 1,400 tons of cold patch mix. Specifications may be secured from Rod Colvin, city engineer, City Hall, Everett. HH-M 2-10

★ EMBANKMENT PROTECTION— Grand Coulee Dam, Wash.

Award to Jack Roberson, 865 C N.W., Ephrata, $2,784, by Bureau of Reclamation, P. R. Nalder, project manager, Box 368, Ephrata, for the construction of feeder canal embankment protection at Grand Coulee Dam, Wash. (Spec. No. 117C-356).

GW 2-11. Previous report 1-19

PUBLIC SHOOTING AREA— Hoquiam, Wash.

Bids will be called about April 1 by Department of Game, John Biggs, director, 509 Fairview Ave. North, Seattle, for the Deep Creek public shooting area, which will be both used for hunting and fishing. Plans are under way by J. H. Lyon, chief engineer, 509 Fairview North, Seattle.

Project includes dredging for a lake and miscellaneous items of work. MG 2-14

DIKE— Longview, Wash.

Consolidated Diking District No. 1, Longview and West Kelso, will seek state financial aid for the proposed Cowlitz River dike improvement project.

Estimated cost $39,552. Project will involve surfacing of dike upriver from Longview dump, reinforcing between the dump and Washington Pulp and Timber Co. plant, reinforcing along a 1000' strip downstream from the Longview Concrete Pipe Co. State matching funds are available for such work and will be sought from the department of conservation and development. DC 2-7

★ CAST IRON PIPE— Longview, Wash.

Award to Pacific States Cast Iron Co., Smith Tower, Seattle, $30,967, by City Council, D. Wiley Carpenter, clerk, City Hall, Longview, for furnishing cast iron pipe and fittings. GW 2-15. Previous report 2-3

★ FIRE DEPARTMENT EQUIPMENT— Marysville, Wash.

Award by Marysville City Council, H. F. Pfromm, clerk, City Hall, Marysville, for fire department equipment, for Marysville Fire Department. AWD: General Pacific Corp., 1501 E. Washington Blvd., Los Angeles, Calif., $1,275. OTHER BIDS: L. N. Curtis & Sons, 5508-14 College Ave., Oakland, Calif., $1,294; The Givens Co., 13649 Main St., Bellevue, $1,364; Honey's, Inc., Box 7435, Portland, Ore., $1,394.

GW 2-10. Previous report 1-28

WATER DISTRIBUTION SYSTEM, STORM DRAINS, SEWERS— Montesano, Wash.

Preliminary surveys completed by Howard T. Hafstad & Associates, consulting engineers, 1000 Lenora, Seattle, for water distribution system, sewer collection system and storm drains for City Council, Fred Easter, mayor, City Hall, Montesano. GW 2-4

SEWER— Mount Vernon, Wash.

Hearing to be held February 8 in Mount Vernon on formation of one or more LID units to finance construction of storm sewer in the city. Plans are now in the preliminary stage by Gwynne Le Gro, city engineer, City Hall, Mount Vernon. Estimated cost of structures is between $40,000 and $50,000. JD 2-4

● SEWAGE TREATMENT PLANT, SEWERS— Oak Harbor, Wash.

Bids to be opened 8 p. m., March 6, by Town Council, Clarissa Walrath, clerk Town Hall, Oak Harbor, for construction of primary type sewage treatment plant, trunk sewers and outfall sewer. Plans, specifications with Hill & Ingman, consulting engineers, 1728 E. Madison, Seattle. $35 deposit. Certified check 5%.

Quantities: 2,000' of 8" to 15" sewer; 1,300' of 18" outfall sewer; manholes, appurtenances; 270 c.y. structural concrete; 13,000 lbs. reinforcing steel; plant piping, plumbing, heating and ventilating; electrical installation; masonry; various items of structural steel and miscallaneous metals; steel roof decking and built-up roof; furnishing, installing various items of equipment; grading, shaping, paving, fence construction.

DC 2-11

● TANDEM ROLLER— Olympia, Wash.

Bids to be opened 2 p. m., February 23, by H. E. Pike, state supervisor of purchasing, Box 1164, Olympia, for three- to five-ton tandem rollers with tile bed trailers. Specifications with purchasing department.

DC 2-11

● TANKS— Olympia, Wash.

Bids to be opened 2 p. m., February 21, by H. E. Pike, state supervisor of purchasing, Box 1164, Olympia, for three, 1800-gallon elliptical tanks mounted on trailer chassis. DC 2-11

■ STATE HIGHWAY PROJECTS— Olympia, Wash.

Planholders announced by Washington State Highway Commission, W. A. Bugge, director, Transportation Bldg., Olympia, for highway construction work on which bids are being opened 10 a. m., February 21.

CAPITOL UNDERCROSSING — Clearing, draining, grading, surfacing, constructing steel girder bridge and installing an illumination system on 0.743 mile of PSH No. 1, Thurston County, Linwood Ave. to De Soto St. and Capitol Blvd. undercrossing, FAP No. BIN-001-2(32).

Planholders: American Bitumuls and Asphalt Co., Box 389, Portland; Anderson Bridge Construction Co., 4130 S. Adams, Tacoma; P. J. Anderson & Sons, 13501 Aurora Ave., Seattle; Bethlehem Pacific Coast Steel Corp., Box 3147, Terminal Station, Seattle; Cascade Heating and Plumbing, 402 W. 5th, Olympia; Erickson Paving Co., Route 2, Box 2155, Bellevue; Fiorito Bros., 1180 Leary Way, Seattle; Graystone of Olympia, Foot of Washington St., Olympia; Harry E. Hawkins, 16274 39th Ave. N.E., Seattle; Isaacson Iron Works, Box 3625, Seattle; Paul Jarvis, Inc., 1070 W. Ewing St., Seattle; Peter Kiewit Sons' Co., Box 531, Vancouver; Larsen Electric, 111 Columbia St., Olympia; Lino Material Co., Box 2077, Milwaukee, Wis.; Lockyear & White, Inc., Box 687, Longview; Milone & Tucci, 3215 S. M St., Tacoma; Murphy Bros., Inc., E. 3728 Broadway, Spokane; Natt McDougall Co., 824 Pittock Block, Portland; Northwest Construction Co., 3931 6th Ave. N.W., Seattle; Pacific Car and Foundry Co., 4th and Factory, Renton; Poole, McGonigle & Dick, 6330 N.E. Halsey, Portland; Thomas Scalzo Co., 3211 Airport Way, Seattle; Scheumann & Johnson, 1001 Lloyd Bldg., Seattle; U.S. Steel Corp., American Bridge Division, U.S. National Bank Bldg., Portland; United Concrete Pipe Corp., Box 367, Auburn.

LIND TO RITZVILLE—Surfacing with light bituminous surface treatment and paving with type I-1 asphaltic concrete on 14.388 mile PSH No. 11, Adams County, FAP No. F-033-2(2), and state project.

Planholders: American Bitumuls and Asphalt Co., Box 389, Portland; Frank G. Baulne, Inc., Box 84, Yardley; Carbon Bros.,

3430 N. Cook, Spokane; Columbia Asphalt Paving Co., 207 Masonic Temple Bldg., Yakima; J. C. Compton Co., Box 86, McMinnville, Ore.; Curtis Constr. Co., Box 106, Spokane; D-H Paving Co., 6808 Highway 99, Vancouver; F. H. DeAtley & Co., Box 648, Lewiston, Idaho; Grant Constr. Co., Box 351, Coeur d'Alene, Idaho; F. R. Hewett Co., Box 36, Parkwater Station, Spokane; Inland Asphalt Co., 10th and Havana, Spokane; M. J. Kuney Co., N. 120 Ralph, Spokane; McAtee & Heathe, Inc., Box 4817, Station B, Spokane; Newport Constr. Co., 7031 N.E. Halsey, Portland; Parker-Schram Co., 200 Builders Exchange Bldg., Portland; S. D. Spencer & Son, 4506 N.E. Jaggy Road, Vancouver; United Paving Co., Route 1, Box 188, Spokane; L. W. Vail Co., 1948 N. 4th, Pasco; Warren Northwest, Inc., Box 5072, Portland; Washington Asphalt Co., 309 W. 39th, Seattle.

ELTOPIA WEST—Draining, grading, surfacing with light bituminous surface treatment on 10.205 mile Franklin County Road, Eltopia West Road and Feeder Road 16-9, FAS No. S-1038(1), and county project.

Planholders: American Bitumuls and Asphalt Co., Box 389, Portland; Frank G. Baulne, Yardley; Carbon Bros., 3430 N. Cook, Spokane; Clifton & Applegate, E. 5521 Railroad Ave., Yardley; J. C. Compton Co., Box 86, McMinnville, Ore.; Curtis Constr. Co., Box 106, Spokane; F. H. DeAtley & Co., Box 648, Lewiston, Idaho; Erland & Blickle, 8265 N. Borthwick, Portland; Grant Constr. Co., Box 351, Coeur d'Alene, Idaho; J. W. Hardison, Box 48, Yakima; F. R. Hewett Co., Box 36, Parkwater Station, Spokane; Carl Hohner, E. 6203 Sharpe Ave., Spokane; Materne Bros., Box 7052, Garland Station, Spokane; Murphy Bros., Inc., E. 3728 Broadway, Spokane; McAtee & Heathe, Inc., Spokane; Newport Constr. Co., 7031 N.E. Halsey, Portland; Parker-Schram Co., 300 Builders Exchange Bldg., Portland; Sather & Sons, N. 1410 Howe, Yardley; Standard Asphalt Paving Co., Inc., 119 N. Post, Spokane; D. A. Sullivan, Box 37, Parkwater Station, Spokane; R. H. Sussex, 2850 State Highway 2A, Bellevue; L. W. Vail Co., 1948 N. 4th, Pasco.

UNION FLAT CREEK—Stockpiling crushed stone surfacing, maintenance rock and mineral aggregate on PSH Nos. 3 and 7, Whitman and Lincoln counties, Union Flat Creek vicinity and Harrington to Lamona, a state project.

Planholders: Carbon Bros., 3430 N. Cook, Spokane; Curtis Constr. Co., Box 106, Spokane; F. H. DeAtley & Co., Box 348, Lewiston, Idaho; F. R. Hewett Co., Spokane; Materne Bros. Co., Box 7052, Garland Station, Spokane; Newport Constr. Co., 7031 N.E. Halsey, Portland; D. A. Sullivan, Spokane; R. H. Sussex, Bellevue.

KELLER FERRY-SOUTH APPROACH — Paving with cement concrete on 0.091 mile PSH No. 4, Lincoln County, a state project.

Planholders: D-H Paving Co., Vancouver; Larson-Bradshaw, Inc., E. 4700 Olive Ave., Spokane; Sather & Sons, N. 1410 Howe, Yardley. DM 2-14. Previous report 2-2

★TRUCK LIFT— Olympia, Wash.

Award by State Division of Purchasing, H. E. Pike, supervisor, Box 1164, Olympia, for one EC-105 Weaver Twin Post Air oil 24,000-lb. truck life. AWARD: Equipment Supplies, Inc., 528 1st Ave. S., Seattle, $1,560, less $125 trade-in, $1,435.

DE-G 2-15. Previous report 1-26

▲STATE HIGHWAY PROJECTS— Olympia, Wash.

Bids received February 14 by Washington State Highway Commission, W. A. Bugge, director, Transportation Bldg., Olympia, on highway construction projects.

MESA TO ADAMS COUNTY LINE—Clearing, draining, grading, surfacing with light bituminous surface treatment on 11.860 mile SSH. No. 11-G, Franklin County, FAP. No. F-045-1(4).

LOW BIDS: F. R. Hewett Co., Box 36, Parkwater Station, Spokane, $446,815; Frank G. Baulne, Inc., Box 84, Yardley, $460,858; Newport Construction Co., 703 N.E. Halsey, Portland, $476,888.

EAGLE CREEK TO JORSTED CREEK—Clearing, draining, grading, surfacing and paving with type F plantmix on 2.937 mile PSH. No. 9, Mason County, FAP. No. F-907-5(2).

LOW BIDS: Northwest Construction Co., 3930 6th Ave. N.W., Seattle, $461,992; J. N. Conley, 4332 N.E. Royal Court, Portland, $463,050; J. P. Surace Construction Co., 3238 Seaview Ave., Seattle, $467,788.

CRAZY RAPIDS TO MALOTT—Draining, grading, ballasting on 10.624 mile PSH No. 10, Okanogan County, FAP No. F-209-2(9).

LOW BID: C. E. Oneal, Box 270, Ellensburg, $108,837. ONLY OTHER BID: J. W. Hardison, Box 48, Yakima, $126,461.

PSH No. 9 INTERCHANGE, R-LINE PARKWAY OVERCROSSING — Reinforced concrete box girder bridge on PSH No. 1, Thurston County, FAP No. BIN-001-2(35) Unit 2.

LOW BIDS: Troy T. Burnham Co., 18666 Beverly Road, Seattle, $87,312; Anderson Bridge Construction Co., 4130 S. Adams, Tacoma, $91,733; N. Fiorito Co., Inc., 844 W. 48th, Seattle, $93,780.

C.M. ST. P. AND P. RAILROAD OVERCROSSING-TANNER — Reinforced concrete box girder bridge on 0.038 mile PSH No. 2, King County, FAP No. BING-002-1(11).

LOW BIDS: Allen R. Anderson, 3819 10th N.W., Seattle, $66,239; N. Fiorito Co., Inc., Seattle, $74,707; Wilson & Simpson, Box 1070, Port Angeles, $74,725.

SOUTH PRAIRIE CREEK BRIDGE No. 5-E/11—Clearing, draining, grading, surfacing, paving with type I-1 asphaltic concrete and constructing reinforced concrete box girder bridge on 0.447 mile of SSH No. 5-E, Pierce County, FAS No. S-0239(1).

LOW BIDS: Sawyer Construction Co., Route 3, Box 298, Tacoma, $83,334; Woodworth & Co., Inc., 1200 E. D St., Tacoma, $88,269; Troy T. Burnham Co., Seattle, $94,858.

SWAUK CREEK EAST—Clearing, draining, grading, surfacing, constructing a cement treated base and paving with type I-1 asphaltic concrete on 0.916 mile PSH No. 3, Kittitas County, a state project.

LOW BID: Russell-Gillette Co., Box G, Cle Elum, $81,860. ONLY OTHER BIDR: J. W. Hardison, Box 48, Yakima, $94,906.

NORTH 175TH AND RONALD WAY INTERSECTION AND MEADOWDALE ROAD INTERSECTION—Draining, grading, surfacing with light bituminous surface treatment, paving with unfinished cement concrete and type I-1 asphaltic concrete and installation of two illumination systems on 0.869 mile PSH No. 1, King and Snohomish counties, a state project.

LOW BID: Associated Sand and Gravel Co., 2508 Colby Ave., Everett, $79,269; Washington Asphalt Co., 309 W. 39th, Seattle, $80,866; Northwest Construction Co., Seattle, $84,013.

TANNER VICINITY—Roadway embankment from common borrow on 0.108 mile of PSH. No. 2, King County, a state project.

LOW BID: H. Kathman, 12054 23rd N.W., Seattle, $17,200; Erickson Paving Co., Route 2, Box 2155, Bellevue, $17,481; Northwest Construction Co., Seattle, $17,843.

EVERSON VICINITY—Stockpiling crushed stone surfacing, sand and mineral aggregates on State Highways Nos. 1, 1-A, 1-B, Whatcom County, a state project.

LOW BID: Lake City Gravel and Materials, Inc., 10728 Bothell Way, Seattle, $23,200; Wilder Construction Co., 1840 State, Bellingham, $26,410.

McKENNA VICINITY—Stockpiling crushed stone surfacing and crushed screenings on SSH. No. 5-J, Pierce County, a state project. Involves about 12,500 ton crushed materials.

LOW BIDS: J. Arlie Bryant, Spokane, $20,000; Sjoboen Bros., 3205 Hoadley, Olympia, $20,400; Lake City Gravel and Materials, Seattle, $22,250.

MERCER ISLAND VICINITY—Install illumination system on PSH. No. 2, King County, a state project.

LOW BIDS: Northwest Engineering Electric Co., 616 6th S., Seattle, $19,915; Rochat Electric Co., 4636 N. Williams Ave., Portland, $22,500; Donald M. Close Co., Seattle, $23,695.

DE 2-15. Previous report 2-7

PARK ADDITION— Olympic National Park, Wash.

A proposal has been made to include the Ozette Indian reservation within the Olympic National Park. The 180-acre reservation borders the Pacific Ocean just below the northwest tip of Washington State and borders the park otherwise. As there are no remaining Ozette Indians, the Bureau of Indian Affairs is studying a recommendation by the Portland regional office, that the reservation be abandoned. DC 2-7

●WATER FACILITIES— Orting, Wash.

Bids to be opened 3 p.m., February 20, by Washington Department of Institutions, H. D. Van Eaton, director, Public Lands and Social Security Bldg., Olympia, for remodeling of water facilities in the hospital at the State Soldiers' Home, Orting. Specifications can be obtained from Whitson-Miller & Associates, engineers, 1511 Center St., Tacoma. $10 deposit. MC 2-10

ASPHALTIC CONCRETE PAVING, CURBS, GUTTERS, STORM DRAINS—Othello, Wash.

Hearing to be held February 27 at Hiawatha School auditorium, Othello, to create an improvement district, for construction and installation of curb and gutters, asphaltic pavement and storm drains within certain streets, avenues and boulevards at an estimated cost of $650,000. IG-G 2-4

★SEWERS— Pasco, Wash.

Award by City Council, Adah M. Perry, city clerk, City Hall, Pasco, for relaying about 940' of 8" concrete sewer line and lowering or replacing one manhole. Specifications by George R. Fisher, city engineer, City Hall, Pasco. AWARD: Tri-City Construction Co., Pasco, $1,988. OTHER BIDS: Kenneth Nelson, W. Sylvester, Pasco, $2,337; Doyle Levy, 833 S. Hawthorne, Kennewick, $2,359; Warren Excavating Co., 1904 W. Olive, Pasco, $2,602.

GW 2-10. Previous report 1-26

▲STOCKPILING— Prosser, Wash.

Bids received February 9 by Benton County Commissioners, Courthouse, Prosser, for crushed stone stockpiling. Specifications by Dale C. Bean, city engineer, Courthouse, Prosser. LOW BID: Trinity Construction Co., Pasco, $62,280. ONLY OTHER BID: Frank G. Baulne, Yardley, $63,170.

GW 2-15. Previous report 1-28

●WATER PIPE— Redondo, Wash.

Bids to be opened 8 p.m., February 27, by King County Water District No. 56, W. J. Betts, secretary, at the library at 6th Place and S. 287th St., Redondo, for supplying and installing water pipe. Specifications with Al Quall, water superintendent, 28438 Beach Drive (Seven Keys House), Redondo. $10 deposit. Certified check 5%.

BID No. 1: Supplying about 1820' of 6" and 1,840' of 12" class 150 asbestos-cement pipe. BID No. 2: Supplying 11 gate and check valves and supplementary materials. BID No. 3: Installing about 1,800' of 6" asbestos-cement pipe and appurtenances.

DC 2-15

WATER SUPPLY LINE— Renton, Wash.

Additional description on Unit No. 1, Mercer Island water supply pipeline, 1st phase from Renton to Factoria (Ord. No. 82863). Bids to be opened 2 p.m., February 29, by Board of Public Works, E. G. Henry, secretary, room 512, County-City Bldg., Seattle. Plans with William E. Parker, city engineer, room 404 County-City Bldg., Seattle. $10 deposit. Certified check, cashier's check or bid bond 5%.

Quantities—ALTERNATE A: 43,620' excavation and backfilling trench; 43,617' of 30", and 36" diameter, 3/8", 1/4" and 5/16" width welded steel pipe plate; 15,000 c.y. sand cushion; 32' concrete culvert pipe; 130' of 4" and 6" cast iron pipe, class 150; 170' of 4" and 6" cast iron, class 150 special blow-off outlet pipe; 332', 12", 18" and 24" reinforced concrete pipe culvert; 17,600' grading roadway; 2,500 c.y. crushed rock on roadway; 300 c.y. rock excavation; 1,500 c.y. extra excavation; 2,000 c.y. gravel in trench; 120 c.y. concrete blocking and water stops. Following items only for overhead crossing of Cedar River; 680' steel pipe; 4,900 lb. reinforced steel; 13 c.y. concrete anchor and blocking; 82', concrete culvert pipe; 10 ton riprap; 40' cast iron, class 150 flanged blow-off pipe. ALTERNATE A—for Cedar River; 680' steel pipe; 280 c.y. concrete, class 4.0; 115' concrete culvert pipe under highway and

railroad; miscellaneous items. ALTERNATE B: clearing and grubbing; 43,620' excavation, preparation and backfilling trench; 27' of 30" welded steel pipe, ¾" plate; 43,550' of 36" concrete cylinder pipe; 272' of 12", 18" and 24" concrete culvert pipe; 15 c.y. concrete class 5.0 in headers and wings; 17,600' grading of roadway; 2,500 c.y. crushed rock on roadway; 300 c.y. crushed rock excavation; 1,500 c.y. extra excavation; 2,000 c.y. gravel in trench. The following items only for overcrossing of Cedar River; 680' steel pipe; 39 c.y. concrete, class 6.0; 27 c.y. concrete, class 5.0; 4,900 lb. reinforcing steel; 850' untreated timber piling; 82' of concrete culvert pipe; 10 ton riprap; 105' cast iron, class 150 special blow-off pipe; ALTERNATE B—for Cedar River; 680' concrete cylinder pipe; 10 ton riprap; 280 c.y. concrete, class 4.0; 115' concrete culvert pipe; 30' cast iron, class 150 flanged blow-off pipe; miscellaneous items.

GW 2-14. Previous report 2-10

●PIPELINE— Seattle, Wash.

Award to West Coast Construction Co., 835 W. 48th St., Seattle, $35,275, by Board of Public Works, E. G. Henry, secretary, room 512, County-City Bldg., Seattle, for construction of water pipeline in East 63rd St., Seattle. Plans by William E. Parker, city engineer, room 404, County-City Bldg., Seattle. GW 2-10. Previous report 2-2

●REPAIRS TO SEAWALL— Seattle, Wash.

Bids to be opened 10:30 a.m., March 5, by Department of Army, Procurement Division, room 300, Bldg. 1, 1519 South Alaskan Way, Seattle, for repairs to seawall at Seattle Army Terminal, 1519 South Alaskan Way, Seattle (TC-45-045-56-38). Bid bond 20%.

Project includes rearranging and leveling existing riprap; replacement of plank bulkhead, braces and miscellaneous timbers; 34 weep holes; 910 ton riprap; 390 of 2"x6" spalls; 416-ton asphalt stabilizing cap.

MG 2-10

●ROAD EQUIPMENT— Seattle, Wash.

Bids to be opened 9:30 a.m., February 27, by King County Commissioners, W. R. Carroll, purchasing agent, room 606, County-City Bldg., Seattle, for furnishing of road equipment. Specifications with purchasing department.

Five, four-wheel drive one-yd. bucket, front-end loaders; four 115 hp. motor graders; five highway mowers; one 600-gallon, insulated asphalt distribution tank; one 10-14 ton variable weight tandem roller.

GW 2-10

●WATER MAINS— Seattle, Wash.

Bids to be opened 2 p.m., February 29, by Board of Public Works, E. G. Henry, secretary, room 512, County-City Bldg., Seattle, for the construction of water mains on 9th Ave. N.W. (LID. No. 6119). Plans with William E. Parker, city engineer, room 404, County-City Bldg., Seattle. $10 deposit. Certified check, cashier's check, or bid bond 5%. GW 2-14

▲SITE DEVELOPMENT— Seattle, Wash.

Bids received February 10 by Shoreline School District No. 412, Dr. Ray W. Howard, superintendent, Administration Bldg. E, 158th and 20th Ave. N.E., for grounds development at Shoreline Senior High School at E. 185th and 1st Ave. N.E., Seattle. LOW BID: William S. Yorozu, 13335 32nd S., Seattle, $50,097. OTHER BIDS: Poston Construction Co., 5919½ University Way, Seattle, $64,535; Walter W. Sprague Co., N. Trunk W., Alderwood Manor, $66,077; West Coast Construction Co., 935 W. 38th, Seattle, $83,362. GW 2-14. Previous report 1-27

GUIDE PIERS, DOLPHINS— Seattle, Wash.

Bids to be opened about March 12 by Corps of Engineers, Seattle District, Colonel N. A. Matthias, district engineer, 4735 E. Marginal Way, Seattle, for guide piers and dolphins, Fremont Avenue Bridge, Lake Washington Ship Canal, Seattle (CIVENG-45-106-56-41). Bid bond 20%.

Project includes removing existing guide pier and dolphin on the southeast side of the bridge and the construction of approximately 204' of new guide pier and two dolphins. MG 2-15

●PAVING, CURBING, GRADING— Spokane, Wash.

Bids to be opened 9:30 a.m., March 1, by City Council, Arthur Meehan, commissioner of Public Works, City Hall, Spokane, for paving and necessary curbing and grading of Jefferson St. from Rowan Ave. to Queen Anne Ave., with sidewalk in front of Lots 8, 9, 10, 11, Block 1, North Monroe Addition. Bid bond $953.50.

Quantities: 561 c.y. unclassified excavation; 69 c.y. excavation for catch basin connection; 1,611' concrete curbing; 161 sq. yd. concrete sidewalks; 24 sq. yd. concrete driveways; 175' of 8" sewer pipe; 4,523 sq. yd. paving with 4" asphaltic concrete.

EM-M 2-15

GAS PIPELINE— Tacoma, Wash.

Construction will start in April and be completed about September by Washington Natural Gas Co., Seattle, a 32-mile natural gas pipeline from Sumner to Tacoma. Bids will be called during March, according to Bernard T. Poor, vice president of the gas company.

The program calls for 10 miles of 16" pipe in the city and 6" to 8" spurs for industrial customers. Welded steel pipe wrapped with fiberglass over a tar coating will be used for all installations. The supply main will connect the city with a metering station on the main pipeline for natural gas from Mexico to the northwest. Extension of the distribution system in the Tacoma area from new and existing mains will cost about $450,000 and bring Fort Lewis, Dupont and Olympia areas into it. Approximately $8,000,000 will be spent by the company on construction in anticipation of the arrival of natural gas to this region in late summer.

DC 2-4

★PIPING— Tacoma, Wash.

Award to Erickson Paving Co., Rt. 2, Box 2155, Bellevue, $177,320, by Board of Contracts and Awards, Frank H. Backstrom, chairman, room 404, City Hall, Tacoma, on clearing and piping for the 1,000,000-gallon McMillin No. 2 reservoir.

GW 2-11. Previous report 2-9

▲CLEARING, GRADING— Tacoma, Wash.

Bids received February 8 by Tacoma School District No. 10, Carl G. Caddey, secretary, on the 5th floor, School Administration Bldg., Tacoma, for clearing and grading the West Eend Senior High School site. Plans from secretary. LOW BID: N. Paduano, Bulldozing Co., Rt. 2, Box 529, Bothell, $25,937. 2ND LOW: All-City Excavating Co., Seattle, $26,-09. 3RD LOW: The Harrison Bros. Co., 225 Wakefield Drive, Tacoma, $29,771.

GW 2-11. Previous report 1-27

●TRANSMISSION POLES— Vancouver, Wash.

Bids to be opened 2 p.m., March 5, by Clark County Public Utility District No. 1, V. M. Cleaveland, manager, 614 Main St., Vancouver, for 1,560 treated fir or cedar transmission poles. Specifications with PUD office. WB 2-10

★ASPHALT— Vancouver, Wash.

Awards by (bids opened February 6) city purchasing agent, Robert Moisant, City Hall, 7th and Washington, Vancouver, for furnishing asphalt for year 1956. AWDS: Douglas Oil Co., 5500 N.W. Front Ave.; Shell Oil Co., Terminal Sales Bldg.; American Bitumuls & Asphalt Co., 5501 N.W. Front Ave., and Union Oil Co., Yeon Bldg., all Portland, at $26.75 a ton. WB 2-14. Previous report 1-28

▲SPRINKLER SYSTEM— Vancouver, Wash.

Bids opened February 10 by city purchasing agent, Robert Moisant, City Hall, 7th and Washington St., Vancouver, for installing outdoor sprinkler system in Parkhill Cemetery, Mill Plain Road. LOW BID: Paul Ferneding, 2111 E. 27th St., Vancouver, $3,956. OTHER BIDS: Columbia Irrigation Co., 9817 E. Burnside St., Portland, $4,072; Ernest Ferranti & Co., 3908 S.E. Bybee Blvd., Portland, $4,310; L. S. Sorenson, Highway 99, Vancouver, $4,362; Willamette Irrigation Co., 4523 S.E. Division St., Portland, $4,628; Packard Pipe & Pump Co., Clark Hotel, Vancouver, $6,399.

WB 2-14. Previous report 1-28

★WATER WELL— Vancouver, Wash.

Award by (bids opened February 9) Clark County Public District No. 1, E. M. Raschio, purchasing agent, 614 Main St., Vancouver, for construction of water well with guarantee capacity of 2000 gpm. AWD: R. J. Strasser Co., 8110 S.E. Sunset Lane, Portland, $7,380. OTHER BIDS: L. R. Gavido Well Drilling Co., Tacoma, $12,545; Western Drilling & Equipment Co., Tacoma, $13,600.

WB 2-14. Previous report 1-11

★GRAVEL— Vancouver, Wash.

Awards by (bids opened February 6) city purchasing agent, Robert Moisant, City Hall, 7th and Washington Sts., Vancouver, for furnishing gravel for year 1956. AWDS: Klineline Sand & Gravel Co., RFD 7, Vancouver, 1½" minus and 1" minus, and Pacific Building Materials Co., 400 N. Thompson, all other sizes, at unit prices quoted, spread on city streets. WB 2-15. Previous report 1-28

CITY PARK— Wenatchee, Wash.

Chester Murray, engineer, City Hall, Wenatchee, will draw the specifications for the proposed city park in Wenatchee. Ten acres have been purchased by the city on Pearl St., north of Springwater, and bids will probably be called in the spring of 1957. George Knauss, City Hall, Wenatchee, is superintendent of parks.

MG 2-2. Previous report 12-5

ROCKY REACH DAM— Wenatchee, Wash.

(Estimated cost $200,000,000)

Economic feasibility study under way by R. W. Beck & Associates, consulting engineers, Tower Bldg., Seattle, on Rocky Reach hydroelectric project on the Columbia River near Wenatchee. The Chelan County PUD, Kirby Billingsley, Doneen Bldg., Wenatchee, is sponsoring the project and will use part of the power generated; Puget Sound Power & Light Co. will buy, under contract, the remaining portion.

Subsurface investigations were conducted by Pioneer Drillers, 216 E. 68th St., Tacoma (see DCR 5-17-55).

Present plans for the project call for a concrete gravity dam with 750' gated spillway. Intake and powerhouse sections will be about 1,080' long; reservoir created by dam will extend approximately 43 miles upstream from the project site. The completed installation will provide about 630,000 kw of electrical energy.

DM 2-15. Previous report 5-17

■CHANNEL IMPROVEMENT— Wenatchee, Wash.

Planholders announced on improvements to Chelan River channel near Lake Chelan hydroelectric plant, Chelan Falls, Wash. (No. 56-1), on which bids will be opened 10 a.m., P.S.T., March 5, by PUD No. 1, Chelan County, Kirby Billingsley, manager, in the district office, 327 N. Wenatchee Ave., Wenatchee. Specifications with the PUD office.

Planholders: George Sullivan, General Delivery, Dryden; J. B. Knowles, 1040 Monroe, Wenatchee; Roy Hansen, Leavenworth Hotel, Leavenworth; Nelson Hall, 725 5th St., Wenatchee.

Project involves 1,000 c.y. moving boulders from river bed for construction of a river guide wall. DM 2-15. Previous report 1-4

■SURFACING, BRIDGE— Whatcom County, Wash.

Planholders announced for 1.011 mile grading and surfacing and a 183' reinforced concrete and steel beam bridge, Washington Forest Highway Project 25-A5, Baker River Highway, Mount Baker National Forest, Whatcom County, Wash. Bids to be opened 10 a.m., February 21, by Bureau of Public Roads, F. E. Andrews, division engineer, 732 Morgan Bldg., Portland.

Planholders: Oregon Iron Works, 508 N. Tillamook, Portland; Aluminum Co. of America, U.S. National Bank Bldg., Port-

land; J. E. Brown Co., 1000 S.E. 12th St., Portland; Star Iron & Steel Co., 435 E. 11th St., Tacoma; Poole McGonigle & Dick, 6330 N.E. Halsey St., Portland; Bethlehem Pacific Coast Steel Corp., P. O. Box 3147, Seattle; MacRae Bros., 5900 1st Ave. S., Seattle; Excavators, Inc., 3756 29th Ave. N.E., Seattle; Louis Elterich Co., P. O. Box 868, Port Angeles; Soule Steel Co., 2630 N.W. St. Helens Road, Portland; American Pile Driving Co., Pier 2, Everett, Wash.; B-E-C-K Constructors, 3647 Stone Way, Seattle; Everett McKellar, Chelan, Wash.; Lockyear & White, Box 687, Longview, Wash.; West Coast Steel Works, 5609 N.E. 77th, Portland; Associated Sand & Gravel Co., Box 914, Everett; Armco Drainage & Metal Co., 2321 S.E. Gladstone St., Portland; Osberg Construction Co., 1132 N. 128th, Seattle; Mt. Hood Sand & Gravel, 1st and Fir, Mt. Vernon, Wash.; Owen Bros., Railroad Ave. and Oak St., Port Angeles; Leckenby Structural Steel Co., 2745 11th Ave. S.W., Harbor Island, Seattle.
WB 2-10. Previous report 1-28

●PAVEMENT REPAIRS— Whidbey Island, Wash.

Bids to be opened 2 p. m., P.S.T., March 6, by 13th Naval District, Bureau of Yards and Docks, Rear Admiral R. H. Meads, chief of bureau, room 100, Bldg. 232, U. S. Naval Station, Seattle, for pavement repairs at the Outlying Field, Quillayute, Naval Air Station, Whidbey Island, Oak Harbor (NBy-90560; Spec. No. 49239).

Work consists of resealing the joints in concrete pavement which includes the removal of the existing sealing compound; cleaning of the grooves at joints; the application of weed killer solution; and the replacement of the sealer. GW 2-14

STREETS, ROADS— Yakima, Wash.

Bids to be called between now and early spring on grading, draining, clearing, and light bituminous surface treatment on county roads by Yakima County Commissioners, Courthouse, Yakima. Plans are with Harold Sweet, county engineer, Old Courthouse, Yakima. Projects range from $2,000 to $253,000.

Largest job is the Tieton Reservoir Road, estimated $253,000. The La Rue Road surfacing will cost about $58,500 and Tecumsah Road surfacing about $78,000. IG 2-2

CLEARING, DRAINING, BITUMINOUS TREATMENT— Yakima, Wash.

Working drawings are under way and bid call expected early spring for grading, clearing, draining, ballasting and surfacing with a light bituminous treatment approximately 5.25 mi. of South 16th Ave., Yakima. Estimated cost $99,750. Harold Sweet, engineer, Old Court House Bldg., Yakima, is drawing up the specifications. IG-M 2-7

★TURBINE— Yakima, Wash.

Award to Baldwin-Lima-Hamilton Corp., Philadelphia, Pa., $222,000, by Bureau of Reclamation, L. N. McClellan, Bldg., 53, Denver Federal Center, Denver, Colo., for turbine at Roza Power Plant, Yakima (Inv. No. DS-4537). MG 2-11. Previous report 12-8

IDAHO

SEWERS— Alameda, Idaho

Final plans under way by Robert M. Nelson, engineer, 619 Grove, Boise, for the City Council, Alameda, on a sewer improvement district estimated to cost about $50,000. The general area involved includes these streets: Cedar, Alameda, Richland, Moreland and the south end of Pershing. Plans have been waiting approval by Pocatello's city commission of an easement grant to allow Alameda access to Portneuf River for a sewage disposal line. The Alameda council has agreed to lay water lines from Chapel and Meadowbrook to Willard and Chapel and in return North Pocatello will construct a bridge across the canal. DC 2-9

●PIER REPAIRS— Bayview, Idaho

Bids to be opened 2 p. m., P.S.T., March 6, by 13th Naval District, Bureau of Yards and Docks, Rear Admiral R. H. Meade, chief of bureau, room 100, Bldg. 232, U. S. Naval Station, Seattle, Wash., for repairs of a craneway pier at David Taylor Model Basin Field Station, Bayview (NBy-1904; Specification No. 1904/56).

The work includes the removal of existing timber caps of a craneway pier and replacing them with government furnished caps. The work involves carpentry and providing temporary supports to the structure during the process of replacement. GW 2-14

●SEWERS— Caldwell, Idaho

Bids to be opened 8 p.m., March 5, by City Council, City Hall, Caldwell, for construction of interceptor sewers for the city in conjunction with a sewage treatment plant. Plans and specifications may be obtained from Cornell, Howland, Hayes & Merryfield, consulting engineers, 222 Idaho Bldg., Boise, and 1600 Western Ave., Corvallis, Ore., or at the office of the City Engineer' Caldwell. $25 deposit. Bid bond 5%.

The work contemplated consists of the construction of a system of interceptor sewers to conduct wastes from an existing sanitary sewer system to the site of a sewage treatment plant proposed by the City of Caldwell and includes minor extensions and modifications of the existing sewer system. Quantities: furnishing and placing 24,700' of concrete sewer pipe ranging from 6" to 42"; construction of an outfall structure; one control manhole; 75 standard manholes; 10 special manholes; 3 railroad undercrossings; one highway undercrossing; 6 drain ditch and stream undercrossings. Alternate proposals are requested for concrete bell and spigot pipe for rubber gasket and for cement mortar or asphaltic joists.
MC 2-14. Previous report 2-2

■SEWAGE TREATMENT PLANT— Caldwell, Idaho

Planholders announced for sewage treatment plant at Caldwell. Bids to be opened 8 p. m., March 5, by City Council, City Hall, Caldwell. Plans with Cornell, Howland, Hayes & Merryfield, constulting engineers, 222 Idaho Bldg., Boise, Idaho, or 1600 Western Ave., Corvallis, Ore. $40 deposit. Bid bond 5%.

Planholders: Babbitt Construction Co., Box 508, Pocatello; Intermountain Co., 1322 Grove St., Boise; C. B. Lauch Construction Co., Box 2559, Boise; McCurry Electric, 510 Main St., Caldwell; Murry Burns Plumbing and Heating, 2801 Warm Springs Ave., Boise.
MG 2-15. Previous report 2-4

RESERVOIR— Craigmont, Idaho

Bids to be opened about March 22 by City Council, Village Hall, Craigmont, for new water supply reservoir. Plans by Wesley H. Grow and Associates, consulting engineers, Weisgerber Bldg., Lewiston.

Quantities include 850 c.y. trench excavation and backfill; 13 c.y. sand backfill; 2,300' of 8" asbestos cement pressure pipe with alternate on steel pipe; 20.5 c.y. reinforced concrete base for water tank; 100,000 gallons redwood tank in place; one deep well turbine pump complete in place with piping and controls, capacity 95 gpm.
MG 2-15. Previous report 12-15

AIRFIELD— Downey, Idaho

Construction of the proposed Hyde Memorial Air Field in Downey will be by volunteer labor. The air strip, which will be built on 20 acres of land one-half mile east of Downey, will be a community project.
GW 2-15. Previous report 12-17

WATER WELLS— Idaho Falls, Idaho
(Estimated cost $38,000)

Bids to be opened about February 29 by Atomic Energy Commission, K. W. Grundmeyer, acting director, contract and administration division, Idaho Operations Office, 550 2nd St. (Box 1221), Idaho Falls, for drilling, casing and testing two water production wells at the National Reactor Testing Station, one to be in the A1W area, approximately 10 mi. north of the Central Facilities Area, and one in the MTR area, approximately four mi. northwest of the Central Facilities Area (Inv. No. AT (10-1)-813).

The work requires drilling, casing, gravel packing between the wall of the hole and the casing, constructing concrete pump foundations, and testing with pumping units. The pumping unit for testing will be furnished by the government. Drilled holes will be a minimum of 26" in diam. and the casings 20" outside diam. The estimated depth of the well at the A1W site is 540' and at the MTR site 600'; however drilling equipment should be capable of drilling to depths of 750' in any formation. GW 2-15

■RESERVOIR COVER— Lewiston, Idaho

Planholders announced for a reservoir cover. Bids to be opened February 20 by City Council, City Hall, Lewiston. Plans and specifications with Richard Lowrie, city engineer, City Hall.

Planholders: Bert Conklin, 817 3rd St., Lewiston; Kenaston and Huntley, 811 11th Ave., Lewiston; Chicago Bridge and Iron Co., 1318 4th Ave., Seattle; Potlatch Yards, 1826 Main St., Lewiston; Madison Lumber Co., 824 "D" St., Lewiston; Ted Pope, 2045 Riverside Drive, Clarkston; Esser and Roach, Genesee; Timberib Building Co., 820 Stewart, Lewiston; General Machinery Co., E. 3500 Riverside Drive, Spokane; Victor Kashevarof, 702 Preston, Lewiston; Northwest Erectors, Inc., Box 4223, Spokane; George Meacham, 2107 12th Ave., Lewiston; Don St. Marie, 111 W. 19th Ave., Lewiston.
MG 2-14. Previous report 2-7

■SEWAGE DISPOSAL PLANT— Meridian, Idaho

Planholders announced for construction of sewage disposal plant, Meridian. Bids to be opened 8 p. m., February 20, by City Council, Harold Cox, clerk, City Hall, Meridian. Plans with Hoffman and Fiske, consulting engineer, 106 S. 4th, Boise. $15 deposit. Bid bond 5%.

Planholders: J. O. Young & Sons, Box 52, Nampa; Wilson & Dodge, Mountain Home; C. B. Lauch, Box 2559, Boise; Babbitt Construction Co., Box 4038, Boise; C. W. Watkins & Son, Box 1786, Boise; Intermountain Co., Box 1652, Boise; J. V. Van Noy, 84 N.E. 3rd, Ontario, Ore.; Detweiler Bros., Box 870, Twin Falls. MG 2-14. Previous report 2-7

▲SUBSTATION— Rupert, Idaho

Bids received February 8 by Bureau of Reclamation, Rupert, Idaho, for labor and material for Heyburn substation, in Heyburn, Minidoka Project, Idaho (Spec. No. DC-4475). LOW BID: Detweiler Bros., Box 870, Twin Falls, $85,410. OTHER BIDS: J. M. Montgomery & Co., 900 S. Robertson Blvd., Los Angnles, Calif., $95,237; C-L Electric Co., 410 S. Main St., Pocatello, $97,130; Basin Construction Co., 503 Redick Tower Bldg., Omaha, Nebr., $99,869; Commonwealth Electric Co., 1901 "Y" St., Lincoln, Nebr., $105,096; Anderson-Burke Co., 2114 Thorndyke, Seattle, $134,387.
MG 2-14. Previous report 12-16

MONTANA

★CRUSHED ROAD MATERIALS, STONE CHIPS— Billings, Mont.

Award by City Council, William J. Fry, clerk, City Hall, Billings, for 16,000 c.y. crushed road material and 7,000 c.y. stone chips. Bids were opened February 7. AWARD: William Strever, 1661 Poly Drive, $23,553. OTHER BIDS: Asphalt Paving Co., $26,706; Long Construction Co., Lockwood Flats, $31,531; Barry O'Leary, Inc., 215 N. 16th St., $30,920; Empire Sand and Gravel Co., Northeast of Billings, $49,969. All other bidders of Billings.
EE-G 2-11. Previous report 1-25

▲★WATER MAINS— Billings, Mont.

Award by Yellowstone County Commissioners, Courthouse, Billings, for water mains and fittings in two rural special improvement district, RSID Nos. 312 and 313. Plans by Sage Engineers, and Land Planners, Inc., 1010 Poly Drive, Billings. Bids

were opened February 6. RSID 312—AWARD: Barry O'Leary, Inc., 215 N. 16th, $5,706. OTHER BIDS: Cop Construction Co., 617 Central Ave., $5,836; Studer Construction Co., West of Billings, $5,858. RSID 313—Award not announced. LOW BID: Barry O'Leary, Inc., $14,800. OTHER BIDS: Studer Construction Co., $14,855; Cop Construction Co., $15,836. All of Billings.
EE-G 2-14. Previous report 1-18

● **TRUCK—** **Billings, Mont.**

Bids to be opened 5 p.m., February 28, by Park Commission, in the office of William J. Fry, clerk, City Hall, Billings, for furnishing one 14,000-lb. truck, 1956 model. Specifications with park department. Certified check, cashier's check, or bid bond 5%.
EE-G 2-15

● **GRADING, GRAVELING— Billings, Mont.**

Bids to be opened March 1, by U. S. Indian Service, P. J. Van Alystyne, area road engineer, 802 N. 29th, Billings, for grading and graveling 2.8 miles of the Hayes-Brookside road on the Fort Belknap Indian Reservation, Blaine County.

Work will include reconstruction of an existing road.
EE-G 2-15

● **PLANTMIX— Billings, Mont.**

Bids to be opened 5 p.m., February 28, by Billings City Council, William J. Fry, clerk, City Hall, Billings, for furnishing 5,000 c.y. plantmix asphalt surface course. Specifications with city council. Certified check, cashier's check or bid bond 5%.
EE-G 2-15

● **GRAVELING— Billings, Mont.**

Bids to be opened March 1, by U. S. Indian Service, P. J. Van Alstyne, area road engineer, 802 N. 29th, Billings, for furnishing and applying 11,000 c.y. of gravel on 7½ miles of the Box Elder Creek road on the Rocky Indian Reservation. The Bureau will do the grading and shaping of the road.
EE-G 2-15

SEWAGE DISPOSAL SYSTEM— **Cut Bank, Mont.**

Preliminary survey under way by Stanley Thill, consulting engineer, Conrad, for the City Council, City Hall, Cut Bank, for a proposed new sewage disposal system to replace the city's present system. The type of system, lagoon or mechanical, will be determined after survey reports have been submitted to the council. It is hoped to have preliminary work completed in time to put the sewer system bond before the voters at the June primary election. DC 2-9

ROAD IMPROVEMENTS— Glasgow, Mont.

Highway 24 leading north from Glasgow to Glasgow AFB. will be temporarily improved by Air Force authorities until state funds become available for permanent construction. Although the improvement of this highway is among the projects included in the federal aid program for improving secondary highways, the priority placed on this section of Highway 24 is not as high as other road projects in the state and no state funds have been provided for permanent improvement of the road in the immediate future. DC 2-4

■ **FIRING-IN BUTT, TAXIWAY—** **Great Falls, Mont.**

Planholders announced for construction of firing-in butt and taxiway, Malmstrom AFB, Cascade County, Great Falls (ENG-45-164-56-27). Bids to be opened 2 p.m., February 21 by Corps of Engineers, Walla Walla District, Colonel Myron E. Page, district engineer, Bldg. 602, City-County Airport, Walla Walla. Completion time 210 calendar days.

Planholders: Bob Phillips, c/o Nilson-Smith Northwestern, Great Falls Air Force Base, Great Falls; Eiford Co., 1750 State St., Bellingham; McLaughlin Inc., Box 1824, Great Falls; Studer Construction Co., RFD No. 1, Billings; Sletten Construction Co., Box 1188, Great Falls; Inland Construction Co., Box 416, Miles City; George Chicha Co., E. 2917 Sharp Ave., Spokane; Western Contracting Corp., 400 Benson Bldg., Sioux City, Iowa; Wayne Construction Co., 3810 Stoneway, Seattle; Harold Kaeser Co., 3629 34th South, Seattle; Nilson-Smith Construction Co., Box 1147, Great Falls; Gladding, McBean & Co., 1102 N. Monroe, Spokane; Lewis Hopkins Co., 221 S. 3rd St., Pasco; Arnold Swanson Co., Box 133, Hastings, Nebr., Northwestern Engineering Co., Drawer 1392, Rapid City, S. Dak. See PCD 1-19 for description.
MG 2-11. Previous report 1-19

● **SEWERS— Great Falls, Mont.**

Bids to be opened 7:30 p.m., February 23, by Montana Highway Commission in the office of Fred Hill, city clerk, City Hall, Great Falls, for construction and revision of a storm sewer and appurtenances on 1.117 miles on the East Bank of Missouri River and 10th Avenue S. By-Pass Great Falls Road in Cascade County. Proposal forms and plans at highway commission office in Helena, until 12:00 noon, February23, after which time they will be available at highway commission division office in Great Falls between 1 p.m. and 5 p.m. on February 23. $1.50 charge. Certified check, cashier's check or bid bond 5%. This project is under supervision of Ben B. Briscoe, division construction engineer at Great Falls.

U 277(4)—Quantities: 5,102' reinforced concrete pipe or vitrified clay pipe; 34.5' concrete integral curb and gutter; 3,945 c.y. unclassified excavation; 46 ton plantmix bituminous surfacing; 49 ton top course surfacing; 214 ton base course. Completion time, July 31.
DM 2-14

● **STORM SEWERS— Helena, Mont.**

Bids to be opened 7:30 p.m., February 23, by Montana State Highway Commission, Frank G. Connelly, chairman, Helena, for construction and revision of a storm sewer and appurtenances on 1.117 mi. of the East Bank Missouri River and 10th Ave. S., By-Pass Great Fall Road in Cascade County (U 277(4)). Plans with Scott P. Hart, state highway engineer, Helena. $1.50 deposit per set. Certified check, cashier's check or bid bond 5%.

Quantities: 5,102.2' reinforced concrete pipe, or vitrified clay pipe; 15 manholes; 5 drop inlets; 15 connect 22" span by 13" rise corrugated metal pipe arch culverts to manholes; 34.5' concrete integral curb and gutter; 3,945 c.y. unclassified excavation; 46.3 ton plantmix bituminous surfacing; 49.6 ton top surfacing; 214 ton base course; 598 gallons MC-2 liquid asphalt for plantmix; 111.3 gallon application MC-1 liquid asphalt; miscellaneous items.
LS-G 2-15

● **RELOCATION OF TRANSMISSION LINE— Noxon Rapids, Mont.**

Bids to be opened 2 p.m., March 2, by Bonneville Power Administration, L. C. Stewart, procurement officer, 1001 N.E. Lloyd Blvd., Portland, for Noxon Rapids relocation of the Spokane-Hot Springs 230 kv transmission line, Sanders County, Mont. (Inv. No. 7894). $25 deposit.

Location in Township 26 North, Range 33 West, Township 26 North, Range 32 West, Township 25 North, Range 32 West, and Township 24 North, Range 31 West, M.P.M., in Sanders County, Mont. SCHEDULE 1—Towers 409, 410, 419, 420, 433, and 433A—Group A—Foundation. 20 c.y. common excavation in special footings; 10 c.y. rock excavation in special footings; 20 c.y. adjustment for rock excavation in footings; 10 c.y. concrete in special footings; 1,000 lb. reinforcing steel; 200 lb. structural steel; 50' drilling and grouting reinforcing steel and anchor dowels; 10 c.y. rock for footing subgrade and backfill. Group B—Tower Erection: 39,000 lb. erect leg extensions; 6,500 lb. erect steel. Group C—Conductor: install 4 set three dead-end assemblies for ACSR "Pheasant"; make up and install 3 ACSR "Pheasant" jumpers. Group D—Removal of 9,400 lb. leg extension. SCHEDULE 2—Towers 434 to 445A and 478—Group E—Foundation: 60 c.y. common excavation in special footings; 10 c.y. rock excavation; 15 c.y. concrete in special footing; 1,500 lb. reinforcing steel; 4,000 lb. structural steel. Group F—Tower Erection: 36,400 lb. erect leg extensions; 9,000 lb. erect steel; 15,300 lb. erect lattice pole sections. Group G—Conductor: install 9 vibration dampers; 15 flashover indicators. Group H—Removal: 13 tower bodies; 30,000 lb. leg extensions; footings for 13 towers.
MG 2-14

POWER LINE— West Glacier, Mont.

Construction of a powerline from Apgar to the upper end of Lake McDonald is anticipated, to serve the proposed 14-unit motels, an employes dormitory and expansion of existing dining room in Glacier National Park. Reports on various improvements planned for the parks were considered at a recent meeting by J. W. Emmert, park superintendent, West Glacier; Stanley Joseph, assistant superintendent, West Glacier; H. J. Miller, manager of the Flathead Electric Cooperative, Kalispell. It was agreed that the Lake McDonald area power requirements would be 400 kilowatts.
DC 2-10

WATER, SEWAGE SYSTEMS— **West Glacier, Mont.**

Bids will be called late in the spring and opened early in the summer on water, sewage and parking area enlargements at Rising Sun Camp on St. Mary Lake in Glacier National Park. The Rising Sun improvements are to precede development at Lake McDonald, now scheduled for 1957 and 1958, on the present site of Lake McDonald Hotel.
DC 2-10

WYOMING

● **ROAD OIL— Cheyenne, Wyo.**

Bids to be opened 10 a.m., February 20, by City Council, City Hall, Cheyenne, for furnishing 500,000 gallons of MC0 to MC4 road oil and RC 1-2-3-4-5 asphalt, per gallon fob. Cheyenne.
DC 2-10

● **STATE HIGHWAY PROJECTS— Cheyenne, Wyo.**

Bids to be opened 9:30 a.m., February 21, by the Wyoming State Highway Commission, State Office Bldg., Cheyenne, on highway construction projects.

GILLETTE-MOORCROFT ROAD—Grading Contract. Grading, draining, selected material surfacing and miscellaneous work on 5.175 mile of Gillette-Moorcroft road, Crook County. FAP No. IN-120(11) Unit 1.

Quantities: 341,300 c.y. excavation; 200,200 c.y. mile haul; 8,165 M gallon watering; about 2,991' corrugated metal pipe.

DONKEY, WELL CREEKS BRIDGE—Structure Contract. One four-continuous reinforced concrete slab span bridge over Well Creek; one five-continuous reinforced concrete slab span bridge over Donkey Creek; grading berms and fills adjacent to the abutments; miscellaneous work on Gillette-Moorcroft Road, Crook County. FAP No. IN-120(11), Unit.

Quantities: 3,700 c.y. excavation; 110 M gallon watering; 351.1 c.y. class A concrete; 92,750 lb. reinforcing steel; 15,640 lb. structural steel.

BASIN - MANDERSON ROAD—Grading Contract. Grading, draining, miscellaneous work on 9.446 mile and base course surfacing and surface treatment on 0.881 mile of north end and 1.306 mile of south end of Basin-Manderson Road, Big Horn County. FAP No. F-161(6).

Quantities: 744,400 c.y. excavation; 1,500,000 c.y. station overhaul; 230,000 c.y. mile haul; 53,400 ton selected material surfacing type 1; 19,410 M gal. watering; 172 ton asphaltic material.

BIG HORN BRIDGES—Structure Contract. Five continuous reinforced concrete slab spans over Elk Creek, three continuous reinforced concrete slab spans over Big Horn Canal, two rigid frame culverts and three reinforced concrete culverts on 9.466 mile of Basin-Manderson Road, Big Horn County. FAP No. F-161(6).

Quantities: 1,655.3 c.y. concrete; 285,700 lb. reinforcing steel; 13,040 lb. structural steel; 462' cast in place concrete piles; 876 c.y. structure excavation.

LARAMIE-FORT COLLINS ROAD—Plantmix surface course, sand and gravel seal coat, miscellaneous work on 13.531 mile Laramie-Fort Collins Road, Albany County. FAP No. F-192(8).

Quantities: 40,900 ton plantmix surface course; 2,300 ton crushed sand and gravel; 3,572 ton asphaltic material; 140 M gal. watering.

WASHAKIE - HOT SPRINGS — Plantmix surface course, sand and gravel seal coat on 4.838 miles of section 1 and 5.456 mile of section 2 on the Worland-Thermopolis road; grading, draining, base course surfacing on 0.717 mile and plantmix surface course, stone chip seal coat on 5.663 miles Hamilton Dome Road; stone chip seal coat on 10.318 mile Owl Creek Road in Washakie and Hot Springs Counties.

Quantities: 63,300 c.y. excavation; 108,300 c.y. station overhaul; 530 c.y. mile haul; 2,800 ton selected material surfacing, type 1; 1,900 M gal. watering; 3,275 ton asphaltic material; 20.4 c.y. class C concrete.

DOUGLAS-COLD SPRINGS ROAD—Base course surfacing, plantmix surface course, sand gravel seal coat on 10.338 mile of Douglas-Cold Springs Road, Converse County. FASP No. S-49(8).

Quantities: 105,000 ton plantmix surface course; 1,015 ton asphaltic material.

MEDICINE BOW—Grading Contract. Grading, draining, base course surfacing, surface treatment (inverted penetration type) on 7.583 mile of Medicine Bow-North Road, Carbon County. FASP No. S-50(11).

Quantities: 650,000 c.y. excavation; 213,-800 c.y. mi. haul; 2,773' standard reinforced concrete pipe; 47,300 ton crushed gravel base course; 2,500 on crushed gravel surfacing; 440 ton asphaltic material; 21 c.y. class C concrete; 1,100 lb. reinforcing steel; 17,080 lb. structural steel.

LONE TREE CREEK—Structure Contract. One five-continuous reinforced concrete slab span bridge over Lone Tree Creek; one reinforced culvert on Medicine Bow-North Road, Carbon County. FASP No. S-50(11).

Quantities: 10,000 c.y. excavation; 300 M gal. watering; 180 c.y. structure excavation; 63,240 lb. reinforcing steel; 9,610 lb. structural steel; 347.6 c.y. concrete.

LOVELL-EMBLEM ROAD — Base course surfacing, surface treatment (inverted penetration type) on 5.879 mile of Lovell-Emblem Road, Big Horn County. FASP No. S-90(3).

Quantities: 470 M gal. watering; 300 ton asphaltic material; 1,750 ton crushed gravel surfacing.

CHUGWATER - EAST — Plantmix surface course, sand and gravel seal coat on 9.304 mile of Chugwater-East Road, Platte County. FASP No. S-94(4).

Quantities: 9,800 ton plantmix surface course; 1,070 crushed sand and gravel; 41,400 T mi. haul; 740 ton asphaltic material.

GILLETTE-BROADUS—Base Course surfacing, plantmix surface course, sand and gravel seal coat on 23.891 mile Gillette-Broadus Road, Campbell County. FASP No. S-263(9).

Quantities: 39,700 crushed gravel base course; 27,000 ton plantmix surface course; 2,950 ton crushed sand and gravel; 378,000 T mi. haul; 3,360 ton asphaltic material.

DM 2-15

●CRANE— Glendo, Wyo.

Bids opening extended from February 21 to 2 p.m., M.S.T., March 13, by Bureau of Reclamation, L. N. McClellan, chief engineer, Bldg. 53, Denver Federal Center, Denver, Colo., for a 100-ton traveling crane for Glendo Power Plant, Oregon Trail Division, Glendo unit, Wyoming, Missouri River Basin Project (Inv. No. DS-4606).

Furnish 100-ton single trolley motor-operated traveling crane, delivery fob. cars at shipping point or fob. cars at Glendo Power Plant. GW 2-15. Previous report 1-13

●WATERWORKS IMPROVEMENTS— Rawlins, Wyo.

Bids to be opened February 21 by Board of Public Utilities, City Hall, Rawlins, on section 4 and 5 on construction of waterworks improvements. Bids were previously opened in January and rejected. LY 2-15

★WATERWORKS IMPROVEMENTS— Rawlins, Wyo.

Awards by Board of Public Utilities, City Hall, Rawlins, on sections 1, 2 and 3 of a waterworks improvement program; bids rejected on section 4, 5, 6, 7 and 8; new bid call issued on section 4 and 5. Proposals were opened January 16. AWARD—Section 1 and 3: Landon Construction Co., Casper, $195,701. AWARD—Section 2: C. V. Miller Co., 2040 S. Navajo, Denver, Colo, $96,259. LY 2-15

CANAL, LATERAL— Worland, Wyo.

Bids to be called soon by Bureau of Reclamation, L. N. McClellan, Denver Federal Center, Denver, Colo., for a canal and lateral, Hanover-Bluff section, near Worland, Missouri River Basin Project.

Earthwork and structures for about 20 miles of 90 cfs. to 10 cfs. capacity main canal and 17 miles of 20 cfs. to 3 cfs. capacity laterals. Involves 390,000 c.y. common excavation; 1,800 c.y. concrete in structures; furnish and lay 15,000' of 18" to 38" precast concrete pipe. Completion time 400 days. DM 2-10

UTAH

●WATERWORKS, SANITARY SEWERS— Moab, Utah

Bids to be opened 1 p.m., February 20 by Moab City Corporation, J. W. Corbin, mayor, City Hall, Moab, for construction of waterwork and sanitary sewer improvements, and extensions, together with all necessary appurtenant structures. Specifications in office of city recorder, Moab and at office of Hugo Price, engineer, 1567 Locust Lane, Provo. $25 deposit. Certified check, cashier's check or bid bond 5%. DC 2-11

★STATE HIGHWAY PROJECTS— Salt Lake City, Utah

Awards by Utah Road Commission, State Capitol, Salt Lake City, on two construction projects on which bids were opened January 31.

MURDOCK CANAL BRIDGE — Concrete and steel bridge, Utah County, U.S. 189 about one mile northeast of Olmstead over the Murdock Canal (State Project No. 1560). AWARD: Whitney Bros., 2164 Arbor Lane, Salt Lake City, $15,187.

SALT LAKE COUNTY BRIDGE: Concrete and steel bridge in Salt Lake County, State Road No. 187 between U.S. 91 and State Prison (State Project No. 1561). AWARD: Gibbons & Reed Co., Box 2429, Salt Lake City, $9,806.

DM 2-10. Previous report 2-4

AQUEDUCT— Salt Lake City, Utah

Bids will be called soon by Bureau of Reclamation, L. N. McClellan, chief engineer, Denver Federal Center, Denver, Colo., for construction of the Davis Aqueduct, near Salt Lake City, Weber Basin Project, Utah.

Earthwork and structures for 6.5 miles of precast concrete pipeline, including turnouts, manholes, air valves and blow-offs. Involves furnishing and laying 32,600' of 21" to 60" precast non-cylinder, cylinder and modified prestressed concrete pipe. Completion time, 600 days. DM 2-10

ALASKA

▲MILITARY FACILITIES— Elmendorf AFB., Alaska

Bids received February 14 by Corps of Engineers, Alaska District, Colonel Carl Y. Farrell, district engineer, Bldg. D-E, Anchorage, for construction of runway and taxiway extensions, multiple outlet hydrant system, hardstands and truckfill stand at Elmendorf AFB. (ENG-95-507-56-31). SCHEDULE A—Runway and hardstand—LOW BID: M-B Contracting Co., room 1019, Lloyd Bldg., Seattle, $6,087,575. OTHER BIDS: S. Birch & Sons, Green Construction Co., Morrison-Knudsen Co., Inc., and McLaughlin, (joint venture) Central Bldg., Seattle, $6,204,563; Guy F. Atkinson, 345 Skinner Bldg., Seattle, $7,045,235. SCHEDULE B—Truckfill stand—LOW BID: S. Birch & Sons, Green Construction Co., Morrison-Knudsen Co., Inc., and McLaughlin, $132,890. OTHER BIDS: Guy F. Atkinson, $146,350; M-B Contracting Co., $154,000; Pacific Alaska Contracting Co., Inc., 1515 Center, Tacoma, $160,000; S. Macri Construction Co., Box 938, Anchorage, $177,-160; S. S. Mullen, Inc., 621th 9th Ave. N., Seattle, $202,602. SCHEDULE C—Hydrant refuelling system—LOW BID: M-B Contracting Co., $2,050,000. OTHER BIDS: Pacific Alaska Contracting Co., Inc., $2,181,749; S. S. Mullen, Inc., $2,396,000; S. Birch & Sons, Green Construction Co., Morrison-Knudsen Co., Inc., and McLaughlin, $2,551,623; Guy F. Atkinson, $2,757,050. SCHEDULE D—Tank unloading and fuel lines—LOW BID: Pacific Alaska Contracting Co., $671,421. OTHER BIDS: Guy F. Atkinson, $699,200; M-B Contracting Co., $754,000; S. Birch & Sons, Green Construction Co., Morrison-Knudsen Co., Inc., and McLaughlin, $784,954; S. Macri Construction Co., $796,003; S. S. Mullen, $818,386. All the above are basic bids. Guy F. Atkinson and M-B Contracting, all or none ayard. S. Birch & Sons, Green Construction Co., Morrison-Knudsen Co., Inc., and McLaughlin, (a) If awarded schedules A and C, deduct $217,000 from schedule D; (b) if awarded schedules A and D, deduct $47,-000 from schedule C; (c) will not accept schedule B alone. GW 2-15

POWER, WATER FACILITIES— Ketchikan, Alaska

Bond election to be held February 21 on proposed $1,650,000 bond issue which would finance expansion of power and water facilities in city. A sum of $150,000 of the bonds would provide matching funds for an Alaskan Public Works water improvement. The power project would involve improvements to the city's hydroelectric system. Plans for the latter are under way by R. W. Beck & Associates, consulting engineers, Tower Bldg., Seattle. DC 2-2

HYDROELECTRIC DAMS— Juneau, Alaska

Georgia-Pacific Alaska Co., Juneau, received a three-year preliminary permit from the federal power commission for a proposed hydroelectric project on Lemon Creek about 10 miles north of Juneau. The company is a subsidiary of Georgia-Pacific Plywood Co.

Plans call for two dams with total installed capacity of 6,700 hp. The power would be used for operating of a newsprint or pulp mill. DC 2-4

WELL— Juneau, Alaska

Preliminary plans awaiting approval of Alaska Public Works, James W. Huston, director, Box 1181, Juneau, for a community well and a building to house a pumping installation in the communities of Kwethluk, Hooper Bay, Chevak and Amiak. Engineer to be furnished by Alaska Health Department, Juneau. Well to be constructed by force account. This will be a $50,000 project, $25,000 from Alaska Rural Development Board and matching fund from Interior Department. JU G 2-14

DIKE— Wrangell, Alaska

Preliminary plans awaiting approval of Alaska Public Works, James W. Huston, director, Box 1181. Juneau for a dike in Wrangell for tidelands fill on the business front. Plans by city engineer. Construction will be by force account. The dike will be log cribbing. JU-G 2-11

Have You Changed Your Address?

For uninterrupted service please send old and new address to

PACIFIC ARCHITECT AND BUILDER

2418 3rd Avenue Seattle 1, Wash.

Our news covers the six Pacific Northwest states and Alaska.

Bureau of Reclamation Lists 35 Major Projects . . .

. . . Scheduled for Bid Call Within Next Three Months

Thirty-five major construction projects will be among bid invitations issued by the Bureau of Reclamation during February, March and April. The work includes canals, laterals, drains, wasteways, several substation additions, various pumping plants, access roads, housing and miscellaneous items. Additional information may be obtained from L. N. McClellan, chief engineer, Building 53, Denver Federal Center, Denver, Colo., by referring to the title and number of each item.

BID CALLS EXPECTED IN FEBRUARY

AQUEDUCT, Davis (2-1)—Weber Basin Project, Utah. Near Salt Lake City. Earthwork and structures for 6.5 miles of precast concrete pipeline, including turnouts, manholes, air valves and blow-offs.

Quantities: 32,000' of furnishing and laying 21" to 60" precast non-cylinder, cylinder and modified prestressed concrete pipe. Completion time 600 days.

Bids to be called by the chief engineer, Denver, Colo.

CANAL, LATERAL, Hanover-Bluff (2-2)—Missouri River Basin Project, Wyo. Near Worland, Wyo. Earthwork and structures for about 20 miles of 90 cfs. to 10 cfs. capacity main canal and 17 miles of 20 cfs. to 3 cfs. capacity laterals.

Quantities: 390,000 c.y. common excavation; 1,800 c.y. concrete in structures; 15,000' furnish and lay 18" to 48" precast concrete pipe. Completion time 400 days.

Bids to be called by the chief engineer, Denver.

LATERALS, Block 46, Part 1 (2-3)—Columbia Basin Project, Wash. Near Othello, Wash. Constructing 27.8 miles of laterals, 7.8 miles of wasteways and drains and 0.25 mile of pipeline.

Quantities: 145,000 c.y. excavation for laterals, wasteways, drains; 30,000 c.y. excavation from borrow; 25,000 miles c.y. overhaul; 1,050 c.y. concrete in structures; 9,000' furnish, lay 12" to 48" precast concrete culvert pipe. Completion time 450 days.

Bids to be called by the project manager, Ephrata.

LATERALS, Block 18, Part 4 (2-4)—Columbia Basin Project, Wash. Near Connell, Wash. Earthwork, structures for about 12 miles of 53 cfs. to 3 cfs. capacity unlined laterals, drains, wasteways.

Quantities: 115,000 c.y. excavation for laterals; 800 c.y. concrete in structures; 5,700' furnish and lay 15" to 48" precast concrete pipe. Completion time 250 days.

Bids to be called by the chief engineer, Denver.

LATERAL LINING, Laterals 128 and 147 (2-6)—Kendrick Project, Wyo. Near Casper, Wyo. Earthwork for about 2,900' of compacted earth lining on three reaches of existing laterals.

Quantities: 2,700 c.y. subgrade excavation; 2,900 c.y. earth lining; 9,000 miles c.y. overhaul; 1,500 c.y. excavation for final lateral section. Completion time 60 days.

Bids to be called by the project manager, Casper.

DRAIN, Block 11 (2-8)—Columbia Basin Project, Wash. South of Othello, Wash. Constructing about 2.5 miles of open and closed drains. Completion time to be determined.

Bids to be called by the project manager, Ephrata.

DRAINS (2-9)—Sun River Project, Mont. Near Fairfield, Mont. Constructing about 8,000' of open drains. Involves 50,000 c.y. excavation. Completion time 90 days.

Bids to be called by project manager, Great Falls.

WASTEWAY DIVERSION, Block 19 (2-11)—Columbia Basin Project, Wash. Ten miles west of Mesa, Wash. Constructing dike and about 1.25 miles of lateral for diversion of water from wasteway.

Bids to be called by project manager, Ephrata.

PUMPING PLANTS, Bridgeport Bar (2-13)—Chief Joseph Dam Project, Wash. Bridgeport, Wash. Constructing two pumping plant, furnishing, installing all mechanical, electrical equipment, a 13.8 kv tap line from pumping plants to Douglas County PUD line, pipe for discharge lines and pressure distribution system, and 100,000-gallon steel water tank. The river pumping plant has two motor-driven units of 2,000 gpm. capacity each. The water inlet consists of a perforated metal collection pipe with gravel filler and a metal inlet pipe to the pumping plant. The booster plant is a flat reinforced concrete pad with two motor-driven units of 200 gpm. capacity.

Quantities: 600 c.y. excavation; 8,000 c.y. backfill; 5,500 c.y. compact backfill; 170 c.y. concrete; 190' furnish and lay 30" to 36" asbestos bonded corrugated metal pipe; 2,300' furnish and lay 8" asbestos-cement pipe. Completion time 360 days.

Bids to be called by chief engineer, Denver.

PUMPING PLANT, Ontario-Nyssa (2-14)—Oyhee Project, Ore. Nyssa, Ore. Constructing the Ontario-Nyssa pumping plant which is to be an indoor type plant with four electrically-driven horizontal pumping units, upstream of and adjoining the existing Owyhee Ditch pumping plant. The south wall of the Owyhee Ditch pumping plant will be removed to permit use of its service area and traveling crane for the new plant. The new plant will have a reinfoced concrete substructure and the superstructure will consist of a steel frame with concrete block walls. The contract will include installation of electrical equipment and discharge pipes.

Quantities: 2,100 c.y. excavation; 525 c.y. concrete; 35,000 lb. furnish and erect structural steel. Completion time 373 days.

Bids to be called by chief engineer, Denver.

TRANSMISSION LINE, Alcova-Fremont (2-16)—Missouri River Basin Project, Wyo. From Alcova to Fremont, Wyo. Constructing an eight-mile 115 kv wood pole, H-frame, transmission line. Completion time 240 days.

Bids to be called by chief engineer, Denver.

SUBSTATION ADDITIONS, Bairoil (2-18)—Kendrick Project, Wyo. Bairoil, Wyo. Constructing concrete footings, furnishing and erecting structural steel and installing 34.5 kv current and potential transformers and switching equipment, major items of which will be government furnished. Completion time 60 days.

Bids to be called by regional director, Denver.

WELLS, Blocks 89, 18 and 14 (2-21)—Columbia Basin Project, Wash. Near Ephrata and Mesa, Wash. Drilling and casing observation wells about 50' deep using 1.5" standard casing.

Bids to be called by project manager, Ephrata.

ACCESS ROAD, Basin Substation (2-22)—Missouri River Basin Project, Wyo. Near Basin, Wyo. Constructing 2.3 miles of 16' width access road with sand and gravel surfacing and furnishing and installing 21" to 42" corrugated metal pipe culverts in 10 different locations. Completion time 120 days.

Bids to be called by project manager, Cody.

HOUSING, Blocks 89, 47, 14 (2-26)—Columbia Basin Project, Wash. Near Moses Lake, Othello and Mesa, Wash. Constructing seven two-bedroom houses with basements and garages, and one concrete block, 10-truck garage.

Bids to be called by project manager, Ephrata.

ROOF REPLACING, Alcova Dam (2-27)—Kendrick Project, Wyo. About 30 miles southwest of Casper, Wyo. Furnishing materials and performing work for replacing about 2,200 sq. ft. of five-ply built-up asphalt-saturated felt roofing.

Quantities: 2,200 sq. ft. to remove existing five-ply built-up roofing; 370' remove and replace cants; 2,200 sq. ft. furnish and apply five-ply built-up roofing. Completion time 90 days.

Bids to be called by project manager, Casper.

BID CALLS EXPECTED IN MARCH AND APRIL

DIVERSION DAM (2-30)—Weber Basin Project, Utah. Constructing the gated reinforced concrete Slaterville Diversion Dam, two canal headworks structures and two earthfill dikes on Ogden River at Ogden.

Chief engineer, Denver, will issue invitations.

SIPHON (2-33)—Rogue River Basin Project, Ore. Removing a 44" wood pipe siphon and constructing a 48" precast concrete pressure pipe or steel cylinder pipe siphon about 1,860' long. Medford Canal, near Medford.

Chief engineer, Denver, will issue invitations.

LATERALS (2-36) — Minidoka Project, Idaho. Earthwork and structures for laterals from Group 7 wells, Unit B, North Side Pumping division, near Minidoka.

Regional director, Boise, to issue invitations.

LATERALS (2-37) — Yakima Project, Wash. Work will consist of four miles of open laterals, structures, and 17 miles of 20 cfs. to 3 cfs. capacity pipe laterals. All materials to be furnished by the contractor. Near Kennewick. Chief engineer, Denver, to issue invitations.

LATERALS (2-38)—Columbia Basin Project, Wash. Earthwork and structures for about 12 miles of 340 cfs. capacity unlined laterals and wasteways with 18' to 2' bottom widths. Block 18, Part 1, near Connell.

Chief engineer, Denver, to issue invitations.

LATERALS (2-39)—Columbia Basin Project, Wash. Earthwork and structures for about 15 miles of 245 cfs. to 3 cfs. capacity unlined laterals and wasteways with 18' to 2' bottom widths. Block 18, Part 2, near Connell.

Chief engineer, Denver to issue invitations.

LATERALS (2-40)—Columbia Basin Project, Wash. Earthwork and structures for about 50 miles of unlined laterals varying in bottom width from 12' to 2'. Block 71 south of Quincy.

Chief engineer, Denver, to issue invitations.

LATERALS, PUMP DISCHARGE LINE, DIKES (2-41) — Columbia Basin Project, Wash. Constructing about 1.25 miles of unlined lateral with 20' bottom width, an earth dike and about two miles of 36" to 54" precast concrete pressure pipe pump discharge line. South of Quincy.

Chief engineer, Denver, to issue invitations.

PUMPING PLANT (2-43)—Michaud Flat Project, Idaho. Constructing the American Falls pumping plant will include a concrete and structural steel building housing four electric motor driven pumps of 126 cfs. total capacity, a switchyard adjacent to the building, and a 6,000' discharge pipe, surge tank, discharge structure. Near American Falls.

Bids to be called by chief engineer, Denver.

SUBSTATION ADDITIONS (2-48)—Missouri River Basin Project, Wyo. Constructing Lingle substation additions. The project involves grading and fencing the site, placing concrete foundations, furnishing and erecting steel structures, installing a 115/34.5 kv transformer and associated electrical equipment, major items of which will be government furnished. Near Lingle.

Bids to be called by chief engineer, Denver.

SWITCHYARD ADDITIONS (2-50)—Missouri River Basin Project, Wyo. Constructing additions to the Alcova Switchyard which involves concrete foundations, furnishing and erecting minor steel supporting structures, installing a 115 kv circuit breaker and associated electrical equipment, major items of which will be government furnished. At Alcova Power Plant.

Bids to be called by chief engineer, Denver.

WELLS (2-51) — Michaud Flats Project, Idaho. Drilling and casing seven water supply wells in Area 6, near American Falls. Regional director, Boise, to issue invitations.

WELL MODIFICATION (2-52) — North Platte Project, Wyo. Modifying the Guernsey government community water supply well. Project includes deepening the well, adding 700' of 3" pipe. Near Gurensey. Project manager, Casper, to issue invitations.

WELL COMPLETION (2-53) — Minidoka Project, Idaho. Installing pumping equipment, constructing electrical facilities and miscellaneous completion work for four relift pumping plants, Unit A, North Side pumping division, near Hazelton. Regional director, Boise, to issue invitations.

WELL COMPLETION (5-54) — Minidoka Project, Idaho. Installing pumping units, constructing substations and miscellaneous completion work for Group 4 wells, Unit B, North Side pumping division, near Rupert. Regional director, Boise, to issue invitations.

HIGHWAY RELOCATION (2-55) — Missouri River Basin Project, Wyo. Relocating four miles and improving 4.3 miles of Wyoming State Highway U.S. 87, north of Glendo. Bids to be called by chief engineer, Denver.

ROAD RELOCATION (2-56) — Missouri River Basin Project, Wyo. Relocating five miles of Platte County roads to Meadowdale. Chief engineer, Denver, will issue invitations.

HOUSING (5-57)—North Platte Project, Wyo. Moving two houses from Lingle to Guernsey Government community, near Guernsey. Bids to be called by project manager, Casper.

HOUSING (5-58)—Kendrick Project, Wyo. Constructing a two-bedroom residence without basement at Seminoe Dam Government community near Sinclair. Regional director, Denver, to issue invitations.

CONTRACT AWARDS ANNOUNCED RECENTLY

OREGON

Astoria—ALTER BUILDING. A. T. Duoos & Son, Astoria, $18,158, by U.S. Naval Station, Astoria. PCD 2-15

Eugene—PRINTING SHOP. Albert Vik & Son, Eugene, $37,495, by Shelton-Turnbull-Fuller, Eugene. PCD 2-15

Forest Grove—ROOM FINISHING. Bickford Constr. Co., Portland, $42,760, by Forest Grove School District No. 5, Forest Grove. PCD 2-13

Medford—EARTHWORK, STRUCTURE. E-W Construction Co., Eugene, $49,698, by Bureau of Reclamation, Medford. PCD 2-8

Portland—STATE HIGHWAY PROJECTS—Boulder Gorge Section: Durbin Bros., Eugene, $44,160. **Grade Separation Structure:** Tom Lillebo, Reedsport, $899,964, by Oregon State Highway Department, Portland. Bids were opened December 20 in Portland. PCD 2-3

Portland—CIRCUIT BREAKERS. Kelman Electric and Manufacturing Co., Los Angeles, $210,600, by BPA, Portland. PCD 2-3

Portland—SHOPPING CENTER. Donald M. Drake Co., Portland, amount not released, by Southgate Investment Co., Portland. PCD 2-3

Portland — GUARD RAIL. Trussfac, Inc., Portland, $10,450, by Multnomah County Commissioner, Portland. PCD 2-3

Portland—GRADING, SURFACING. Oregon Asphaltic Paving Co., Portland, $10,205, by Multnomah County Commissioners, Portland. PCD 2-3

Portland—STATE HIGHWAY PROJECTS—Pendleton Paving: Roy L. Houck, Salem, $277,333. **Meda Bridge:** Tom Lillebo, Reedsport, $72,675, by Oregon State Highway Commission, Salem. PCD 2-4

Portland—CRESCENT LAKE PAVING: Warren Northwest, Inc., Portland, $264,241, by Oregon State Highway Commission, Salem. PCD 2-4

Portland—SHORT CREEK CULVERT. Lind & Marr, Beaverton, $47,713, by Oregon State Highway Commission, Salem. PCD 2-4

Portland — COUPLING UNIT. Motorola Communications and Electronics, Inc., Chicago, Ill., $11,275, by BPA, Portland. PCD 2-7

Portland—STATE HIGHWAY PROJECTS—Lebanon Bridges: Charles E. Wiedeman, Dallas, $21,845. **Weaver Bridge:** Jackson & Ray, Hermiston, $27,190, by Oregon State Highway Commission, Salem. PCD 2-8

Sand Island—CONTROL TOWERS. Gilpin Constr. Co., Portland, $12,333 by Corps of Engineers, Portland. PCD 2-14

The Dalles Dam—MOORING DOCK PIERS. Gilpin Construction Co., Portland, $42,-521, by Corps of Engineers, Portland. PCD 2-10

Winchester Bay—DREDGING. H. G. Palmberg, Astoria, $36,310 by Corps of Engineers, Portland. PCD 2-14

WASHINGTON

Anacortes—SERVICE STATION. Stewart-Martens Co., Seattle, approximately $55,-000, by Union Oil Co., Anacortes. PCD 2-15

Bellingham—REMODEL STORE. C. V. Wilder, Bellingham, no amount released, by Pearson Tire Co., Bellingham. PCD 2-3

Chehalis—REMODEL DORMITORY. C. S. Seines Construction Co., Chehalis, $16,970, by Department of Institutions, Olympia. PCD 2-3

Coupeville—CRUSHED STONE. Fowler Asphalt Paving Co., Mount Vernon, $36,350, by Island County Commissioners, Coupeville. PCD 2-15

Ephrata—DRAINS, DROPS, PIPE INLETS. Syblon-Reid Construction Co., Warden, $20,242, by Bureau of Reclamation, Ephrata. PCD 2-4

Ephrata—EARTHWORK. Cherf Bros., Inc., and Sandkay Contractors, Inc., Ephrata, $75,799, by Bureau of Reclamation, Ephrata. PCD 2-8

Everett — ANTENNA TOWER. Fought & Co., Inc., Portland, $40,299, by Pacific Telephone and Telegraph Co., Seattle. PCD 2-3

Larson AFB — WASTE TREATMENT PLANT, PAVING. Tomlinson & Buckmaster, Warden, $45,371 by Corps of Engineers, Walla Walla. PCD 2-8

Longview—CAST IRON PIPE. Pacific States Cast Iron Pipe Co., Seattle, $30,967, by City Council, Longview. PCD 2-15

McChord AFB—COMMISSARY BUILDING. E. Goettling & Sons, Tacoma, $133,884, by Corps of Engineers, Seattle District, Seattle. PCD 2-3

Mercer Island—SEWER LINES. Frank Coluccio, Seattle, $79,532 pumping stas; Murphy Bros., Spokane, $172,065, and $145,-743 sewer lines; Valley Construction Co., Seattle, $115,545. PCD 2-7

Mount Vernon—OFFICES. Bustad Construction Co., Mount Vernon, $60,000, by Department of Public Assistance, Mount Vernon. PCD 2-4

North Whidbey—SCHOOL ADDITION. Nelson Construction Co., Ferndale, $470,147, by Oak Harbor Consolidated School District, Oak Harbor. PCD 2-8

Olympia—STATE HIGHWAY PROJECTS—Conway Junction: Wilder Construction Co., Bellingham, $395,058. **Taylor Flats:** D. A. Sullivan, Spokane, $78,153: **Getchell Road:** Associated Sand and Gravel, Everett, $82,340. **Walnut Street:** Belden Electric Co., Everett, $13,373, by Washington State Highway Commission, Olympia. PCD 2-2

Othello—Gravel Surfacing. Knapton & Yearout, Moses Lake, $18,502 (Sched. 1) by Bureau of Reclamation, Ephrata. PCD 2-7

Salkum — TELEPHONE SYSTEM. Bonneville Construction Co., Idaho Falls, Idaho, $198,142, by McDaniel Telephone Co., Salkum. PCD 2-8

Seaside—TELEPHONE BUILDING. Albert Mittet, Astoria, $83,514, by Pacific Telephone & Telegraph Co., Portland. PCD 2-3

Seattle—FRATERNITY HOUSE ADDN. E. F. Shuck Constr Co., Seattle, $122,000 (approx) by Psi Upsilon Fraternity, Seattle. PCD 2-4

Seattle—SEWERS. Harold Kaeser Co., Seattle, approximately, $44,000 by Val Vue Sewer District, Seattle. PCD 2-7

Sedro Woolley—BOILER INSTALLATION. Odegard Construction Co., Everett, $117,-157 by Department of General Administration, Olympia. PCD 2-8

Seattle—PIPELINE. West Coast Construction Co., Seattle, $35,275 by Board of Public Works, Seattle. PCD 2-10

Seattle—CHURCH ADDITION. Ballard Contractors Inc., Seattle, $50,316 by Highline Methodist Church, Seattle. PCD 2-10

Tacoma—SHED EXTENS. Bona Fide Builders, Inc., Tacoma, $65,533, by Port of Tacoma, Tacoma. PCD 2-3

Tacoma—ST LGTG POLES. General Electric Supply Co., Tacoma, $14,742, by Board of Contracts and Awards, Tacoma. PCD 2-3

Tacoma — PIPING. Erickson Paving Co., Bellevue, $177,320, by Board of Contract and Awards, Tacoma. PCD 2-11

Tenino—SCHL ADDN. Hall Construction Co., Tacoma, $63,091, by Tenino School District No. 401, Tenino. PCD 2-8

Toppenish—SWIMMING POOL. Hans Skov, Yakima, $121,555, by City Council, Toppenish. PCD 2-9

Vancouver — CHURCH. Larry O. Collins, Vancouver, amount not released, by First Presbyterian Church, Vancouver. PCD 2-3

Warden — CONCRETE EARTH LINING. Cherf Bros., Inc., and Sandkay Contractors' Inc., Ephrata, $57,313, by Bureau of Reclamation, Ephrata. PCD 2-4

Yakima — SCHOOL. Jensen - Rasmussen, Sunnyside, $157,943, by School District No. 7, Yakima. PCD 2-9

Yakima — TURBINE. Baldwin-Lima-Hamilton Corp., Philadelphia, Pa., $222,000, by Bureau of Reclamation, Denver, Colo. PCD 2-11

IDAHO

Boise—LADDER TRUCK. Starline Equipment Co., Boise, $36,940, by City purchasing department, Boise. PCD 2-3

Mountain Home AFB—MILITARY BUILDINGS. C. W. Watkins & Son, Boise, $66,-614 by Corps of Engineers, Walla Walla. PCD 2-8

MONTANA

Billings—GRAVELING. Willis Morris Construction Co., Chinook, $97,137, by U.S. Indian Service, Billings. PCD 2-2

Billings—SHOPPING CENTER. Alexander & Kingbey, Minneapolis, by Henry Shanedling Sons' Corp., Minneapolis. PCD 2-8

Billings — CRUSHED ROAD MATERIAL, STONE CHIPS. William Strever, Billings, $23,553' by City Council, Billings. PCD 2-11

Billings—STORAGE ROOMS Riedesel Construction Co., Billings, $18,000 by Ryan Grocery Co., Billings. PCD 2-14

Billings—WAREHOUSE. A. N. Matson, Billings, $14,750, by L. R. Austin, owner, Billings. PCD 2-15

Forsyth — OLD FOLKS HOME. Sterhan Construction Co., Glendive, $86,500 by Rosebud County Commissioners Forsyth. PCD 2-14

Glasgow AFB—HEATING SYSTEM. Detweilers, Inc., Twin Falls, $1,283,335, by Corps of Engineers, Walla Walla District, Walla Walla. PCD 2-4

Great Falls — SANITARY SEWERS. Falls Construction Co., Great Falls, $75,294, by Fred L. Hill, city clerk, Great Falls. PCD 2-2

Haver—TELEPHONE LINE. Line Builders, Billings, $478,639, by Triangle Telephone Association, Havre. PCD 2-9

Missoula—HOTEL ADDITION. Gordon Construction Co., Missoula, $155,887, by The hotel Florence, Missoula. PCD 2-9

WYOMING

Cheyenne—WATER PIPE. Waterworks Sales Co., Denver, Colo., $28,990, by Board of Public Utilities, Cheyenne. PCD 2-3

Cheyenne—WATER PIPE. Waterworks Sales Co., Denver, Colo., $28,890, by Board of Public Utilities, Cheyenne. PCD 2-8

Rawlins—SEWER EQUIPMENT. Lock Joint Pipe Co., Cheyenne, $142,808, by City Council, Rawlins. PCD 2-8

Rawlins—SEWERS, PAVING. A. H. Read, Cheyenne, $419,761 by City Council, Rawlins. PCD 2-8

Sheridan—CHURCH ADDITION. Sheridan Heating and Plumbing Co., Sheridan, $29,000 (mechanical work). PCD 2-11

Great Falls—WATER MAINS. Falls Construction Co., Great Falls, $97,294, by Fred L. Hill, city clerk, Great Falls. PCD 2-2

UTAH

Hill AFB—APRON PARKING. Gibbons & Reed Co., Salt Lake City, $2,152,662, Corps of Engineers, Utah District, Hill AFB. PCD 2-3

Medford—SIPHON. E-W Construction Co., Eugene, $49,698, by Bureau of Reclamation, Medford. PCD 2-4

Ogden—WATER PURIFICATION PLANT No. 2. Davis & Butler, Salt Lake City, $876,058, by Weber Basin Water Conservancy District, Ogden. PCD 2-3

Ogden—WATER PURIFICATION PLANT No. 3. M. Morrin & Son, Ogden, $823,364, by Weber Basin Water Conservancy District, Ogden. PCD 2-3

Ogden—WTR PURIFICATION PLANT No. 4. Davis & Butler, Salt Lake City, $696,371 by Weber Basin Conservancy District, Ogden. PCD 2-3

Ogden—REMODEL SCHOOL. Hilton & Carr, Ogden, $531,500, by Ogden School District. PCD 2-15

Salt Lake City—DOG KENNELS. Security Constr. Co., Salt Lake City, $29,762, by Utah State Building Board, Salt Lake City. PCD 2-3

Salt Lake City—STATE HIGHWAY PROJECTS—Murdock Canal Bridge: Whitney Bros., Salt Lake City, $15,187. **Salt Lake County Bridge:** Gibbons & Reed, Salt Lake City, $9,806; by Utah Road Commission, Salt Lake City. PCD 2-10

Salt Lake City—REHABILITATE WIRING SYSTEM. Wasatch Electric Co., Salt Lake City, $34,153 by City Council, Salt Lake City. PCD 2-11

ALASKA

Big Delta—MILITARY FACILITY. Peter Kiewitt Son's Co., Inc., Seattle, $346,662 by Corps of Engineers, Alaska District, Anchorage. PCD 2-4

Elmendorf AFB—TRUCK SCALE. E. M. Peterson Construction Co., Spenard, $14,418, by U.S. Air Force, Elmendorf AFB. PCD 2-4

Middleton Island—MILITARY BLDG. American Service Inc., and Leo A. Walsh Co., Spenard, $242,004 by Corps of Engineers, Alaska District, Anchorage. PCD 2-4

Advertisements for Bids

Advertisements reaching us not later than Wednesday noon will appear the same week.

THE RATE for Advertisements for Bids is 35 cents per line for the first insertion; 25 cents per line for each insertion thereafter.

ROAD EQUIPMENT

BIDS CLOSE 10:00 A.M., FEBRUARY 23

Yakima, Wash.

ADVERTISEMENT FOR BIDS

Notice is hereby given that the Board of County Commissioners of Yakima County, Washington, will, pursuant to law, open bids in the office of said Board, Room 107, Courthouse, Yakima, Washington, at 10:30 A.M. on Thursday the 23rd day of February, 1956, for the purchase of: (1) Asphalt Distributor Trailer Mounted; (1) Motor Patrol Grader; (1) 2½ Ton Truck Chassis & cab; (2) 1½ Ton Truck Chassis and Cab; (4) 2 Ton Truck Chassis & cab; (4) Dump Beds and Hoists (for 2 ton Trucks); and (1) Crane (for mounting on 2½ Ton Truck) specifications for which are on file in the office of the Purchasing Agent.

NOTICE OF SALE FOR CASH OR TRADE-IN OF YAKIMA COUNTY USED EQUIPMENT.

Pursuant to law, notice is hereby given that Yakima County will sell or trade-in on the purchase of new equipment the following described used equipment, to-wit;

1946 No. 12 Caterpillar Motor Patrol Grader, Serial No. 7T1834, County Motor Grader No. 10 (Road Department)

County Truck No. 19 1950 Ford 1½ Ton Truck, Motor No. 97HT249602.

County Truck No. 32 1947 Ford 1½ Ton Truck, Motor No. 1492190.

County Truck No. 35 1947 Ford 1½ Ton Truck, Motor No. 1477745.

County Truck No. 14 1931 Model A Ford 1 Ton Truck, Chassis & Cab Motor No. AA3969480.

County Truck No. 25 1947 Ford 1½ Ton Truck, Chassis & Cab Motor No. 1456894.

County Truck No. 29 1950 Chevrolet 2 Ton Truck, Chassis & Cab & Bed, Motor No. HEA 129911

County Truck No. 36 1947 Ford 1½ Ton Truck, Chassis & Cab, Motor No. 1492389.

The above described used equipment will be sold for cash or traded in on the purchase of new equipment on the same day and hour that bids on above mentioned new equipment are received and opened in the office of the Board of County Commissioners of Yakima County, Washington. Any bidder on the new equipment may include in his offer to sell, his offer to accept the used equipment as a part payment on the purchase price of the new equipment, setting forth the amount of said allowance. The Board reserves the right to reject any or all bids. Bids shall be sealed and plainly marked "Bids—Road Equipment" and addressed to Yakima County Purchasing Agent, Room 105, Courthouse, Yakima, Washington.

Dated this 3rd day of February, 1956.

Harold Purdin

County Auditor and Ex-Officia Clerk of the Board.

By Lois Mathus

Deputy

5372—2-9, 16

HOSPITAL

BIDS CLOSE 10 A.M., P.S.T., MARCH 28

Juneau, Alaska

NOTICE TO CONTRACTORS

Reference Project Aaa, 50-A-97, Hospital, Seward, Alaska. February 13, 1956 Name and location of project, Seward Hospital, Project Aaa, 50-A-97, Seward Alaska. Department of Territories, Department of the Interior By, (Issuing office) James W. Huston, Director, Alaska Public Works, Office of Territories, Department of the Interior, Post Office Box 1181, Juneau, Alaska, Sealed bids in single copy for furnishing all labor, equipment, and materials and performing all work for the project described herein will be received until 10:00 A.M. Pacific Standard Time March 28, 1956, in the mailroom of the Office of the Director, Alaska Public Works, Office of Territories, Department of the Interior, 123 West Third Street, P. O. Box 1181, Juneau, Alaska, and then publicly opened, and read aloud. Information regarding bidding material, bid guarantee, and bonds follows:

Plans and specifications and other proposed contract documents are open for public inspection at the Director's office, Juneau, Alaska; at Room 2723, Interior Bldg., Washington 25, D. C.; at the Area Engineer's office, Alaska Public Works, Reliable Service Bldg., P. O. Box 1783, Anchorage, Alaska, and Associated General Contractors of America offices as follows: Seattle Chapter, Construction Center, 215 West Harrison St., Seattle, Wash.; Mountain Chapter, 220 West Harrison St., Seattle, Wash.; Tacoma Chapter, 452 St. Helens Ave., Tacoma 3, Wash.; Portland Chapter, Suite 112, Multnomah Hotel, Portland, Ore.; and the Alaska Chapter, 306 Central Bldg., Anchorage, Alaska, at the Plan Bureau, 2413 Western Ave., Seattle, Wash.; and Builders Exchange Cooperative, 317 Builders Exchange Bldg., Portland, Oregon. A set of such documents may be procured from the office of the Director at Juneau, Alaska, upon deposit of $25.00, all of which will be refunded upon the return of the plans and specifications in good condition within twenty (20) days from date of bid opening. Each bid must be accompanied by a satisfactory bid security (certified check or bid bond) in an amount not less than 5 per cent of the total bid in dollars and cents. No bid will be withdrawn until thirty days after the scheduled closing date for the receipt of bids. The successful bidder will be required to furnish a performance bond and payment bond, each in the amount of 100 per cent of the contract price. The Government reserves the right to award a contract for the project on the basis of the acceptance of any or all of the alternates, whichever course is in the best interest of the Government. DESCRIPTION: Hospital, Project Aaa 50-A-97, Seward Alaska. Construction of a one-story with part basements reinforced concrete general hospital building with approximately 18,700 square feet of floor area, including all mechanical and electrical work required for the proper operation of the building; also incidental site development and connections to utilities. Information regarding liquidated damages (if any), payments, etc., is attached or made a part of the specifications. Bids shall be submitted on the forms furnished or copies thereof.

5375—2-18, 25; 3-3

SCHOOL ADDITION

BIDS CLOSE 10 A.M., P.S.T., March 7

Juneau, Alaska

NOTICE TO CONTRACTORS

Project Aaa. 50-A-233, School Addition, Ketchikan, Alaska, January 27, 1956. Ketchikan High School Addition, Project Aaa. 50-A-233, Ketchikan, Alaska. Alaska Public Works, Office of Territories, Department of the Interior. By (Issuing office) James W. Huston, Director, Alaska Public Works, Office of Territories, Department of the Interior, Post Office Box 1181, Juneau, Alaska. Sealed bids in single copy for furnishing all labor, equipment, and materials and performing all work for the project described herein will be received until 10:00 A.M. Pacific Standard Time, March 7, 1956 in the mailroom of the Office of the Director, Alaska Public Works, Office of Territories, Department of the Interior, 123 West Third Street, P. O. Box 1181, Juneau, Alaska, and then publicly opened, and read aloud. Information regarding bidding material, bid guarantee, and bonds follows: Plans and specifications and other proposed contract documents are open for

public inspection at the Director's office, Juneau, Alaska; at Room 2723, Interior Bldg., Washington 25, D. C.; at the Area Engineer's office, Alaska Public Works, Room 309, Federal Building, Ketchikan, Alaska; and Associated General Contractors of America offices as follows: Seattle Chapter, Construction Center, 215 West Harrison St., Seattle, Wash.; Mountain Chapter, 220 West Harrison St., Seattle, Wash.; Tacoma Chapter, 452 St. Helens Ave., Tacoma 3, Wash.; Portland Chapter, Suite 112, Multnomah Hotel, Portland, Oregon; the Alaska Chapter, 306 Central Building, Anchorage, Alaska and the Plan Bureau, 2413 Western Ave., Seattle, Wash.; and the Builders Exchange Cooperative, 317 Builders Exchange Bldg., Portland, Oregon. A set of such documents may be procured from the office of the Director at Juneau, Alaska, upon deposit of $25.00, all of which will be refunded upon the return of the plans and specifications in good condition within twenty (20) days from date of bid opening.

Each bid must be accompanied by a satisfactory bid security (certified check or bid bond) in an amount not less than 5 per cent of the total bid in dollars and cents. No bid will be withdrawn until thirty days after the scheduled closing date for the receipt of bids. The successful bidder will be required to furnish a performance bond and payment bond, each in the amount of 100 per cent of the contract price. The Government reserves the right to award a contract for the project on the basis of the acceptance of any or all of the alternates, whichever course is in the best interest of the Government. DESCRIPTION: School Addition, Project Aaa. 50-A-233, Ketchikan, Alaska For the construction of a six-classroom and corridor addition to the Ketchikan High School, approximately 7,744 square feet. Construction is rigid structural steel frame with panel roof and side walls, foundations of concrete, floor on compacted fill, including all mechanical and electrical work. Information regarding liquidated damages (if any), payments, etc., is attached or made a part of the specifications Bids shall be submitted on the forms furnished or copies thereof.

5367—2-11, 18, 25

BRIDGE

BIDS CLOSE 10 A.M., FEBRUARY 28

Portland, Oregon

NOTICE TO CONTRACTORS

DEPARTMENT OF COMMERCE, BUREAU OF PUBLIC ROADS, February 14, 1956. SEALED BIDS will be received at the office of the Bureau of Public Roads, 753 Morgan Building, Portland, Oregon, mail address P. O. Box 3900, Portland, Oregon, until 10:00 o'clock A.M. on February 28, 1956 for furnishing the material and performing the work for constructing a 3-span reinforced concrete bridge, Oregon Forest Development Road Project Siskiyou 325-A1, Elk River Road, Siskiyou National Forest, Curry County, Oregon, involving 70 Cu. Yds. Excavation, 198 Cu. Yds. Concrete, 36,000 Lbs. Reinforcing Steel, 298 Lin. Ft. Metal Hand Rail, and other small items of work. Plans and specifications and proposals may be obtained at the office of the Bureau of Public Roads, 753 Morgan Building, Portland, Oregon. F. E. ANDREWS, Division Engineer.

5373—2-18

CEMENT CONCRETE PAVING STEEL BRIDGE, ILLUMINATION SYSTEM, ASPHALTIC CONCRETE PAVING

BIDS CLOSE 10 A. M., FEBRUARY 21

Olympia, Washington

NOTICE TO CONTRACTORS

Sealed bids will be received by the Washington State Highway Commission at Olympia, Washington, on Tuesday, February 21, 1956, until 10:00 A. M., for the construction of the following improvements and will then and there be opened and publicly read:

Clearing, Draining, Grading, Surfacing, Constructing a Steel Girder Bridge and Installing an Illumination System on 0.743 mile of Primary State Highway No. 1 in Thurston County, LINWOOD AVENUE TO DE SOTO STREET AND CAPITOL BOULEVARD UNDERCROSSING, FAP No. BIN-001-2(32), involving about 27 acres of Clearing, 275,100 cubic yards of Common Excavation, 29,360 cubic yards of Solid Rock Excavation Including Haul, 6,260 cubic yards of Excavation of Unsuitable Material Including Haul, 9,335 tons of Selected Roadway Borrow, 14,000 tons of Special Gravel Borrow, 1,670 tons of Crushed Stone Surfacing, 9 tons of Asphalt Cement, 75 cubic yards of Crushed Cover Stone, 1,585 tons of Asphaltic Concrete, 75 square yards of Cement Concrete Pavement, 1,500 linear feet of Special Cement Concrete Gutter, 890 linear feet of Cement Concrete Curb, Integral Cement Concrete Curb and Special Cement Concrete Curb, 1,030 linear feet of Asphaltic Shoulder Curb, 2,216 linear feet of corrugated Metal Pipe, 4,524 linear feet of Concrete Pipe, 120 linear feet of Galvanized Iron Pipe, 95 linear feet of Copper Pipe, 288 linear feet of Asbestos-Cement Pipe, 1,083 linear feet of Cast Iron Pipe, 986 linear feet of Beam Guard Rail, 440 square yards of Cement Concrete Sidewalk, 1,510 linear feet of Chain Link Fence, 2,028 cubic yards of Concrete, 263,700 pounds of Steel Reinforcing Bars, 435,000 pounds of Structural Carbon Steel and Structural Low Alloy Steel, 613 linear feet of Steel Bridge Railing, a lump sum bid for the Installation of an Illumination System and other items.

Surfacing with Light Bituminous Surface Treatment and Paving with Type I-1 Asphaltic Concrete on 14.388 miles of Primary State Highway No. 11 in Adams County, LIND TO RITZVILLE, FAP No. F-033-2(2) and State Project, involving about 6,000 cubic yards of Stripping Borrow and Surfacing Pits, 25,800 tons of Crushed Stone Surfacing and Crushed Cover Stone, 400 tons of Asphalt Cement, 33,660 tons of Asphaltic Concrete and other items.

Draining, Grading and Surfacing with Light Bituminous Surface Treatment on 10.205 miles of a Franklin County Road, ELTOPIA WEST ROAD AND FEEDER ROAD 16-9, FAS No. S-1038(1) and County Project, involving about 60,150 cubic yards of Common Excavation, 15,730 cubic yards of Solid Rock Excavation, 6,560 cubic yards of Class A Excavation, 72,090 tons of Crushed Stone Surfacing and Crushed Cover Stone, 331 tons of Asphalt Cement, 656 linear feet of Corrugated Metal Pipe, 1,086 linear feet of Concrete Pipe and other items.

Stockpiling Crushed Stone Surfacing, Maintenance Rock and Mineral Aggregate on Primary State Highways Nos. 3 and 7 in Whitman and Lincoln Counties, UNION FLAT CREEK VICINITY AND HARRINGTON TO LAMONA, a State Project, involving about 2,200 cubic yards of Stripping Borrow and Surfacing Pits Including Haul, 3,000 tons of Crushed Stone Surfacing 5,000 tons of Maintenance Rock and 14,000 tons of Mineral Aggregate.

Paving with Cement Concrete on 0.091 mile of Primary State Highway No. 4 in Lincoln County, KELLER FERRY-SOUTH APPROACH, a State Project, involving about 960 square yards of Cement Concrete Pavement, 10,460 pounds of Pavement Reinforcement and Steel Reinforcing Bars and other items.

Federal funds have been allocated for items Nos. 1 to 3, inclusive.

All bid proposals shall be accompanied by a bid proposal deposit in cash, certified check, cashier's check or surety bond in an amount equal to five per cent (5%) of the amount of such bid proposal. Should the successful bidder fail to enter into such contract and furnish satisfactory performance bond within the time stated in the specifications, the bid proposal deposit shall be forfeited to the State of Washington.

Prequalification of bidders is required. Maps, plans and specifications may be obtained from this office upon written request therefor and payment to the Director of Highways by cash, certified check, cashier's check or money order in the sum of two dollars ($2.00) for each copy of such maps, plans and specifications as a rental for the use of them. Plans will be forwarded by First Class Mail.

Informational copies of maps, plans and specifications are on file in the office of the County Engineer of the County in which the work is situated, the Chapter offices of the Associated General Contractors of America in Seattle, Spokane, Tacoma and Portland and the offices of the District Engineers of the Department of Highways where they may be inspected.

E. C. HUNTLEY, Chairman.
W. A. BUGGE, Director of Highways.

5365—2-4, 11

ELEMENTARY SCHOOL ADDITION

BIDS CLOSE 8 P.M., FEBRUARY 24

Port Angeles, Washington

NOTICE TO CONTRACTORS

Sealed bids will be received by the Board of Directors, Dry Creek Schol District No. 319, at the School District office at Rt. 3, Box 460, Port Angeles, Washington, until 8:00 p.m., Friday, February 24, 1956, for the construction of an addition to Dry Creek Elementary School, and will be then publicly opened and read aloud.

Bids received after the time fixed for opening cannot be considered.

Project aided by State of Washington. Project No. 145-15-3005.

Specifications, including contract documents and drawings may be examined at the office of the architect, Branch & Branch, 2616 East 11th Street, Bremerton, Washington, and at the various plan depositories and at the office of the School District at Rt. 3, Box 460, Port Angeles, Washington, and may be obtained at the architect's office upon deposit of $25 for each set.

The full amount of the deposit for one set of documents will be refunded to actual bidders upon return of the documents, unmutilated and without marks or annotations, or within 5 days after receiving documents.

Each bid must be accompanied by a certified check, cashier's check or bid bond not less than 5 per cent of the base bid, made payable to Dry Creek School District No. 319. The right is reserved to reject any or all bids and to waive informalities.

No bidder may withdraw his bid after the time set for the opening thereof, unless the award of contract is delayed for a period exceeding 30 days.

By order of:

MR. C. A. FORSBERG,
Clerk,
Dry Creek School District No. 319,
Rt. 1., Box 170,
Port Angeles, Washington.

5368—2-2, 8, 15

STEEL BRIDGE SALE

BIDS CLOSE 10:30 A.M., MARCH 1

Portland, Oregon

NOTICE TO CONTRACTORS

SEALED BIDS will be received by the Board of County Commissioners of Multnomah County, Room 504, County Court House, Portland, Oregon, until 10:30 A.M. March 1, 1956 and then opened for furnishing proposals for purchase of existing steel superstructure, machinery and electrical equipment in the Morrison bridge over Willamette River in Portland, Oregon.

Specifications are on file with the County Clerk of Multnomah County, and copies thereof may be obtained at the office of the Purchasing Agent, 504 County Court House.

No bid will be received or considered by the Board of County Commissioners or any officer of such county unless the bid contains a statement of the bidder as a part of his bid that he will covenant, and it will be a condition of his bond, that in performing his contract he will pay and cause to be paid not less than the prevailing rate of wages as of the date of his bid in such county per hour, per day and per week for and to each and every workman who may be employed in and about the performance of his contract.

No proposal will be considered unless accompanied by a check payable to the Board of County Commissioners of Multnomah County, certified by a responsible bank, or in lieu thereow, a surety bond for an amount equal to ten per cent of the aggregate proposal. The successful bidder shall furnish a bond satisfactory to the Board in the full amount of the contract. The right is reserved to reject any and all bids. John W. West, Purchasing Agent.

5370—2-11

INTERSTATE BRIDGE
BIDS CLOSE 9 A.M., MARCH 1
Portland, Oregon
NOTICE TO CONTRACTORS

Time and Place of Receiving Bids:

Sealed bids for the work described below will be received by the State Highway Commission of the State of Oregon at the Imperial Hotel, Portland, Oregon, at 9:00 a.m., Thursday, March 1, 1956.

Type of Project:

This is a cooperative project to be financed and built under a tri-party agreement between the States of Oregon and Washington, acting through their respective State Highway Commissions, and the Washington Toll Bridge Authority. By authority of this agreement, all matters pertaining to furnishing plans and specifications to bidders and receipt of proposals are being handled by the State Highway Commission of the State of Oregon, address: State Highway Building, Salem, Oregon.

Description of Work:

The work for which bids are to be received consists of the following work on the Pacific Highway in the vicinity of Portland, Multnomah County, Oregon, and Vancouver, Clark County, Washington.

1. New Interstate Bridge over Columbia River—Construct a reinforced concrete and structural steel bridge 3,531'-5½" in length with a 40-foot roadway and one 5-foot sidewalk. Principal work consists of construction of 11 main river piers, 1-531-', 7-265' and 2-272' steel thru truss spans and 1-278' vertical lift span, and a 318' RC viaduct.

2. Oregon Slough Bridge—Alter the existing structures over Oregon Slough and Swift Road and widen these structures to accommodate two additional lanes of traffic. Principal work consists of construction of a widened portion of Oregn Slough Bridge, 1,294'-7" in length with a 38-foot roadway, and one 6-foot sidewalk and an approach ramp 133 feet in length with a 26-foot roadway.

3. Performance of miscellaneous and incidental work as required by the plans and specifications.

Quantities:

The work involves the following approximate quantities:

Item	Unit	*Alternate "A"	**Alternate B"
Interstate Bridge:			
1. Shoring, Cribbing, Etc.	All	All	All
2. Structural Excavation	Cu. Yd.	15,500	20,500
3. Excavation Below Elevations Shown	Cu. Yd.	500	500
4. Furnish Timber Piling	Lin. Ft.	87,700	92,000
5. Furnish Treated Timber Piling	Lin. Ft.	4,200	4,200
6. Furnish Cast-in-Place Concrete Piling	Lin. Ft.	1,300	1,300
7. Drive Timber Piling	Each	1,493	1,699
8. Drive Cast-in-Place Concrete Piling	Each	21	21
9. Seal Concrete	Cu. Yd.	6,700	13,000
10. Class "A" Concrete	Cu. Yd.	14,300	10,500
11. Metal Reinforcement	Lb.	1,600,000	1,700,000
12. Structural Steel (4,700 T.)	All	All	All
13. Metal Handrail	Lin. Ft.	3,870	3,870
14. Bridge Buildings	All	All	All
15. Electrical and Mechanical Equipment	All	All	All
16. Lighting	All	All	All
17. Construction Walkway	All	All	All
18. Engineer's House	All	All	All
Oregon Slough Bridge:			
1. Shoring, Cribbing, Etc.	All	All	All
2. Structural Excavation	Cu. Yd.	2,600	3,400
3. Excavation Below Elevations Shown	Cu. Yd.	100	100
4. Furnish Timber Piling	Lin. Ft.	18,900	16,900
5. Furnish Treated Timber Piling	Lin. Ft.	7,800	7,800
6. Drive Timber Piling	Each	444	430
7. *Seal Concrete **Tremie Concrete	Cu. Yd.	*1,070	**2,350
8. Class "A" Concrete	Cu. Yd.	4,060	3,350
9. Metal Reinforcement	Lb.	576,000	669,000
10. Structural Steel (800 T.)	All	All	All
11. Metal Handrail	Lin. Ft.	1,150	1,150
12. Electrical Conduit	All	All	All
13. Construction Walkway	All	All	All
14. Roadwork	All	All	All
15. Concrete Slab Riprap	Sq. Yd.	160	160
16. Alterations to Existing Structure	All	All	All

* Conventional Poured-in-place pier construction
** Precast "shell-type" pier construction

Wage Rates:

In accordance with the provisions of Chapter 39.12 of the Revised Washington Statutes, the contracting parties hereto have ascertained the general prevailing rates of wages applicable to the work to be done within the State of Washington to be as follows:

Hourly Minimum Wage Rate	Classification
	Skilled Labor
2.83	Cranes (Locomotive, Whirley, Gantry, Hammerhead)
2.83	Clamshell dredge
2.43	Concrete mixer (1 to 5 bag capacity)
2.58	Concrete mixer (5 bag capacity and over)
2.90	Cement Mason
3.07	Ironworker (structural and ornamental
2.87	Ironworker (reinforcing)
2.85	Pilemen, Bridgemen, Wharfbuilders
2.63	Concrete road paver
2.63	Concrete mixer (dual)
2.28	Concrete batch and wet mix (operator)
2.83	Derrick operator (live boom)
2.48	Hoist, single drum
2.78	Hoist, two or more active drums on hoist
2.68	H.D. mechanic or welder
2.78	Piledriver engineer
2.75	Carpenters (Journeymen)
	Intermediate Grade Labor
2.38	Air compressor
2.48	Air compressor (over 1,000 c.f. stationary)
2.58	Drills (churn & core drill)
2.38	Finish machine operator
2.28	Firemen, dredge, floating derrick, retort, shovel
2.63	Generator, plant operator (diesel-electric)
2.73	Mixermobile
2.18	Oiler on all equip.
2.20	Side and end dump truck driver (6 yds and under)
2.25	Side and end dump truck driver (over 6 yds. & incl. 8 yds.)
2.30	Side and end dump truck driver over 8 yds. & incl. 10 yds.)
2.40	Side and end dump truck driver (over 10 yds. & incl. 12 yds.)
2.20	Solo flatbed and misc. body trucks 1 ton to & incl. 4 tons)
2.20	Solo flatbed and misc body trucks (over 4 ton & incl. semi-trailer & truck & trailer not to exceed 10 tons)
2.20	Transit mix or wet mix trucks (3 yds. & under)
2.30	Transit mix or wet mix trucks (over 3 yds.)
2.25	Trucks, semi-trailer, and truck & trailer (over 10 tons incl. low bed)
2.20	Tank trucks, 1,600 gallons and under
2.20	Tank trucks, over 1,600 gallons
2.28	Jackhammer & power tool operator (Incl. chipping guns, paving breakers, vibrator operator—other than paving)
2.28	Ribbon setters (head)
2.18	Vibrator operator (paving only, incl. sidewalks & curbs)
2.38	Wagon drillers
2.85	Piledrivermen riggers, burnermen & welders
	Unskilled labor
2.38	Cement hog
2.23	H.D. Mechanic helper
2.20	Concrete buggies (power operated)
2.20	Truck helper (steady)
2.20	Warehousemen (warehouse parts & tool men)
2.18	Batch weighman, broomers, cement buckers; concrete buggymen, puddlers, rodders, rubbers (not fin.), spreaders; curing, sprayman and joint-dowel-tie bar setters
2.18	Car & truck loaders & road pump tenders
2.18	Flagmen (Traffic)
2.28	For strippers (swinging stage)

Rates of wages applicable to the work to be done within the State of Oregon shall comply with Oregon laws.

Prequalification of Bidders:

Prequalification of bidders will be required in accordance with the provisions of Oregon Revised Statutes 279.010 to 279.024, inclusive, and Chapter 47.28.070 of the Revised Washington Statutes.

Plans and Specifications:

Full information for bidders may be obtained at the office of the Oregon State Highway Commission, State Highway Building, Salem, Oregon. Plans and specifications may be inspected at the same place and may be obtained by elegible bidders upon payment of $2.00 per set.

Plans and specificatins may be inspected at the office of the Associated General Contractors at Portland, Oregon, Seattle, Tacoma and Spokane, Washington, Boise, Idaho, and San Francisco and Los Angeles, California.

The right is reserved to reject any and all proposals or to accept the proposal deemed best for the States of Oregon and Washington.

OREGON STATE HIGHWAY COMMISSION
Ben R. Chandler, Chairman
Chas. H. Reynolds, Commissioner
M. K. McIver, Commissioner
R. H. Baldock
State Highway Engineer
ATTEST:
H. B. Glaisyer
Secretary to Commission (Oregon)

WASHINGTON STATE HIGHWAY COMMISSION
R. A. Moisio, Commissioner
R. E. Hensel, Commissioner
E. C. Huntley, Chairman
H. E. Morgan, Commissioner
Oscar E. Stone, Commissioner
W. A. Bugge
Director of Highways
ATTEST:
Lorentz Goetz
Secretary to Commission (Washington)

WASHINGTON TOLL BRIDGE AUTHORITY
Arthur B. Langlie, Governor and Chairman of Authority
Cliff Yelle, State Auditor
H. D. Van Eaton, Director, Department of General Administration
E. C. Huntley, Chairman, Washington State Highway Commission
Ralph M. Davis, Chairman, Public Service Commission
D. B. Hedges, Secretary of Authority.

5350—1-17

SCHOOL ADDITION
BIDS CLOSE 8 P. M., FEBRUARY 28
Silverdale, Washington
NOTICE TO CONTRACTORS

Sealed bids are invited by Central Kitsap School District No. 401, for the construction of an Addition to Tracyton Elementary School at Tracyton, Washington, until 8:00 p. m., Tuesday, February 28, 1956.

Bids received by this time at the office of the Superintendent of School, Silverdale High School Administration Building, Silverdale, Washington, will then and there be publicly opened and read aloud. Bids received after the time fixed for opening cannot be considered.

Separate bids will be received for the following contracts:

(a) General Construction;
(b) Plumbing, Heating and Ventilating;
(c) Electrical Work.

Specifications, including contract documents and drawings, may be examined at the office of the Superintendent of Schools, Silverdale, Washington, and at the office of Jensen & Mills, Architects, 308 South Tacoma Avenue, Tacoma, Washington, and may be obtained by bidders at the office of Jensen and Mills, Architects, 308 South Tacoma Avenue, Tacoma, Washington, upon deposit of $10.00 for each set.

The full amount of the deposit for one set of documents will be refunded to actual bidders upon return of the documents, unmutilated and without marks or annotations, within ten (10) days after the time set for opening bids. Other deposits will be refunded, with deduction for the actual cost of reproducing the drawings, under the same conditions.

Each bid must be accompanied by a certified check, or cashier's check or bid bond as surety, in an amount not less than 5% of the largest bid, made payable to Silverdale School District No. 401.

The right is reserved to reject any or all bids and to waive informalities. No bidder may withdraw his bid after the time set for the opening thereof, unless the award of contract is delayed for a period exceeding thirty (30) days.

By order of:
CENTRAL KITSAP SCHOOL DISTRICT No. 401,
Silverdale, Washington.

5371—2-8, 15, 21

PRIEST RAPIDS PROJECT
BIDS CLOSE 2 P. M., P.S.T., MARCH 12
Ephrata, Washington
NOTICE TO CONTRACTORS

Sealed proposals will be received and filed by Public Utility District No. 2 of Grant County at its office in Ephrata, Washington until 2 P.M., Pacific Standard Time, March 12, 1956 for construction of the Dam, Powerplant and Appurtenances for the Priest Rapids Project on the Columbia River in Washington. At that hour the bids will be publicly opened and read aloud.

Each bid shall be accompanied by a certified or cashier's check payable to the order of the Public Utility District No. 2 of Grant County, Washington, for a sum not less than five per cent (5%) of the amount of the bid, or accompanied by a bid bond in an amount not less than five per cent (5%) of the bid with a corporate surety or surities licensed to do business in the State, conditioned that the bidder will pay the District as liquidated damages the amount specified in the bond, unless he furnishes a performance bond and enters into a contract in accordance with his bid within ten (10) days from the date on which he is notified he is the successful bidder.

Plans, specifications, contract documents and instructions to bidders are on file in the offices of the District at Ephrata, Washington.

PUBLIC UTILITY DISTRICT NO. 2 OF GRANT COUNTY, WASHINGTON
By G. A. Smothers, Manager

5374—2-18, 25; 3-3, 10

ASPHALTIC CONCRETE PAVING
BIDS CLOSE 10 A.M., FEBRUARY 24
Missoula, Montana
NOTICE TO CONTRACTORS

City of Missoula Street Pavement sealed bids will be received at the City Hall, Missoula, Montana, until 10 A.M., February 24th 1956, for furnishing labor and material Front Street project. Principle items 4,500' Integral Curb and Gutter, 4,600 cu. yds. Exc. 11,500 sq. yds. Asphaltic Con. Alt. 13,-000 sq. yds. Con. Pavement, Storm Sewer and Apt.

All bids must be accompanied by a certified check or cash in amount 10%. Plans available from City Clerk deposit $10.00.

The right is reserved to reject any or all bids.

W. M. Sterling,
Clerk of the Commission

5364—2-7, 8, 9, 10, 11

CHLORINATION, CONTROL HOUSE
BIDS CLOSE MARCH 15
Goleta, California
NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-4621) will be received at Goleta, California, until March 15, 1956, for furnishing labor and materials for Chlorination and Control House for Tecolote Tunnel, Cachuma Project, California. Location near Goleta, California. Principal items are 100 cu. yds. excavation; 290 barrels furnishing and handling cement; 25 cu. yds. concrete; constructing chlorination and control house; and other work. Completion time 180 days. For particulars, address Bureau of Reclamation, P. O. Box 2511, Sacramento 11, California; P. O. Box 701, Goleta, California; or Building 53, Denver Federal Center, Denver, Colorado. W. A. Dexheimer, Commissioner.

5361—2-4

SURFACING, BRIDGE
BIDS CLOSE 10 A.M., FEBRUARY 21
Portland, Oregon
NOTICE TO CONTRACTORS

DEPARTMENT OF COMMERCE, BUREAU OF PUBLIC ROADS, JANUARY 30, 1956.

SEALED BIDS will be received at the office of the Bureau of Public Roads, 753 Morgan Building, Portland, Oregon, mail address P. O. Box 3900, Portland, Oregon, until 10 A.M. on February 21, 1956 for furnishing the material and performing the work for constructing 1.011 miles grading and surfacing and a 183-ft. reinforced concrete and steel beam bridge, Washington Forest Highway Project 25-A5, Baker River Highway, Mt. Baker National Forest, Whatcom County, Washington, involving 10 Acres Clearing; 7 Acres Grubbing; 77,000 Cu. Yds. Excavation; 489 Cu. Yds. Concrete; 80,000 Lbs. Reinforcing Steel; All Required Structural Steel—Furnished, Fabricated and Erected; 363 Lin. Ft. Metal Hand Rail; 840 Lin. Ft. Culvert Pipe, and other small items of work. Plans, specifications and proposals may be obtained at the office of the Bureau of Public Roads, 753 Morgan Building, Portland, Oregon. F. E. Andrews, Division Engineer.

5360—2-4

HANGAR
BIDS CLOSE 2 P. M., MARCH 8
Seattle, Washington
NOTICE TO CONTRACTORS

Sealed bids are hereby invited for the construction of an eight-place hangar, including earthwork, paving, utilities and miscellaneous items of work at Moses Lake Flight Center, Larson Air Force Base, Grant County, Washington, for the Boeing Airplane Company, Seattle Division.

The work includes but is not limited to the following:

(1) 8-place hangar structure, complete.
(2) Excavation, fill, grading and subgrade preparation.
(3) Concrete hangar apron and yard paving
(4) Asphaltic concrete parking area, road, and fire lanes.
(5) Drainage; storm and sanitary.
(6) Modifications to fire protection reservoir.
(7) Domestic and fire protection water lines.
(8) Air piping from existing Service Building.
(9) Steam generating unit and accessory work in existing Service Building, and steam supply and return lines for the hangar.
(10) Electrical distribution and communications systems.
(11) Modifications to existing Service Building.
(12) Oxygen storage facility.
(13) Underground gasoline storage tank at existing Oil Storage Building.
(14) Blast fence.
(15) Gun Firing Facility.
(16) Runway Threshold Lighting.
(17) Taxiway Revisions.

This contract will constitute a sub-contract under a prime contract between Boeing Airplane Company and the United States Government.

Bid, Performance and Payment bonds will be required.

Not more than three (3) sets of contract

The THOUGHTFUL ARCHITECT

Publishes his CALLS FOR BIDS
in the three northwest journals devoted exclusively to construction and to the administration of public offices . . .

PACIFIC BUILDER & ENGINEER
First Saturday of Each Month

CONSTRUCTION NEWS BULLETIN
2d, 4th & 5th Saturdays of Each Month

PACIFIC ARCHITECT AND BUILDER
Third Saturday of Each Month

Covering . . .
Oregon • Washington
Idaho • Montana
Utah • Wyoming
and Alaska

MAin 0285 2418 THIRD AVE. SEATTLE 1, WASH.

documents may be obtained by each general contractor bidder, whether a single firm or joint venture on or about February 6, 1956. Subcontractors may obtain one (1) set only of complete documents or one (1) set only of partial documents pre-assembled for certain major sub-contract phases of the work. A deposit of one hundred dollars ($100.00) in the form of a certified check will be required on each complete or partial set upon application at the offices of Naramore, Bain, Brady and Johanson, Architects and Engineers, 904 Seventh Avenue, Seattle 4, Washington. Deposits will be refunded upon return of document sets in good condition to the offices of the Architect-Engineer within two (2) weeks following opening of bids.

Complete sets of bid documents will be available for inspection by prospective bidders at the following locations:

Naramore, Bain, Brady & Johanson, 904 Seventh Avenue, Seattle 4, Washington.
Naramore, Bain, Brady & Johanson, Moses Lake Flight Center, Moses Lake, Washington.
Associated General Contractors of America, 215 W. Harrison, Seattle, Washington.
Plan Bureau, 2413 Western Avenue, Seattle, Washington.
Mountain Pacific Chapter of Associated General Contractors, Benjamin Franklin Hotel, Seattle, Washington.
Associated General Contractors of America, 452 St. Helens, Tacoma, Washington.
Construction Council, Spokane Hotel, Spokane, Washington.
Associated General Contractors of America, Eastern Washington Builders' Chapter, 1207 N. Washington, Spokane, Washington.
Associated General Contractors of America, So. 102 Stevens, Spokane, Washington.
Builders' Exchange, Builders Exchange Building, Portland, Oregon.
Associated General Contractors-Central & Northern California, 850 Battery, San Francisco, California.
Southwest Builders & Contractors, 1660 Beverly Blvd., Los Angeles, California.
F. W. Dodge Corporation, Thomas Building, Dallas, Texas.
F. W. Dodge Corporation, 700 Merchandise Mart, Chicago, Illinois.
Builders' Exchange, National Building, Minneapolis, Minnesota.
Wenatchee Construction Council, Wenatchee, Washington.
Columbia Basin Construction Council, Inc., 606 W. 3rd, Moses Lake, Washington.
Associated General Contractors of America, 2103 Crawford, Houston, Texas.

Sealed bids will be opened and publicly read at 2:00 P.M., P.S.T., March 8, 1956, in the Engineering Building, Boeing Airplane Company, Seattle, Washington.
5358—1-28

LATERAL, WASTEWAY
BIDS CLOSE 10 A.M., P.S.T., FEBRUARY 21
Ephrata, Washington
NOTICE TO CONTRACTORS

UNITED STATES DEPARTMENT OF THE INTERIOR, Bureau of Reclamation, January 16, 1956. Sealed bids, in single, (Specifications No. 117C-359) will be received at the office of the Project Manager, Bureau of Reclamation, Project Office Building, Division and "C" Streets N.W., Ephrata, Washington, until 10:00 a.m., Pacific Standard Time, February 21, 1956, and then publicly opened for furnishing labor and materials and performing all work for construction of Crab Creek Lateral Enlargement and Crab Creek Wasteway, Blocks 86, 87 and 88. This work will include earthwork for excavating the bottom and one side of existing lateral for approximately 6.6 miles and excavating the bottom only for approximately 6.9 miles, earthwork for excavating the bottom and sides for approximately 350 feet of wasteway, earthwork for and constructing concrete structures along lateral and wasteway including pipe drop, pipe turnouts, constant head orifice turnouts, concrete checks and drops, and county road crossings including check and pipe inlets and concrete transitions. This work will include 46,820 cu. yds. excavation; 100 mile cu. yds overhaul; 3,400 cu. yds backfill and compaction about structures; 350 cu. yds. concrete in structures; furnishing and handling 525 barrels cement; furnishing and placing 31,000 lbs, reinforcement bars; furnishing and laying 990 lin. ft. of 15, 18, 21, 48 inch diameter standard-strength reinforced-concrete; 2,950 lbs. miscellaneous metalwork; and furnishing and installing 28 steel slide gates, etc. Time allowed for completion will be 270 calendar days. For particulars address the Bureau of Reclamation, P. R. Nalder, Project Manager, Box 368, Ephrata, Washington.
5355—1-28

SIPHON, CANAL, WASTEWAY
BIDS CLOSE MARCH 13
Ephrata, Washington
NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-4620) will be received at Ephrata, Washington, until March 13, 1956, for furnishing labor and materials for the construction of Wahluke Siphon, Station 0/00 to Station 159/05; Wahluke Branch Canal; and PE 16.4 Wasteway, Station 577/40 to Station 677/25, Columbia Basin Project, Washington. Location near Othello, Washington. Principal items are 281,000 cu. yds. excavation; 7,500 cu. yds. concrete in structures; 2½ miles concrete pipe in siphon, 15'-4" diameter, alternative monolithic or precast concrete pipe; ½ mile plate-steel pipe in siphon, 15'-4" diameter, and other work. Completion time 800 days. For particulars, address Bureau of Reclamation, P.O. Box 368, Ephrata, Washington; or Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.
5362—2-4

POWER CIRCUIT BREAKERS
BIDS CLOSE MARCH 1
Denver, Colorado
NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Invitation No. DS-4614) will be received at Denver, Colorado, until March 1, 1956, for furnishing two 69-kv (350-kv BIL), 1,200-ampere, 2,500,000-kva, power circuit breakers, suitable for switching shunt capacitors for Folsom-Elverta Terminal Switching Facilities, Central Valley Project, California. Delivery is desider with 180 days. For particulars, address Bureau of Reclamation, Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.
5354—1-28

PUMPING PLANT
BIDS CLOSE MARCH 6
Ephrata, Washington
NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-4630) will be received at Ephrata, Washington, until March 6, 1956, for furnishing labor and materials for Evergreen Pumping Plant, Block 77, Columbia Basin Project, Washington. Location near Quincy, Washington. Principal items are 2,800 cu. yds. excavation, common; 14,600 cu. yds excavation, rock; furnishing and handling 2,670 barrels cement; furnishing and placing 208,400 pounds reinforcement bars; furnishing and erecting 129,000 pounds steel for pumping plant superstructure; and other work. Completion time 420 days. For particulars, address Bureau of Reclamation, P. O. Box 937, Boise, Idaho; P. O. Box 1078, Quincy, Washington; or Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.
5366—2-11

CHURCH
BIDS CLOSE 3 P.M., FEBRUARY 21
Tacoma, Washington
NOTICE TO CONTRACTORS

Sealed bids will be received by Dr. William Rosenbladt, in the office of Lea, Pearson & Richards, architects, 240 S. Stadium Way, Tacoma, Tuesday, February 21, 1956 at 3 p.m., for construction of a new Central Lutheran Church or reinforced concrete construction. The approximate cost of the building is $350,000. The bids will then and there be publicly opened and read aloud. Bids received after the time fixed for opening cannot be considered. Separate bids will be received for the following contracts: General, Mechanical, Electrical or Combination bid.

Drawing and specifications including contract documents may be examined at the office of the architects, Lea, Pearson & Richards, 240 S. Stadium Way, Tacoma, Washington, and may be obtained there upon deposit of $25 for General, and $10 each for Mechanical and Electrical. The full amount of the deposit for one set of documents will be refunded to actual bidders upon return of the documents unmutilated and without marks and annotations, within 10 days after the time set for opening of bids. Other deposits will be refunded with deductions for the actual cost of reproducing the prints, under the same conditions.

Each bid must be accompanied by a certified check, cashier's check, or bid bond in an amount not less than five per cent (5%) of the proposal submitted made payable to Central Lutheran Church. The right is reserved to accept or reject any or all bids and waive all claims, or any informalities or irregularities in the bids or the bidding. No bidder may withdraw his bid after the time set for the opening thereof, unless the award of the contract is delayed for a period exceeding 30 days.
5363—1-31; 2-1

HAYSTACK DAM
BIDS CLOSE FEBRUARY 28
Madras, Oregon
NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-4613) will be received at Madras, Oregon, until February 28, 1956, for furnishing labor and materials for construction of Haystack Dam, Deschutes Project, Oregon. Location near Madras, Oregon, in Jefferson County. Principal items are 650,000 cu. yds. excavation; 533,000 cu. yds earthfill in embankments; 1,640 cu. yds. concrete and other work. Completion time 600 days. For particulars, address Bureau of Reclamation, Madras, Oregon; or Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.
5353—1-28

SCHOOL CONSTRUCTION
BIDS CLOSE 2 P.M., P.S.T., MARCH 20
Spokane, Washington
NOTICE TO CONTRACTORS

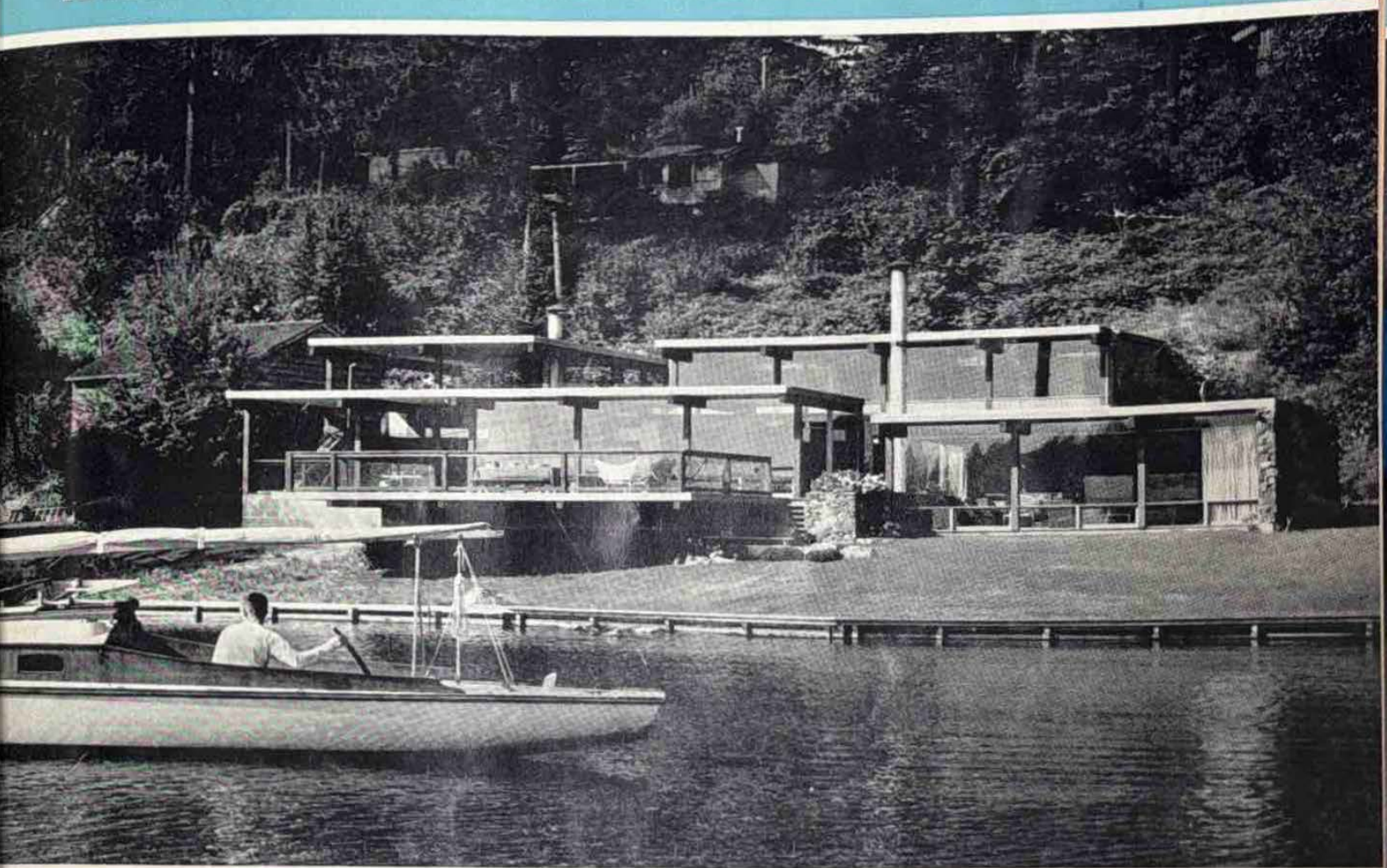
Sealed bids in triplicate for furnishing all labor, equipment, and materials and performing all work for the project described herein will be received until 2:00 p.m., PST, Tues., Mar. 20, 1956, by the Housing and Home Finance Agency, in multi-purpose room of the Blair School, Fairchild AFB, Spokane, Washington, for the general, mechanical, and electrical work separately, and then publicly opened. Information regarding bidding material, bid guarantee, and bonds, plans, specifications and bidding documents may be examined at the following offices: John S. Villesvik, Architect AIA, 109 North Third Street, Yakima, Washington; all the plan centers in Spokane, Wenatchee, Moses Lake, Pasco, Yakima, Tacoma, and Seattle, Washington, and Portland, Oregon, and may be obtained upon delivery of a check in the amount of $7.50 for each separate set at 109 North Third Street, Yakima, Washington. Checks must be made payable to the Housing & Home Finance Agency—OA. Cash will not be accepted and this fee will not be returned. Bid guarantee required: 2% of Bid on U. S. Standard Form 24 or money order, certified or cashier's check. Bonds required: 50% performance and 50% payment on Standard Government Forms. Description of work: General, Mechanical and Electrical work to be bid separately for construction of a one-story masonry school building of approximately 19,000 square feet and site improvements at the Fairchild AFB, Spokane, Washington. Address sealed bids to: Mr. L. R. Durkee, Area Representative, Housing & Home Finance Agency, c/o Postmaster, Fairchild AFB., Spokane, Washington. Information regarding liquidated damages (if any), payments, etc., is attached or made a part of the specifications. Bids shall be submitted on the forms furnished or copies thereof.
5376—2-18, 25; 3-3

Pacific Architect and Builder

March BPA 1956

35¢

WITH CONSTRUCTION NEWS BULLETIN

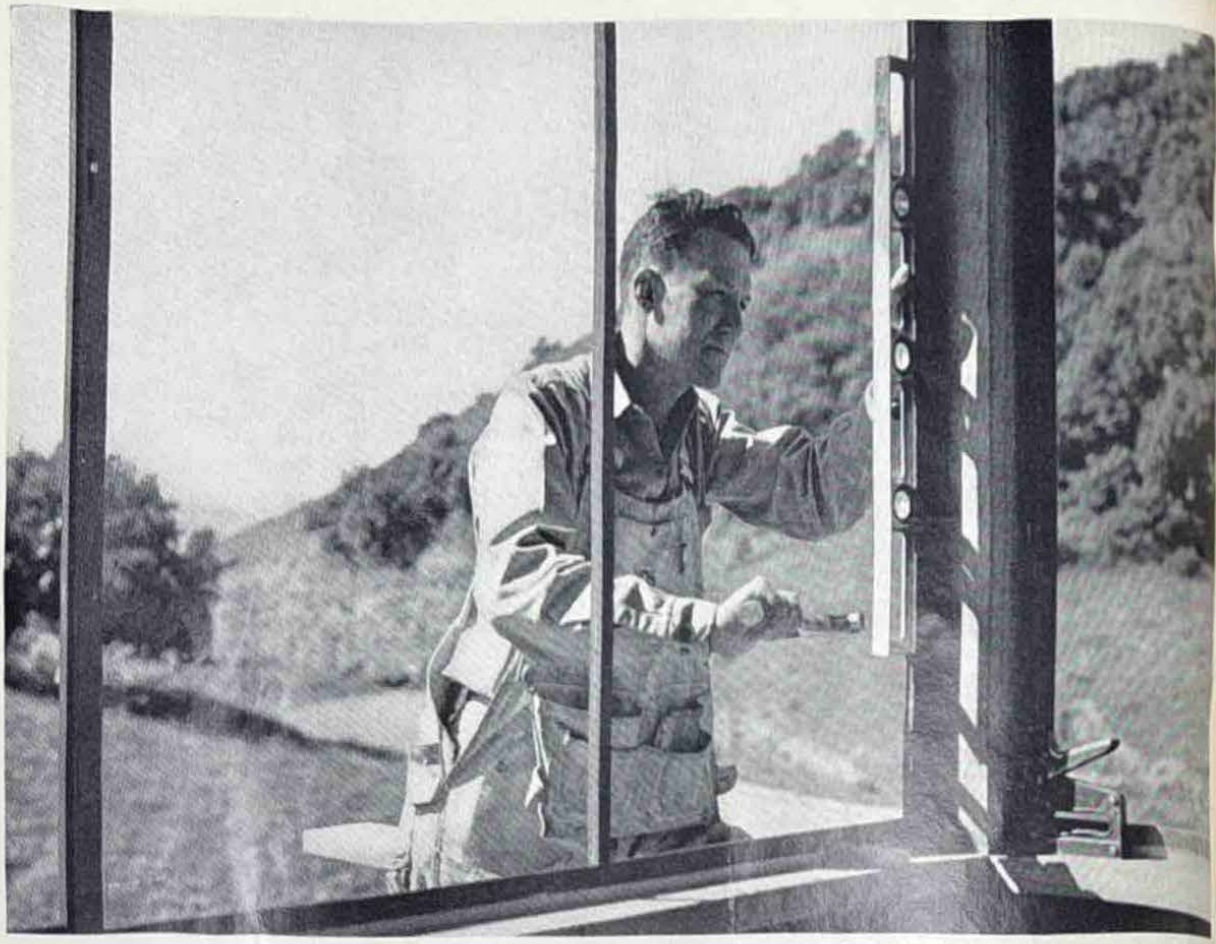


Published by
PACIFIC BUILDER
ND ENGINEER, Inc.
Established 1902

This house makes the most of the view

Frank E. Hodge residence: Bellevue, Wash.—on Lake Washington, it catches panorama of the bay and the mountains (page 10). Dale D. Pedersen, architect.

Also in this issue: all-concrete church, small apparel shop, union headquarters

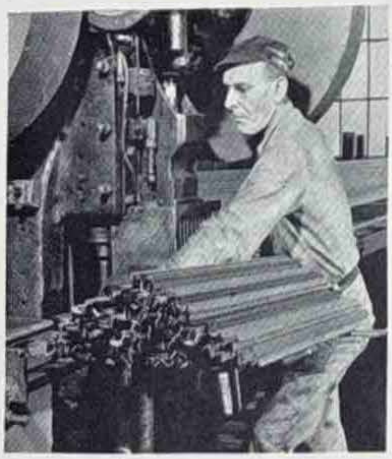


Steel windows appeal to builders and contractors because they are easily installed. Fenestra windows are supplied either hot-dip galvanized and bonderized or bonderized and prime-painted.

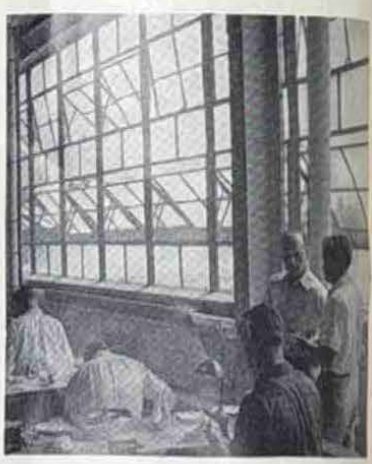
Sturdy, easy-to-install windows made from STEEL

More and more windows these days are made from steel. The attractive, slender frames and muntins are ideal for homes, plants, hospitals and other buildings where maximum light and ventilation are important. The rugged steel frames can withstand rough treatment during shipment. And they are easy to install because they come factory-assembled.

The various types of steel window sash are just a few of the many sections we roll at our three West Coast steel plants. We're bar specialists. So be sure to check with us when you need carbon or alloy grades in either standard or special sections. All bars are rolled from new-billet steel, uniform in size and quality. Call our nearest sales office.



Bethlehem Pacific steel sections are sheared to accurate lengths in the Detroit Steel Products Co. plant in Emeryville, Calif. Their "Fenestra" line includes 270 types of window sash.



These craftsmen are gilding fine china, intricate work that calls for plenty of natural light. Only steel windows have the strength to permit the use of such slender framing members.

BETHLEHEM PACIFIC COAST STEEL CORPORATION

Sales Offices: Los Angeles, Phoenix, San Francisco, Portland, Seattle, Spokane

BETHLEHEM PACIFIC

BETHLEHEM STEEL

IMPORTANT NEWS ABOUT THE NEW GRADE NAMES* FOR WEST COAST LUMBER EFFECTIVE MARCH 15 1956









Orders placed under Rule #14 may be graded and stamped under that rule *for a limited period* after March 15. This is to accommodate stocks in the process of manufacture or on hand at yards or mills.

All specifications for structures to be built after March 15, 1956, should be under the new rule, Rule #15.

If you have not received your free copy of Rule #15, write to West Coast Lumbermen's Association, 1410 S. W. Morrison, Portland 5, Oregon.

*Applies to Boards, Dimension and Timbers

DOUGLAS FIR • WEST COAST HEMLOCK
WESTERN RED CEDAR • SITKA SPRUCE

Architects and speculative builders: a need for both

by RICHARD WALLER

BUILDING HOMES for speculation has been a booming industry since the end of World War II.

Large residential districts in almost every town and city in the country have been created. Some are attractive and a credit to the community, others are architectural abortions. It is indeed a shame that so many of these post-war residential districts fall into the latter category. What has brought about this unnecessary situation?

First of all, an acute housing shortage faced the country immediately after World War II. Contractors could and did sell anything that even resembled a house.

Second, architectural advice was disregarded completely in many cases. The speculative builders would develop a plan that would sell, not on its architectural merits, but only as a solution to the housing problem.

Third, too many builders considered the architectural fee as an unnecessary expense in the cost of a home.

The housing shortage was undoubtedly the main contributor to the situation. The home builder was riding the gravy train. Substandard construction resulted. The speculator was getting rich at the expense of the home buyer. In many cases state and federal investigations were held in an attempt to discover any fraud and to insure against future violations.

The architect was by-passed entirely by the builders. Basic plans were developed by the builders or purchased from home-plan or stock-plan services. The plan would be labeled "popular" on the basis of the volume of sales. The amount of sales of the typical builder house was due to the severe housing shortage. A house could be very poorly planned and still sell.

For the people who strive to "keep up with the Joneses," their ambitions were partially solved. They didn't have any choice, other than the color of the exterior paint. Residential developments looked like an army camp with houses substituted for the traditional tents. Houses were built to comply with the bare minimum requirements of the VA and FHA. The home became primarily a shelter rather than a place to live.

Negative public reaction toward the architects was stimulated in residential work. Plans were available to the prospective buyers through the builders themselves or through plan services for little or nothing. Why pay for an architect when the same service can be supplied at a fraction of the architect's fee was a common opinion. Today as these people look out of their "picture" windows at their neighbors across the street, or at cars passing in front of the house, many wish that an architect had been consulted.

These situations could have been substantially curbed had the advice and planning of architects throughout the country been utilized. An architect can usually design a house, regardless of size, that will be functional at little or no additional cost in construction. Slight variations in the exteriors would have eliminated the monotony of these typical residential additions to our communities. Merely changing the color of the exterior paint can hardly be considered a basic change.

Many believed that the architect's intention was to design a building that would be a credit to him as an architect, completely disregarding costs and the wants and needs of the client. This conception of the duties and responsibilities of the architect is entirely unfounded. The architect has to be as cost conscious as the builder. The difference lies in the quality of the final product. In building materials as in anything else there is the good-better-best variety. Where the architect will specify the "best," the builder will substitute the "good" in order to bring down the cost.

The architects could have greatly enhanced the appearance of so many residential projects by planning the overall development. Provisions for schools, parks, shopping and recreation would have been incorporated. These vital features are sadly lacking in a great many builder developments.

Architects and builders have worked together in several communities and the results have been highly commendable. It is too bad that this type of cooperation in the home building industry was the exception rather than the rule.

Mr. Waller is a junior student in architecture at Montana State College, Bozeman, where he works part time for an architect. While employed from 1950 through 1954 by a home-plan, stock-plan service, he designed several builder houses.—The Editor.

Letters . . . to the editor

Providing Shelter

HAVRE, MONT.

I read with considerable interest the guest editorial by Edward P. Miller (PA&B, Jan. '56). His comments concerning the additional cost of architect-designed homes are in line with our experience. It would seem that during his college training the architectural student, after designing his typical "doctor's residence," never again gains contact with the realities of the economics of residential construction.

The average builder and the public, for reasons not without some justification, have come to regard the architect as a luxury item for a few at the top of the socio-economic ladder. The architects are failing to meet one of their first responsibilities: that of creating a physical home environment which a reasonably large portion of our population can afford. As important as it is to have well-designed schools and even gas stations, it would seem to be even more important to have the architects' talents directed toward the planning of well-designed homes—homes which have obvious and considerable influence on the development of human beings.

Since there has been no place in the architect's education, or at least not sufficient emphasis, on engineering economy, then it would certainly follow that he be assisted in meeting the responsibility of residential design as Mr. Miller suggests: through coordination and cooperation with some of the more progressive home builders.

But in addition to sharing with (educating) the architect certain of his information and experience with regard to current cost items and consumer needs and desires, the **builder**, it seems to me, has a direct (educational) responsibility to the public of constantly setting a better example of architectural design as well as other qualities. Granted no one can stay in business if he gets too far ahead of public acceptance and/or includes too many innovations which the buying public cannot afford or is not willing to pay for, but the builder must continue to improve his product if for no other reason than to stay ahead of his competition.

Here on the High Plains the results of a conservative public, short supply of skilled craftsmen, limited variety of materials in lumber yards, rigorous climate, uncompetitive loaning agencies and the type of builder who is content to sell what the public accepts (last year) are quite apparent in

Please turn to page 24

Pacific Architect and Builder

MARCH BPA 1956

WITH CONSTRUCTION NEWS BULLETIN

VOLUME 62 NUMBER 3

Published by
Pacific Builder and Engineer, Inc.
Established 1902

MAIN EDITORIAL AND BUSINESS OFFICE
2418 Third Ave., Seattle 1, Wash.
Phone MAin 0285

N. B. Chapin — President
John E. Miller — General Manager

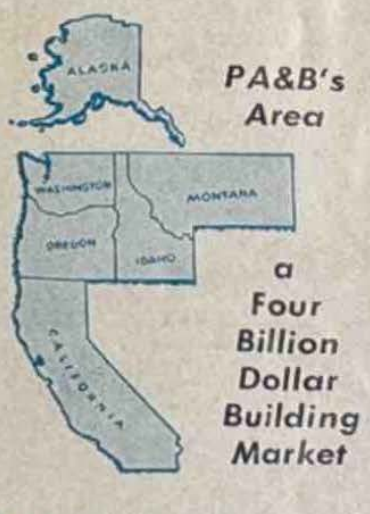
Phyllis E. Forth — Production Manager
Frances Eggan — Circulation Manager
Robert G. Hitchens — Director of Business Services and Circulation Sales

ADVERTISING
Main Office — Seattle
L. C. McDowell

MIDWEST ADVERTISING OFFICE
30 N. LaSalle St., Room 1240
Chicago, Ill.—Phone STate 2-3158
Charles W. Crandall — Representative

CALIFORNIA EDITORIAL OFFICE
24 White St., San Francisco 9, Calif.
Phone GRaystone 4-8532
Ken MacDonald — Contributing Editor

PORTLAND EDITORIAL OFFICE
1109 S.W. Fourth Ave.—Phone CApitol 3-1229
Win Romtvedt — Portland News Manager



PA&B's Area

a Four Billion Dollar Building Market

Roscoe E. Laing—Editor Bob Koehler—Associate Editor

Paul Nelson, assistant editor; Anne Hecker, editorial assistant; Joan Storey, research assistant

D. F. McCormick, editor, Construction News Bulletin

CONTENTS

Editorial: Speculative Home Builders vs. Architects—Round 2 8

Frank E. Hodge Residence: This House Makes the Most of the View—Seattle 10

Church of the Nativity: A Serene and Chaste Interpretation—El Monte, Calif. 14

Lou Johnson's Apparel Shop: Informal Elegance Matches Merchandise—Yakima, Wash. 16

UAW-AFL Office Building: L-Shaped Plan Is Answer to Site Problem—Beverly Hills, Calif. 17

Norman Hodgkin Residence: One Way to Hug a Hillside—Sausalito, Calif. 18

Moving Sidewalks and the Modern Shopping Center—*by A. E. Conover* 20

Building Methods: How a Contractor Beats Old Man Winter—Missoula, Mont. 21

DEPARTMENTS

Perspectives 6

Trends—News—Views 7

Editor's Notebook 8

Building Permit Tabulation 24

Building Bookshelf 27

T-square Talk 28

Materials, Products, Tools and Latest Literature 30

Builders and Suppliers 32

CONSTRUCTION NEWS BULLETIN

Building and Engineering News of the Pacific Northwest and Alaska 35

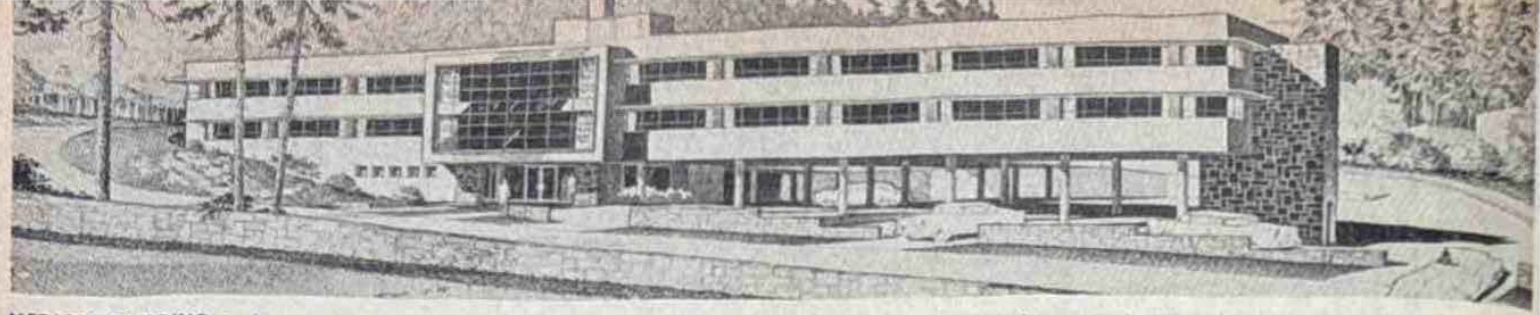
SUBSCRIPTION RATES—Payable in Advance

PACIFIC ARCHITECT AND BUILDER—3rd Saturday each month. $4 one year; $6 two years; $7 three years. Canadian $5, $8, $10. Foreign $6, $10, $13. Single copies, 35c. With CONSTRUCTION NEWS BULLETIN (2nd, 4th, 5th Sat.) $16, $24, $31, in U.S. and Alaska.

PACIFIC BUILDER AND ENGINEER—1st Saturday each month. $4 one year; $6 two years; $7 three years. Canadian $5, $8, $10. Foreign $6, $10, $13. Single copies 35c.

FOR NORTHWEST BUILDING AND ENGINEERING NEWS EVERY WEEK subscribe to all three (PA&B, PB&E, CNB) $20 one year; $30 two years; $38 three years. FOR FLASH ADVANCE DAILY SERVICE, read Pacific Construction Daily, $75 per year. Rates for U.S. and Alaska.

PACIFIC ARCHITECT AND BUILDER is published monthly by Pacific Builder and Engineer, Inc., 2418 Third Ave., Seattle 1, Wash., and is mailed on the third Saturday of each month. Price: $4 per year. Accepted as controlled circulation at Seattle, Wash.



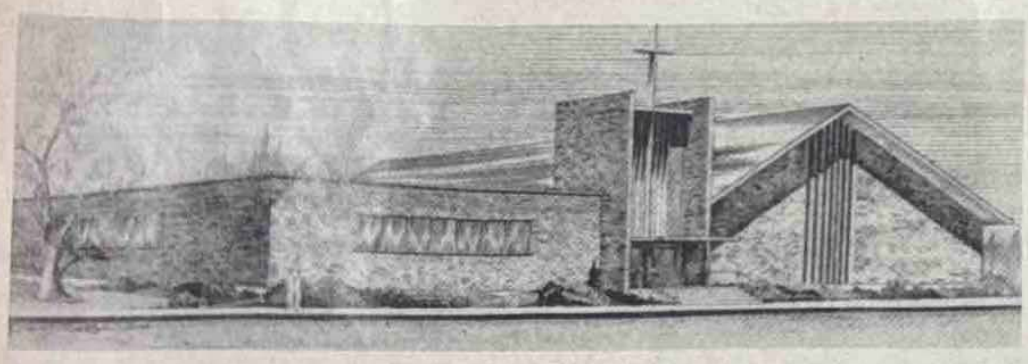
MEDICAL BUILDING to be constructed in Spokane for Carl M. Stolle & Associates will have office facilities for 30 doctors and 27,500 sq. ft. of space. Designed in flexible modules to house either doctors in suites or individual practitioners, $750,000 structure will be supported by reinforced concrete columns and will include concrete floors and roof. Other materials: ceramic veneer around main entrance, some local natural stone and marble in downstairs lobby. Architects are George W. Stoddard-Huggard & Associates of Seattle.

PERSPECTIVES

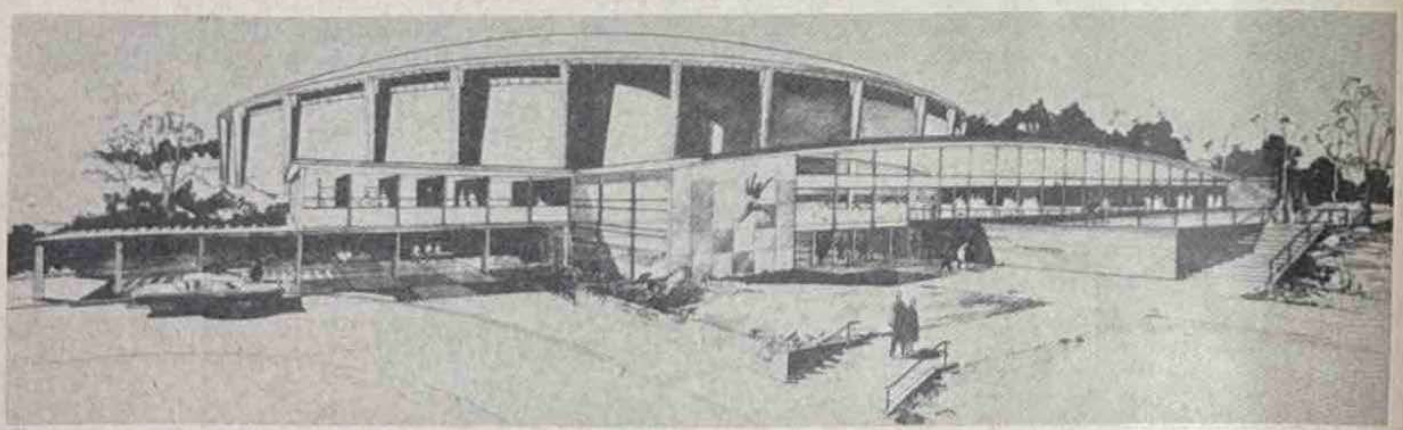
by Pacific architects

PROPOSED CIVIC AUDITORIUM for Santa Monica, Calif., would be multimillion-dollar structure of reinforced concrete and steel, with seating capacity of 2,750. Preliminary plans prepared by Welton Becket & Associates call for concrete grillwork extending above sheet glass walls of lobby, long reflecting pool at front entrance and covered walkway across entire front of building. Formal presentation of cost estimate and plans will be made to city council April 2.





REMODELING of existing church building for First Church of the Nazarene in Tacoma will include construction of sanctuary, social room, kitchen and classrooms. It will feature brick veneer exterior with wood trim, shingled gable roof and glued laminated arches. Robert F. Rathjen of Kirkland, Wash., is architect.



MONTANA STATE COLLEGE CAMPUS at Bozeman will be enhanced by health and physical education center, construction of which will get underway this spring. Architects Fred F. Willson, AIA, and Oswald Berg Jr., AIA, planned building, to include concrete block walls, concrete floors and beams, glued laminated ribs and purlins and aluminum dome. It will have swimming pool and seating capacity of 8,000 to 12,000 persons.

Building News - Trends - Views

THE STATE OF CALIFORNIA will be allowed to employ private architects and engineers if a proposed constitutional amendment is passed in the November general election. Latest group to endorse the amendment is the State Chamber of Commerce.

A NEW TYPE OF STEEL ROOF DECKING manufactured in Seattle is proving to be an innovation in school and light building construction. The decking is flat steel on the top surface with flanges extending downward to receive acoustical tile. A void between the decking and tile is used to conceal electric conduits. By a simple welding procedure, the entire roof structure is tied together and to the supporting beams. T Steel Corp. is producing the decking from galvanized sheets supplied by Bethlehem Pacific Coast Steel Corp.

CONSIDERATION OF A STRUCTURE as a whole rather than as a mere collection of interiors has made buildings more dynamic and interesting. So declared Bruce Alonzo Goff, head of the University of Oklahoma School of Architecture, addressing a building conference at Armour Reasearch Foundation of the Illinois Institute of Technology. "Although concepts may vary and architects may disagree, I think the overall tendency in architecture today is a growth toward making space more active by using it dynamically," he explained.

Reminding his audience that architecture is a principle, he declared that "because we have so many outstanding designers today, there is a tendency to think of architecture as the work of only one or two men."

A chief engineer of Illinois Bell Telephone Co., appearing on the same program, charged that architects spend too much time worrying about aesthetics and neglect the practical aspects of buildings. He said that designers make sure there is adequate provision for such modern conveniences as air conditioners but forget to take into account communications systems. "We don't like to drape wires and cables all over the place," the engineer added.

IMMEDIATE PAST PRESIDENT OF NAHB, Earl Smith of El Cerrito, Calif., will lead a group of U.S. builders scheduled to arrive in Prague, Czechoslovakia, around June 1 for a month-long visit as guests of the Soviet Union in various areas of Russia. Smith was host to the group of Russian home builders who made a whirlwind tour of this country last year. He said that the U.S. builders are particularly interested in seeing examples of new Russian uses for concrete in residential construction.

ESTABLISHMENT of an architectural department in Oregon's State Department of Education is again a possibility. Sen. Lowell Steen of Umatilla proposed the plan, he said, because some architects are designing schools according to the district's ability to pay instead of the district's needs.

DISAPPEARANCE OF AGRICULTURAL LAND into industrial and housing developments has entered the political arena in Calif. Gov. Goodwin J. Knight told a San Francisco conference of some 450 people, sponsored by the California State Chamber of Commerce, that one-sixth of an acre of fertile land is taken from agricultural use and converted to housing or industry for every new person who comes into the state.

"This is an erosive threat to California," the Governor warned, "We lose more than 80,000 acres a year as a result." He told the meeting that some farm areas might be preserved by stiffer zoning regulations but that he believes such laws can provide farmers with only limited protection and that California cities will continue to expand into rural areas. The solution, Knight suggested, is to expand the state's irrigation facilities so that desert areas may be converted to agricultural usage through the construction of new dams and huge waterways.

Andres Oddstad, northern California home builder, told the group that "I never cease to marvel at the knowledge farmers have of the subdivision possibilities of their land." As he finished talking, at least a dozen farmers present asked Oddstad for his business card.

THE LARGEST FEDERAL OFFICE BUILDING outside the Washington, D.C., metropolitan area has been proposed for San Francisco. Congress has received a recommendation for the construction of a new U.S. courthouse and federal office building at an estimated maximum of $45,300,000 for the site and structure, to be financed by lease-purchase. It is proposed as a multistoried air conditioned building with nearly 1,600,000 sq. ft. of floor area, located in or adjacent to the area which the community has planned for a civic center.

NEW RELIGIOUS BUILDING CONSTRUCTION in the U.S. since 1945 has been estimated at $3,895,000,000 by the American Association of Fund-Raising Counsel. Total religious assets are believed to exceed $11 billion.

THE COST OF ALL-YEAR COMFORT, now being determined in a nationwide test, will run close to a target figure of $10 per month, according to the first progress report issued by the test sponsor. Houses of average size —1,200 sq. ft. of air conditioned floor area—submitted so far from 11 cities, ranging from Minneapolis on the north to Jacksonville and Phoenix on the south, indicate a predicted annual fuel and power cost of $125.68 against the target of $120. Owens-Corning Fiberglas Corp. is conducting the test program.

In another survey completed by Worthington Corp., the average operating costs for air conditioning per year in the western area was reported to be $87.50.

A NEW WOOD INTERIOR PARTITIONING SYSTEM, approved by the FHA, combines flush 2-in. hollow core hardwood plywood panels with hardware to make every wall a potential storage unit.

A HOUSING CONSTRUCTION BOOM dwarfing the one of the past 10 years is due to start in the early 1960s. W. E. Griffee of Portland, assistant secretary-manager of the Western Pine Association, told a logging conference last month that, "when the wartime babies now crowding our schools begin to marry, our country almost certainly will have to build two million houses a year."

A WEST COAST CITY PLANNER and former redevelopment official, James E. Lash, has been appointed executive director of the American Council to Improve Our Neighborhods. He has been serving as chief of the West Coast office of Harland-Bartholomew & Associates, city planning consultant firm with headquarters in San Francisco.

A PREFERENCE FOR WOOD KITCHEN CABINETS was expressed by 93% of 3,900 prospective home buyers surveyed recently by a Los Angeles management consultant firm.

From the editor's notebook . . .

CONGRATULATIONS: To Weyerhaeuser Timber Co for selecting architecture to lead off its "Your Career" series of 13 weekly half-hour TV programs of vocational guidance for high school youth and their parents. The show was seen in Seattle and three Oregon cities—Portland, Eugene and Medford—on Sunday, March 4. We also were pleased to learn that the final program will be devoted to another subject close to our heart: journalism.

* * *

ARCHITECTURE—USA: Speaking of films reminds us that we enjoyed "Architecture—USA" which by now a good many of our readers undoubtedly have had an opportunity to view. We felt that the presentation in general was interesting and representative of contemporary design; that it was strongest in its examples of commercial buildings and weakest in churches. But above all, the reactions we have heard indicate more than ever how architects themselves disagree on what is "good" contemporary design.

* * *

ABOUT THE SMALL FRY: Addressing a child guidance group a few months ago, a southern California architect offered some pointers to parents thinking of building or remodeling to accomodate new additions to the family. Rolf Sklarek, AIA, might very well have been talking to his colleagues.

The designer emphasized that children's interests and consequently their requirements change—a simple statement which doesn't seem quite so obvious when you visit many family residences or study the floor plans. Above all, he said, don't duplicate nursery school and its equipment at home. Would father like to come home to a house which looks like a factory or an office? Other pointers:

Adequate space is important. One plan that has worked successfully is to make the corridor that passes by the children's room to the master bedroom serve as a play passage by increasing its normal width to perhaps 6½ ft. Experience indicates that the typical divided playroom-bedroom does not work out.

Hillside homes are for adults. They fail to offer children the outdoor space they need to play in. They have no sidewalks on which to roller skate, no adjoining backyards to pass through.

The pretty decals, wallpapers and other gimmicks are cute but such "romantic crutches" are not so important to children.

Speculative home builders vs. architects: round 2

OUR JANUARY EDITORIAL evoked more comment than any other we have published since the new Pacific Architect and Builder came into being in July 1954. Edward P. Miller pulled no punches in outlining "What Speculative Builders Expect of Architects." The Tacoma, Wash., tract developer himself later admitted that "somehow it sounded much harsher in the reading than it did when being written."

We were fully aware, of course, that readers would take exception to such statements as: "The average home designed by an architect costs more to build than a plan of the same floor area worked out by the builder." What really surprised us was the nature of the responses received. The retorts were not emotional outbursts but carefully thought out statements, both by architects and builders. Several representative samples are found in this issue in "Letters to the Editor" beginning on page 4.

The replies by speculative builders were especially gratifying. They talked, for example, about **upgrading** rather than just **providing** shelter. And a few of his colleagues even took Mr. Miller to task for declaring that "we in the home building business do not feel that education is our job."

A number of architects, on the other hand, while not agreeing with the writer straight down the line, admitted that in certain areas the builder had recited more truth than poetry. But they were quick to defend their professional brothers, emphasizing that a good many of them have come down from the ivory tower to face the practical building facts of life.

* * *

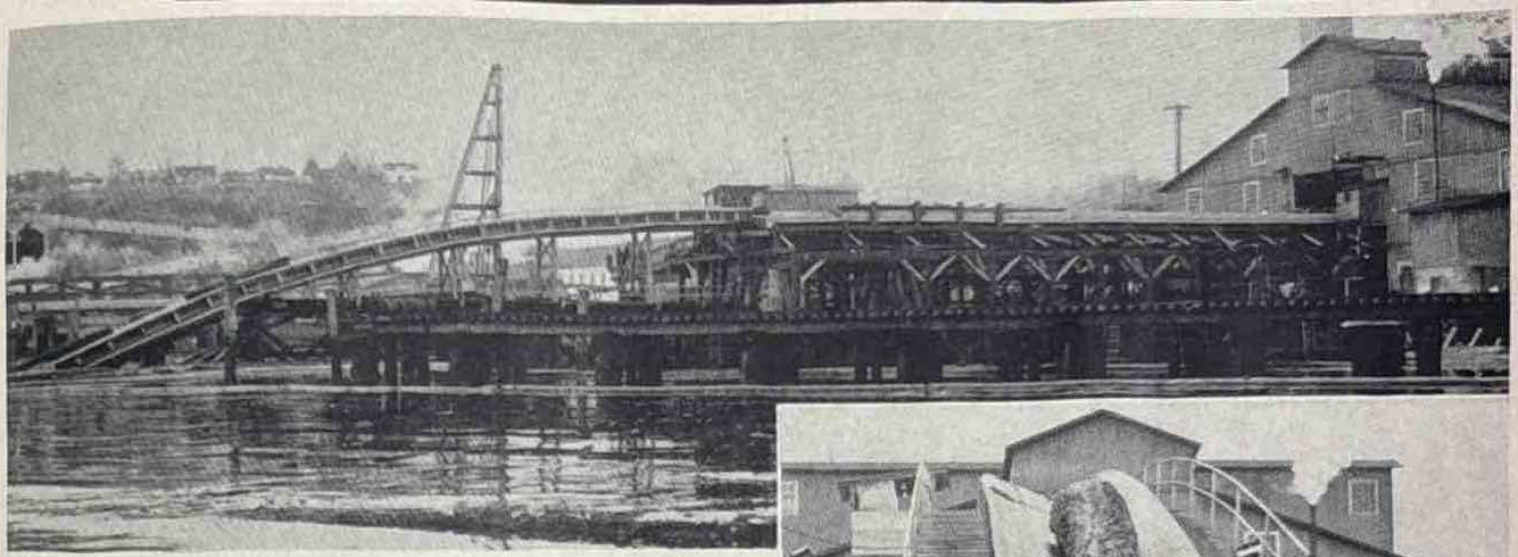
The editorial produced another encouraging response. An architectural student who has worked for a stock-plan service organized some of his thoughts for PA&B, explaining: "I am extremely interested in the architect's role in the home building industry and feel that it should be more strenuously promoted to insure against future run-of-the-mill developments."

We have printed the student's remarks on page 4, not because they are profound observations but because we feel they reflect a healthy state of mind. Here is one collegian, at least, who has his feet firmly planted on the ground. The situation he writes about in Montana is more pronounced than that found on the Pacific Coast, California in particular.

* * *

Editorially speaking, this is likely the last we will have to say about the topic for some months. For those readers who have suggested that we might perform a service by strengthening the speculative builder-architect relationship, we can only say we intend to move in just that direction. We anticipate featuring occasional architect-designed builder homes and developments; and we will always have an open ear for all members of the building industry who want to speak their mind.

ANOTHER EXAMPLE OF CARCO "One Stop" STEEL SERVICE



THE HEART OF SIMPSON'S NEW LOG HAUL IS CARCO FABRICATED STEEL

Typical of the Simpson Logging Company's continuing investment in more efficient machinery and methods is a new log haul installed at its large sawmill Two in Shelton, Washington.

The new log haul was designed in two sections. The first section conveys logs from the water to the level of the operating floor of a new central barker plant which Simpson is installing to serve its sawmills and plywood plants. At this point, logs are diverted to the barker for removal of bark, or, if a log is over 60 inches in diameter, it is transported directly to the second section which carries it to the sawmill. Logs passing through the barker are returned to the water or transferred to the second section of the log haul and carried to the mill.

The first section is approximately 150 feet long on the sloping part with a 48 foot horizontal run at the top. The lift at extreme low tide is 43 feet and at extreme high tide is 23 feet.

The second section is a horizontal run that is approximately 175 feet long.

The maximum log size that can be handled is about 7 feet in diameter and 24 feet long. A log this size will weigh around 18 to 20 tons. Smaller logs may be as much as 42 feet long. The capacity of the new log haul will vary due to log size but will average about 500 to 550 logs per 8-hour shift based upon an average log size of 30 inches in diameter and 34 feet long.



Consulting Engineer: W. H. Rambo, Portland, Oregon

Pacific Car fabricated and erected 110 tons of structural steel for Simpson's new log haul. Simpson engineers planned the installation so that part of the new equipment could be erected while the mill continued to operate on the old machinery. By careful timing, the new haul was completely installed with the loss of only five operating days to the mill.

The dependability of Carco performance in meeting tight fabrication and erection schedules, such as this, is one reason why Pacific Car's structural steel facilities have become the largest in the Northwest.

Carco also offers buyers of structural steel a "one-stop" service. This means money-saving ideas and suggestions, prompt engineering detail and estimates, fabrication and erection.

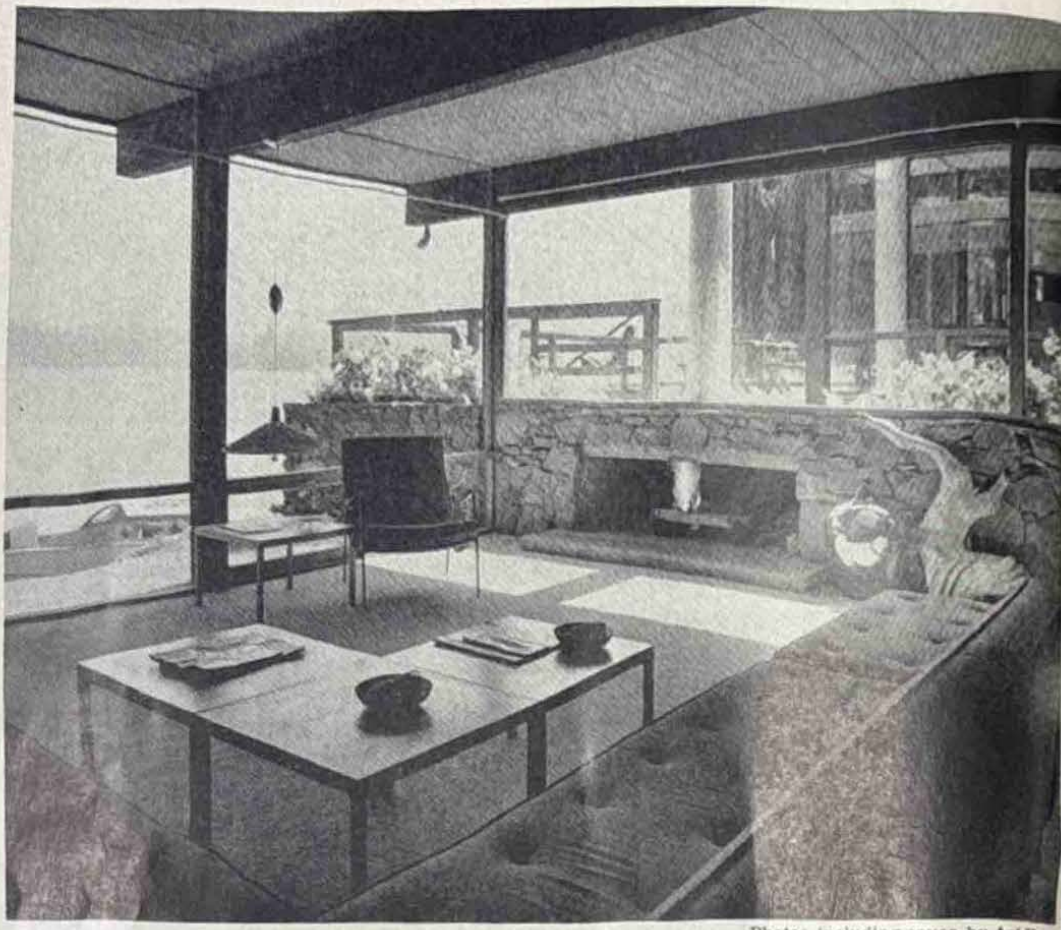
PACIFIC CAR AND FOUNDRY COMPANY

STRUCTURAL STEEL FABRICATION AND ERECTION, STEEL CASTINGS, FORGING, HEAT TREATING, MACHINING, HOT DIP GALVANIZING, TRACTOR EQUIPMENT: Winches, Hoists, Arches, Log Carts, Rigging.

CARCO®

STRUCTURAL STEEL DIVISION—120 W. HUDSON—SEATTLE 4—RAinier 5355 MAIN PLANT AND OFFICES—RENTON, WASHINGTON—OLive 4511

Waterfront house makes the m



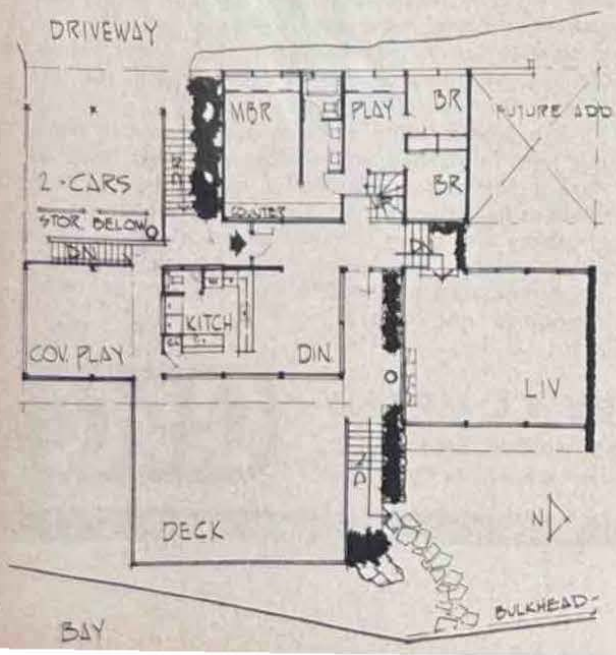
Photos, including cover, by Art Rupp

HOUSE IS BUILT virtually on four levels, providing marine view from just about every angle; note deck through window.

Frank E. Hodge Residence
Bellevue, Washington

DALE D. PEDERSEN, Architect

HUGH S. FERGUSON CO., Contractor

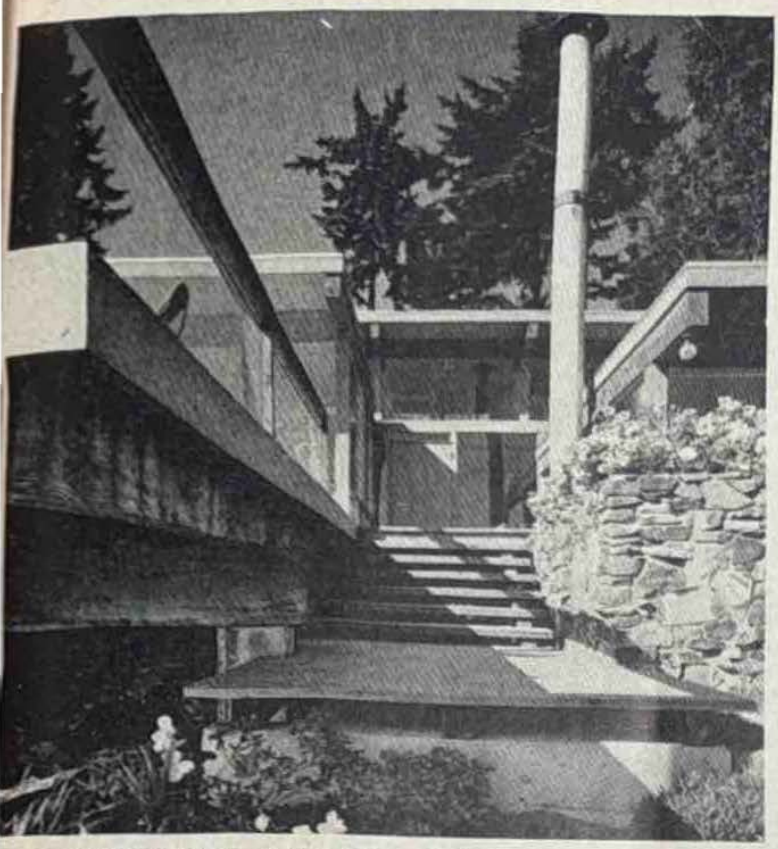


THE SITE for this home on Lake Washington's protected Meydenbauer Bay was ideal for the owner but difficult for the architect. The family thrives on the water; they can fish right off the deck which extends across the kitchen-dining area or go out in their boat; they have a fine beach and have built up a bulkhead with excavated rocks.

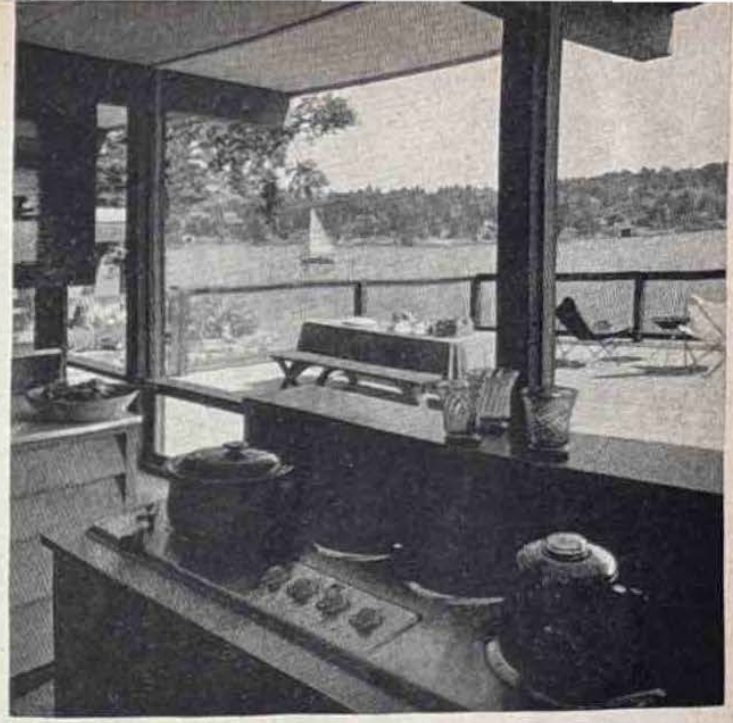
Finding a totally satisfactory architectural solution to the steep hillside lot was not an easy task. The clients finally selected the architect's plan of virtually four levels, having an 11-ft. fall from the carport to the marine front yard. The result: a view of the bay and mountains from every room except one.

The designer used materials and colors sympathetic to the natural setting amid the trees and water—predominantly stained fir, Mount Baker field stone and glass. Inside partitions for the most part are built-in cabinets and wardrobes.

of the view



FIREPLACE WALL of Mount Baker field stone seen at left becomes planting area on outside, leading down to waterfront.



COUNTER, with its drop leaf up, becomes breakfast-snack bar.

OUTLINE SPECIFICATIONS

Type of Construction: Post and beam.
Exterior Walls: Stained fir and Mount Baker field stone.
Roof: Fir t&g.
Floors: Concrete slab with cork tile finish and carpeting.
Windows: Stopped in wood.
Interior Walls: Fir and Mount Baker Field stone.
Heating: Oil fired hot water radiant system in slab.
Total Area: 2,400 sq. ft. (1,750 sq. ft., enclosed; 660 sq. ft., covered).
Total Cost: $30,000.
Date of Completion: August 1953.

Top on the list of design considerations were big living areas and facilities for extensive entertaining. The spacious, open plan on the several levels provided an answer to both. Adults can be relaxing in one area while the children romp in another.

Because of its nearness to the water, the house incorporates a covered play area which is partially enclosed and which the mother can supervise while working in the kitchen. The screened deck also affords another protected area for the children.

The Mount Baker field stone of the fireplace wall becomes a planting area on either side of the chimney on the exterior. The stone is repeated in several areas, including one end wall.

Expansion for the fifth member who joined the family since the house was built has been taken into account, as indicated in the future addition shown on the floor plan.

PLANTING AREA—philodendron and avocado trees produced from whole pits discarded in natural soil—provides interesting detail at foot of entry hall stair.



how you benefit today from the Kawneer Touch

The invention of resilient sash by the architect-founder of Kawneer, Mr. Francis J. Plym, revolutionized store front design. This was the foundation upon which Kawneer's expanding line of architectural products was developed and manufactured over its 50-year history.

The ability to put into these architectural metal products a certain "touch" has given Kawneer the opportunity to build products for all types of buildings. Today the greatly diversified line includes metal wall, flush doors, sun control products and other assemblies for big and little buildings, stores, offices, factories and schools. The Kawneer Touch offers you:

Eye-appealing metal finishes
—years of experience by skilled artisans are reflected in the lasting beauty of Kawneer products.

Large variety of stock shapes and models
—designed to be flexible and adaptable, yet retain design individuality.

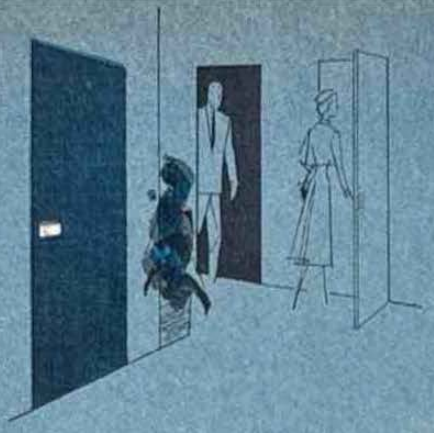
Precise engineering and production
—careful workmanship means less on-the-job erection time.

Continuous research and development
—always prepared to satisfy new architectural demands and needs.

"On-call" field representation
—over 110 representatives covering the nation and Canada, equipped through education, training and experience to assist you with any application problem.

Factory-trained dealer organization
—ready to serve with adequate inventories, prompt deliveries and skilled installation methods.

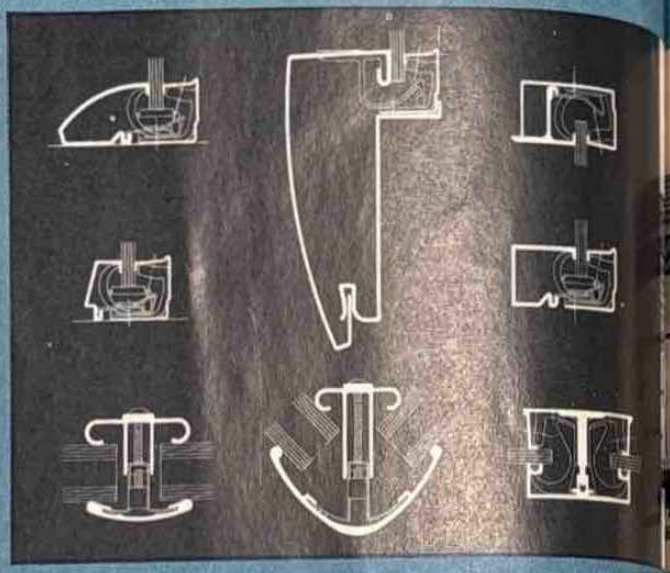
Nationwide network of factories and warehouses
—near your jobs to provide quick delivery to dealers, preventing costly delays.





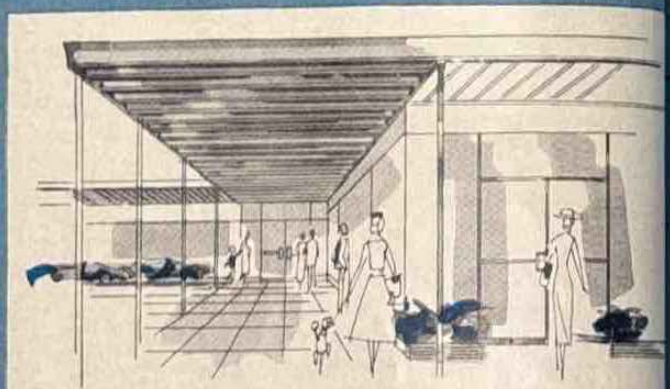
doors and entrances

To enhance the merchandising effect of an outstanding window display, Kawneer many years ago developed entrances that would invite the public to enter. Today the epitome of doors and entrances has been developed. Kawneer's narrow-stile, all-welded aluminum doors and shop-prefabricated interchangeable hardware . . . an exclusive innovation . . . enables complete flexibility and individuality of design.



resilient sash

An apparent need for a sash that would "give" with the flexing of glass prompted the city architect of Kansas City, Mr. Francis J. Plym, to invent the first resilient sash. Since this time in 1906 many Kawneer sash assemblies have been developed and patented to provide you with a maximum variety of members from which to choose.



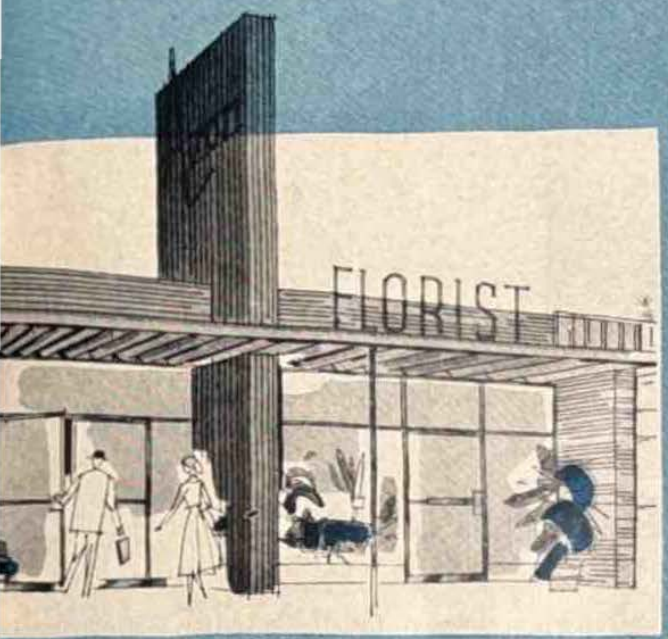
sun control products

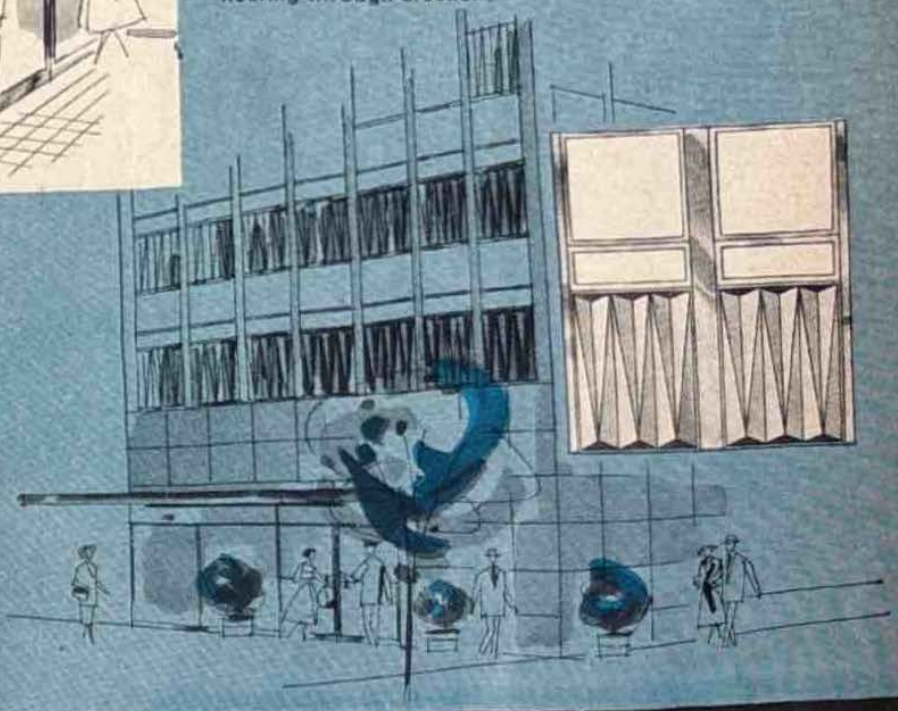
Rainy or blistering hot weather is an asset to the fortunate merchant who has protected his walk with a Kawneer Canopy. People run for protection, practically into his arms. Kawneer K-louvers, too, shield workers and students from hot sun rays and glare. Versatile and adaptable to all types of windows, buildings and latitudes, Kawneer Sun Control products are quickly erected and complement the building design.

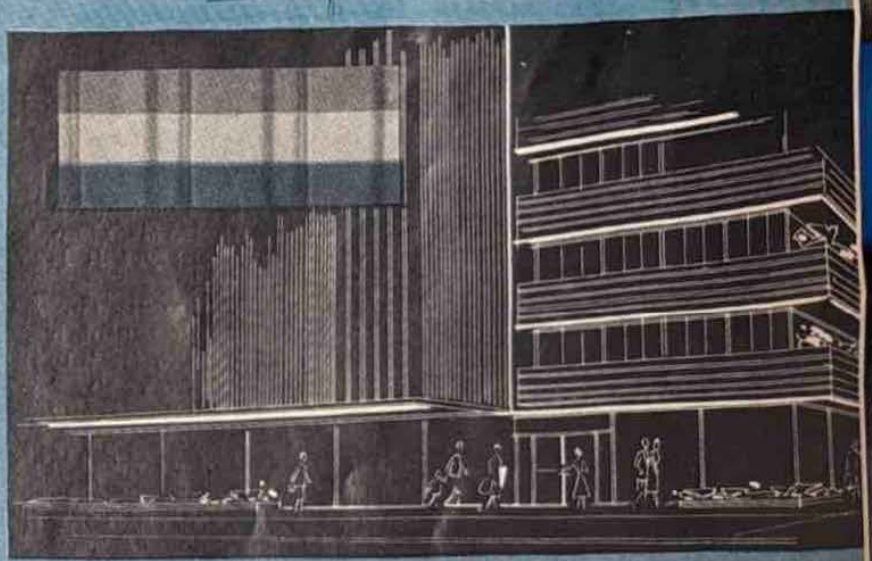


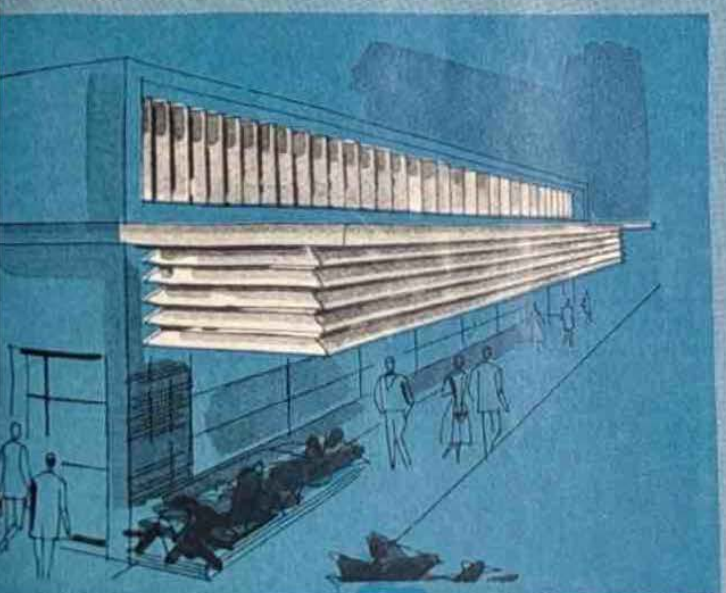
metal wall products

A pioneer in the fabrication of aluminum for buildings, Kawneer furnished many famous structures with windows and spandrels. Today the skills and abilities that went into the windows and spandrels of the Mellon Institute, the St. Paul City Hall and Court House, and the Boulder Dam Power House are still at work furnishing modern structures with a complete service of "one responsibility," from engineering through erection.









zourite facing

A crying need existed for a colorful, durable facing material. The exclusive Kawneer product, Zourite, was developed in aluminum with a porcelain enameled finish. Today the Kawneer Zourite product line includes 13 colors and 2 profile shapes—the narrow and bold.

50TH ANNIVERSARY

Kawneer

General Offices
NILES, MICHIGAN

ARCHITECTURAL PRODUCTS DIVISION

1906–1956



CONCRETE serves as finished wall surface, inside and out.

Church of the Nativity
El Monte, California

CHAIX & JOHNSON
Architects

BRANDOW & JOHNSTON
Structural Engineers

STEED BROTHERS
General Contractors

A serene and chaste interpretation

ALMOST STARTLING in its simplicity, this church for the Catholic Archdiocese of Los Angeles is completely void of all extraneous ornamentation; yet it is neither radical nor ultra-conservative in toto.

The structure is situated in a valley community surrounded by foothills which are so indigenous to southern California. Thus it was deliberately planned to fit into the rural atmosphere of a small town, in sharp contrast to the usual influence found in the average large city church.

The exterior strongly suggests the California mission although the architects did not attempt a direct reproduction of this type of architecture. Instead, their aim was to design with modern materials in order to construct with modern building methods a church which would truly reflect the simplicity and atmosphere of historic eras long dead. This is seen, for example, in the eaves and roof overhang of the facade.

With 10,635 sq. ft. of space, the church has a capacity of 900 worshippers and is built on concrete caissons of poured concrete construction with steel reinforcing. Except for the norman brick veneer facade, concrete was used as a finished wall surface, both inside and out.

The 33-ft. high side walls were poured in three subsequent lifts of concrete. By predetermining the size of panels used for forming lumber, then marking strips within the forms, an excellent pattern of form joists was achieved and the usually obvious pour lines were completely concealed.

The nativity mural above the stacked brick veneer entrance was executed by Margaret Montgomery in the traditional cloisonne method of enameling upon copper. It contains more than 1,000 pieces of copper, averaging about 6 in. in area.

The cross plan concrete tower, topped with an ornamental cross which stands 100 ft. above the ground, reins majestically over the surrounding countryside and supports a large bronze bell which was imported from Holland.

Inside, both transepts are flanked by stained glass windows which rise 11 ft. from floor to ceiling. They depict the mysteries of the rosary and were done by Jansen-Winkeln for Dr. H. Oidtmann of Linnich, Germany.

Tones from the general color scheme of putty, earthy browns and greens were used to soften the effect of the mural above the altar and to blend it into the background so as to integrate the painting of the nave and sanctuary of the church. Terrazzo floors throughout the nave, transepts and sanctuary are finished in large roman travertine aggregate and olive green cement matrix.

Interior paneling—confessionals, narthex walls and pews—are of bleached white oak; the communion railing of white marble and brass ornamentation; marble altars of white and walnut travertine and applied brass symbolism. Sanctuary fitments and mural, sanctuary lamp, altar furniture, pulpit, pews, baptismal font and gates, and light fixtures all were designed by the architects.

OUTLINE SPECIFICATIONS

Type of Construction: Poured concrete with steel reinforcing on concrete caissons.

Exterior Walls: Concrete with norman brick veneer facade.

Roof: Built up with natural color desert stone, rigid insulation and glued laminated beams.

Windows: Leaded stained glass inset in steel sash.

Doors: Ornamental metal, exterior; rift sawn white oak, interior.

Floors: Concrete, surfaced with terrazzo using roman travertine marble chips.

Interior Walls: Plaster.

Ceilings: Exposed structural 2-in sheathing between wood beams.

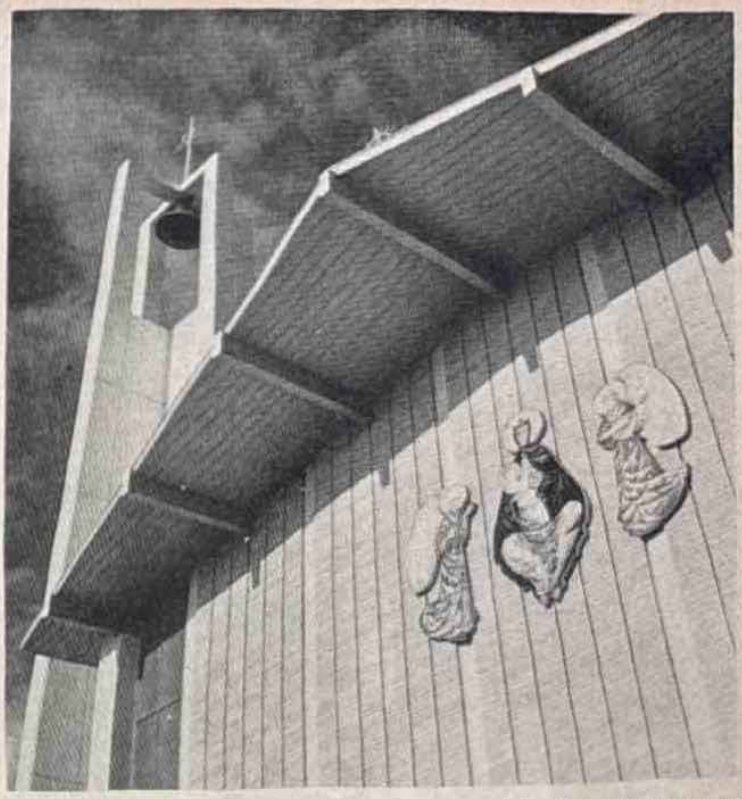
Heating: Gas fired forced air underfloor ducts.

Total Area: 10,635 sq. ft.

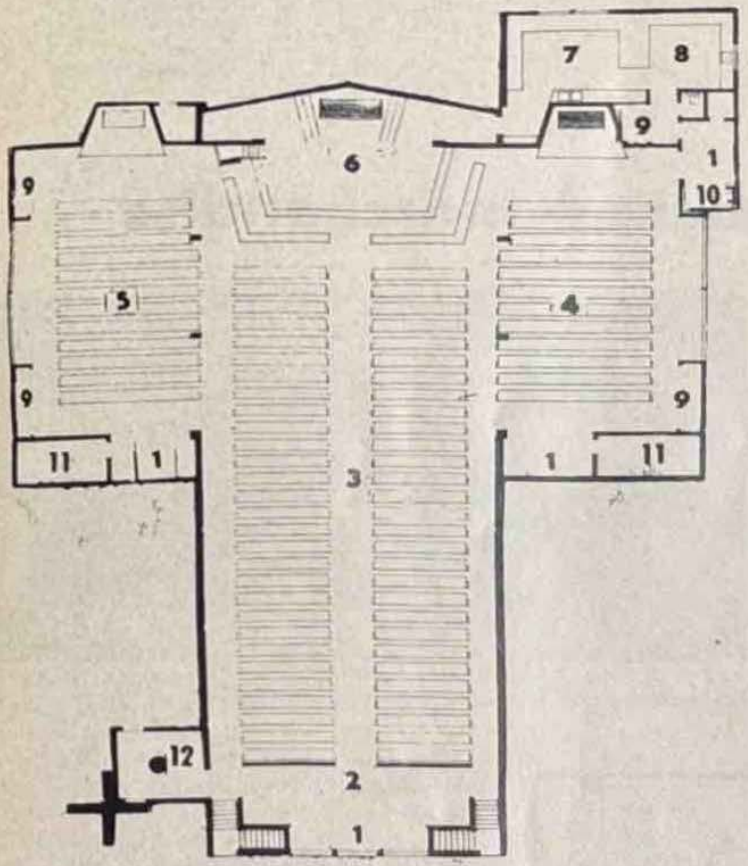
Total Cost: $154,293.

Cost per Square Foot: $14.32.

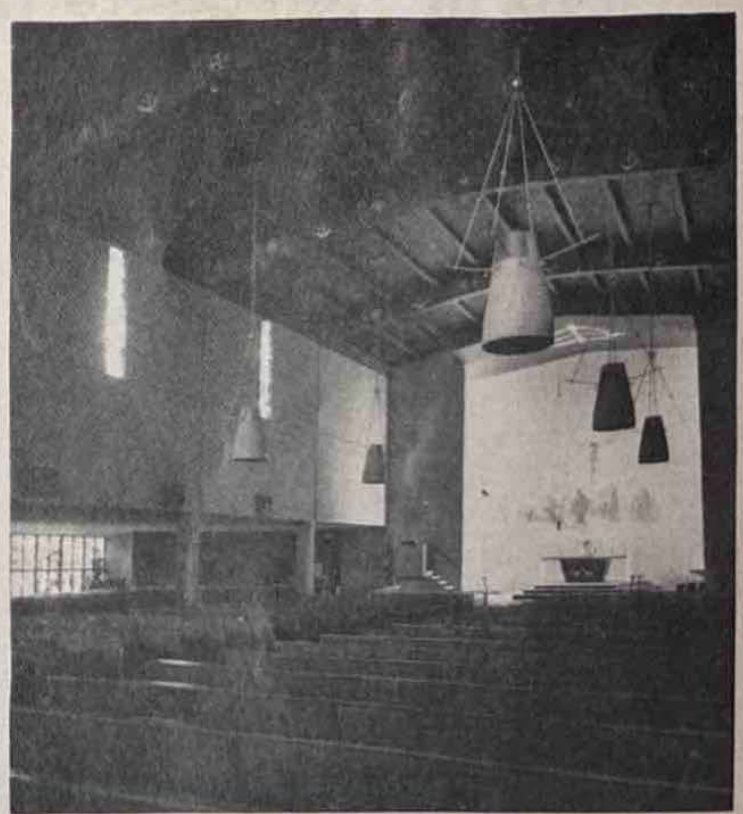
Date of Completion: January 1955.



NATIVITY MURAL above main entrance executed by Mary Montgomery using more than 1,000 pieces of enameled copper.



1. Entry
2. Narthex
3. Nave
4. N. transept
5. S. transept
6. Sanctuary
7. Sacristy
8. Workroom
9. Confessional
10. Lavatory
11. Heater
12. Baptistry



CONCEALED WINDOWS at both sides of sanctuary illuminate with sunlight vision-like mural depicting crucifixion scene above altar.



INFORMALITY is keynote of selling area in front of shop as seen in top photo while more formal decor prevails in gown salon at rear. Walls are paneled in birch (above) and mahogany (below).



Lou Johnson's Apparel Shop
Yakima, Washington

PLACING of stockrooms immediately adjacent to their respective sales areas was a major design consideration for this women's apparel shop which caters to high-style clientele in an eastern Washington city of 40,000 population. In addition, the office is conveniently located to all departments and beyond the section devoted to impulse items.

The spacious, open floor plan allows for informality in such departments as sweaters and lingerie in the front of the building and for a more formal atmosphere in the gown salon at the back of the shop. The store personnel is particularly pleased with the abundance of drawer space.

Five outside windows serve as showcases besides the large plate glass display areas across the front and on one side. Just inside the entrance a slate floor in a shell pattern—some pieces smooth and others rough—lends a patio effect, enhanced by philodendrons and other plantings.

Recessed lighting, waxed birch and mahogany paneling and gray carpeting give warmth to the shop. An element of interest in the gown salon is a chandelier executed by Travyo Tynell, Finnish designed. It represents a fountain with dull brass sprays and a leaflike pattern at intervals.

Informal elegance matches merchandise

OUTLINE SPECIFICATIONS

Type of Construction: Masonry on steel reinforced concrete footings.

Exterior Walls: Concrete block filled with concrete, brick, granite bulkhead and aluminum front metal trim.

Roof: Flat, built up, with Rockwool batt insulation.

Floors: Concrete slab with asphalt tile in service areas; slate in entry; carpeting in sales areas.

Windows: Aluminum and steel sash.

Doors: Herculite glass, entry; wood and Modernfold, interior.

Interior Walls and Partitions: Exposed concrete block and brick; wood studs with drywall and birch and mahogany paneling.

Ceilings: Trowled finish plaster.

Heating: Oil fired warm air furnace with Trane ventilating and air conditioning system.

Total Area: 7,000 sq. ft.

Total Cost: $107,000, including fixtures and architect's fees.

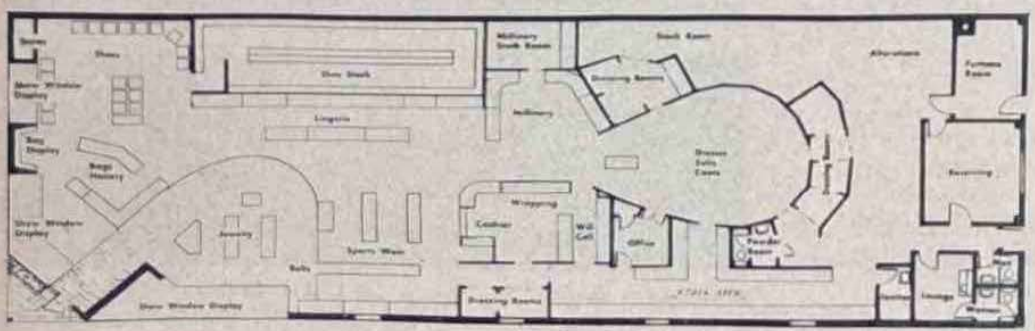
Cost per Square Foot: About $15.

Date of Completion: September 1955.



Photos by Charles R. Pearson

EXTERIOR features aluminum, brick and granite bulkhead.



THOMAS F. HARGIS JR., AIA
Architect

STEVENSON & RUBENS
Structural Engineers

ALEXANDER HARGIS
Mechanical Engineer

W. W. NETTLESHIP
General Contractor



Photos by Marvin Rand

EXTERIOR of one-story structure combines roman brick, wood and stone.



SPACIOUS LOBBY has terrazzo floors, plaster ceiling with inset lights.

L-shaped plan is answer to site problem

UAW-AFL Office Building
Beverly Hills, California

W. HARRY HILLIER, AIA, Architect
RICHARD R. BRADSHAW, Structural Engineer
JOHN REARDON & ASSOCIATES, Mechanical and Electrical Engineers
MOSS BUILDING CORP., General Contractor

A FAR CRY from the days when union leaders met in dingy back rooms is this $315,000 building where United Auto Workers-American Federation of Labor officers and members hold forth in quarters which are comparable to the most ultra-modern corporation offices.

The site, which is about 175 ft. square, is located at a busy intersection in a progressive commercial area dotted with office structures, mostly of contemporary design. An old building on the site included the main foyer and storerooms plus the base of the corner pylon. With these points already established, the architect prepared an L-shaped plan using a circular drive from street to street and an adjacent parking area accessible from the main thoroughfare and the center of the building.

The central foyer served as the nucleus for organizational planning. It is large enough to accomodate receptionists, telephone switchboard operators and information clerks, all lined up behind a massive natural wood curved counter.

Technical and research offices are located on the way to the north wing which houses luxurious hardwood paneled offices with private baths and dressing rooms for the union's president, vice president and their secretaries. The latter are pleased that they can control the flow of visitors to this wing. The east wing provides for the secretary-treasurer's suite, his secretary and space for accountants, the auditor's clerks and office machines.

The entire building has been designed to create an atmosphere of tranquility in sharp contrast to the rushing traffic outside. Extensive landscaping further enhances the overall effect.

Rising above the pylon, which houses a consulting office, is the organization's insignia, a dominant feature of the entire neighborhood.

OUTLINE SPECIFICATIONS

Type of Construction: Steel frame on spread footings.

Exterior Walls: Reinforced masonry, with roman brick, wood and Santa Anita stone.

Roof: Concrete slab.

Floors: Concrete slab with terrazzo in lobby, wall-to-wall carpeting in private suites.

Windows: Aluminum and soundproofed double glass block.

Doors: Aluminum and plate glass, exterior; hardwood slab, interior.

Interior Walls: Frame partitions, plastered; walnut, oak and other hardwood paneling and trim; some sections roman brick.

Ceilings: Acoustical pebbled plaster with asbestos fiber insulation.

Built-ins: Natural wood curved counter with Formica top.

Special Equipment: Formica paneled dressing room and bath walls with Formica table tops in natural woods for president and vice-president.

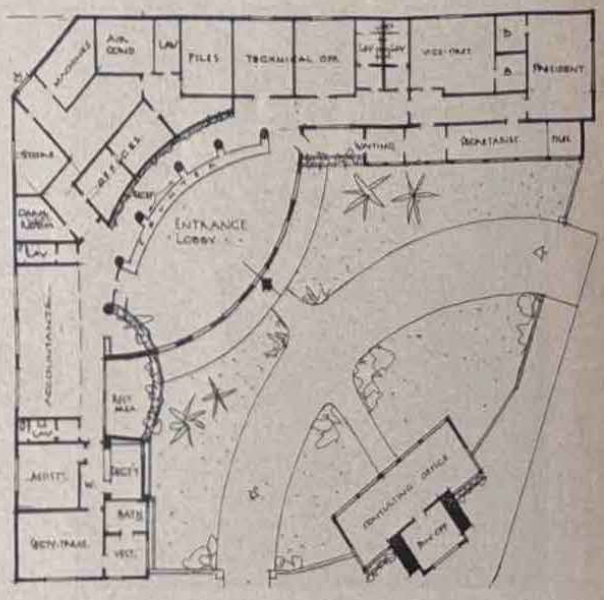
Lighting: Recessed spot lighting in general offices; recessed Plexiglas panels in ceilings of all private offices.

Heating: Forced air gas fired furnace.

Total Area: 10,500 sq. ft.

Total Cost: $305,000 (including $200,000 for construction, $10,000 for furnishings, $5,000 for landscaping).

Cost per Square Foot: $20 (based on construction only).

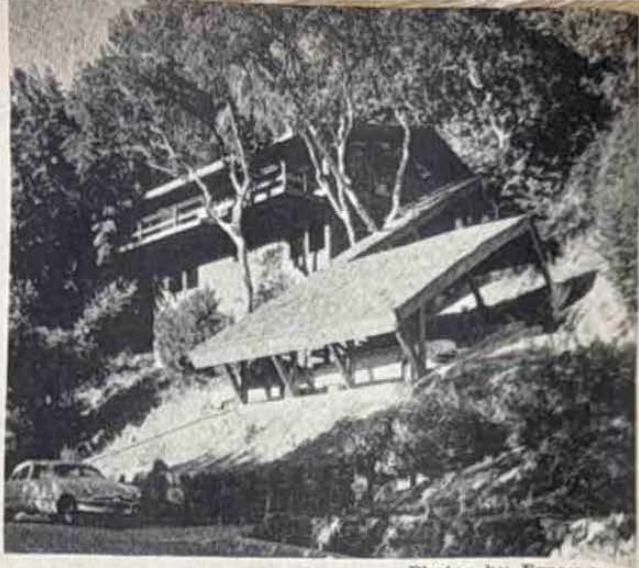


One way to hug a hillside

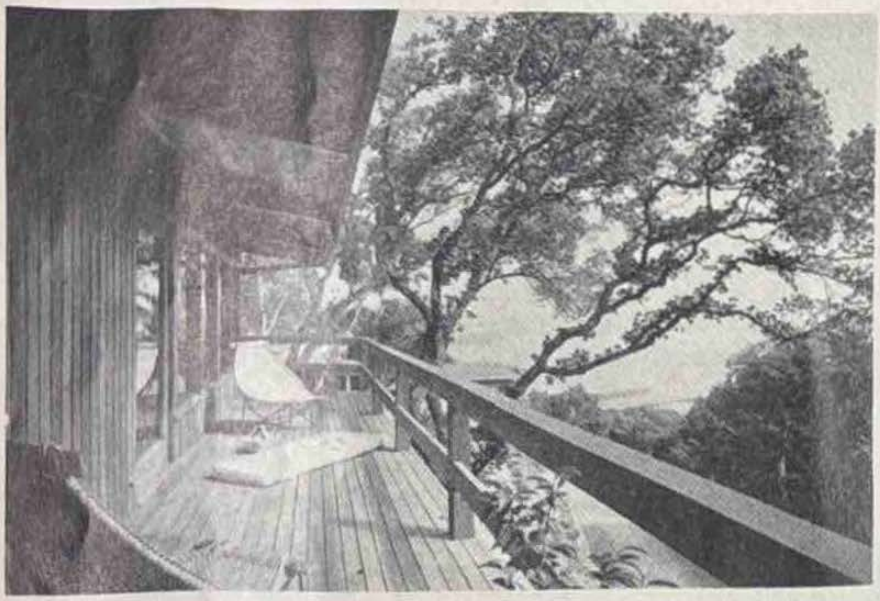
Norman Hodgkin Residence
Sausalito, California

CORLETT & SPACKMAN, Architects

MOSHER BROS. CONTRACTORS, Builders

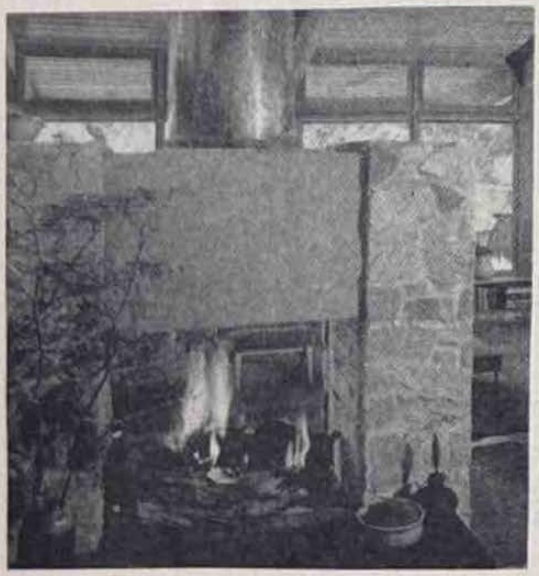


Photos by Ernest Braun



LIKE OTHER HOMES clinging to steep grades, this one has usual location of main living quarters on upper deck but design is unique in several respects. Note how roof of garage follows 55-degree grade and extends upward to form roof for breezeway. An 8-ft. deck runs along view side of house, off living room.

TWO-WAY FIREPLACE with industrial size copper flue is placed between dining and living rooms.



A UNIQUE concrete grade beam and concrete pier foundation system was devised by the architect to eliminate the high cost of conventional retaining walls and stepped footings usually necessary when a home building site is on a steeply inclined lot.

The hills which surround San Francisco Bay offer the prospective client magnificent views. However, the building boom of the past five or six years has eliminated most of the hilltops and gentle benches. View lots now available are steep and, in most instances, are modified cliffs.

The result of the desire for a view lot combined with the shortage of land has been that bigger homes are being built on the steeper lots and architects and builders have sought better foundations to give their houses a firm grip to the ground.

Such a foundation was achieved in the Hodgkins home. Resting on a 55-degree grade, it is anchored to the site with a reinforced concrete grade beam foundation system which transfers all vertical loads to four reinforced concrete piers 8 ft. in depth.

The architect contends that the conventional re-

taining wall type of stepped foundation is not only expensive but dangerous, inasmuch as subsurface water lets saturated earth build too much pressure behind such walls. In his foundation design for this house, the weight of the structure is carried on horizontal reinforced concrete beams on vertical reinforced concrete piers placed every 16 ft.

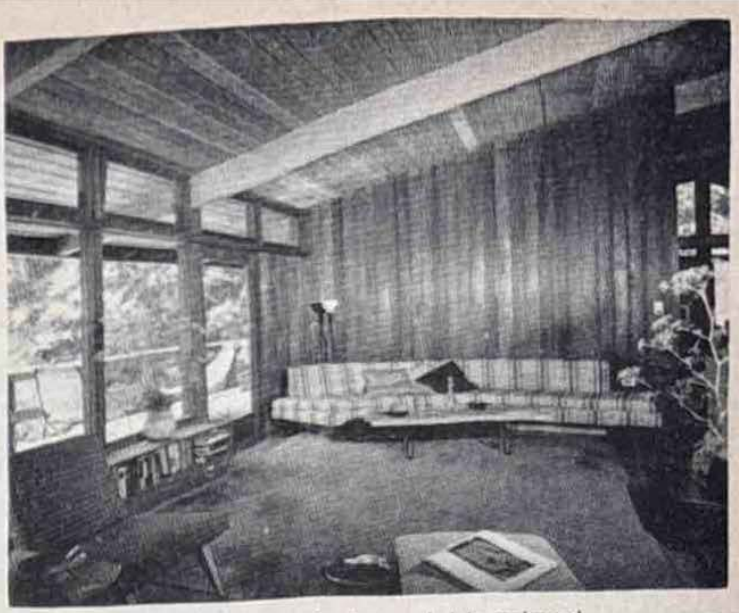
These piers extend 8 ft. into the ground, locking the entire house to the hillside. The $1,500 cost of all concrete and reinforcing steel is about half the cost of a concrete wall, according to the designer, and in his foundation, subsurface waters pass harmlessly between the piers and never build up pressure.

The garage roof parallels the slope of the lot. An extension up the hill forms a covered breezeway to the lower floor main entrance. The house and the covered areas total more than 2,500 sq. ft. and the construction cost ran to $11 per square foot.

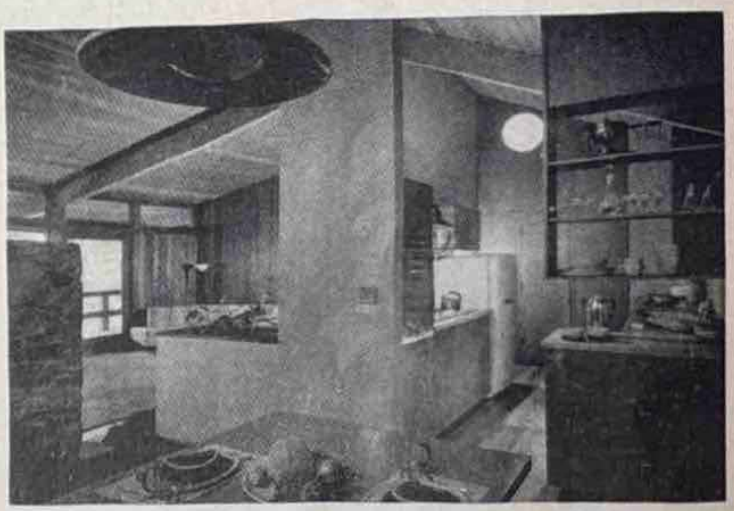
The home has two bedrooms on one floor, with sweeping views from the living and master bedroom areas. In addition there is a darkroom, hobby room and an unfinished area for a future guest bedroom and bath on the lower floor.

The washing machine and dryer are placed in the large bathroom, on the basis that this room is the principal source of soiled clothes and towels.

A good deal of stonework went into the two-way fireplace which serves both living and dining areas. Two stone piers support a cantilevered concrete hearth and a common brick throat covered with mortar. Above this mass is a copper flue, big enough to double the draft and long enough to rise through the roof, ending in a wind-driven draft ventilator.



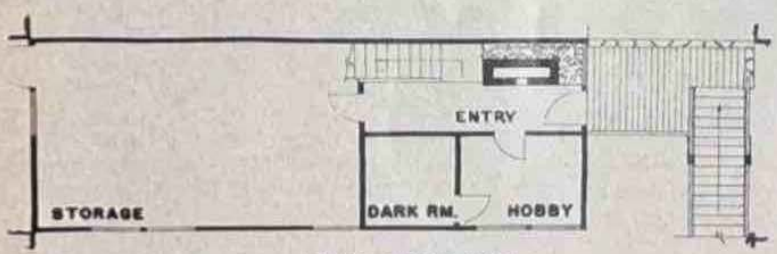
LIVING ROOM faces deck patio, is paneled in redwood.



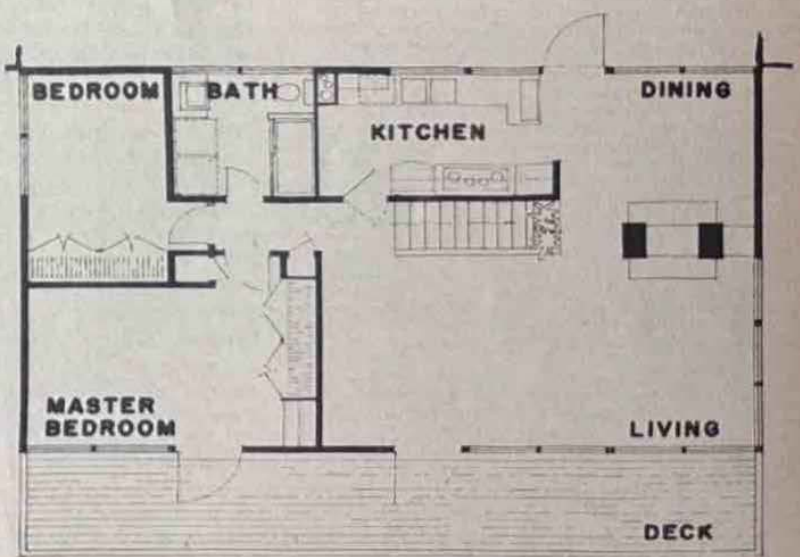
KITCHEN AT REAR is separated from dining-living area by Sheetrock wall. Oak plank flooring carries out rustic theme.

OUTLINE SPECIFICATIONS

Type of Construction: Frame on reinforced grade beam foundation system transferring all vertical loads to four reinforced concrete piers 8 ft. in depth; two levels.
Exterior Walls: Redwood.
Roof: Cedar shakes.
Floors: Oak plank and asphalt tile.
Windows: Plate and crystal sheet.
Doors: Flush, hollow core mahogany.
Interior Walls: Redwood paneling and Sheetrock.
Ceilings: Exposed 2x8-in. white fir.
Fireplace: Stone supporting cantilevered concrete hearth and common brick throat.
Heating: Gas fired warm air.
Total Area: 2,500 sq. ft.
Total Cost: $27,000, including carport, breezeway, built-in cabinets and stonework, but excluding architect's fee and land cost.
Cost per Square Foot: $11
Date of Completion: Fall 1952.



LOWER FLOOR PLAN



UPPER FLOOR PLAN

MOVING SIDEWALKS

and the modern shopping center

by A. E. CONOVER
Hewitt-Robins, Inc.

THERE was a time when moving sidewalks were thought of as first cousins to flying carpets. Now they are being given serious consideration in such places as airports, railroad terminals, auditoriums and shopping centers and we are confident that in the very near future they will be considered in the same category as elevators, escalators, air conditioning, self-opening doors and other such contributors to the convenience and comfort of the general public.

One of the applications, where the possibilities of a moving sidewalk can be most fully realized, is in large shopping centers. From the broadest point of view, it offers three assets which, while intangible, nevertheless can be of great importance.

1. **It can add materially to customer good will by contributing to his convenience and comfort.** Certainly, a housewife will feel better about buying an armful of purchases if she knows she will only have to walk a hundred feet or so to her car than if she thinks of that parking place she found with great difficulty way out there in the far corner.

2. **It has a tremendous influence on publicity and promotional activities, especially in these early days of its general use.** Remember, every single customer that walks through the doors of a new shopping center on opening day was someone else's customer the day before —a local neighborhood store's, or even another shopping center's. These enterprises can certainly be expected to put up a strenuous struggle to keep their old accounts. Taking advantage of every technological improvement that will contribute to good public relations adds just one more factor that will influence these new customers to keep coming back.

3. **Its contribution to the overall advertising program can be substantial.** Not only are moving sidewalks prime news items today but they also have qualities not found in other forms of advertising. They have continuity which newspapers and radio advertisements, for example, do not have and they do something for the customer, which billboards and illuminated signs, for example, do not do. Long after an individual ad is forgotten, the moving sidewalk is still there urging customers to shop the easy way and adding one more proof that this shopping center is really modern in every respect.

So much for generalities and intangibles. Specifically, one of the more important contributions that moving sidewalks can make in this field is in permitting the more logical development of the large shopping center area as a whole.

It is well appreciated that there is a limit to the distance that a shopper can be expected to walk between her car and the shops. The result of this limitation is that only properties of certain shapes are suitable for development as shopping centers and then the logical layout becomes a group of buildings and stores in the center of the area, completely surrounded by parking space.

With this arrangement, a casual passer-by, driving down the adjoining highway sees a group of stores in the distance but his attention is focused primarily on a large lot full of automobiles, or at least apparently full of automobiles, for even though a large percentage of the spaces are vacant, the general effect is one of crowded conditions. This certainly must have a discouraging effect on people who have not made the center a specific objective.

Furthermore, the stores are so far away from the road that there is no possibility of the merchants displaying any of their wares to passers-by and the whole aspect, cluttered up as it is with automobiles and traffic, presents a rather unsightly appearance to the general neighborhood.

Now suppose that the entire layout had been conceived with the potentialities of the moving sidewalk in mind. The buildings can now be arranged paralleling the main artery, say 50 ft. or more from the curb line with an intervening landscaped mall or esplanade. Window displays are visible from the roadway. There is nothing to indicate that the parking lot is or is not filled and the entire facade certainly presents a much more pleasing appearance. The complete parking area is located to the rear and if served by a systematic layout of moving sidewalks, customers do not have to walk as far as they would under the old arrangement.

Obviously, all previous limitations on the shape of property suitable for development, imposed by considerations of proximity of parking areas can now be scrapped. Moving sidewalks can shrink the boundaries of any parking lot and compress the length of any row of stores to reasonable, manageable dimensions.



WORKING MODEL of moving sidewalk developed by Hewitt-Robins is tested by employees and families.

To serve a parking lot with maximum efficiency, both incoming and outgoing walkways should be provided, running in a direction perpendicular to the parking lanes to facilitate access. They should have solid waist-high balustrades on both sides and be wide enough for two people abreast. The spacing of entrance and exit plazas will relate to the distance between parallel walkways and to the general shape of the lot. Moving sidewalks are available that can follow meandering paths and so course through an area so that all parts are tapped and no car will be more than 300 ft. from an entrance. Generally speaking, the inbound walkway should terminate as near as possible to the "center of gravity" of the shopping area.

For a completely integrated system, this parkway lot walkway of relatively high speed (132 fpm.) and with limited access should tie in with a "window shopping" moving sidewalk of relatively low speed (44 fpm.) and with practically unlimited access. The purpose of this walkway is to encourage free-flowing circulation of customers throughout the entire area so that there will be no undesirable locations for which maximum rentals cannot be obtained. This effect on gross income alone could well justify the cost of the moving sidewalk installation.

In any case, considering the price of a complete moving sidewalk system as a single item unrelated to the entire project is to obtain a distorted picture. If the annual charges against operation, maintenance and depreciation are related to the anticipated number of people who will use this facility, it will be found that less than a penny is being spent for the comfort, convenience and goodwill of each customer.

"One of the most important contributions that moving sidewalks can make is in permitting the more logical development of the large shopping center area as a whole."

How a contractor beats Old Man Winter

In Missoula, Mont., they do something about the weather with portable gas furnaces and plastic covered framework

PROBLEMS of winter construction in western Montana have been tackled successfully by the contractor on a $2,250,00 high school in Missoula.

Hightower & Lubrecht Construction Co. of Missoula figures it held the extra cost of work in cold and snow to between $4,000 and $5,000 while keeping the job going for all but a few days of a severe winter.

John E. Hightower, company president, believes the cost has been worth it to keep the firm's organization intact.

"We'll be ready to go onto another job in the summer," he comments.

Portable furnaces burning manufactured gas were used to heat sections of the building. Tanks of gas were spotted at various points outside the structure, which has overall dimensions of 638x482 ft. Rubber hoses piped the gas to the furnaces.

Work on the huge building was planned so that several trades were ready to work in heated sections at the same time.

Concrete pouring in temperatures ranging down to zero posed the biggest problem, especially on exposed floor slabs.

The concrete subcontractor, M&S Readymix, heated its 350-ton aggregate bins, used hot water in the mix and even preheated its mixer trucks in the shop. No water was carried in the mixer tanks on the coldest days; a careful check on the automatic moisture control in the batching plant made it unnecessary.

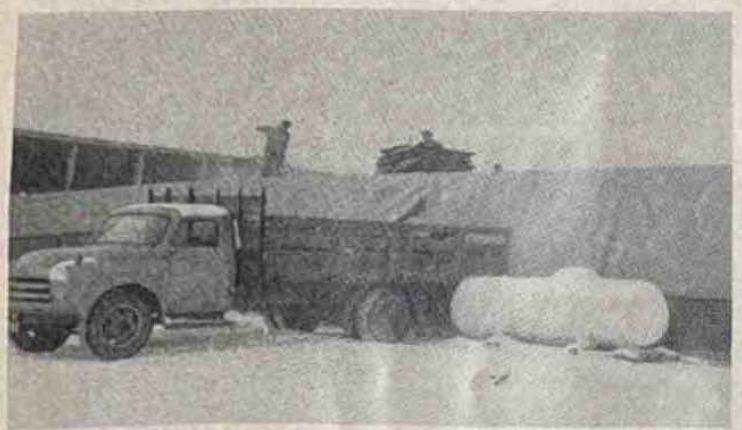
Even when the mercury dropped to 23 below, it was found necessary to add only 2% of calcium chloride. This gave a seven-day cylinder in three days and the speeded set provided enough heat to reduce protection needed.

Some exposed slab pours were protected by a temporary framework covered with Visqueen, a new plastic product furnished by Visking Corp. Plastics Division of Terre Haute, Ind.

The framework for the temporary roof was constructed in sections on the ground and lifted into place by crane. The sections were used several times.

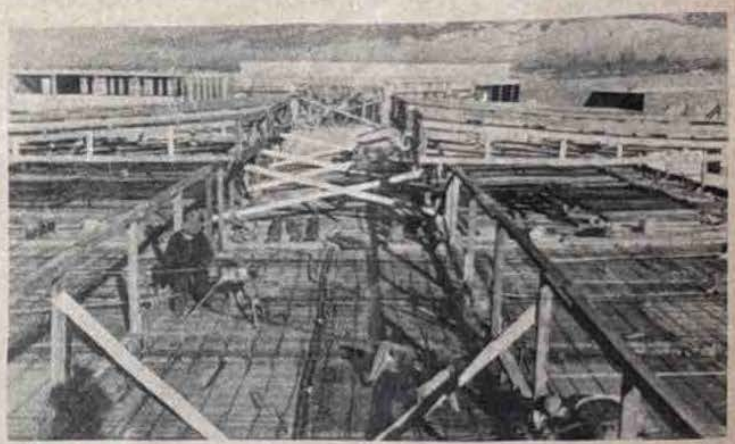
The plastic roof and canvas sidewalls enabled maintenance of 54- to 56-degree temperatures while the mercury hovered around zero outside.

Hightower & Lubrecht used about 15,000 sq. ft. of Visqueen at a cost

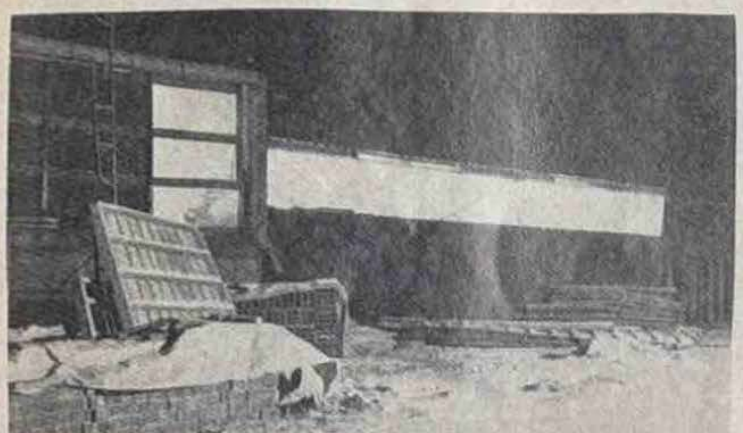


Photos by John A. Forssen

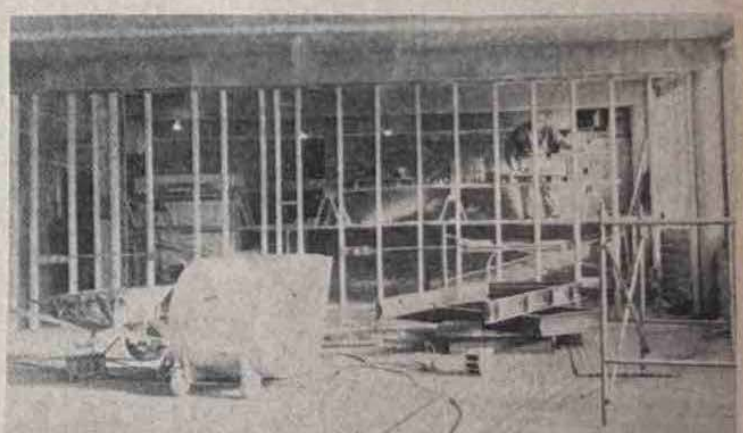
TANKS OF MANUFACTURED GAS are spotted around outside of huge building and gas fed to portable furnaces by rubber hoses. Roofers kept work going through most of winter.



TEMPORARY WOODEN FRAMEWORK being erected here was covered with plastic Visqueen to protect otherwise open large concrete slab pour in temperatures that dropped to minus 23.

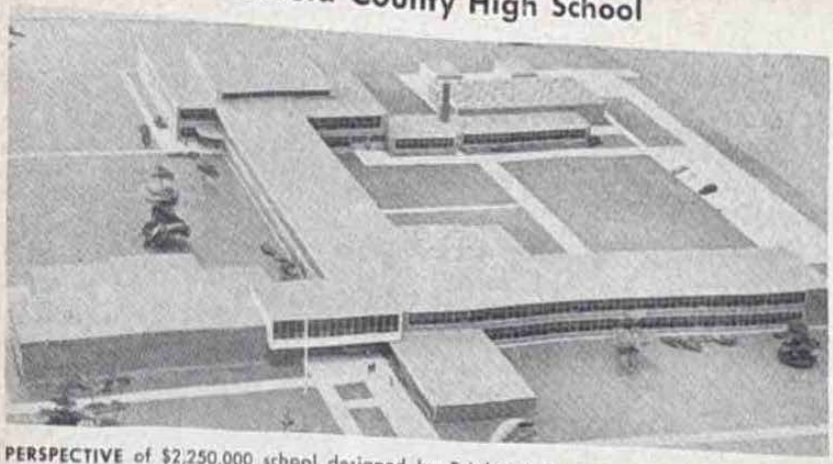


LIGHTS SHINE through plastic windows which were used in enclosing various portions of $2,250,000 school during winter construction.



PORTABLE FURNACE burning manufactured gas is seen in foreground. This photo was made without artificial light inside enclosed portion.

Missoula County High School



PERSPECTIVE of $2,250,000 school designed by Brinkman & Lenon.

The structure is of reinforced steel with a brick exterior. It will utilize 92 tons of structural steel, 402 tons of reinforcing steel and 7,500 cu. yd. of concrete.

Architects Brinkman & Lenon of Kalispell and Missoula have made considerable use of Rilco laminated wood beams in the cafeteria, shop area, stage and gymnasium wings. Longest span is 64 ft. in the cafeteria, which has a clear area of 64x74 ft. The longer laminated beams have a section of 7x32½ in.

The structural steel includes two trusses, 12 ft. long with 14-ft. chord, which key the gymnasium area. The trusses, weighing 13½ tons each, were raised with a 25-ton P&H truck crane of Hightower & Lubrecht.

The building, with 130,000 sq. ft., is being constructed at a cost of $9.80 per square foot, compared with a national school average of about $14.

of 2¢ per square foot. Canvas, at 13¢ per square foot, is not as good an insulator and is too heavy to be used for some purposes to which Visqueen is adapted, but canvas is more durable than the plastic.

When aluminum sash and glass failed to arrive, temporary frames were made and covered with Visqueen for windows on sections of the building to be heated, with the plastic admitting plenty of light for interior work and insulating well against the cold. The frames for the windows were constructed so they could be used again.

The weather posed other problems. Snow depths ranged up to 18 in. and a bulldozer was used occasionally to move snow so men and vehicles could operate around the building more efficiently. Plenty of brooming went into sweeping snow off forms and scaffolding. Men bundled in heavy clothes worked more slowly and less efficiently but roofers kept work going most of the winter.

Hightower & Lubrecht's general contract is for $1,448,120. Other contracts: C. W. Schmid Plumbing & Heating of Missoula, mechanical, $320,209; Allen Electrical Co. of Helena, electrical, $164,928; Brasch Masonry Co. of Spokane, masonry, $203,000.

FORMULA FOR HIGHEST VALUE IN BUILDING • •

Desirability divided by Price, equals Value.

REINFORCED

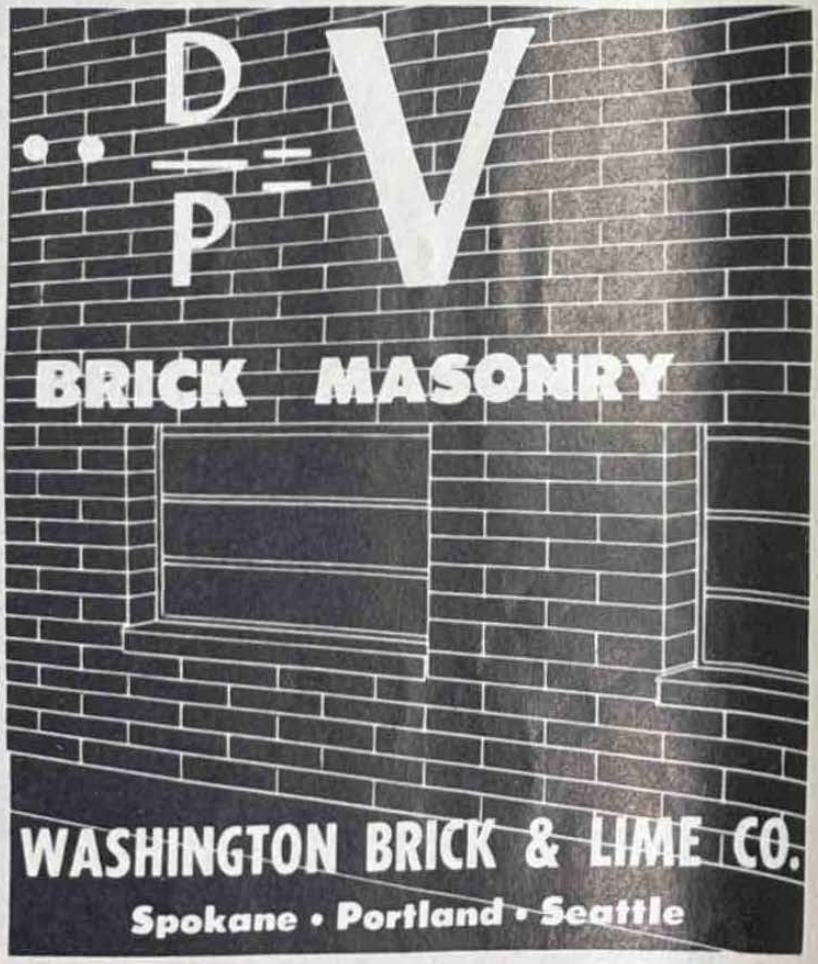
FOR + VALUES IN BUILDING

+1. Maintenance-free beauty of brick.
+2. Optional interior finishes — plaster, panelling, or face brick.
+3. Same structural wall at cost comparable to architectural concrete.
+4. Less structural steel required.
+5. Greater wall height without pilasters.

For the Future

Build Today With RBM.

Ask Your Architect!



A New Concept

IN STRUCTURAL STEEL FRAMING MEMBERS

IN THE SPAN RANGE UP TO 48 FEET

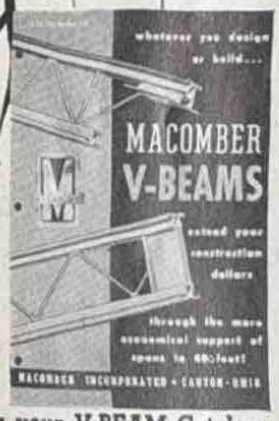
MACOMBER V-BEAMS

STRONGER • LIGHTER • MORE RUGGED

AN ENGINEER'S PRODUCT

The Macomber V-BEAM carries more load per pound than any other structural member, with greater reserve strength. Lateral rigidity is appreciably increased.

PERFORMANCE — proved by extensive Pittsburgh Testing Laborator tests — transcends all existing framing standards. If you want to extend your construction dollars through the more economical support of spans to 48 feet—the V-BEAM is your qualified framing member.



Send for your V-BEAM Catalog.

Shown above: Country Fair Shopping Center, Zanesville, Ohio. Don M. Castro and Don M. Castro, Jr., Developers. C. Melvin Frank, A.I.A. Architect.

THESE MACOMBER PRODUCTS HAVE BEEN PRODUCED UNDER CONTINUOUS RESIDENT INSPECTION PITTSBURGH TESTING LABORATORY

Contractors will recognize the extra value their money buys.

STANDARDIZED STEEL BUILDING PRODUCTS

MACOMBER INCORPORATED

CANTON 1, OHIO

• ENGINEERING • FABRICATING AND ERECTING •

NAILABLE STEEL JOISTS • LONGSPANS • BOWSTRING ROOF TRUSSES • METAL DECK • V-LOK STEEL FRAMING • STRUCTURALS

Building volume continues climb over 1955

AN INCREASE of 11% in dollar volume of building permits has been chalked up in the first two months of 1956 in a five-state area of the West. The total is $381,962,752 in California, Oregon, Washington, Idaho and Montana, as compared with $343,604,897 during the first two months last year.

Montana, with $1,840,061, shows the highest percentage of increase, 27%. California is up 17% with $325,995,729; Oregon is up 3% with $17,986,322. Washington is down 22% with $34,488,894; Idaho is down 6% with $1,651,746.

The total for the area for February is down from the total for January in a normal seasonal decline, but is higher than the figure for February a year ago. The February total was $184,435,405, down 6% from January, but up 5% over February 1955 and up 33% over February 1954.

Slightly more than half of the 116 agencies reported decreases from February 1955, but sharp jumps in several unincorporated areas brought up the total. Los Angeles County was up $4 million over the same period last year, Orange County, $9½ million; San Bernardino County, $7½ million; and Multnomah County, $2 million.

On a statewide basis, only California, up 11%, and Montana, up 53%, showed increases over last year. Oregon was down 5%; Washington, 23%; and Idaho, 37%. In comparison with January totals, California was down 8%; Washington, 3%; and Idaho, 5%; while Oregon was up 14% and Montana, 16%.

Following is a breakdown of building permits issued by several of the major agencies during February:

	DWELLING UNITS	COMMERCIAL & INDUSTRIAL	PUBLIC
Portland	107 ($ 1,245,685)	30 ($ 192,440)	
King County	422 ($ 4,395,795)	47 ($ 303,738)	4 ($346,000)
Seattle	498 ($ 3,724,380)	20 ($ 404,830)	2 ($ 14,925)
Tacoma	116 ($ 670,767)	34 ($ 356,381)	17 ($774,656)
Los Angeles Co.	1664 ($18,978,829)	211 ($4,174,860)	
Orange County	1157 ($16,357,253)	33 ($ 236,731)	5 ($161,550)
Sacramento Co.	366 ($ 3,042,959)	60 ($ 411,151)	18 ($909,333)

Building Permit Totals for 116 Western Agencies for February 1956

CALIFORNIA	Feb. 1956	Jan. 1956	Feb. 1955
Alameda County	$ 3,073,247	$ 1,850,500	$ 2,071,713
Anaheim	2,728,865	4,000,780	3,367,677
Bakersfield	998,505	1,785,776	2,871,804
Burbank	1,889,845	1,423,136	1,380,410
Contra Costa County	2,953,309	1,598,226	2,958,272
Fresno	957,218	1,080,495	2,035,500
Fullerton	2,678,302	877,725	2,791,651
Glendale	1,023,989	2,847,514	649,935
Inglewood	1,130,527	362,731	1,533,806
Long Beach	2,796,945	2,477,040	5,301,880
Los Angeles	31,354,360	40,100,044	30,855,226
Los Angeles County	27,286,946	31,665,362	23,257,460
Oakland	2,430,943	2,215,897	1,935,227
Ontario	1,534,989	1,619,999	860,982
Orange County	17,040,739	16,592,273	7,590,796
Palo Alto	1,934,001	556,852	2,243,384
Pasadena	1,428,545	1,555,659	1,434,464
Pomona	1,184,943	2,351,965	867,201
Richmond	386,219	2,017,289	845,552
Riverside	1,963,363	1,685,000	967,680
Sacramento	1,922,035	5,953,771	2,587,409
Sacramento County	4,603,213	3,014,936	4,682,681
San Bernardino	1,510,587	1,439,217	1,101,628
San Bernardino County	12,032,212	5,259,980	4,342,427
San Diego	6,394,897	3,999,674	9,183,472
San Diego County	3,992,740	2,649,070	2,300,847
San Francisco	2,997,217	9,608,039	4,744,284
San Jose	2,496,010	3,470,165	1,987,710
San Mateo	925,250	329,353	1,541,317
San Mateo County	1,324,412	1,629,095	2,561,211
Santa Ana	1,912,705	2,574,190	2,686,696
Santa Monica	895,142	642,568	1,018,974
Stockton	763,012	757,204	686,008
Sunnyvale	879,150	481,885	1,017,900
Torrance	4,055,361	7,609,226	1,563,203
West Covina	1,727,665	1,408,725	2,287,105
TOTAL	$156,104,388	$169,891,341	$140,295,492

OREGON	Feb. 1956	Jan. 1956	Feb. 1955
Albany	$ 94,600	$ 70,625	$ 173,900
Astoria	50,150	16,448	18,908
Baker	18,930	7,160	8,500
Coos Bay	12,740	26,395	56,870
Corvallis	147,890	128,680	105,025
Eugene	587,438	641,347	523,948
Grants Pass	381,140	303,885	137,000
Gresham	26,200	37,200	264,300
Hillsboro	22,650	38,281	55,550
Klamath Falls	81,150	32,200	57,540
LaGrande	10,275	6,725	18,650
Lane County	450,185	391,930	557,750
Medford	301,027	166,140	324,770
Multnomah County	3,782,310	1,901,990	1,874,108
North Bend	31,364	44,610	52,535
Oregon City	74,985	57,100	25,950
Pendleton	69,250	82,000	425,550
Portland	2,412,030	3,499,560	4,583,045
Roseburg	141,468	155,445	116,347
Salem	725,508	664,886	581,900
Springfield	90,455	55,050	114,100
The Dalles	61,956	32,269	43,312
TOTAL	$ 9,589,276	$ 8,397,046	$ 10,196,523

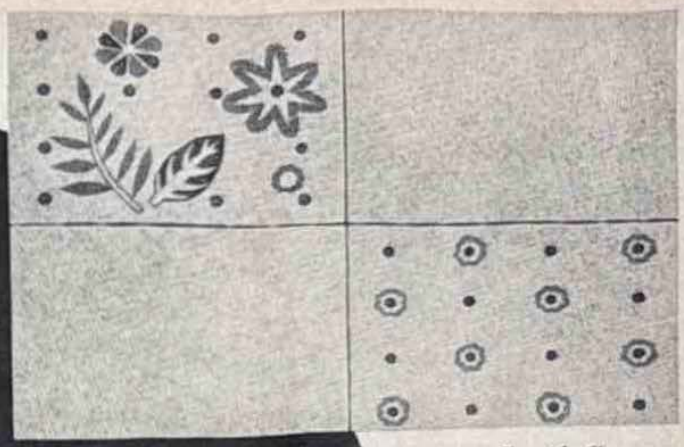
WASHINGTON	Feb. 1956	Jan. 1956	Feb. 1955
Aberdeen	$ 121,348	$ 49,755	$ 52,850
Anacortes	92,420	31,715	144,344
Auburn	57,940	24,045	78,800
Bellingham	903,840	356,532	162,781
Bremerton	91,768	65,734	98,327
Centralia	37,630	42,660	81,681
Chehalis	35,465	23,153	12,562
Clarkston	52,947	98,600	47,465
Ellensburg	10,600	2,500	652,324
Ephrata	3,950	335,451	208,200
Everett	242,575	252,996	206,100
Kelso	32,600	9,100	11,900
Kennewick	94,150	187,375	377,500
King County	5,045,533	3,627,846	6,736,488
Kirkland	32,000	45,150	88,400
Longview	242,404	195,209	237,832
Moses Lake	95,762	449,623	232,717
Olympia	142,660	378,081	481,914
Pasco	141,150	75,150	343,202
Pierce County	1,031,062	915,200	1,347,450
Port Angeles	65,700	32,995	58,200
Puyallup	142,776	819,845	128,760
Ritzville	31,800	15,000	8,400
Seattle	4,371,350	4,701,070	4,871,973
Shelton	33,800	35,125	38,000
Spokane	929,337	1,820,990	1,303,942
Spokane County	747,995	1,095,497	1,376,150
Sumner	26,199	26,450	44,000
Tacoma	1,160,286	1,169,383	1,174,100
Vancouver	714,829	411,267	620,622
Walla Walla	124,950	101,844	82,930
Wenatchee	70,230	28,506	98,870
Yakima	24,503	113,488	421,455
TOTAL	$ 16,951,559	$ 17,537,335	$ 22,035,227

MONTANA	Feb. 1956	Jan. 1956	Feb. 1955
Billings	$ 237,550	$ 126,000	$ 61,000
Bozeman	13,000	25,000	16,200
Butte	27,750	29,719	32,068
Glasgow	Nil	Nil	67,232
Glendive	19,800	Nil	23,000
Great Falls	429,493	386,606	126,900
Helena	22,510	29,925	46,430
Kalispell	19,400	30,700	9,550
Lewistown	8,700	12,000	8,900
Livingston	11,100	39,300	150
Miles City	34,704	5,114	51,300
Missoula	165,800	165,890	201,950
TOTAL	$ 989,807	$ 850,254	$ 645,018

IDAHO	Feb. 1956	Jan. 1956	Feb. 1955
Blackfoot	$	$ 33,115	$ 46,400
Boise	220,778	281,961	677,600
Coeur d'Alene	61,500	47,100	81,950
Idaho Falls	70,000	65,300	47,400
Jerome	16,200	18,400	9,150
Lewiston	50,739	52,750	260,550
Nampa	223,890	39,575	42,715
Payette	4,150	41,600	Nil
Pocatello	46,868	184,570	56,800
Sandpoint	2,000	1,400	5,000
St. Maries	4,500	17,500	Nil
Twin Falls	99,750	68,100	54,040
TOTAL	$ 800,375	$ 851,371	$ 1,282,106
GRAND TOTAL	$184,435,405	$197,527,347	$174,454,360



Sycamore

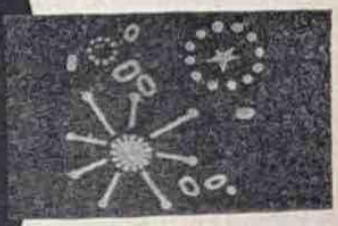


South Seas

exciting new decoratives in

HERMOSA

Glazed Ceramic TILE



Winter Night



Line of Light



ONLY HERMOSA OFFERS SUCH A LARGE CHOICE OF COLORS, SIZES AND *EXCLUSIVE* DECORATOR DESIGNS

HERE ARE TILE IDEAS that sell homes and win remodeling jobs. Hermosa decorative tile gives architects, builders, designers and color coordinators greater opportunity to express creative ideas in one of the oldest, yet newest mediums of expression. The new decoratives shown here are among scores of vibrant patterns in Hermosa *glazed ceramic* Tile.

EXCLUSIVE Hermosa designs—match custom handprint wallpapers by W. P. Fuller & Co. It's the year's most exciting decorator plan... a new feature Mrs. America will admire, love to touch and ASK FOR in new homes and in remodeling. Call or write today for folder illustrating California Coordinates.

CALIFORNIA COORDINATES achieve fresh decor with exciting new *matching* decorative Hermosa Tile and fine custom handprint wallpapers. These decoratives have the unique ability to harmonize with other lovely papers or painted surfaces.

GLADDING, McBEAN & CO.

LOS ANGELES • SAN FRANCISCO • SEATTLE
PORTLAND • SPOKANE • PHOENIX

Member, Producers Council

Letters to the editor

(Continued from page 4)

the homes that are being built in this region. How to overcome the above difficulties, that is, to produce a better home for what the public will and can pay for, is of course the proverbial $64 question. For one thing the public should be influenced (educated) to demand (and pay for) a better home architecturally. It would seem that the builder has at least some responsibility in this direction since in general the public can buy only what the contractor offers them and presents to them in his advertising. If the contractor does not contribute to this phase of the public's education, then who will?

I sensed upon rereading Mr. Miller's editorial a number of times that he is quite concerned with this problem of architectural design, not only as a builder interested in a reasonable profit, but also as a person interested in seeing the public get better housing.

ERNEST E. BRUFFEY
General Manager
Everette Shulund
Building Contractor

SACRAMENTO, CALIF.

From the point of view of one of the "older" architects, I am inclined to agree with Edward P. Miller regarding the unrealistic approach of some architects. However, I would like to see some response to him from a few practical architects, pointing up the shortcomings of those in Mr. Miller's field.

ARTHUR F. DUDMAN
Principal Architect
State Division of
Architecture

SEATTLE, WASH.

There is hardly a person in the United States today who does not have a roof of some sort over his head. Therefore, we are not charged with providing shelter but rather with upgrading that shelter, and those builders and architects who are going to be successful must recognize this fact.

E. B. VAUGHTERS
General Contractor

RIVERSIDE, CALIF.

Some architects may be prima donnas but there are those of us who want to design and be able to build within our client's budget or below. Good planning and design alike make for harmony at home, in the community and the world, so they can never be considered a luxury.

JAMES E. CALKINS
Architect

Mutual Problems

SEATTLE, WASH.

Glenn M. Canaday's article entitled "An Open Letter to Architects" (PA&B, Sept. '56) is excellent. One cannot criticize any of his remarks.

This kind of article always prompts me to want more of a get-together of architects and contractors in discussing their mutual problems, which in most instances are rather haphazard and particular to a given job.

Why not sponsor a roundtable discussion or discussions in regard to the subject material of the article? Specifications, plans and how they could be improved with a mutual understanding might be of real interest to both groups of the building industry.

ROBERT H. DIETZ, AIA
Waldron & Dietz

A Rose and a Thorn

TACOMA, WASH.

Your articles are inclusive and give a good condensation of the latest trends in the building industry in the Northwest and Pacific Coast areas.

HENRY KRUIZE, JR., AIA

SAN FRANCISCO, CALIF.

I find nothing of value in your publication. Incredibly inferior work has been shown all through the year.

HENRY HILL, AIA

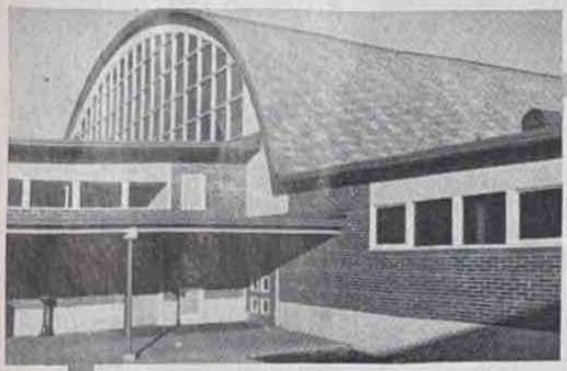
Errata

SPOKANE, WASH.

Concerning your report on the pay-as-you-go plan for School District 271 in Couer d'Alene, Idaho (PA&B, Pan. '56), may I make one correction in an otherwise fine article. The work as shown in the perspective represents $787,000 in contracts and a total of $831,000 with the architect's fee for an area of 74,000 sq. ft. or $11.28 per square foot. The $1½ million which you cited is the cost of the ultimate project indicated by dashed lines.

This high school is fantastic in its price—the best of everything and complete with hardwood fixtures, lockers, built-ins. It has a steel frame, solid masonry exterior, wood interior plastered partitions, the finest of hardware and toilet accomodations. Classroom widths are to 26 ft. net in depth, meaning open web joists throughout single- and two-story work. The gymnasium is an open valuted rigid frame job with diaphram construction from the balcony level downward. No structural steel runs to the ground here as all tie-backs are directed into the concrete balcony units.

BENJAMIN K. RUEHL, AIA



architect:
William Arild Johnson

contractor:
Barrows & Shaffer

masonry contractor:
Ray Shupp, Sr.

North Thurston High School features . . .

Attractive — Practical

Chehalis Red Norman Brick

Here is modern school design at its best . . . solid 9" masonry walls for permanence and fire safety . . . plus the warm, pleasing texture of the Pacific Northwest's most distinctive brick—CHEHALIS Smooth Red Norman Face Brick—to create a happy combination of eye-appealing design plus low maintenance costs. Only brick—and preferably beautiful CHEHALIS BRICK—can do the job so well.

SCPI

CHEHALIS BRICK and TILE Co.

BOX 868, CHEHALIS, WASHINGTON

Building Bookshelf

American Architects' Directory. R. R. Bowker Co., 62 W. 45th St., New York 36, N. Y. 748 pp., $20.

Sponsored by the American Institute of Architects, this volume contains data on all members and on certain non-members deemed likely to be inquired about. In each of the alphabetically arranged biographies, when the information was obtainable, there are complete details on the architect's home and business address, his outstanding architectural achievements, positions he has held, education, professional affiliations, etc. An appendix includes such topics as the value of an architect, selection of an architect and standards of professional practice. Another feature is a geographical cross-index to all architects listed.

Building Planning and Design Standards. By Harold R. Sleeper, AIA. John Wiley & Sons, Inc., 440 Fourth Ave., New York 16, N. Y. 334 pp., $12.

A compact assembling in illustrative form of 23 basic building types forms the backbone of this volume, along with data on special requirements, planning suggestions, furniture, fixtures, equipment and other working details. Separate chapters are devoted to small homes, motels, bars, restaurants and kitchens, schools, gymnasiums, theaters and auditoriums, stadiums and grandstands, shops and stores, office buildings, banks and agricultural buildings. Treated in individual sections are air and bus terminals, parking garages, service stations, railroad and trucking data, fire stations, hospitals, doctors' and dentists' offices, churches and temples and mechanical equipment.

Fine Hardwood Selectorama. Fine Hardwoods Association, 666 Lake Shore Drive, Chicago 11, Ill. 60 pp., $1.50.

A handy reference guide for anyone who specifies, buys or sells hardwoods or hardwood products. Over 400 commercially available species of hardwoods are described, giving geographical sources, color, pattern, characteristics, common uses, availability and general price range. All woods are cross-referenced under the various names by which they are known in different localities and countries.

In addition, 146 of the most popular hardwood figure and species types are illustrated, 38 in color, as a further aid in specifying or identifying woods. A chart of comparative physical properties includes 65 of the most widely used hardwood species.

Basic Guide on Store Modernization. Store Modernization Institute, 5 Middlesex Road, Darien, Conn. $10.

The purpose of this book is to help the small store owner answer his own questions all the way from "What have I now" through to "What do I want to accomplish after modernizing?" The institute believes the store owner himself is best qualified to collect this information. After the guide has helped him organize his modernization ideas, he can turn the material over to an architect for sketches, plans, blueprints and estimates.

Writer's Fact Sheet on Home Fixture Lighting. American Home Lighting Institute, 542 S. Dearborne St., Chicago 5, Ill. 22 pp., 50c.

Despite its title, this booklet is of value as a sales training aid and as a speaker's guide. It is primarily a general information piece and includes a brief glossary of lighting terms.

Guide H-20 (residential heat losses). Institute of Boiler and Radiator Manufacturers, 608 Fifth Ave., New York 20, N. Y. $1.

Planned to simplify heat loss calculations and save the installer time and effort, the guide includes prefigured area and volume tables, all-in-one calculation forms, heat loss factors for any type of residential construction and sections on unusual climate and temperature conditions. It was prepared by Arthur L. Wales, the institutes's technical secretary, and answers many of the questions most commonly asked him by installers during his five years of teaching heating techniques.

Architects

Engineers

Contractors

Builders

You are invited to see the

latest developments in building materials

CARAVAN EXHIBIT

of Building Products

Co-sponsored by the Washington State Chapter of the Producers Council and the American Institute of Architects

NEW IDEAS, NEW MATERIALS!

. . . proudly displayed and presented by the 44 progressive manufacturer-members of the Producers' Council, Inc. Plan now to attend this outstanding annual event of the building industry.

Doors Open 1 p. m.

Plenty of

Free Parking

Norway Center, Mon. & Tues. Mar. 26-27

Main Auditorium — 3rd West & West Thomas — Seattle, Wash.

Pacific Architect and Builder

T-square talk

about architects • planners • engineers

NEW OFFICES: Douglas C. Durkoop of Spokane has opened an office for the practice of architecture in the Realty Building. A graduate of the University of Oregon, he has been employed for the past six years by two Spokane architectural firms: Culler, Gale & Martell and Whitehouse & Price. Durkoop is active in the local AIA chapter, serving on both the public relations and public information committees.



DURKOOP

Another Spokane architect, Henry J. Swoboda, AIA, is now practicing at N. 6605 Division St. He was graduated from Washington State College in 1953.

William M. Valentine has opened his own consulting engineering offices at 905 Lloyd Bldg., Seattle. For the past six years he has been associated with the architectural and engineering firm of George W. Stoddard — Huggard & Associates. Valentine is a member of the Washington Society of Professional Engineers and of the American Society of Heating and Air Conditioning Engineers.

ON THE MOVE: The office of Jesse W. Green, AIA, formerly at 103 Vesta Del Mar, Redondo, Calif., now is located at 3907 Duquesne Ave., Culver City.

CHANGE IN NAME: The firm name of Mock & Morrison has been changed to Nelson J. Morrison, architect. President of the Southwest Washington chapter, AIA, Morrison wil continue to practice at 227 Perkins Bldg., Tacoma.

JOINS FIRM: Daniel J. Nacht, AIA, of San Francisco and a former faculty member of the University of Illinois, has joined the Sacramento architectural firm of Starks & Jozens, now known as Starks, Jozens & Nacht.

DIED: Mark Henry White, internationally known retired architectural engineer, died February 26 at his home in Berkeley at the age of 80. He had been associated in business for a number of years with his brother-in-law, Bernard Maybeck, architect who designed San Francisco's Palace of Fine Arts, the University of California Faculty Club and many East Bay residences.

Coming to California as a boy from his native Missouri, White was graduated from the University of California in 1900.

TO COMMISSIONS: Donald Beach Kirby, AIA, and Robert Lilienthal, president of the Planning and Housing Association, have been named by San Francisco's new Mayor George Christopher to serve on the City Planning Commission.

New appointees to the San Francisco Art Commission are Clarence O. Peterson, AIA; Albert Roller, AIA; John Garth, artist; and Mrs. William L. Jackson, landscape architect.

In Pullman, Wash., Leon Luck, assistant professor of civil engineering at Washington State College, has been reappointed to the City Planning Commission for a six-year term. He presently is serving as chairman.

DESIGN AWARDS: A Montana architectural firm, Bordeleau-Pannell of Great Falls, has received a First Award for its design of St. Gabriel's Church in Chinook in the annual competition sponsored by Church Property Administration magazine.

Now known as Bordeleau-Pannell & Amundson, the architects took top honors in the category, "a church seating less than 400."

Three California projects were cited in the competition, devoted to Catholic church, school and institutional buildings. Distinctive Design Awards went to Chaix & Johnson of Los Angeles for Sacred Heart Parish School, Covina, and St. Hilary Parish Convent, Pico; and to Armet & Davis of Los Angeles for St. John of God Rectory, Norwalk.

AIA convention to hear MIT dean

—Keynoter at Los Angeles session

With the Southern California chapter as the host, the 88th annual convention of the American Institute of Architects convening in Los Angeles May 15-18 will be keynoted by John E. Burchard, dean of the School of Humanities and Social Studies at Massachusetts Institute of Technology.

Seminars and talks relating to the overall theme of "Architecture for the Good Life" will explore such subjects as community planning, safety, new materials and techniques and aesthetics. A number of AIA national committees are scheduling roundtables on school buildings, hospitals, preservation of historic buildings, architectural education, office practice and specifications.

Chairman Charles O. Matcham of Los Angeles and his committee are arranging numerous special events including architectural and sightseeing tours, exhibitions and a variety of entertainment. The host chapter's seminar tours will provide opportunities for visiting architects and guests to judge the degree of success with which the local practitioners are solving the problems of good living.

Also on the agenda are post-convention trips to Hawaii and to Japan and a special convention train to and from Los Angeles originating in Chicago.

AIA programmed events will be held in the Biltmore Hotel and Theater except the president's reception May 15, which will be given in the Ambassador Hotel.

WESTERN COMPETITION

The AIA, Sunset magazine and House & Home have joined in sponsoring the first annual "Homes for Better Living" competition with entries limited to homes built during the past three years in the West and in Hawaii. Awards will be announced at the AIA convention in Los Angeles.

Two groups of awards will be made to registered architects for homes designed 1) for an individual owner and 2) for sale by a development builder.

Group 1 will be judged in three classes, by size—under 1,600 sq. ft. of living space; 1,600 to 2,800 sq. ft.; over 2,800 sq. ft. Group 2 will also be judged in three classes by sales price (including lot) — under $15,000; $15,000 to $20,000; over $20,000.

AIA activities

Oregon: For how long should we build? This was one of the questions put to architects by Dr. O. Meredith Wilson, president of the University of Oregon, at the chapter's 45th annual banquet February 28. The event, held at Riverside Golf & Country Club in Portland, attracted nearly 200 members of the Oregon and Southwest Oregon chapters, their wives and guests.

Dr. Wilson wryly commented that "there is no period of natural death for an academic building." Although many "temporary" buildings have become fairly "permanent," he remarked that 25 years from now we may wish that our new buildings were not so permanent. Dr. Wilson said that the architect is the only one the layman can turn to tell him what is wise for the student and the taxpayer in terms of permanency, size of classrooms, materials, etc.

"The function of an architect may be to provide machines for living," the university president said. He commented that the homes architects design may help to return to us the equilibrium which the machine age has upset.

Donald W. Edmundson, newly elected chapter president, asked the architects whether they were using the new materials properly—" are we meeting the challenge of our time in our profession?" Edmundson succeeds Donald J. Stewart.



EDMUNDSON

Other new officers introduced were Walter L. Gordon, vice president; Earl P. Newberry, secretary; and Charles Gilman Davis, treasurer. (Gordon's name was inadvertently omitted from the list of officers published in PA&B for February.)

George E. Dickel, banquet chairman, was assisted by John M. Amundson Jr., Everett B. Franks, Robert B. Martin, Richard W. Norman, James C. Payne Jr., and Nancy E. Reed.

Idaho State College: At a meeting in Pocatello last month the campus society of architectural students, Architectural Forum, became an affiliate of the AIA. Charles W. Johnston of Payette, who represented the institute, spoke on "Light Control of Schools and Homes."

Officers of the student group are Donald Johnson, president; A. Kent Parrish, vice president; Ernest Brodie, secretary; and Richard M. Forbes, treasurer. All are from Pocatello except Forbes who resides in Salem, Ore.

California architects set dates for fall meeting

The California Council of Architects will hold its 11th annual convention October 10-14 in Yosemite National Park, according to Melton Ferris, executive director of the council which has headquarters at San Francisco.

Ferris said the convention will be held at the new Yosemite Lodge, now under construction. An estimated 700 conventioneers will stay at the lodge, the Ahwanee Hotel and Camp Curry, with the Ahwanee reserved for architects.

All of the old lodge building will be devoted to the annual display of building products and materials. Space, however, will limit the display to between 50 and 60 exhibits. Some 75 producers exhibited at the 1955 Santa Barbara convention.

Professional programs are now being planned by a special council committee headed by San Francisco architect William Corlett. Exhibits will be organized and managed by Donald Canty who recently joined the council staff at 26 O'Farrell St.

another *new* HAWS FOUNTAIN!

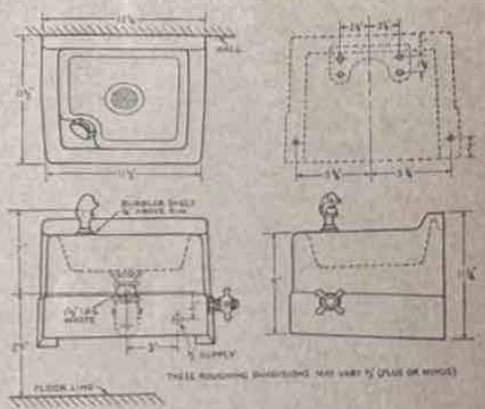
a product of modern styling



Model No. 7X
Acid resisting enamel
cast iron drinking fountain
Designed by CHANNING WALLACE GILSON
Industrial Designer

FOR PERFECT ADAPTATION to current architectural trends . . . and constructed of durable acid-resisting enameled cast iron to withstand the severest abuses of the school yard, this new HAWS drinking fountain assures lasting trouble-free service.

HAWS Model No. 7X drinking fountain contains HAWS *complete sanitation* features . . . with raised, shielded, angle-stream fountain head of chromium plated brass. Water pressure and volume is automatically controlled . . . it's anti-squirt!



WRITE TODAY for full details of HAWS Model No. 7X . . . a complement to new construction . . . a vast improvement for modernization! *It's designed to meet ALL city, county and state material and operational sanitation requirements.* Specify HAWS with confidence!

HAWS DRINKING FAUCET CO.

1443 FOURTH STREET (Since 1909) BERKELEY 10, CALIFORNIA

Materials – Products – Tools

and the latest literature

HORIZONTAL SHORING: A greatly simplified horizontal shoring with built-in camber used as support for form work in reinforced concrete structures has been placed on the market under the trade name S-L Spanall.

Developed in Europe, the shoring supports are made of fewer and simpler parts than previous designs. By adjusting one screw before placement, the camber is automatically set and the supports can then be extended to any desired length of span. Sections have been engineered to fulfill all structural horizontal shoring requirements for spans up to 29 ft. 6 in. without need of intermediate shoring.

(Item No. 1)

PAVEMENT INSERTS: As a decorative and useful touch for floors in airports, resorts, schools or large public and commercial buildings, Manor Crafts offers solid brass pavement inserts indicating compass points. The directional indicator comes in a variety of designs and are easily installed in new pavement or flagstone, brick and slate.

(Item No. 2)

ACOUSTICAL CEILING: To give architects greater freedom in ceiling design, Owens-Corning is producing large-size Fiberglas acoustical ceiling boards.

Designed especially for modular ceilings, the boards come in eight sizes ranging from 24x24 in. to 48x48 in. Three types are available in the new sizes, Stria with a white grooved ceiling surface, Sonofaced with du-Pont Mylar film facings and Textured which has a soft white finish.

(Item No. 3)

CONCRETE FORMS: To increase the life of wood or plywood concrete forms and produce a clean, smooth concrete surface, Form Kote has developed a product that penetrates into the wood, providing a protective coating unaffected by mars or scratches.

Applied with roller, brush or spray, it lasts an average of four pours and eliminates scraping and coating forms between each pour.

(Item No. 4)

SEALING TAPE: A sealing tape that will not shrink, crack or harden over the wide range of temperatures to which building exteriors are exposed is being marketed under the trade name Warflex.

Termed "permanently flexible" by the manufacturer, it prevents air and water leakage between glass and sash or between joints of metal panels, yet allows for expansion and contraction or movement caused by temperature changes or wind pressure.

(Item No. 5)

CABINET HARDWARE: For cabinets in the elementary school or at home, Amerock has introduced Story Book knobs, steel knobs colorfully decorated in baked enamel with such childhood favorites as Humpty-Dumpty and Peter Rabbit.

(Item No. 6)

COLUMN FORMS: A line of improved fiber tube forms for pouring round columns has been announced by Richkraft.

Called Richtubes, they are made from virgin Kraft. A plasticized treatment makes them weather resistant and assures their stripping easily on the job, leaving a smooth-finished concrete surface.

(Item No. 7)

PLASTIC SURFACING: Expansion and contraction of Marlite decorated hardboard panels has been reduced to a minimum by a stabilizing treatment developed by Marsh Wall Products.

The process was designed to overcome any tendency to expand and warp. Marlite paneling is a Masonite tempered hardboard with baked plastic surface.

(Item No. 8)

SLIDING WINDOWS: Sun Valley Industries, manufacturer of aluminum sliding glass doors, has entered the window market with an aluminum sliding window which will be available in 34 sizes and several styles.

Use of Tenite Butyrate plastic liner for sill weatherstripping makes movement of windows smooth and silent. Tapered sill with weep holes facilitates water drainage. Fin and trim have prepunched nail holes for easy installation.

(Item No. 9)

INSULATION: L.O.F. Glass Fibers has introduced a home insulation product made of light density, fine glass fibers with an aluminum reflective vapor barrier on one side.

Quickly installed, it has tabs extending beyond the edges of the insulation for nailing or stapling to framing members. It comes in three thicknesses and in widths to fit framing members, studs and joists, typically spaced 16 in. on centers, or for 20- and 24-in. spacings.

(Item No. 10)

FIBERGLASS PANES: For industrial and commercial use, International Molded Plastics has introduced a glass-fiber reinforced plastic glazing material that is shatterproof, weather resistant and reduces glare and heat of direct sunlight.

Structoglas panes have a pebble-grain surface and are available in green, blue or clear.

(Item No. 11)

PLAN HOLDER: For convenient filing of skirted plans, the Plan Hold Division of Air Comfort has developed a wall rack with brackets that swing back and forth providing ready reference to either side.

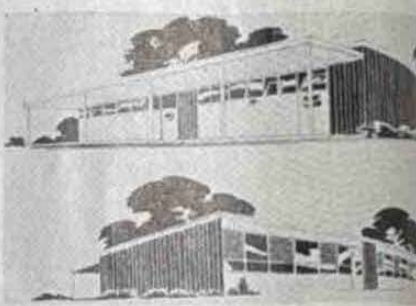
Brackets pivoted within a wall plate support the company's Plan Holds which are equipped with special slide-over clips.

(Item No. 12)

KITCHEN CABINETS: Sliding glass doors are featured on several models of the 1956 line of Kitchen Maid wood cabinets. The glass door sections and metal channel track are easily removed for cleaning.

(Item No. 13)

PREFAB CLASSROOM: To meet the need for flexible classroom space Calcor is marketing modular prefab



NEW LOOK IN PREFABS

classroom units, attractively designed to match modern school construction yet easily erected or disassembled.

The prefabs were designed by Earl Heitschmidt, FAIA, of Los Angeles and offer such features as fiberglass in roof and walls, 100% incombustibility and an interlocking mechanism that makes the buildings easy to disassemble and relocate. Classrooms are shop fabricated in modular panels of over 50 sq. ft. each.

(Item No. 14)

FURNACES: For the closet type installation that is becoming so popular D. P. Ran has designed a new line of compact forced air furnaces.

Models are 14¼ in. wide, 28¼ in. deep and 64½ in. high and available in 75,000 Btu. and 85,000 Btu. sizes.

Resonant noise and roaring often heard when a furnace starts to heat up are eliminated by balanced design of cast iron burner and clam-shell type elements.

(Item No. 15)

FLOOR TILE: As an assist to the hard-working maintenance engineer, B. F. Goodrich has developed a resilient floor tile with a super-dense surface that eliminates dirt-catching surface pores and a pattern that doesn't show flecks or footmarks.

Called Agatine, the multicolored pattern is derived from the gem stone agate and extends throughout the full thickness of the tile.

(Item No. 16)

Latest Handbooks, Manuals and Literature

Yours for the Asking

METAL LATH: Specifications for all types of metal lath construction and for materials, fire resistive ratings and definitions of terms are included in the 1956 specifications manual prepared by the Metal Lath Manufacturers Association.

The 16-page booklet covers solid and hollow partitions; wall furring; metal lath attached directly to wood supports; contact, furred and suspended ceilings; beam and column protection for fireproofing; and reinforcing for exterior stucco.

(Item No. 17)

SCHOOL LIGHTING: The value of glass blocks in providing just the right light for school classrooms is the subject of "The 3-R's and Daylighting," a brochure prepared by Pittsburgh Corning.

The brochure discusses studies that have resulted in new standards of lighting, the basic need of the classroom and the role glass blocks can play in controlling daylight to supply the desired lighting pattern.

(Item No. 18)

MOVABLE WALLS: More than 50 photographs of installations are included in the latest catalog on Mills movable metal walls for offices, factories, schools, hospitals and other buildings.

Detailed installations, drawings and specifications are included, as well as a section on the company's line of accessories. The 68-page book is indexed for quick reference.

(Item No. 19)

FOUNDATION PILES: A veritable textbook on pressure treated timber foundation piles has been published by the American Wood Preservers Institute for architects, engineers and builders interested in heavy buildings, grain elevators and the like.

Technical information includes pile driving formulae, means for determining safe loads, methods of solving problems of uplift and lateral forces and protective devices for use during driving. Photographs include Star Machinery Co. and Langendorf Bakeries in Seattle, King Towers apartment hotel in Portland and a number of Northwest grain elevators.

(Item No. 20)

AIR CONDITIONING: "Engineered Temperature at Work" is simply a 36-page picture book depicting the many different types of buildings where Worthington air conditioning and refrigeration equipment is used.

The photographs of the White House, on down to a motel in Florida, are excellent. The advertising message is extremely brief.

(Item No. 21)

WOOD ROOF TRUSSES: The second printing of Timber Engineering's "Typical Designs of Timber Structures" is now available. Demand for the third edition of the book, published last year, quickly depleted the stock, but distribution has now been resumed.

The guide contains 102 typical designs illustrating suggested methods of applying Teco timber connector system in wood framing for the more commonly encountered structural problems.

(Item No. 22)

WOOD PANELS: Directions for working with Presdwood and application details for both exterior and interior use are included in a 24-page brochure offered by Masonite.

Well-illustrated with drawings, the brochure also includes data on properties and sizes of all Presdwood panels, Masonite siding and underlayment.

(Item No. 23)

WINDOW WALLS: A fenestration plannig kit offering almost unlimited combinations for custom and prefab



WINDOW WALLS

homes, schools, clinics, shopping centers and professional buildings has been prepared by Fabrow.

Called "48 Ways to Turn Daylight into Dollars," the plans start with 48 different modular window units.

(Item No. 24)

LUMBER GRADING RULES: West Coast Lumbermen's Association has incorporated more than just rules in its latest edition. There is information on the function of its bureau (now West Coast Lumber Inspection Bureau), grade stamps, inspection procedures and grading practices; and 75 lumber patterns are shown in detail.

Stress grades are explained more fully and detailed drawings have been added to aid the reader. The glossary has been expanded to include a full list of the terms used throughout the rules.

(Item No. 25)

RESILIENT FLOORS: To assist architects and builders in selecting the resilient flooring material best suited to a building's conditions and needs, Armstrong Cork has prepared an information-packed, 36-page booklet.

Drawings, photographs, charts and graphs illustrate a text which delves thoroughly into such factors as subflooring, service conditions, radiant heating, cost, noise reduction and light reflectivity.

Four pages are devoted to specifications and three more describe important factors to watch for when inspecting installations.

(Item No. 26)

READER SERVICE

Pacific Architect and Builder
2418 Third Ave., Seattle 1, Wash.

Please send the literature or data about the material, products and tools listed on these pages.

MARCH 1956

ITEM NO. (Circle those you wish):

1	2	3	4	5	6	7	8				
9	10	11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30	31	32

Name _____ Title _____

Firm _____

Address _____

City _____ Zone _____ State _____

Builders and Suppliers

headlining the news



• **Codding Enterprises Inc.** and 21 subsidiary and related home building companies have been merged at Santa Rosa, Calif., with combined assets of $9 million. H. J. Stockman, vice president and general manager, said the firm and its subsidiaries comprise one of the largest development companies in northern California and expects a 1956 gross business of $30 million. Hugh B. Codding is president and James W. Codding is executive vice president.

• **Cascade Contractors** is the name of a new partnership formed by two Eugene, Ore., builders, Fred Hollister and George Millett. Located at 175 E. Fourth Ave., the firm will bid on commercial, school and residential construction projects in the area under $300,000 valuation.

• **Andres Oddstad** of San Francisco has added a complete new resale and brokerage department to his Oddstad Homes organization. To be managed by Ernest J. Mosher, the new department will handle sales of properties traded in on new Oddstad homes as well as additional sales of original Oddstad construction. Oddstad anticipates a $3.5 million volume for the new department this year. Eichler Homes recently took similar steps by joining forces with Saxe Realty Co. and in the first month the trade-in program resulted in more than $900,000 in new Eichler home sales and more than $600,000 in the resale of homes traded in on Eichler homes.

• **Jack Beaver,** project manager of Hoffman Construction Co., is the new president of the Longview-Kelso (Wash.) Contractors Association. Harold Hill was named vice president and Frank L'Amie, secretary-treasurer. The association now numbers 40 regulars and associate members.

• **Malarkey & Moore** announces the retirement of Dan J. Malarkey Jr. The Portland building firm will now be known as George A. Moore & Associates, Inc.

• **Frank Oman** and **William Blackers,** have joined together to form Regency Development Corp. to develop property in the Sherwood Heights area where they have opened a tract of 40 homes designed by San Francisco architects Campbell & Wong. Blackfield is the current president of the Associated Home Builders of San Francisco and has built more than 5,000 homes in the Bay area. Oman is the immediate past president of the home builders' association and has been building homes for the past 20 years.

• **Frank Ozanne** has been named assistant manager of the Seattle chapter, AGC. He succeeds Colton D. Harper, who was named manager two months ago. Ozanne, a native of Butte, formerly was manager of the Seattle office of R. E. Chase & Co., manufacturers' agents.

Suppliers

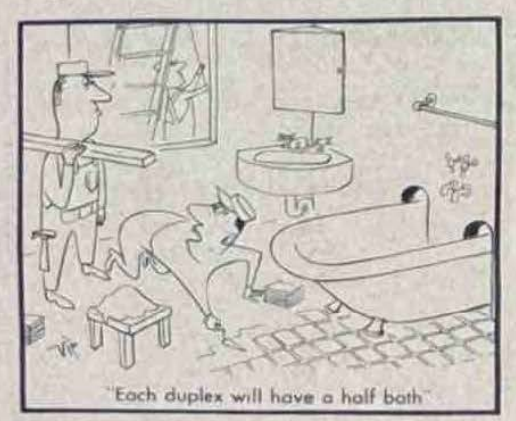
• **Lynart, Inc.,** of West Los Angeles, which has limited its distribution of aluminum glass sliding doors to California markets for the past six years, is spearheading its expansion with the appointment of R. M. (Rocky) Brown as national sales manager. Former sales manager for Miller Sliding glass doors, Brown is currently traveling the United States and Canada to appoint qualified distributors.

• **Northwestern Portland Cement Co.** of Seattle has reelected its entire slate of officers, including James D. Burns of Condon, Ore., chairman of the board, and Gordon Tongue, president.

• **L. Sonneborn Sons, Inc.,** has opened a Pacific Coast headquarters for its building products division at 4821 S. Vermont Ave., Los Angeles. Alvin S. Baer, division general manager, says the new operation will serve both as a production and sales center for Sonneborn's line of cement admixtures, air entraining agents and curing compounds used in construction plus a broad line of products for building maintenance.

In line with this move, the West Coast staff has been doubled, with new representatives appointed in Oregon, Washington, Idaho, Arizona and Nevada.

The Los Angeles headquarters is managed by Otto Bachrach, assisted by L. L. Johnston.



Courtesy of Pomona Tile Manufacturing Co.

Producers' Council and the AIA will co-sponsor the annual caravan exhibit of building products in Seattle's Norway Center March 26-27. Doors open at 1 p.m.

• **Seattle Construction Council** has elected E. W. Waldal of the painting firm of the same name to serve as its president, succeeding Elmer Coats of Mutual Materials Co. A past president of the local Painting and Decorating Contractors Association, Waldal heads one of Seattle's largest painting concerns.

• **Permanente Cement Co.** has named James G. Hansen works manager for its new $12 million southern California cement plant, including the quarry, to supply both cement and steel grade limestone at Cushenbury in San Bernardino County. He formerly was manager of Kaiser Steel Corp.'s iron ore mine at Eagle Mountain, Calif.

Gordon K. Wilson of Seattle has been appointed assistant division sales manager of Permanente's Pacific Northwest division.

• **Frank K. Donnelly Co.** of Seattle has been named sales representative in the state of Washington by J. F. Pritchard & Co., manufacturer of cooling towers for air conditioning and industrial applications and of Hydryers, packaged dehydration units for air and other gases. Donnelly has been a manufacturer's representative since 1954.

• **Robert B. Taylor** of Geneva, Ill., director of research for the Structural Clay Products Research Foundation, told a Seattle audience this month: "The principal objective of the research program is to lower costs of masonry walls by developing new types of materials, such as the popular SCR brick, and improving equipment for contractors and masons." He was a key speaker at the annual meet-

ing of the SCPI Pacific Northwest Brick and Tile Association.

One of the newest advances, Taylor said is "packaged brick"—bricks strapped together for easier moving to a construction job. "A two-wheel cart has been developed to handle smaller packaged loads," he explained. "The packaged method, either in large or multiple lots, also is feasible for handling by power equipment."

• **V. M. di Suvero**, who originated the Construction Materials Center at 330 Clay St., San Francisco, where manufacturers maintain a permanent display of the latest in building materials, has announced plans for at least 10 similar centers in major U. S. cities. The first branch, scheduled for opening in May, will be in Los Angeles.

The San Francisco center — open, free of charge, to architects, contractors and the public—was used to officially launch Operation Home Improvement in the Bay area by Mayor George Christopher, M. Justin Herman, regional HHFA administrator, and members of the Associated Home Builders of San Francisco.

• **Ralph F. Dreitzler,** general manager of West Coast Wood Preserving Co., Seattle, was reelected president of Western Wood Preserving Operators' Association in San Francisco last month. Other officers: James McGregor of McCormick & Baxter Creosoting Co., Portland, vice president; V. C. Monahan of Cascade Pole Co., Tacoma, treasurer; Charles Craig of J. H. Baxter Co., Portland, secretary.

• **Haws Drinking Faucet Co.** of Berkeley, Calif., has purchased Kramer Manufacturing Co., manufacturer of Kramer flush valves since 1925. Known as the Kramer Flush Valve Division of Haws, the firm will remain at its present location at 819 Bryant St., San Francisco.

J. E. Traynor, Haws president, has also announced the appointment of John S. Googins as manager of the newly acquired company. Prior to his new post, Googins served as general production manager of C. K. Williams & Co., East St. Louis and earlier was manager of the same concern in Emeryville, Calif.

• **The Bryan W. Burtch Co.** of Seattle has been awarded the annual trophy given to the nation's outstanding distributor of Modernfold folding doors. Burtch, who sells the doors in the Pacific Northwest and Alaska, won out over 150 other dealers. The award was based on overall sales and distribution results.

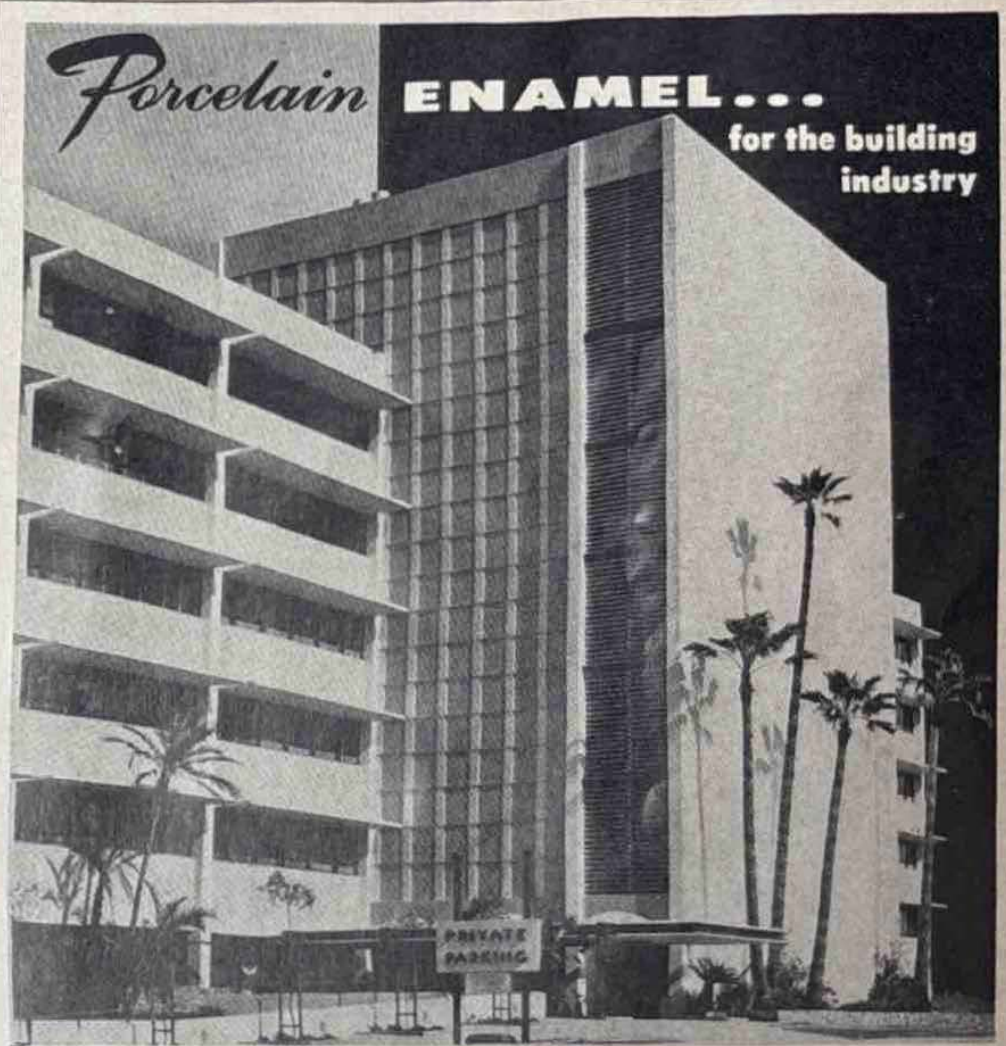
• **Kaiser Gypsum Co., Inc.,** has appointed three sales representatives in southern California. Hugh G. Ferguson has been assigned to handle promotion of lath and plaster sales in the Ventura, Los Angeles and Orange County area; Allan R. (Bob) Olson to the Riverside-San Bernardino area; and Jack L. Cosbey to the San Diego-Imperial County region.

The company has begun production at the first unit of its multimillion-dollar gypsum products plant at Antioch, Calif., 4½ months after groundbreaking. It replaces the burned out plant at Redwood City.

With an annual capacity of 94 million square feet of gypsum board products, the new unit is a forerunner of a second larger addition which will increase production to a total of 274 million square feet and 20,000 tons of plaster by this November.

Kaiser Gypsum operates two other gypsum plants on the Pacific Coast—at Long Beach, Calif., now undergoing a 60% expansion, and at Seattle.

• **K S M Products, Inc.,** stud welding division, of Merchantville, N. J., has opened a new district office at 1615 Polk St., San Francisco. In charge



GENERAL TELEPHONE COMPANY OF CALIFORNIA, Santa Monica
ARCHITECT AND ENGINEER: Albert C. Martin and Associates
CONTRACTOR: George A. Fuller Company

Pleasing contrast is the keynote...when PORCELAIN ENAMEL is effectively blended with other permanent materials—offering lasting richness in any color and virtually any finish. INVESTIGATE THE ADVANTAGES of Architectural Porcelain Enamel.

Write TODAY, for latest information and Color Chart!

ARCHITECTURAL DIVISION
PORCELAIN ENAMEL PUBLICITY BUREAU
P. O. BOX 186 • EAST PASADENA STATION • PASADENA 8, CALIFORNIA
1444 WEBSTER STREET • ROOM 4 • OAKLAND 12, CALIFORNIA

of this operation will be F. G. Kern who represents the company as district engineer in California and supervises stud welding distributors in Washington, Oregon, Idaho, Montana, Utah, Colorado and Wyoming.

• **H. L. Hutchinson Co.** of Portland has been appointed a stocking agent for Termite rotary masonry drills, which are manufactured by Termite Drills, Inc., of Pasadena, Calif.

• **General Controls Co.** of Glendale, Calif., has named Joe Bustad field representative for its Los Angeles branch. With the firm since 1952, Bustad has been assigned to the San Fernando Valley territory.

• **United Distributors** of Spokane, wholesale outlet for Gates form ties, Meyers electric heaters and Easy Mold forms, is now located at E. 3003 Courtland Ave. The firm's territory includes Washington east of the Cascades, the panhandle of Idaho as far south as Boise and all of Montana.

• **Pabco Products, Inc.,** has moved R. R. Galloway, vice president in charge of eastern sales, to the company's head office in San Francisco to assume the position of sales manager of the building materials division. He returns to the western scene after three years in Pabco's floor covering division.

Pabco stockholders have approved a plan by which the firm will acquire complete ownership of Fibreboard Products, Inc. through the purchase of stock now owned by Crown Zellerbach Corp.

• **Utility Appliance Corp.** of Los Angeles has named Stanley F. Skafte, manager of its heating and air conditioning division, to the board of directors. He has headed the division for three years and has been associated with the manufacturing firm since 1947.

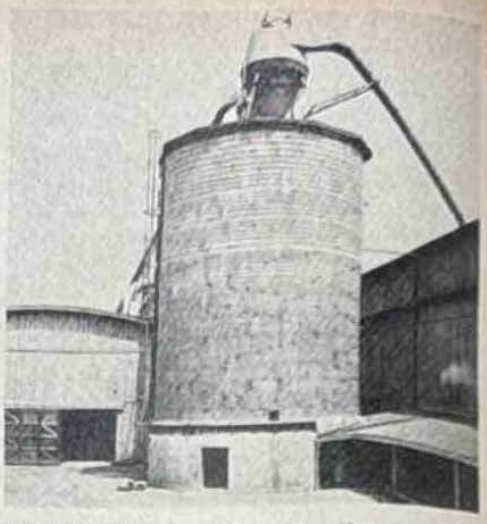
• **A. H. Witt Co.** of Los Angeles has named J. C. Wheeler, formerly with American Glass Refrigerator Door Co., to head a new department created to produce refrigeration doors and glass sliding panels for meat cases and cutting rooms, developed to tie in with the doors.

Concrete stave silo built for chip storage

Graystone, Inc., of Centralia, Wash., has constructed what is believed to be the first concrete stave silos for storage in the lumber industry.

The fourth one to be built for Weyerhaeuser, just completed at North Bend, Ore., is a 50-ft chip storage silo, 30 ft. in diameter and with a capacity of over 27,000 cu. ft.

Precast staves used in the silo were made with special high-strength, wet-pour vibrated concrete, according to Ralph Metzger of Graystone. Vertical joints are set in a straight line, but horizontal joints are staggered.



GRAYSTONE'S concrete stave silo.

Staves are tongue and groove and are set so that each stave is locked into place by six other staves. The circumference of the silo is held in compression by galvanized hoops and galvanized lugs. The raised base of the silo is set 10 ft. off the ground.

Manufacture and erection was by the silo division of Graystone. It will be used in connection with the new particle board manufacturing operations at the North Bend plant. Three silos of similar design, also constructed by Graystone, are in use at the Snoqualmie, Wash., mill of Weyerhaeuser.

Built-in telephone outlets are a must in today's homes



says ARTHUR K. EHRLICH, Arthur K. Ehrlich & Associates, Burbank, Calif. Builders, *Better Homes & Gardens* Idea Home for 1955 in Glendale, Calif. (pictured below)

"We wouldn't dream of building a home without concealed wiring and telephone outlets in the original plans. It's the kind of detail that sets the well-built home above the average. It just has to be there." Telephone outlets in rooms that are used most add much to the value of Ehrlich homes.

To successful builders like Mr. Ehrlich, who are setting living standards in the Pacific West, complete telephone planning is as basic as adequate electrical wiring. We are always ready to help you plan built-in telephone facilities. Just call us and ask for our *free* Architects and Builders Service.



Specify built-in telephone facilities —a sign of good planning

Pacific Telephone

Construction News Bulletin

Vol. 62—No. 5 (PA&B) News Section of Pacific Architect and Builder March 17, 1956

D. F. McCormick.....News Editor Win Romtvedt.....Portland News Manager
G. M. Westman.....News Staff A. E. Maguire.....News Staff

Newsroom • 2418 Third Avenue, Seattle 1, Washington • Phone MAin 0285

BUILDING NEWS

Washington, Oregon, Idaho, Montana, Wyoming, Utah, Alaska

- ● Bids Called
- ★ Contract Awards
- ▲ Low Bids—Bid Received
- ■ Planholders—Prospective Bidders

OREGON

●TITANIUM PLANT— Albany, Ore.

Bids to be opened March 20 by Oregon Metallurgical Corp., c/o Cornell, Howland, Hayes & Merryfield, consulting engineers, 1600 Western Ave., Corvallis, for construction of a titanium ingot casting plant on a 59-acre site a mile south of Albany near the junction of the Southern Pacific main line and Albany-Lebanon branch. General manager of the firm is Stephen M. Shelton.

Ground preparation has been started with installation of drainage system, outside utilities, access facilities.

DC 3-14. Previous report 1-11

▲P. E. BUILDING— Ashland, Ore.

Bids opened March 13 by State Board of Higher Education, Benson Hotel, Portland, for a physical education building for Southern Oregon State College. Plans by Howard R Perrin, architect, 1101 Main St., Klamath Falls. Bids exceed estimates by approximately $100,000 and will probably be rejected. WB 3-14. Previous report 2-16

HIGH SCHOOL— Astoria, Ore.

Bid call to be issued in early April with bids opening May 8 (tentative) for new high school in Tapiola Park, by Astoria School District No. 1-C, Clatsop County, T. A. Wells, superintendent, Astoria, Ore. Plans under way by the associated architects, Stewart & Richardson, 219 S.W. Stark St., Portland, and E. E. Isaacson, 275 W. Harrison St., Astoria.

High school to include two-story, 73'x258' classroom building; 109'x169' gymnasium and dressing room building; 72'x138' administrative and library building; 66'x225' building containing shops, cafeteria and kitchen; 80'x176' auditorium and music building; hot water heating plant; buildings connected by covered passageways, some open and some closed. Classroom building reinforced concrete with brick veneer; other buildings all one-story of block masonry, except some reinforced concrete in gym, with brick veneer exteriors, concrete slab floors, laminated wood beams with 2" roof decking on purlins; interiors include asphalt tile flooring; acoustical tile treatment on ceilings, exposed concrete and block walls, and stud and plaster partitions; incandescent lighting.

WB 3-7. Previous report 8-24

▲SCHOOL ADDITION— Bandon, Ore.

Bids opened March 6 by School District No. 54-C, Coos County, Alice K. Gallier, clerk, High School Bldg., Bandon, Ore., for an addition to the Bandon High School. Plans by Dougan & Heims, architects, 401 Royal Bldg., Portland. LOW BID: Wold Bros., Route 1, Box 238, Bandon, $36,587. OTHER BIDS: Harold H. Grappe, P. O. Box 656, Coos Bay, $36,750; A. T. Fox, P. O. Box 831, North Bend, $37,191.

WB 3-13. Preivous report 2-15

●SCHOOL ADDITION— Beaverton, Ore.

Bids to be opened 8 p. m., March 26, by School District No. 18, Washington County, Grace E. Graf, clerk, McKay Grade School, Route 1, Box 199, Beaverton, for addition and alterations to McKay Grade School. Plans with James C. Gardiner, architect, 3158 S.W. 87th Ave., Portland. $25 deposit. Certified check, cashier's check or bid bond 5%.

Addition of two classrooms, two shower and toilet rooms, administration unit, health room and work rooms; two sub-standard classrooms in existing school to be enlarged by removing existing office area. Frame construction on concrete floor; laminated girders with solid wood decking and built-up roofing; skylights; aluminum sash; siding exterior finish, except some stucco; drywall and wood panelling interior finish; acoustical tile ceilings; asphalt tile flooring, except ceramic tile in toilets and showers; new boiler; forced warm air heat and ventilating units; incandescent lighting. WB 3-13

●BOYS' HIGH SCHOOL— Beaverton, Ore.

Bids to be opened 2 p. m., March 29 from select list of bidders by Oregon Province of Jesuit Fathers, Rev. Henry J. Schulteis, Provincial for Oregon, at the provinical residence, 615 N.W. 20th Ave., Portland, for construction of the first unit of a boys' high school to be located on 56-acre tract facing Bertha-Beaverton Highway at Laurelwood Drive (S.W. 82nd Ave.). Plans with John W. Maloney, architect, 754 Central Bldg., Seattle. $50 deposit. Certified check, cashier's check or bid bond 5%.

First unit includes one-story general service building containing faculty and student dining rooms for 325 persons, kitchen to serve 650 persons, small laundry, store rooms, faculty living quarters, maintenance shop and boiler room. Exterior walls of reinforced concrete; some brick trim; built-up roof over t&g roof decking and supported by glued laminated beams; frame partitions with drywall, lath and plaster; terrazzo tile flooring in kitchen and dining rooms; tile flooring and wainscoting in toilets and shower roms; all other floors concrete; aluminum sash, except steel in boiler room; incinerator. WB 3-13. Preivous report 12-23

SCIENCE BUILDING— Corvallis, Ore.

(Estimated cost $1,408,500)

Bids to be opened April 20 (tentative) by Oregon State Board of Higher Education, Dr. John Richards, chancellor, Johnson Hall, Eugene, for agriculatural - biological science building at Oregon State College, Corvallis. Bids to be opened April 19 (tentative) for equipment.

Plans by Burns, Bear, McNeil & Schneider, architects, 2940 S.E. Belmont St., Portland, W. Bruce Morrison, mechanical engineer, 1125 Cascade Bldg., and Grant Kelley, electrical engineer, 1008 S.W. 6th Ave., all Portland.

Initial structure, "C" shaped wing, will house horticulture department of agriculture school, botany and plant pathology, school of science and part of the entomology department; four-story building, reinforced concrete construction with brick veneer exterior and stone trim; acoustically treated ceilings on first two floors; labs on second floor upper floors to have lightweight, masonry block walls, painted; monitor on roof will house hood and exhaust fans, transformers and ventilating units; some refrigerated rooms; split system of direct convector radiant heating and forced air ventilation; passenger and freight elevator.

WB 3-6. Previous report 7-1

▲QUONSET BUILDINGS— Corvallis, Ore.

Bids received by Oregon State Board of Higher Education, Earl M. Pallett, secretary, room 6, Benton Hall, Oregon State College, Corvallis, for construction of quonset buildings at the Farm Service area on the campus. LOW BIDS: Robert's Cabinet Shop, Corvallis, $23,200; Cascade Contractor, Corvallis, $23,634; John Carrick & Son, Albany, $24,008. DC 3-9. Previous report 2-14

●CLINIC ADDITION— Corvallis, Ore.

Bids to be opened 2 p.m., April 3, by Corvallis Clinic, at office of Dougan & Heims, architects, Royal Bldg., Portland, for an addition to the clinic. Plans to be issued to select list of bidders about March 14.

Second floor of approximately 4,500 sq.

ft. to be added to existing one-story building; to include surgeries, treatment rooms, offices, etc. Frame and brick veneer construction; wood sash; laminated beams; bonded roof; baseboard heating system connecting with existing system; vinyl floor covering; plaster wall finish; acoustical tile ceilings; cast stone stair treads; copper flashings; intercommunication system; music system; cabinet work. WB 3-13

■ SCHOOL ADDITION— Corvallis, Ore.

Planholders announced for the construction of an addition to the Garfield Elementary School. Bids to be opened 1:30 p.m., March 23, by Benton County Consolidated School District No. 96J, W. L. Van Loan, superintendent, Corvallis. Plans with school district office in the Corvallis City Hall. Plans by Chris Jeppsen, architect, Benton Hotel, Corvallis. Two contracts, one for general and electrical and one for mechanical.

Planholders: Quenton Greenough, Box 868; L. H. Burkett, 1615 Hall Lane; Robert C. Wilson, Box 47, all of Corvallis; Hampton C. Platt, Box 27, Salem; Raymond Lillie, Box 222, Albany; Starr Builders, 1765 S. Main St., Lebanon; J. M. Steinmuller, Jr., 907 W. 3rd, Eugene.

DW-G 3-14. Previous report 3-7

▲OFFICE BUILDING— Corvallis, Ore.

Bids received March 12 by Chris Jeppsen, architect in his office, Benton Hotel, Corvallis, for construction of a professional building in Corvallis. Plans by architect. LOW BIDS: Starr Builders, 1765 S. Main St., Lebanon, $43,409; Warren Roberts, Rt. 4, Corvallis, $44,750; Garrick, Rt. 3, Box 950, Corvallis, $46,453.

GW 3-14. Previous report 3-7

FRATERNITY HOUSE— Corvallis, Ore.

Plans underway by Edith Yang, architect, 1020 N. 30th, Corvallis, for Chi Phi fraternity house on the Oregon State College campus at Corvallis. Two-story; concrete block; wood frame; built-up roof. DC 3-14

● OFFICE BUILDING— Cottage Grove, Ore.

Bids to be opened 2 p.m., March 21, by Pacific Telephone and Telegraph Co., G. F. Zolling, chief engineer, 509 S.W. Oak, Portland, for a new dial office building. Plans by Wilmsen & Endicott, architects, 863 E. 13th Ave., Eugene.

Two-story building; 73'x75'; reinforced concrete with brick facing and stucco exterior; built-up roof; rigid insulation in the roof; suspended ceilings; steel beams; aluminum doors and frames; oil fired, forced hot water system; air conditioning; metal partitions and toilet stalls; chain link fencing, painting, copper and aluminum work; glass and glazing.

Planholders: Industrial Building Co., Box 869; Elson C. Shields Co., 170 Patterson Road; Albert Vik and Son, 160 Madison; Waldo Hardie & Son, Box 422; Youel and Huffman, 170 W. Hilliard Lane; W. H. Shields Construction Co., Box 3037; Gale M. Roberts, 338 W. 11th; Arnt Ree & Son, 113 W. 18th Ave.; J. M. Steinmuller, Jr., 907 W. 3rd Ave.; Guske Bros., 2675 Baker Blvd. All bidders of Eugene. DW-G 3-13

NEWSPAPER PLANT— Dallas, Ore.

Plans are under way by Lyle P. Bartholomew, architect, 3335 Pringle Road, Salem, for expansion of the Itemizer-Observer newspaper, 517 Court, Dallas.

Half of building will be used for printing plant, and remainder of plant will be finished for rental shops. MC 3-14

▲RED CROSS BUILDING— Eugene, Ore.

Bids received by Lane County Red Cross Chapter, Lou Torgeson, chairman, Eugene, for new Red Cross headquarters building, located between Pearl and Oak St., Eugene. Plans by Balzhiser & Seder, architect, 1920 Franklin Blvd., Eugene. LOW BIDS: Guske Bros., 2675 Baker, Eugene, $36,930 (basic bid); Richard Millhollen, 783 Howard Ave., Eugene, $37,228 (basic bid); J. J. Steinmuller, Jr., 907 W. 3rd Ave., Eugene, $37,399. Bids were opened March 5 in Eugene.

DW-M 3-9. Previous report 2-28

WAX PLANT— Eugene, Ore.

Plans have been abandoned for the multi-million dollar plant for wax extraction from Douglas fir bark by M. W. Kellogg Co., Jersey City, N.J. The plant was to have utilized a process developed by the Oregon Forest Products Laboratory at Corvallis.

DW-M 3-3

WAREHOUSE ADDITION— Eugene, Ore.
(Estimated cost $60,000)

Construction is underway by Gale Roberts, general contractor, 338 W. 11th Ave., Eugene, for a warehouse that will provide additional storage space and receiving area at 603 E. 8th Ave., just east of the present Eugene Fruit Growers Association, 799 Ferry St., Eugene. Plans and specifications by Walter J. Marquess, engineer, 173 Bailey Lane, Eugene. DW-M 3-8

LODGE— Eugene, Ore.
(Estimated cost $230,000)

Bids will be called about May by the Loyal Order of Moose, Eugene Lodge No. 686, Dewey Hazelton, 77 W. Broadway, Eugene, for a new lodge hall at 13th and Chambers St. Working drawings under way by Freeman, Hayslip, Tuft & Hewett, architects, 2040 S.W. 3rd Ave., Portland.

One-story, 20,500 sq. ft. floor space; men's and women's lodge meeting rooms, dining room, lounge, stag room, library, committee rooms, offices and other facilities. Frame construction on concrete slab floor; siding and brick veneer exterior finish; laminated beams under built-up roof; aluminum sash; asphalt, rubber and ceramic tile, and hardwood floors; mostly gypsum board walls with some wood paneling; acoustical ceilings; incandescent lighting; hot water heating; provision for summer cooling.

WB 3-10. Previous report 1-13

▲LOCKER ROOM ALTERATIONS— Eugene, Ore.

Bids received March 8 by 13th Naval District, Bureau of Yards and Docks, Rear Admiral R. H. Meade, chief of bureau, room 100, Building 232, U. S. Naval Station, Seattle, for alterations to the locker rooms at the U. S. Naval and Marine Corps Reserve Training Center, Eugene; NBy-1903; Spec. No. 1903/56. LOW BIDS: John M. Steinmuller, Jr., 2705 Willamette, Eugene, $7,712; Robert C. Wilson, 1020 N. 25th, Corvallis, $8,302; R. A. Chambers & Associates, 109 29th E., Eugene, $8,366.

GW 3-10. Previous report 2-10

AIR BASE— Fairfield, Ore.
(Estimated $13,000,000)

Preliminary engineering work, including drilling and driving property stakes, is under way at the 15,000 acre site at Fairfield for the Air Force's air base. The engineering data will be compiled and presented to Congress for final approval and appropriation. The Federal Air Space Coordinating Committee has announced its approval of a site west of Woodburn. This means that establishment of a base at Fairfield, 15 miles north of Salem, would not interfere with present air activities. DC 3-6

FIRE HALL— Forest Grove, Ore.

James Gardiner, architect, and Frank Rommel, associate architect, Royal Slope, have been retained by City Council and Forest Grove Rural Fire District, to draw plans for a new fire hall to be built on the east side of Ash St., in Forest Grove. Project is contingent on a bond issue to help finance construction. GC 3-6

CHURCH— Hermiston, Ore.
(Estimated cost $60,000)

Charles B. Miller, architects, Bond Bldg., Pendleton, is drawing plans for Our Lady of Angels Catholic Church, Hermiston. Building will face Hermiston avenue at the corner of 6th St. on site of the old structure, which will be torn down.

One story 101'x40; 4,200 sq. ft.; brick construction and will include partial facing of redwood. MC 3-6

LIBRARY ADDITION— Hermiston, Ore.
(Estimated cost $10,000)

New bids will be called for construction of an addition to the Hermiston library. The money now on hand, about $7,450, will be used to start construction. Bids were opened last fall and rejected.

DC 3-14. Previous report 11-23

■ GRADE SCHOOL— Hood River, Ore.

Planholders announced for alteration to existing gymnasium, demolition of existing school building and construction of a new grade school at the May Street School site. Bids to be opened 8 p.m., March 22, by Hood River City School District No. 3, Hood River County, Wayne Foster, superintendent-clerk, Hood River High School, Hood River, Ore. Plans with Edmundson, Koch-endoerfer & Kennedy, architects and engineers, 325 Henry Bldg., Portland. $50 deposit. Certified check, cashier's check or bid bond 5%.

Planholders: H. G. Carl Construction Co., P. O. Box 387, Salem; Emerick Construction Co., 45040 S.E. 17th Ave., Portland; Bickford Construction Co., 823 S.E. 28th Ave., Portland; Smith-Phillips Co., 7402 S.W. Macadam Ave., Portland; Mid-State Construction Co., 810 Union, The Dalles; Beebe Construction Co., 2134 N. Flint Ave., Portland.

WB 3-14. Previous report 3-2

HARDBOARD PLANT— Klamath Falls, Ore.

Purchase has been announced by Johns-Manville Corp. of 131 acres of allotted land on the Klamath Indian reservation. The land is needed to assure access to a proposed hardboard plant which may be constructed by the Johns-Manville firm. DC 3-14

▲SWIMMING POOL— McMinnville, Ore.

Bids received by City Council, City Hall, McMinnville, for construction of a municipal swimming pool and bathhouse. Plans by Cornell, Howland, Hayes & Merryfield, consulting engineers, 1600 Western Ave., Corvallis. LOW BIDS: L. F. Henshaw, 2207 Olive St., Eugene, $188,188 (basic), $197,888 (enlarged pool); Longport Construction Co., Portland, $199,447, $207,447; Bickford Construction Co., Portland, $203,100, $206,200. Bids opened March 6.

DC 3-10. Previous report 1-23

★HOSPITAL— Medford, Ore.

Award to Gates City Steel Co., 4000 Warm Springs Ave., Boise, $99,200 by Medford Hospital Association for furnishing and erecting structural steel framework for the 78-bed Rogue Valley Memorial Hospital in Medford. Consulting engineer is A. D. Harvey, Goldy Bldg., Medford.

Bids on general construction of the $2,000,000 hospital will be opened in June.

DC 3-10. Previous report 2-1-1932

■ ARMORY— Medford, Ore.

Planholders announced for the construction of an armory in Medford. Bids to be opened 2:30 p.m., March 28, by Lt. Col. William H. Adams, contracting officer, for the National Guard Bureau, 504 State Office Bldg., Salem. Specifications with the bureau at above address. $25 deposit.

Planholders: Donald M. Drake Co., 1400 N.W. Savier St., Portland; S. Ferche, Box 542, Roseburg; Bessonette & Graff, Box 705, Medford; Medford Millwork Co., Box 385, Medford; Timber Structures, Box 3782, Portland; H. G. Carl, Box 387, Salem; Graham & Ruhl, 1205 Sage Road, Medford; Trowbridge & Flynn Electric Co., 214 W. Main St., Medford; Modern Plumbing and Sheet Metal Works, 613 E. Jackson, Medford; McLaughlin Plumbing and Heating Co., Box 141, Medford; Electronic Service, 18 N. Grape St, Medford; Westinghouse Electric Supply Co., 1233 Court St., Medford; Myers Jones and William E. Brooks (joint venture), 813 Minnesota, Medford.

GW 3-14. Previous report 3-6

RETIREMENT HOME ADDITION— Milwaukie, Ore.
(Estimated cost $1,250,000)

Plans announced for annex to Willamette View Manor, 2705 Southeast River Road, Milwaukie, by Oregon Methodist Homes, Inc., Rev. Edward Terry, president of board of trustees, Portland. Preliminary plans have been completed by Leslie E. Poole, engineer, Portland, and working drawings

are to be complete about May 1.

Willamette View Manorette, four-story structure with 106 apartments, to be connected to the existing eight-story Manor, and located about 150' south. Reinforced concrete construction; metal doors and sash; wall-to-wall carpeting in rooms and corridors; each apartment to be wired for radio and television outlets and have private telephone; two buildings to be connected by glass-enclosed corridor; heating plant; 38 garage spaces in basement; elevator. Residents of Manorette will use dining room, kitchen, laundry and infirmary facilities at main building. WB 3-7

★**SCHOOL ADDITION— Myrtle Point, Ore.**

Award by Coos County High School District No. 2, Myrtle Point, for addition and remodeling at Myrtle Point Union High School. Plans by Freeman, Hayslip, Tuft & Hewlett, 2040 S.W. 3rd, Portland. AWARD: Todd Building Co., Box 27, Rosbeurg, $467,391. ONLY OTHER BID: Industrial Building Co., 940 Pacific Highway N., Eugene, $468,800. WB 3-19. Previous report 2-29

●**ELEMENTARY SCHOOL ADDITION— Myrtle Point, Ore.**

Bids to be opened 8 p.m., March 27, by School District 41-C, Coos County, Paul Franzen, superintendent, Myrtle Point, for an addition to the Myrtle Point Elementary School in Myrtle Point. Specifications with R. J. Keeney, architect, 210 Fluhrer Bldg., Medford. $50 deposit. Certified check or bid bond 5%.

One-story; 159'x115'; concrete footings, foundation; block walls; concrete slab floors; timber beams; flat roof; masonry partitions; concrete stairways; wood windows; block exterior wall finish, wood trim; exposed masonry partitions; asphalt tile flor finish; acoustical tile ceiling; wood doors, cabinets; blanket insulation in ceiling; steam heating system, oil fired. DC 3-10. Previous report 3-7

▲**PUMP ELECTRICAL EQUIPMENT— Oakridge, Ore.**

Bids received by City Council, City Hall, Oakridge, for a 750-gallon per minute pump, 50 hp. electric motor and miscellaneous electric equipment. Plans by Charles Bayles, consulting engineer, 2021 Riverview St., Eugene. BIDDERS: Ramsey Waite Co., 4104 Franklin Blvd., Eugene, $2,337; Pump Pire and Power Co., 265 N. Hancock, Portland, $3,735. Both basic bids. Bids were opened March 7. GW 3-14. Previous report 2-29

●**HIGH SCHOOL— Philomath, Ore.**

Bid opening postponed from March 20 to 8 p.m., March 27, by School District No. 17C, Benton County, Dean Tatom, clerk, High School, Philomath, Ore., for a new high school at South and "N" Sts. Plans with Freeman, Hayslip, Tuft & Hewlett, 2040 S.W. 4th Ave., Portland. $50 deposit. Certified check, cashier's check or bid bond 5%. WB 3-14. Previous report 2-25

SHOPPING CENTER— Portland, Ore.

Plans announced by Multnomah Investment Co., W. P. Yaw, president, 1000 S.W. Vista Ave., Portland, for shopping center building on former parking lot for Yaw's Top Notch restaurant, between N.E. 41st and 42nd Aves. near Sandy Blvd. Plans by Wolff & Zimmer, architects, Pearson 4th Avenue Bldg., Portland.

One-story, 40'x200' building, with partial basement considered; 10' covered walkway across 200' front; 12' arcade through center of building to parking lot; shops will be of interest to women. WB 3-7

CHURCH ADDITION— Portland, Ore.
(Estimated cost $85,000)

Fund drive under way by Parkrose Community Congregational Church, Rev. Duane Nicol, pastor, N.E. 105th Ave. and Wygant St., Portland, to complete financing for new educational unit. Plans under way by Warren Weber, architect, 610 Fenton Bldg., Portland.

New wing to face N.E. 106th Ave.; two-story structure of modern design, with covered passageway connecting to main building; concrete pillars along south wall to take place of blinds; first floor to include nursery and crib room, beginners,' primary and lower junior departments, classrooms, office and work room; second floor to contain junior, junior Pilgrim and senior Pilgrim fellowship rooms, kitchenette and fireplace. WB 3-7

▲**SCHOOL ADDITION— Portland, Ore.**

Complete list of bids opened 8 p.m., March 8, by School District No. 95, Washington County, Mrs. Myrtle Raasch, clerk, Raleigh School, 5225 S.W. Scholls Ferry Road, for addition to the school. Plans by Max P. Williams and Robert B. Martin, architects, 1919 S.W. 12th Ave., Portland. LOW BID: Sterner Construction Co., 13845 S.E. Rhine St., Portland, (Basic) $72,490. OTHER BIDS: United Builders, Box 211, Beaverton, $73,900; Enger Bros., 620 S. Hall St., Beaverton, $74,942; Gene Settergren, 1625 S.E. Woodward St., Portland, $74,987; R. A. Motley, 5029 S.E. Taylor St., Portland, $81,528. Contract will probably be awarded to Sterner on basic bid plus Alternate 2, or total of $89,802. WB 3-9. Previous report 3-8

★**ELECTRICAL FIXTURES— Portland, Ore.**

Award to Baker-Barkon Co., 1335 S.W. Morrison St., Portland, $3,175, by Board of County Commissioners, Multnomah County, John W. West, purchasing agent, room 504, Courthouse, Portland, for furnishing and installing electric fixtures in Multnomah County School and Health Bldg., N.E. 122nd Ave. and N.E. Glisan St. WB 3-10. Previous report 2-24

●**TOILET FACILITIES— Portland, Ore.**

Bids to be opened 10 a.m., March 30, by Commission of Public Docks, Thomas P. Guerin, general manager, 3070 N.W. Front Ave., Portland, for construction of new toilet facilities at Terminal No. 2 and Terminal No. 4. Plans with dock commission office. WB 3-10

★**REMODELING BUILDING—Portland, Ore.**

Award to A. C. Schommer, 5226 N.E. Wistaria Drive, Portland, $12,990, by Board of Multnomah County Commissioners, John W. West, purchasing agent, room 504, Courthouse, Portland, for remodeling the Stark-Davis Bldg., on southwest corner of S.E. Water Ave. and Madison St., Portland.

Work consists of removing corner of warehouse building to make way for highway construction and replacing with reinforced concrete wall. WB 3-10. Previous report 2-18

★**MEDICAL BUILDING— Portland, Ore.**

Award to A. V. Petersen, P.O. Box 2368, Portland, no amount announced, for a medical-dental building at 904 N.E. 47th Ave. for Dr. R. W. Marcum, Selling Bld., Portland. Plans by Dougan & Heims, architects, 401 Royal Bldg., Portland. Bids were opened February 3.

Exposed steel frame with precast stone panels; acoustical ceilings; plaster wall finish; asphalt tile and cork floors; bonded built-up roofing; steel sash; low-pressure steam heating; incandescent and fluorescent lighting; paved parking lot; landscaping. WB 3-10. Previous report 1-25

★**SCHOOL EQUIPMENT— Portland, Ore.**

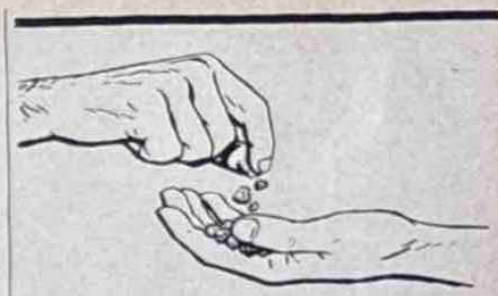
Award to Manchester-Chandler Co., 2915 N.E. Alberta St., Portland, $599, by Portland School District No. 1, L. J. Baker, business manager, 620 N.E. Halsey St., for public address equipment for cafeteria at Woodrow Wilson High School. Other awards pending. Bids were opened February 8. WB 3-10. Previous report 1-26

★**GYMNASIUM, AUDITORIUM EQUIPMENT— Portland, Ore.**

Award to Northern School Supply Co., 1505 N.W. Lovejoy St., Portland, $13,073, by Portland School District No. 1, L. J. Baker, business manager, 620 N.E. Halsey St., Portland, for stage equipment for Woodrow Wilson High School. Bids for bleacher seats and auditorium seating held under advisement. WB 3-10. Previous report 2-11

★**BRANCH BANK— Portland, Ore.**

Awards by (bids opened February 17) First National Bank of Portland, C. B.

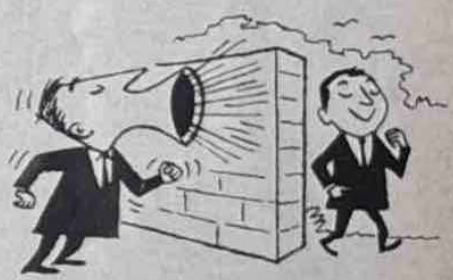


CASCADE PUMICE

hands you added sound absorption in concrete masonry

Specify Cascade Pumice Concrete for low sound transmission and high sound absorption in masonry and structural concrete. Also, the low K factor cuts heating and cooling costs for the life of the building. Find out all the facts about Cascade Pumice today. Write for complete technical data now.

Specify Cascade Pumice Concrete for:



SOUND ABSORPTION
FIRE RESISTANCE
STRENGTH
EXTRA LIGHT WEIGHT

WILLIAMSON *Cascade* PUMICE

Plant and Office:
P. O. Box 1083 • Bend, Oregon

Stephenson, president, 404 S.W. 6th Ave., Portland, for a branch bank at S.W. 6th Ave. and Lincoln St., Portland. Plans by Roald, Schmeer & Harrington, architects, 1104 Portland Trust Bldg., Portland. GEN.—AWD: Contractors, Inc., 1101 N.E. 21st Ave. MECH.—AWD: Peninsula Plumbing Co., 2911 N. Lombard St. ELEC—AWD: A. R. Johnson, 1926 N. Flint Ave. No amount announced. All of Portland.

Reinforced concrete construction with brick veneer exterior; colored aluminum facia material; granite and aluminum trim; built-up roofing; hot water convector radiation heating; air conditioning; rubber tile flooring; acoustical tile ceilings; plaster and wood panelling wall finish; recessed incandescent lighting fixtures.

WB 3-13. Previous report 2-10

▲BUILDING ALTERATIONS— Portland, Ore.

No bids were received March 12 by William C. Ryan, secretary, Oregon State Board of Control, room 124, Capitol Bldg., Salem, for alterations to the state office building in Portland. MG 3-14. Previous report 3-3

▲TRUCK TERMINAL— Portland, Ore.

Bids opened March 12 by Consolidated Freightways, Inc., 2116 N.W. Savier St., Portland, for a truck terminal building between 20th and 21st Aves., and from Raleigh St. north through Savier St. Plans by Stevens & Thompson, consulting engineers, National Bldg., Portland. LOW BIDS: Henry M. Mason Co., 2206 N.W. Thurman St., $223,164; E. E. Settergren, 3723 S.E. 21st Ave., $224,898; Howard Brewton, 716 N.E. 3rd Ave., $224,927. Of Portland.

WB 3-14. Previous report 3-2

●HOTEL ADDITION— Roseburg, Ore.

Bids to be opened 12 noon, March 30, by Umpqua Hotel, Roseburg, at the hotel, for addition and remodeling of the hotel. Plans with Ralph C. Bonadurer, architect, 1111 S.E. Sandy Blvd., Portland. $25 deposit.

Two-story, 80'x50' addition to contain rental space on lower floor and addition to dining facilities on upper floor. Poured reinforced concrete construction; long span steel joists; metal roof deck under insulation and built-up roofing; aluminum sash; metal fire doors; interior finish to be done under separate contract later. WB 3-13

HOTEL ADDITION— Salem, Ore.
(Estimated $850,000)

Plans under way by Union Security Co., Harry Hawkins, president, owners of Marion Hotel on an addition to the existing hotel on S. Commercial St. and a 130-unit motel on Trade St. and S. Liberty St., Salem. Construction will start in the spring.

The expansion plan involves construction of a two-story addition on south end of existing hotel, construction of a motel and swimming pool on adjoining property.

DC 3-7

▲LOCKER ROOM ALTERATIONS— Salem, Ore.

Bids received March 8 by 13th Naval District, Bureau of Yards and Docks, Rear Admiral R. H. Meade, chief of bureau, room 100, Building 232, U.S. Naval Station, Seattle, for alterations to the locker room at the U.S. Naval and Marine Corps reserve training center, Salem; NBy 1902; Spec. No. 1902/56. LOW BIDS: A. W. Willis Hill, 1975 Beach Ave., Salem, $6,794; R. L. Forester & Son, 2180 Wallace Road, Salem, $6,997; Mills Construction Co., Route 2, Box 294, Salem, $7,126. GW 3-10. Previous report 2-23

★WAREHOUSES— Salem, Ore.

Award announced by Lyle Bartholomew, architect, 3335 Pringle Road, Salem, on warehouse for Capitol City Transfer Co. and Pram Corp. AWARD: E. E. Batterman, 147 N. Commercial St., Salem, $35,518.

DM 3-13. Previous report 3-2

DAIRY PLANT— Salem, Ore.

A ten-acre tract of land has been purchased along the south side of Mission Street, where 23rd Street ends, by Curly's Dairy, Hans Hofstetter, president, Salem. Construction is expected to start sometime this year. MC 3-14

▲BUILDING ALTERATIONS— Salem, Ore.

Bids received by William C. Ryan, Oregon State Board of Control, room 124, Capitol Bldg., Salem, for alterations to the public service building at Salem. LOW BIDS: T. J. Patzer, 1960 Hiway Ave., Salem, $2,575; E. E. Batterman, 147 N. Commercial St., Salem, $2,800. Bids were opened March 12 in Salem. MG 3-14. Previous report 3-3

★STORE ADDITION— Springfield, Ore.

Award by Springfield Glass Store, 225 Main St., Springfield, for construction of an addition and remodeling of the store. Plans by Balzhiser & Seder, architects, 1920 Franklin Blvd., Eugene. AWARD: Albert Vik & Son, 160 Madison, $9,377. OTHER BIDS: Elson C. Shields, 170 Patterson, $10,092; Cascade Contractors, 175 E. 4th, $10,400. All of Eugene. DW-G 3-13. Previous report 3-6

WASHINGTON

●WATER DISTRIBUTION SYSTEM— American Lake, Wash.

Bids to be opened 1:30 p.m., E.S.T., April 24, by Veterans Administration, director of design service, room 2707 Munitions Bldg., Washington, D.C., for improvements to water distribution system for automatic fire sprinkler in the Veterans Administration Hospital, American Lake; Project No. 46-5115; Spec. No. 5616. Plans and specifications with Veterans Administration after March 21.

Work will include materials and installation of new underground cast iron water pipe, consisting of approximately 750' of 8"; 200' of 6"; gate valves; connections; miscellaneous items. GW 3-14

STORES— Anacortes, Wash.

Architect Don L. McKee, 915 5th, Anacortes, retained by Roy E. Harris, Laurel, Wash., to prepare plans for two retail stores at north end of Harris Bldg., 10th and Commercial, Anacortaes. Plans call for addition of two annexes to existing building, each to be 25' wide, 60' deep, with basement; replacement of sidewalk in front of building; remodeling two existing store fronts.

JD 3-3

SCHOOL— Anacortes, Wash.

A $50,000 bond issue which was to have been balloted on May 8 has been rescinded by Anacortes School District, Clarence Henning, superintendent, Anacortes, and a new resolution calling for $100,000 bond issue has been placed. In addition, a special 20-mill levy will be voted upon. Plans have been revised by Don L. McKee, architect, 915 5th St., Anacortes, for construction of a 12-classroom elementary school building at 24th Ave. and J St., in Anacortes. This will replace the 6-classroom elementary school to have been at the Whitney school site.

JD-G 3-1

OFFICE BUILDING— Anacortes, Wash.

Construction will start soon by Columbia Valley Lumber Co., E. E. LeValley, president, Bellingham, of new office building at 17th and Commercial, Anacortes.

JD-M 3-9. Previous report 12-29

ANHYDROUS AMMONIA PLANT— Attalia, Wash.
(Estimated cost $18,400,000)

Construction pending financial arrangements by Columbia River Chemical Corp. on anhydrous ammonia plant to be built at Attalia. The plant was first announced in 1954 as a $10,000,000 project, but cost estimate has been raised. Project will be across McNary reservoir from a $15,000,000 ammonia plant recently started by Phillips Pacific Chemical Co. at Finley. DC 3-14

REMODEL BUILDING— Bellingham, Wash.

Plans under way by Pacific First Federal Savings and Loan Association, Archie M. Banks, manager, 114 Building, Bellingham, for remodeling Kulshan Buildings at Cornwall and Magnolia, Bellingham. The interior and exterior of both buildings will be altered and renovated to permit occupancy by the loan company and other tenants.

JD 3-2

▲CONCRETE FLOOR— Bellingham, Wash.

Bids received March 8 by State Department of Fisheries, Robert J. Schoettler, director, foot of Washington St., Olympia, for installation of 3,115 sq. ft. concrete floor at the Samish State Salmon Hatchery located 14 miles south of Bellingham. LOW BIDS: Bellingham Paving Co., foot of West St., Bellingham, $1,335; John Louws, Box 98, Linden, $1,450; Pearson Construction Co., Box 632, Bellingham, $1,521. MG 3-14

●SCHOOL— Bellingham, Wash.

Bids to be opened 7:30 p.m., March 28, by Bellingham School District No. 50, Gordon Carter, superintendent, Roeder School, Bellingham, for construction of the Alderwood Elementary School at the intersection of Alderwood, Hollywood and Redwood Avenues in Bellingham. Plans with Richard Stradling, 510 Herald Bldg., Bellingham. $25 deposit. Bid bond 5%.

One-story; 193'x106'; rectangle; 15,600 sq. ft.; reinforced concrete footings and foundation; solid masonry, block, frame, and metal window walls; concrete slab floors; timber beams, steel channels and pipe columns; flat mill glued laminated roof; masonry, frame partitions; steel windows; porcelain enamel exterior finish, metal painted trim; painted interior finish, metal painted trim; exposed masonry drywall partitions; linoleum, asphalt tile, ceramic tile floor finish with maple in multipurpose room; acoustical ceilings with luminous suspended fiberglas; metal exterior and interior doors; wood cabinets; corrugated plastic panels; fire doors; blackboards; fiberglas and fiber insulation in roof and window walls; hot water heating system, oil fired; unit ventilators. MG 3-13. Previous report 3-2

WAREHOUSE— Bellingham, Wash.
(Estimated cost $115,000)

Construction of new warehouse is planned by Mount Baker Plywood Co., Squalicum Fill, Bellingham. Warehouse will be located on Port of Bellingham property, near present site of Mount Baker Plywood Co. Frame building; 14,000 sq. ft. JD-M 3-14

REFINERIES— Bellingham, Wash.
(Estimated $47,000,000)

Certificates of necessity has been issued to two oil companies desiring to build refineries in the northwest. Sites are being sought by the firms in the Bellingham-Anacortes area. Straits Refining Co., Texas, plans a $27,000,000 refinery, and New England Industries allied with Texas oil interests, plans a $20,000,000 refinery. DC 3-14

STUDENT UNION BUILDING— Bellingham, Wash.
(Estimated cost $500,000)

Construction of student union building at Western Washington College, Bellingham, has been approved and plans call for building to be constructed in 500 block of High St., Bellingham. Building to contain lounge and fountain, dancing area, television room, game room, bookstore, post office, committee workrooms, alumni office, seminar study room, barber shop, darkroom and cafeteria.

JD-M 3-14

HOSPITAL EXPANSION— Bremerton, Wash.

The obstetrical department of Harrison Memorial Hospital will be enlarged with the $32,200 grant offered by the Ford Foundation, according to Charles Innes, president of board of trustees, Bremerton. An outline of proposed work must be submitted to the foundation for approval before the money will be forthcoming. DC 3-14

●BUILDING REPAIRS— Burton, Wash.

Bids to be opened 2 p.m., March 29, by 13th Coast Guard District, J. A. Levasseur, contracting officer, room 922, 618 2nd Ave., Seattle, for modernization and repairs to a building at the U.S. Coast Guard Light Station, Point Robinson Light Station Bur-

ton, Wash.; Bid No. FS-1352. Specifications with Coast Guard. Bid bond 5%. GW 3-14

●HEATING PLANT— Cheney, Wash.

Bids to be opened 3:30 p.m., March 30, by W. W. Force, comptroller of Eastern Washington College of Education, at the office of the architect, George M. Rasque & Sons, Washington Trust Bldg., Spokane, for the conversion of the central steam heating plant at the college in Cheney. Certified check or cashier's check 5%. Plans and specifications may be obtained from H. Jack Reeves, engineer, Symons Bldg., Spokane. $50 deposit. MC 3-10

■STUDENTS HOUSING— Cheney, Wash.

Planholders announced for the construction of married students housing on campus of Eastern Washington College of Education, Cheney. Bids to be opened 3 p.m., March 30, by Eastern Washington College, Dr. Don Patterson, president, Administration Bldg., Cheney. Plans with George M. Rasque & Son, rchitects, 303 Washington Trust Bldg., Spokane. $25 deposit. Certified check, cashier's check or bid bond 5%.

Planholders—GENERAL: S. G. Morin & Sons, W. 411 2nd Ave.; Hansen & Parr Construction Co., W. 315 Boone Ave.; Warner & Brown, Inc., N. 2904 Madella; Hazen & Clark, Inc., W. 108 Boone Ave.; Peter J. Young & Sons, E. 1211 Columbia Ave.; AAA Construction Co., N. 739 Helena; Busboom & Rauh, N. 601 Cedar St.; Spilker Building Co., N. 1410 Howe St., Yardley; Purvis Construction Co., E. 5019 Sprague. MECHANICAL: Arnold & Jeffers, N. 1309 Ash St.; Harry Lewis Plumbing and Heating Co., B. 1003 Washington; James Smyth Plumbing and Heating Co., N. 216 Division; Adams & Little Plumbing and Heating Co., N. 1329 Howard; Womack Plumbing and Heating Co., S. 328 Jefferson; Standard Plumbing and Heating Co., E. 1801 Sprague; Peck & Gale Plumbing and Heating Co., 8211 Washington. ELECTRICAL: Maxwell's, Inc., E. 14 Mission Ave.; Electric Smith, Inc., 123 Sprague; Power City Electric Co., N. 920 Howard; Mott Electric Co., E. 3915 Trent Ave.; Rod's Electric Co., N. 1020 Washington; D. G. Quinton Co., N. 1413 Division; Adams Electric Co., N. 416 Division; Stack Electric Co., 1126 Northwest Blvd. All bidders of Spokane, unless otherwise stated.

CE-G 3-14. Previous report 3-6

●BUILDING REMODELING— Clallam Bay, Wash.

Bids to be opened 10 a.m., March 29, by 13th Coast Guard District, J. A. Levasseur, contracting officer, room 922, 618 2nd Ave., Seatle, for renovation and remodeling of two buildings at the U.S. Coast Guard Slip Point Light Station, Clallam Bay, Wash. Bid No. FS-1351. Specifications with U.S. Coast Guard. Bid bond 5%. GW 3-14

CHURCH— College Place, Wash.

(Estimated $61,000)

Plans are under way by First Presbyterian Church, Reverend Donald Griffin, pastor, College Place, for a two-unit building program. The program involves construction of a sanctuary, fireside room and Sunday School facilities as the first unit, and a fellowship hall and enlarged Sunday School space as the second unit. Site of the new building is on a two-acre tract on D St. on the College Place highway at Damson St. DC 3-1

STEAM POWERPLANT— Cosmopolis, Wash.

C. C. Moore & Co., San Francisco, consulting engineers, are conferring with L. H. Hoffman Co., on a contemplated steam power plant for the Weyehaeuser Timber Co., fronting the Chehalis Road, S.E. of Aberdeen in Cosmopolis. The mill is under construction by general contractor L. H. Hoffman Co., 715 S.W. Columbia, Portland. GC 3-13

▲SCHOOL ADDITION— Coulee City, Wash.

Bids received by Coulee City School District No. 150-204J at the office of the architect, Kenneth W. Brooks, 707 W. 5th Ave., Spokane, for construction of an elementary school addition in Coulee City. LOW BIDS: Warner & Brown, Inc., N. 2904 Madelia St., Spokane, $71,945; Cherf Bros., and Sandkay, Inc., Box 938, Ephrata, $77,600. Bids were opened in Coulee City March 6.

CE-M 3-9. Previous report 3-1

SCHOOLS— Deming, Wash.

(Estimated cost $150,000)

Proposed school building program outlined by Mount Baker School District 507, William Castles, superintendent, Deming, for new construction and remodeling in the district. The school district plans to ask voters for an extension of the present five mill levy that will be paid off next year.

Program involves: addition to present high school agriculture shop building, $65,000; remodeling present agricultural shop into metal shop, $10,000; equipping shop and classroom, $5,000; enlargement of offices, $15,000; addition to Deming Elementary School, $20,000; covered grandstand, $15,000; administration building for high school, $15,000. JD 3-3

INFIRMARY ADDITION— Des Moines, Wash.

(Estimated cost $1,600,000)

Preliminary plans under way by Bain & Overturf, architects, 700 Marion St., Seattle, for additions to the Wesley Gardens Infirmary, in Des Moines, for Wesley Garden Board of Trustees, Alfred J. Johnson, president, Tacoma. It is sponsored by Methodist Church.

Project will consist of two buildings, one a five-story wing with basement, containing 142 residence rooms, new administration offices and dining and social hall; the second building will be a one-story and basement, 30-bed infirmary. Reinforced concrete will be used throughout. GW 3-1

BANK— East Wenatchee, Wash.

Site to be selected soon by Chief Joseph State Bank, W. K. Harper, president, Bridgeport, for construction of an East Wenatchee branch bank. DC 3-14

HOSPITAL ADDITION— Enumclaw, Wash.

Plans nearly complete by John Hansen for an addition to the Enumclaw Community Memorial Hospital. Bids will be called by the Board of Directors, Enumclaw, in the near future. DC 3-1

★SCHOOL— Ephrata, Wash.

Awards by Ephrata School District No. 165, Noble S. Moodhe, superintendent, A St. and 3rd St. S.E., Ephrata, for construction of the Stover Elementary School, Ephrata. AWARDS—GENERAL: Allied Construction Co., Box 97, Ephrata, $144,536 (minus alternates). MECHANICAL: Standard Plumbing and Heating Co., E. 1801 Sprague, Spokane, $55,618. ELECTRICAL: J & M Electric Co., Ephrata, $13,000.

GW 3-10. Previous report 3-6

AIRLINE TERMINAL— Everett, Wash.

Final plans have been approved by Snohomish County Commissioners and George Forbes, airport manager, for construction of a new overhaul and maintenance center for Alaska Airlines at Paine Field, Snohomish County Airport. Bids will be called later in March. Plans by T. M. Carstensen, industrial and commercial engineer, 405 Alaska Trade Bldg., Seattle, and Thomas Albert Smith, architect, Lowman Bldg., Seattle.

Project involves hangar, 42,000 sq. ft.; engine overhaul and miscellaneous shops and terminal totaling 27,000 sq. ft. The buildings will have fire protection system; wood laminated arches. The terminal building to be 70'x40'. EE 3-3

PUD OFFICE BUILDING— Everett, Wash.

(Estimated cost $600,000)

Plans to be completed about March 15 by William Arild Johnson and Associates, architects, 3506 Broadway, Everett, for new office building for Snohomish County PUD No. 1, corner of Virginia and California, Everett. Bids will be called at later date by Snohomish County PUD No. 1, 3030 Colby, Everett.

Two-story and basement; 111,000 cubic feet; 65'x181'; 2,765 sq. ft. area of building; reinforced concrete footings and foundation; poured concrete walls; concrete slab floors; concrete and steel beams; flat concrete roof; masonry, steel lath and plaster partitions; concrete stairways; aluminum windows; brick and aluminum exterior wall finish, plaster and aluminum interior wall finish; plaster, metal lath partitions; rubber tile and terrazzo floor finish; plaster acoustical tile ceilings; aluminum exterior doors, hollow metal interior doors; wood, metal cabinets; folding doors; glass panels; fire doors; high pressure velocity air heating-cooling and air conditioning system; dual duct; electric hot water boiler; rigid insulation in roof and walls.

HH-M 3-3. Previous report 1-17

LUMBER PLANTS— Everett, Wash.

Officials of Everett Plywood and Door Corp. have announced expansion plans exceeding $50,000,000 in the Phillippine Islands and in Everett. The company has announced that it has exercized its options

Damp-proof Concrete with ANTI-HYDRO

For concrete walls and foundations, be sure you specify Anti-Hydro, the integral water-proofer. This concrete sealer and primer hardens concrete, prevents freezing, makes it more water-resistant.

Anti-Hydro is backed by a 5-year maintenance guarantee. To damp-proof concrete, stucco and concrete blocks, specify Anti-Hydro on your next job. Write or phone Pioneer for details.

PIONEER SAND & GRAVEL CO.

901 FAIRVIEW AVE. N. ● 910 W. SPOKANE ST. ● SEATTLE ● MAin 2900

to purchase the entire capital stock and holdings of two corporations, the Doe-Bell Lumber Co. of Oregon and Lianga Logging Co. of the Philippines. Some of the Oregon properties will be shipped to the Philippines.

JUNIOR HIGH SCHOOL— Everett, Wash.

Plans to be completed in May by William Arild Johnson and Associates, architects, 3506 Broadway, Everett, for construction of the South Junior High School, to be located across Highway 99 from Everett Motor Movie, on west side of highway.
HH-M 3-13. Previous report 2-9.

COCKTAIL LOUNGE— Ferndale, Wash.

Permission has been granted by City Council, Ferndale, to Black Hawk Cafe, for construction of cocktail lounge. Sam Durgin is owner of the cafe. JD-M 3-14

● INSTALLATION OF MESS HALL EQUIPMENT— Fort Lewis, Wash.

Bids to be opened 1 p. m., March 22, by Purchasing and Contracting Officer, Fort Lewis, for the installation of mess hall equipment in 14 buildings at Northeast Fort Lewis, Wash.; AVI-45-016-56-91. Bid bond 20%. Completion time 60 calendar days.
MG 3-9

● TENT FRAMES— Fort Lewis, Wash.

Bids to be opened 1:15 p. m., March 22, by Department of the Army, Harry C. Ryan, contracting officer, Fort Lewis, for the installation of wooden tent frames on existing concrete slabs, for National Guard use, Northeast Fort Lewis; INV. No. AVI-45-016-56-92). Plans with Army, Fort Lewis.
GW 3-13

▲ BUILDING REHABILITATION— Fort Ward, Wash.

Bids received March 12 by Department of Army, John E. Nyere, contracting officer, Washington Military District, Fort Lawton, Seattle, for rehabilitation of the administration building at Fort Ward, Bainbridge Island. LOW BIDS: W. T. Orr, Winslow, $3,596; H. L. Clawson & Co., 717 E. Northlake, Seattle, $3,900; Palmer Shops, 538 N. 78th, Seattle, $5,050.
GW 3-13. Previous report 3-1

GAP FILLER FACILITY— Ione, Wash.

Invitation for bids No. ENG-45-108-56-15 for gap filler facility, Ione, Wash., has been cancelled and invitation will be combined with other projects and issued under a new number in the near future. A new invitation will be issued at that time by Colonel N. A. Matthias, district engineer, Seattle District, 4735 E. Marginal Way, Seattle.
MG 3-14. Previous report 9-22

▲ HOUSING UNITS— Geiger Field, Wash.

Bids received by Department of Air Force, C. S. Phelps, procurement officer, Geiger Field, Spokane, for construction of 20 family housing units, site development and utilities at Geiger Field, Spokane; IFB-45-614-56-44. ONLY BIDDER: Selkirk Construction Co., W. 722 16th Ave., Spokane, $338,314. Bids were opened March 7 at Geiger Field, Spokane.
CE-M 3-10. Previous report 2-17

▲ REMODEL GYMNASIUM— Hoquiam, Wash.

Bids received March 7 by Hoquiam School District No. 28, William F. Bohrson, superintendent, Central Elementary School Office, Hoquiam, for remodeling of the high school gymnasium. Plans by John Graham & Co., architects and engineers, 1426 5th Ave. Bldg., Seattle. LOW BIDS—GENERAL: John P. Peterson, 205 4th St., Hoquiam, $93,718. MECHANICAL: Lent's, Inc., 279 4th St., Bremerton, $54,228. ELECTRICAL: Hoquiam Electric Co., 420 8th St., Hoquiam, $11,874.
GW 3-9. Previous report 3-3

LEGION POST HOME— Marysville, Wash.

Plans have been indefinitely postponed due to financing difficulties by American Legion, Charles Hutchinson, commander, Marysville, for construction of a Legion Post Home, 1408 8th St., Marysville.
HH-M 3-8

● DEMOLITION OF BUILDINGS— McChord AFB., Wash.

Bids to be opened 1:30 p. m., March 28, by Purchasing and Contracting Office, McChord AFB., for demolition of buildings, Sanitarium Area, at McChord AFB., Wash.; Inv. No 45-603-56-48. Bid bond 20%. MG 3-14

■ SCHOOL ADDITION— Millwood, Wash

Planholders announced for the construction of an addition to the Millwood Grade School. Bids to be opened 2 p. m., March 20, in the office of George M. Rasque & Son, architects, 303 Washington Trust Bldg., Spokane, by Orchard Park School District No. 143, C. O. Pence, superintendent, Millwood, Spokane, County. Plans with architects, $25 deposit.

Planholders—GENERAL: S. G. Morin & Sons, W. 411 2nd Ave.; Seneca Construction Co., N. 2817 Martin St.; Hansen & Parr Construction Co., W. 315 Boone Ave.; Warner & Brown, Inc., N. 2904 Madelia; Hazen & Clark, W. 108 Boone Ave.; Smith & Roberts, Box 6086; James L. Matthews, 703 E. 40th Ave.; P & B Construction Co., N. 2004 Bessie St.; AAA Construction Co., N. 739 Helena; Busboom & Rauh, N. 601 Cedar; Spilker Building Co., N. 1410 Howe St., Yardley; Purvis Construction Co., E. 5019 Sprague. All of Spokane unless otherwise stated.
CE-G 3-10. Previous report 3-8

● ELEMENTARY SCHOOL— Moses Lake, Wash.

Bid opening extended from March 8 to 8 p. m., March 20, by Moses Lake School District No. 161, C. B. McFadden, superintendent, Moses Lake, for construction of the Garden Heights Elementary School. Plans with Hovind, Harthorne & Smith, architects, 1500 Westlake N., Seattle. $50 deposit. Certified check, cashier's check, or bid bond 5%. Stevenson & Rubens are structural engineers, Olympic National Bldg.; Stanley Webster, mechanical engineer, Lowman Bldg., and Beverly Travis, electrical engineer, Medical Arts Bldg., all of Seattle.
GW 3-9. Previous report 3-3

▲ HANGAR— Moses Lake, Wash.

Complete list of bids received March 8 by Boeing Airplane Co., W. N. Ambur, plant facilities manager, 7752 E. Marginal Way, Seattle, for an eight-place hangar and facilities at Moses Lake Flight Center, Larson AFB, Grant County. Plans by Naramore, Bain, Brady & Johanson, architects and engineers, 904 7th Ave., Seattle. The following are all basic bids: Howard S. Wright, Inc., Box 3105, Seattle, $7,356,360 (Schedule A—concrete structure, $7,405,757 (Schedule B—steel structure); Robert E. McKee, 1221 Monterey Road, Glendale, Los Angeles, $7,458,900 (Schedule A), $7,342,000 (Schedule B); Sound Construction Co., $7,573,465 (Schedule A), $7,412,490 (Schedule B); Steenberg Construction Co., St. Paul, Minn., $8,234,000 (Schedule A), $8,879,000 (Schedule B); Guy F. Atkinson Co., Skinner Bldg., Seattle, $8,268,200 (Schedule A), $8,447,080 (Schedule B); Donavon Construction Co., St. Paul and Winston Bros., 301 Clifton, Minneapolis, Minn., (joint venture) $8,690,000 (Schedule A), $8,250,000 (Schedule B); Morrison-Knudsen Co., Inc., 603 Hoge Bldg., Seattle, no bid for Schedule A, $8,643,000 (Schedule B). GW 3-10

▲ ELECTRICAL WORK— Pasco, Wash.

Bids received by Pasco School District No. 1, Emerson Morgan, secretary, at the present junior high school office, Pasco, for electrical work on the new elementary school at Pasco. ONLY BID: Adams Electric, N. 416 Helena, Spokane, $30,500. Bids were opened March 7 in Pasco. MG 3-10

NAVAL STATION— Pacific Beach, Wash.
(Estimated $1,270,000)

Plans for a new naval station for Pacific Beach have been announced. Construction for establishment of a base will be started soon after next July 1. DC 3-2

CHURCH— Port Angeles, Wash.

Bids received March 6 and held under advisement by Holy Trinity Lutheran Church, Rev. Carl E. Fischer, pastor, Chase St. and Lopez Ave., Port Angeles, for construction of new church. Plans by Durham, Anderson and Freed, architects, 1100 Denny Way, Seattle. MG 3-9. Preivous report 2-27

▲ CHURCH— Port Angeles, Wash.

Bids received by Holy Trinity Lutheran Church, Rev. Carl E. Fischer, pastor, Chase St. and Lopez Ave., Port Angeles, for construction of new church. Plans by Durham, Anderson and Freed, architects, 1100 Denny Way, Seattle. LOW BIDS: Herbert U. Taylor, 1501 N. 35th, Seattle, $227,862; Del Guzzi Bros., 1020 E. Front St., Port Angeles, $224,000; Brazier Construction Co., 309 Pontius, Seattle, $246,000. Bid were opened March 6 and held under advisement.
MG 3-10. Previous report 3-6

★ GREENHOUSE— Prosser, Wash.

Award negotiated with Raymond J. Brixton, 4403 N. Rozalee Way, Yakima, $11,226, by Board of Regents, State College of Washington, Pullman, for construction of a greenhouse for Irrigation Experiment Station in Prosser. Plans were revised by Phillip Keene, college architect, and certain mechanical and electrical details were eliminated from the contract.
MH-G 3-9. Previous report 3-6

● SCHOOL GARAGE— Pullman, Wash.

Bids to be opened 2 p. m., April 16, by Pullman School District No. 307, Ruth Gleason, clerk, Pullman, for construction of bus stalls, shop area with hoist, furnace, toilet and work room, one-quarter mile west and north of the Pullman High School Building, Pullman. Plans with McClure & Adkison, N. 108 Washington St., Spokane. $25 deposit. Bid bond 5%.

One-story steel building, 60'x100' concrete slab floor. CE-M 3-14. Previous report 12-27

● FARM SHOP— Pullman, Wash.

Bids to be opened 2 p. m., April 16, by Pullman School District No. 307, Ruth Gleason, clerk, Pullman, for construction of vocational agriculture shop, classroom, office, toilet rooms and storage areas to present high school building, Pullman. Plans with McClure & Adkison, architects, N. 108 Washington St., Spokane. Kendall Wood, Hutton Bldg., Spokane, is the mechanical engineer; Joseph Doyle, Realty Bldg., Spokane, electrical engineer. $25 deposit. Separate bids will be received for general, mechanical and electrical work. Bid bond 5%.

One story; 50'x100' shop; 40'x70' classroom area; 9,600 sq. ft.; reinforced concrete footings and foundation; poured concrete wall, brick veneer, some solid; concrete slab floors; glued laminated beams, purlin, 2"x6" t&g decking over built-up roof; frame partitions; industrial steel windows; plywood exterior wall finish, stained wood trim; asbestos-vinyl tile floor finish; acoustic tile ceilings; steel exterior doors, two wood overhead doors; wood benches and shelves; metal lockers; chalk and tack boards; plank insulation in roof.
CE-M 3-14. Previous report 3-3

HIGH SCHOOL— Quincy, Wash.

Plans completed by Maloney & Whitney, architects, Larson Bldg., Yakima, for construction of new high school in Quincy. Bids to be called by School District No. 144, James R. Hoffner, superintendent, Quincy, as soon as plans have been approved by the state board of education.

Building includes classrooms, science room, laboratory, home economics, cafeteria, kitchen, library, health unit and administrative area. One story; tilt-up concrete walls; concrete slab floors; precast beams, flat roof; masonry partitions; steel windows; concrete with painted exterior and interior trim; exposed masonry partitions finish; vinyl tile floor finish; acoustical ceiling; hollow metal exterior doors, wood slab interior; wood cabinets; corrugated plastic panels; blackboards; special equipment in science, laboratory and kitchen; hot water steam heating system.
IG-M 3-8. Previous report H-

ELEMENTARY SCHOOL— Quincy, Wash.

A ten-acres site has been purchased on the southwest corner of the Weiler-Martin tract for an elementary school in Quincy. Preliminary plans will be presented by School District No. 144, James R. Hoffner, superintendent, to the State Board of Education for consideration in March. If approved and state funds allocated, the school district hopes to advertise for bids about June 7, open bids July 10, sign contracts July 24 and break ground August 1. MC 3-13

★BANK— Renton, Wash.

Award to B. F. Turnbull, Inc., 4351 Leary Way, Seattle, by Seattle First National Bank, O. K. Moody, manager of Renton branch, for expansion of the Renton quarters. Plans by Otis E. Hancock & Associates, architects, New World Life Bldg., Seattle.

Addition to existing bank will have 2,313 sq. ft. floor space. Contract includes alterations to existing building. DC 3-10

PORTABLE SCHOOL UNIT— Richland, Wash.

(Estimated cost $100,000)

Approval has been given by Atomic Energy Commission for the addition of a primary portable unit at Marcus Whitman School in Richland. Plans are under way by Richland District No. 400, Neal McClure, superintendent, 615 Snow, Richland. DC 3-6

SCHOOL REHABILITATION— Richland, Wash.

(Estimated $30,000 to $35,000)

Bids to be called soon by Richland School District No. 400, Neal McClure, superintendent, 615 Snow, Richland, for rehabilitation of Lewis and Clark School, Richland. DC 3-6

SHOP ADDITION— Richland, Wash.

(Estimated $10,000)

Bids to be called this spring by Richland School District No. 400, Neal McClure, superintendent, 615 Snow, Richland, for an addition to the school maintenance shops. Plans by Maloney & Whitney, architects, Larson Bldg., Yakima. DC 3-6

SCHOOL ADDITION— Richland, Wash.

(Estimated cost $230,000)

Bids to be called soon by Richland School District No. 400, Neal McClure, superintendent, 615 Snow, Richland, for an addition to Carmichael Junior High School. Plans are nearly complete by John Maloney, architect, Larson Bldg., Yakima.

Approximately 12,513 sq. ft.; 145'x80'; masonry end walls; prefabricated glass panel slide wall. Addition to be built on south end of existing building with covered walkway connecting the two structures. DC 3-6. Previous report 11-11

★TELEPHONE BUILDINGS— Salkum, Mossy Rock, Wash.

Award to Leslie Crawford Sr. and Leslie Crawford, Jr., Onalaska, $10,457, by McDaniel Telephone Co., J. C. McDaniel, Salkum, Wash., for two buildings to house dial telephone equipment, one at Salkum and one at Mossy Rock. Plans by Northwest Telephone Engineers, 1220 S.W. Stark St., Portland. Masonry block buildings with concrete slab roofs. WB 3-10. Previous report 2-21

BUILDING MODERNIZATION— Seattle, Wash.

Modernization of the Stimson and Cobb Buildings on the University of Washington owned downtown tract has started. University Properties, Inc., has negotiated contracts totaling $261,500 for the Stimson Bldg. and $266,700 for the Cobb Bldg. Repairs will include the following — STIMSON BLDG.: replacement of elevators; wiring and lighting fixtures; lobby, corridors and washrooms. COBB BLDG: wiring and light fixtures; renovating washrooms and corridors; plumbing and heating. Plans are by Naramore, Bain, Brady and Johanson, architects, 904 7th Ave., Seattle. GW 3-8

BUILDING RENOVATION— Seattle, Wash.

Contract negotiated with Cawdrey and Vemo, by Volkswagen of Washington, Inc., 423 E. Pike, Seattle, approximately $40,000, for renovation of a building at 1000 Virginia St., which will be used for automobile showrooms. One-story; 120'x120'; plate glass windows to be installed as part of the contract. Plans by James Klontz & Associates, architects, 784 Dexter Horton Bldg., Seattle. GW 3-9

WAREHOUSE— Seattle, Wash.

Contract negotiated with Howard S. Wright Co., Inc., 414 Pontius, Seattle, for approximately $100,000 by C. B. Van Vorst Co., for a new warehouse at 401 Boren Ave. N., adjoining the existing plant at Boren and Harrison, Seattle.

One-story; basement; 120'x120'; reinforced concrete walls and floors; sprinkler system; roof parking; provision for two additional stories. Plans by Arnold B. Gangnes, architect, 818 Seaboard Bldg., Seattle. GW 3-9

DORMITORY, HOUSING UNITS— Seattle, Wash.

Loan application of $600,000 approved by Housing and Home Finance Agency, L. R. Durkee, contracting officer, room 450, Federal Office Bldg., Seattle, for a building program for Seattle Pacific College, Dr. A. Hoyt Watson, president, 3307 3rd Ave. W., Seattle.

Building program includes construction of a dormitory for 180 women; 10 family housing units; enlargement of existing dining and kitchen facilities. Dormitory will be 200'x40', three-story and basement; reinforced concrete. Preliminary plans underway by W. G. Brust & Associates, architects, 906 Republic Bldg., Seattle. GW 3-9

●RE-WIRING BUILDING— Seattle, Wash.

Bids to be opened 2 p.m., March 28, by Highline School District, No. 401, Carl Laudenbach, business manager, 253 S. 152nd, Seattle, for rewiring part of the high school. Plans with Mallis & DeHart, architects, 631 Lyon Bldg., Seattle. Certified check, cashier's check or bid bond 5%. GW 3-10

★BUILDING ALTERATIONS— Seattle, Wash.

Award to Palmer Shops, 538 N. 78th, Seattle, $6,451, by General Services Administration, construction and repair division, W. W. Southworth, chief, room 126, Federal Office Bldg., 909 1st Ave., Seattle, for building alterations and fourth floor improvements in the immigrant station and assay office, Seattle. MG 3-10. Previous report 1-26

●TELEPHONE BUILDING ADDITION— Seattle, Wash.

(Estimated cost $1,000,000)

Bids to be opened 4 p.m., March 20, by Pacific Telephone and Telegraph Co., George Blackaller, acting engineer, Exchange Bldg., Seattle, for three additional stories on the existing building at 1915 Terry Ave., Seattle. Plans by Jones & Bindon, architects, 715 Hoge Bldg., Seattle.

Three additional stories and penthouse on existing building; remodel half basement; install elevator. New section to contain 105,000 sq. ft. of floor space; 120'x292'; reinforced concrete walls; steel joist, concrete slab floors with under-floor duct system; built-up roof with rigid insulation; masonry partitions; steel sash; ceramic veneer on exterior walls; brick veneer on penthouse; plaster interior finish; metal lath, plaster, acoustical tile for ceilings; holo steel doors; new boiler; extension of hot water convector heating system; ventilating system. GW 3-10

BUILDING REMODELING— Seattle, Wash.

Preliminary plans underway by James Klontz & Associates, architects, 784 Dexter Horton Bldg., Seattle, for remodeling Court Bldg., 900 4th Ave., Seattle. Building will be used as a library and club for the Catholic Archdiocese of Seattle, Most Rev. Thomas A. Connolly, archbishop, 907 Terry Ave., Seattle. GW 3-13

GARAGES— Spokane, Wash.

(Estimated cost $650,000)

Parkmaster Systems, Inc., Fernwell Bldg., Spokane, plans to install mechanical parking machine units for three new garages to be built in downtown Spokane. William G. Ennis is president of the company. One garage will be six story, two will be five story each. PN-M 3-7

MEDICAL, DENTAL BUILDING— Spokane, Wash.

(Estimated cost $50,000)

Plans have been completed by Arnie Tuninga, Spokane, for construction of a medical and dental building at Central and Division, Spokane. A. K. Sheely is owner of the building. Construction will start as soon as weather permits.

Office space for two physicians and two dentists. MC 3-8

SCHOOL ADDITIONS— Spokane, Wash.

Awards by School District No. 81, Spo-

COMFORT with ECONOMY in

PORTLAND

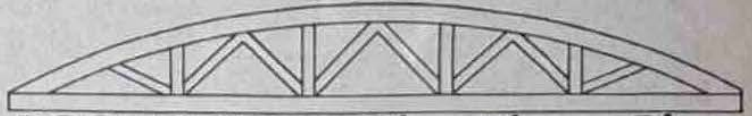
OREGON

Portland's fine home-like hotel in the center of the city—Unsurpassed service and fine cuisine makes your visit one of happiness and comfort.

Campbell Court Hotel

ELEVENTH AND MAIN STREETS

Our rates are especially reasonable. All rooms with private bath. Singles from $3.50. Doubles from $4.50



ROOF TRUSSES-Give Ring a Ring

Cover the overhead with custom cut "BOWSTRING" or "A" type TRUSSES for stores, warehouses, commercial, farm and utility buildings.

"Give Ring a Ring"

SHOW US THE WALLS — WE'LL COVER THE ROOF . . . OR YOU CAN!

RING & PITTS CLEAR SPAN ROOF TRUSSES

N. 2607 MONROE, SPOKANE 17, WASH. EMpire 4465

kane, for construction of 26 classrooms at various locations in Spokane. AWARD—GENERAL: Selkirk Construction, W. 722 16th, Spokane, $221,483. MECHANICAL: Harry Lewis Plumbing and Heating, 1003 Washington, Spokane, $68,118. ELECTRICAL: Frost Electric, N. 2115 Division, Spokane, $21,474. MG 3-10. Previous report 3-2

★COMMERCIAL BUILDING— **Spokane, Wash.**

Award to Smith & Roberts, Box 6086, Spokane, $37,467, by Washington Auto Carriage Works, Inc., Spokane, for construction of a new building. Plans by Willis Ed James, architect, 430 Old National Bank Bldg., Spokane. Bids were opened and held under advisement February 3.
CE-G 3-10. Previous report 1-25

CHURCH— **Tacoma, Wash.**
(Estimated cost $100,000)

Construction to start soon by Hope Lutheran Church, Reverend Robert W. Luteness, pastor, 62nd and Warner, Tacoma, on the church to be erected at 70th St. and S. Puget Sound Ave., Tacoma. Plans by Robert B. Price, architect, 2907 A St., Tacoma. The one-story structure will have 12,000 sq. ft. on street floor, 1,000 sq. ft. in basement; 117'x 115'. DC 3-2. Previous report 2-14

▲CHURCH— **Tacoma, Wash.**

Low bids received by Central Lutheran Church, Dr. William Rosenbladt, chairman of the building committee, in the office of the architect, Lea, Pearson & Richards, 240 S. Stadium Way, Tacoma, for construction of a new church to be located at N. 4th and Tacoma Ave., Tacoma. LOW BIDS—GENERAL: Questad Construction Co., 2858 30th Ave. West, Seattle, $413,475; Standard Construction Co., 315 E. 25th, Tacoma, $434,000; Anderson Construction Co., 115 S. 9th, Tacoma, $436,000. MECHANICAL: H-K Western, Inc., Box 362, Tacoma, $62,700; Weber Plumbing and Heating, Inc., 110 N. Tacoma Ave., Tacoma, $62,784; Kaelin Plumbing and Heating Co., 1301 Center St., Tacoma, $64,700. ELECTRICAL: Electric Construction Co., 1650 Center, Tacoma, $22,252; Eckroth Electric Co., 7915 "A" St., Tacoma, $24,592; Ault Electric Co., 4625 N. 11th, Tacoma, $25,930. Bids were opened March 6 in Tacoma.
MG 3-9. Previous report 2-25

●RE-SIDING, PAINTING— **Tacoma, Wash.**

Bids to be opened 2 p. m., P.S.T., March 29, by 13th Naval District, Bureau of Yards and Docks, Rear Admiral R. H. Meade, chief of bureau, room 100, Building 232, U. S. Naval Station, Seattle, for re-siding and painting buildings, 2, 3A, 4, 5, 6, 7, 9, 10, 11, 19, U. S. Naval and Marine Corps Reserve Training Center, Tacoma; NBy-1925; Spec. No. 1925/56.

The work involves the re-siding of buildings with asbestos-cement boards applied in clapboard style; preparation of surfaces and painting of trim, attached structures and antenna and flagpoles. GW 3-13

★ASPHALT TILE— **Tacoma, Wash.**

Award to Selden's, Inc., 1141 Broadway, Tacoma, $4,479, by Tacoma School District No. 10, Carl G. Caddey, business manager, 5th floor, School Administration Bldg., Tacoma, for installation of asphalt tile flooring in corridors of Jason Lee and Gray Junior High Schools. WB 3-14. Previous report 3-6

▲DEPARTMENT STORE— **Tacoma, Wash.**

Low bids announced by Norman L. Iverson, owner of the Bankers Trust Bldg., for construction of the Iverson Bldg., an addition to the People's Department Store in Tacoma. Plans by Robert Billsbrough Price, architect, 2907 A St., Tacoma. LOW BIDS: Quality Builders, Box 1503, Tacoma, $359,000; Roy T. Early, 321 Middle Waterway, Tacoma, $362,000; Leavitt-Chandler, Box 6, Bellevue, $372,644. Bids were opened March 9 and held under advisement.
GW 3-14. Previous report 2-15

TELEPHONE BUILDING— **Tacoma, Wash.**
(Estimated cost $850,000)

Plans under way by Pacific Telephone and Telegraph Co., Eric Brown, district manager, 734 St. Helens St., Tacoma, for a new dial switching office at 4818 South "J" St., adjacent to existing office. Building to serve the Hawthorne area. One-story and basement structure designed for two additional stories and expansion on one side; reinforced concrete and brick construction. Estimated cost includes land, building and equipment. WB 3-14

SCHOOL ADDITION— **Tacoma, Wash.**
(Estimated $180,000)

Bids will be called soon by Tacoma School District No. 10, S. 8th and Tacoma Ave., Tacoma, for an addition to Manitou Elementary School, S. 66th and Ferdinand, in Tacoma. The addition will have nine classrooms, lunchroom, library, playroom and administration section. DC 3-14

★SCHOOL ADDITION— **Tracyton, Wash.**

Awards pending state approval on the addition to Tracyton Elementary School. Bids were received by Central Kitsap School District No. 401, Carl F. Jenne, superintendent, in the Silverdale High School Administration Bldg., Silverdale. GENERAL: Commercial Builders, 114 Shore Drive, Bremerton, $76,985. MECHANICAL: Standard Plumbing and Heating, 2004 E. 10th St., Bremerton, $23,844. ELECTRICAL: Lent's, Inc., 279 4th St., Bremerton, $9,450. Bids were opened February 28 in Silverdale.
MG 3-10. Previous report 3-2

C OF C BUILDING— **Walla Walla, Wash.**

Campaign nearly complete to raise an $85,000 building fund for construction of a new building for the Chamber of Commerce, Walla Walla. Plans under way by H. Brandt Gessel, architect, 214 E. Birch, Walla Walla, call for 3,750 sq. ft. of floor space and a full basement. Site is at Sumach and Colville, Walla Walla. Chairman of the building committee is Homer Beale.
DC 3-2. Previous report 11-19

PENITENTIARY BUILDING— **Walla Walla, Wash.**

Loan of $43,500 has been approved by the federal government for the state of Washington, for advance planning of a new maximum security building and reception center at the state Penitentiary at Walla Walla. John W. Maloney, architect, Central Bldg., Seattle, has been designated as design architect. According to Harold D. Van Eaton, director of State Department of General Administration, Olympia, the state will proceed with the advance planning although construction will have to wait until the legislature appropriates funds to finance the project. DC 3-7

RESIDENCE— **Yakima, Wash.**
(Estimated cost $25,000)

Construction is underway by Tilman G. Nelson, contractor, 315 N. 46th Ave., Yakima, on a residence for Robert Leadon, 403 S. 15th Ave., Yakima. One-story; brick veneer; aluminum windows; ceramic tile, vinyl tile.
IG-M 3-9

APARTMENT HOUSE— **Yakima, Wash.**
(Estimated cost $15,000)

Construction is underway by John Demson, owner-builder, on a five-unit apartment house, 210 S. Naches Ave., Yakima. One-story; flat asbestos roof; aluminum windows; ceramic and asphalt tile; warm air, perimeter heating system. IG-M 3-9

STUDENT UNION BUILDING— **Yakima, Wash.**
(Estimated cost $50,000)

Preliminary plans underway by Maloney & Whitney, architects, James Cowan, manager, Larson Bldg., Yakima, for construction of a new student union building for Yakima Valley Junior College, S. 16th Ave. and W. Lenox St., Yakima. Bids will be called by School District No. 7, Milton Martin, superintendent, 112 N. 4th, Yakima. Site has not been selected. Approximately 5,000 sq. ft. structure; to include bookstore, office, conference room, food center and snack bar, toilets and lounge. Probably masonry construction. IG-WB 3-14

Legal advertisements published in our columns are read throughout the Pacific Northwest and Alaska.

IDAHO

CHURCH— **Boise, Idaho**

Jedd Jones, architect, 1324 Idaho, Boise, and Harold E. Wagoner, architect, Philadelphia, Pa., have been retained to draw the plans for the First Methodist Church, to be erected on the block bordered by 11th and 12th streets and Hays and Franklin, Boise.
MC 3-12

MAUSOLEUM— **Boise, Idaho**
(Estimated cost $250,000)

Plans complete by Harold G. Thompson, architect, 6001 Fairview Ave., Boise, for a combined mausoleum and crematorium to be constructed on a 12-acre site ½ mile west of Cole School. James Lewis and Howard Reynolds, c/o architect, are owners and builders. One-story; concrete and steel; marble interior. DC 3-14

SKATING RINK— **Moscow, Idaho**

Bids were rejected by University of Idaho, Kenneth A. Dick, bursar, Moscow, on a skating ring and clubhouse for the university. This is the second time bids have been received and rejected on this project. No readvertisement is contemplated at the present time. MG 3-14. Previous report 3-6

●STEAM BOILERS— **Moscow, Idaho**

Bids to be opened 2 p. m., March 29, by University of Idaho, Kenneth A. Dick, bursar, university campus, Moscow, for furnishing steam boilers and auxiliary equipment. Specifications with university engineer, Physical Plant Division, Moscow.
DC 3-14

SCHOOLS— **Nampa, Idaho**

A $562,000 bond election will be held March 27 to finance construction of school buildings for Nampa School District, Nampa. Preliminary plans underway by Jones & Dropping, architects, Idaho Bldg., Boise.

Proposed buildings include a shop building and gymnasium for Eagle Heights grade school and an addition to the Sunny Ridge school. GC 3-13. Previous report 12-12

HOSPITAL— **Orofino, Idaho**

Plans to be complete soon by Whitehouse & Price, architects, Hutton Bldg., Spokane, for Clearwater Valley Hospital to be built at Orofino. DC 3-10. Previous report 6-1

TRUCK STOP— **Pocatello, Idaho**

The Forde Johnson Oil Co., 1900 S. Yellowstone Ave., Idaho Falls, plans to construct a truck stop on South Fifth extension, Idaho Falls. Installation will contain service station facilities and sleeping quarters for long-distance truckers. Two-story; 325 x 300'. MC 3-14

CLASSROOMS— **Potlatch, Idaho**

Voters defeat for the third time a bond issue that was to have financed school construction in School District No. 285, Potlatch. Proposed construction involved six additional classrooms for Potlatch elementary school; seating and acoustical improvements in gymnasium; sidewalks and playground improvements. DC 3-1

●HEATING PLANT— **Twin Falls, Idaho**
(Estimated cost $70,000)

Bids to be opened 8 p. m., March 21, by Class A School District No. 411, Ernest Ragland, superintendent, 511 Shoshone N., Twin Falls, for new heating plant at the Junior High School. Plans by Cecil E. Jones, Breinholdt, resident architects, 131 2nd St. W., Twin Falls.

Work will involve taking out the old system in the old part of the junior high school and installing new heating system, some remodeling to the existing ventilation system. The heating system is coal fired steam with unit ventilators.
GW 3-13. Previous report 12-1

MONTANA

COURTHOUSE— Billings, Mont.

Bids rejected by Yellowstone County Commissioners, Courthouse, Billings, for the construction of a new courthouse in Billings. Plans by Chandler C. Cohagen, architect, Heddon Bldg., Billings. Commissioners are considering a bond election to raise additional funds before readvertising for new bids. Bids were opened February 21.
EE-G 3-10. Previous report 3-1

● PUBLIC WORKS FACILITIES— Billings, Mont.

Bid closing extended from March 20 to 5 p. m., March 27, by City Council, city clerk, City Hall, Billings, for construction of water department storage and servicing unit and warehouse at Billings. Plans with Orr Pickering & Associates, architects, Fratt Bldg., Billings. $25 deposit. Certified check or bid bond 5%.

Planholders: Lowe Construction Co., 2325 9th Ave. North, Billings; Pederson Construction Co., 2925 Ronan Drive, Billings. See PCD 3-2 for description.
EE-M 3-13. Previous report 3-2

● WAREHOUSE— Billings, Mont.

Bids to be opened 8 p. m., March 21, in the office of the architect, Joseph A. Gates, Midland Bank Bldg., Billings, by the Independent Wholesale Grocers, Inc., 2924 Minnesota Ave., Billings, for construction of an office and warehouse. Plans issued to selected list of contractors.

Two-story; 185'x290'; concrete block and frame; glued laminated beams, columns and roof arches in warehouse section. Alternate plant provides for steel frame and steel sheathed warehouse section using prefabricated units.
DC 3-13

● TRAINING SCHOOL— Boulder, Mont.

Bids to be opened 10 a. m., April 12, by State Board of Examiners, G. L. Bryant, secretary, State Capitol Bldg., Helena, for alterations to the Montana State Training School, Boulder. Plans with J. G. Link and Co., architects, Electric Bldg., Billings.

Two-story; first floor to contain dormitory; second floor to contain classroom for 100 pupils, washrooms.
LS-M 3-9. Previous report 1-13

● HIGH SCHOOL— Centerville, Mont.

Bids to be opened 7:30 p. m., April 3, by Board of Trustees, High School District, Centerville, Mont., for construction of a new high school at Centerville. Plans with Page & Werner, architects, Box 500, Great Falls. $25 deposit. Bid bond 5%.

One-story; L-shaped; 149'x116'; no basement; 11,100 sq. ft.; block walls; concrete slab floors over steel joists; timber, steel beams; flat roof; masonry, frame partitions; wood windows; exposed masonry gypsum lath partitions; asphalt tile floor finish; acoustical, plaster ceilings; fir exterior doors, birch interior; wood cabinets; folding doors; glass panels; blackboards; fire doors; blanket insulation in ceilings and wall; hot water heating system, oil fired; unit ventilators.
MG 3-14. Previous report 2-28

PUBLIC LIBRARY— Cut Bank, Mont.

(Estimated cost $75,000)

Plans to be completed about March 15 and bids will be called about April 1, by Glacier County Library Association, Ruth O. Longworth, librarian, Cut Bank, for construction of a public library in Cut Bank. Plans by Page & Werner' architects, 15½ 4th N., Great Falls.
EE-M 3-1

COLLEGE BUILDINGS— Dillon, Mont.

Preliminary application has been approved by Housing and Home Finance Agency, L. R. Durkee, contracting officer, room 450, Federal Office Bldg., Seattle, for federal loan of $400,000 to Western Montana College of Education, Rush Jordan, president, Dillon, for the building program at the college.

The program involves two apartment dormitories of 16 units each to cost an estimated $275,000; student union building, estimated cost $125,000.
GW 3-2

CHAPEL— Galen, Mont.

(Estimated cost $42,500)

Fund raising campaign under way by Montana Federation of Women's Clubs for construction of a memorial chapel for patients at the tuberculosis sanitarium, at Galen. A further campaign is being held by Helena Women's Club, Helena, with the proceeds going to the same project. Plans under way by Oswald Berg, architect, 1119 N. 7th, Bozeman, call for a room attached to the hospital with a seating capacity of 100 persons and room for wheel chair and stretcher patients.
GC 3-1. Previous report 12-7

FIRE HALL— Glasgow, Mont.

(Estimated $40,000 to $50,000)

Plans under way by Fred Brinkman, architect, Strand Theater Bldg., Kalispell, for a new fire hall for the city of Glasgow. Bids will be called late in March by the City Council, Roman C. Fargo, city manager, City Hall, Glasgow.
DM 3-1

● EQUIPMENT SHELTER— Gore Field, Mont.

Bids to be opened 10 a. m., April 16, by Major General S. H. Mitchell, state adjutant general for the National Guard, at the U. S. Property and Fiscal Office, Helena, for construction of 3,000 sq. ft. all steel equipment shelter with concrete foundation and gravel floor at Montana Air National Guard installation at Gore Field. Specifications with Guard office on Gore Hill or in the U. S. P. & S. office in Helena.
DC 3-10

▲ TRAINING BUILDING— Great Falls, Mont.

Bids received March 8 by Corps of Engineers, Walla Walla District, Colonel Myron E. Page, Jr., district engineer, Bldg. 602, City-County Airport, Walla Walla, for construction of proficiency training building Malmstrom AFB., near Great Falls, Cascade County, Mont.; ENG-45-164-56-32. LOW BIDS: H. S. Leigland & Sons, 1501 N. 35th, Seattle, $174,686; Sletten Construction Co., Box 1188, Great Falls, $202,851; H. Halvorson, Inc., E. 5218 Sharp, Spokane, $206,232. Government estimate $191,974.
MG 3-9. Previous report 3-1

● EDUCATIONAL BUILDING— Great Falls, Mont.

Bids to be opened March 22 by Our Savior's Lutheran Church, Rev. Griffith H. Williams, pastor, 1326 1st Ave. North, Great Falls, for an educational building addition to the existing church. Plans with McIver, Hess & Haugsjaa, architects, Strain Bldg., Great Falls. Separate bids on general, mechanical and electrical.

Remodeling of the existing church is included with the construction of the educational building. Two-story with closed interior court.
MC 3-9. Preivous report 9-30

STATE INSTITUTIONS— Helena, Mont.

The State Board of Examiners has approved plans and specifications for construction at Eastern Montana College of Education, Billings and additions to a building at the State Industrial School, Miles City. Permission was also granted to issue bonds for additions to the library at Montana State University, Missoula. Plans for alterations to the third floor of the Eastern administration building, costing approximately $14,000 and additions and improvements to the SIS Cottage A, to cost $40,000 to $45,000, won tentative approval providing the institutions have funds to go ahead. Bids are expected to be called about March 29 on the alterations to the third floor of the Eastern administration building and State Industrial College, East of Miles City.
MC 3-13

SHOPPING CENTER— Missoula, Mont.

(Estimated cost $450,000)

Preliminary plans are under way by H. E. Kirkemo, architect, Masonic Temple Bldg., Missoula, for the construction of a shopping center near the Missoula County Fairgrounds, Missoula. William Tremper, 470 Strand Ave., Missoula, is backing the project and states that 75% of the proposed area has been leased.
MC 3-13

● GYMNASIUM— Philipsburg, Mont.

Bids to be opened 8 p. m., March 27, by Granite County High School District, Granite County, Philipsburg, for construction of a new gymnasium in Philipsburg. Plans with Oswald Berg, Jr., architect, 119 N. 7th, Bozeman. $25 deposit.
GC 3-14

■ NORTH SIDE SCHOOL ADDITION— Shelby, Mont.

Planholders announced for construction of North Side Elementary School addition in Shelby. Bids to be opened 8 p. m., March 27, by School District No. 14, Toole County, Shelby. Plans with Brinkman & Lenon, architects, Strand Theater Bldg., Kalispell. $25 deposit. Bid bond 5%.

Planholders — GENERAL: Gyrion Construction Co., 94 5th Ave. West, Kalispell; Chris Fugeland & Son, Box 672, Havre; Ray Nelson, c/o Stevens Hotel, Great Falls; Monegan Construction Co., 131 1st Ave. West, Kalispell; Kalispell Mercantile Co., 1st Ave. East, Kalispell; Palmer Construction Co., 1324 Central Ave. West, Great Falls; Fratest Construction Co., 424 Rimrock Road, Billings; Zion Construction, 3016 5th Ave. North, Great Falls; Montana Builders, 1340 8th Ave. East, Kalispell; Attwell Construction Co., Box 747, Everett. MECHANICAL: J. A. McCauley Plumbing and Heating, 424 2nd St., Havre; Kalispell Plumbing and Heating Co., 333 1st Ave. East, Kalispell; Al's Plumbing and Heating, Box 1267, Conrad. ELECTRICAL: Oil City Electric, 428 Main, Shelby; Ferguson Electric Co., 259 N. Main, Kalispell; Hollingsworth Electric, 419 1st Ave. East, Kalispell.
MG 3-9. Previous report 3-2

■ WEST SIDE SCHOOL ADDITION— Shelby, Mont.

Planholders announced for construction of an addition to the West Side Elementary School in Shelby. Bids to be opened 8 p. m., March 27, by School District No. 14, Toole County, Shelby. Plans with Brinkman & Lenon, architects, Strand Theater Bldg., Kalispell. $25 deposit. Bid bond 5%.

Planholders — GENERAL: Gyrion Construction Co., 94 5th Ave. West, Kalispell; Chris Fuglevand & Son, Box 672, Havre; Ray Nelson, c/o Stevens Hotel, Great Falls; Monegan Construction Co., 131 1st Ave. West, Kalispell; Kalispell Mercantile Co., 1st Ave. East, Kalispell; Palmer Construction Co., 1324 Central Ave. West, Great Falls; Frates Construction Co., 424 Rimrock Road, Billings; Zion Construction, 3016 5th Ave. North, Great Falls; Montana Builders, 1340 8th Ave. East, Kalispell; Attwell Construction Co., Box 747, Everett. MECHANICAL: J. A. McCauley Plumbing and Heating, 424 2nd St., Havre; Kalispell Plumbing and Heating Co., 333 1st Ave. East, Kalispell; Al's Plumbing and Heating, Box 1267, Conrad. ELECTRICAL: Oil City Electric, 428 Main, Shelby; Ferguson Electric Co., 259 N. Main, Kalispell; Hollingsworth Electric, 419 1st Ave. East, Kalispell.
MG 3-9. Previous report 2-17

WYOMING

BANK— Casper, Wyo.

(Estimated cost over $2,000,000)

Preliminary plans are under way by Robert Wehrli, architect, 829 Cy Ave., Casper, for Casper National Bank, Center and 2nd Streets, Casper, for the construction of the new bank building at 1st and Wolcott Streets, Casper. Structural engineer is Ken White, 1465 Marion St., Denver, Colo.; Murray, Riley and Associates, mehcanical engineers, 810 23rd St., Denver, Colo.; Joe Gilgan, electrical engineer, 254 West 1st St., Casper.

Eight-story building; 140'x143'; two basement parking levels; 120,000 sq. ft.; solid masonry walls; concrete slab floors; concrete beams; flat roof; masonry partitions; metal stairways; aluminum windows; precast facing exterior wall finish; acoustical

MG 3-13. Previous report 2-4

CHURCH— Cheyenne, Wyo.

(Estimated cost $85,000)

Preliminary plans are under way by Ralph D. Peterson and Robert W. Postin, Cheyenne, for construction of the Grace Methodist Church, to occupy the block bounded by Spruce Drive, Laurel Drive, Pine Drive and Linden Court, Cheyenne. According to present plans the building, when completed will have space for church services seating 550 persons, a dining room and kitchen, nursery, offices, six class rooms, and a small chapel.

Building will be divided into three units. Construction of the kitchen and dining room, offices and nursery is planned first with sanctuary, chapel and class rooms to be built later.

MC 3-6

GYMNASIUM— Cody, Wyo.

(Estimated cost $750,000)

Working drawings have been completed by Tresler & McCall, architects, 1276 Sheridan, Cody, for construction of gymnasium and auditorium for School District No. 6, Cody. Bids are to be called in June.

MG 3-13. Previous report 1-11

● CHURCH ADDITIONS— Douglas, Wyo.

Bids to be opened 7:30 p. m., March 19, by First Baptist Church, Rev. Clyde Thompson, pastor, 221 S. 4th St., Douglas, for additions and alterations to First Baptist Church, S. 4th and Oak Streets, Douglas. Plans with John Pellegren, 501 E. 2nd, Casper. $20 deposit. Bid bond 5%. Stark & Kinkel, Denver, Colo., are the mechanical engineers.

One-story building on existing 10" foundation wall; 36'x60'; 2,160 sq. ft.; frame walls with brick veneer exterior finish; frame floors; timber laminted beams, wood arches 4"x5" timber deck roof; frame partitions; wood windows; interior finish plaster on gypsum lath; pine trim on both interior and exterior; plaster interior partitions; some gypsum lath; asphalt tile and rubber tile flooring, with some quarry tile; sanctuary to be exposed timber; exterior doors to be holo core slab mahogany; interior doors holo core birch veneer; illuminated exterior bulletin board; rock wool insulation and blankets in exterior walls, batt in robing room, clergymen's room and baptistry; forced air heating system from natural gas fired burner.

Planholders — GENERAL: Dougherty & Novotony, Box 1841, Casper; Fulton Construction Co., Douglas; Carlson Construction Co., Newcastle; Lythgoe & Rookstool, Glenrock.

GW 3-13. Previous report 12-31

● GRADE SCHOOL— Dubois, Wyo.

Bids to be opened March 28 by Dubois School District, Dubois, on construction of a grade school that was destroyed by fire in December. Plans with school district. Separate bids on general, mechanical, electrical.

DC 3-14

● HOSPITAL— Evanston, Wyo.

Bids to be opened 2 p. m., April 2, by Board of Charities and Reform, E. C. Rothwell, secretary, Capitol Bldg., Cheyenne, for constructing an infirmary building and a recreational therapy building at the State Hospital in Evanston. Plans with Kellogg & Kellogg, architects, 2309 Warren Ave., Cheyenne. $100 deposit. Certified check or bid bond 5%. Separate bids on general, mechanical and electrical.

DC 3-14

SCHOOL ADDITION— Glendo, Wyo.

(Estimated cost $90,000)

Working drawings underway by Goodrich and Wilking, architects, 226 E. 2nd St., Casper, for construction of an addition to the grade and high school, for School District No. 8., Platte County, Glendo.

One-story; 113'x55'; 6,830 sq. ft.; concrete footings and foundations; solid masonry walls; concrete slab floors; flat, bar joists and gypsum slab roof with a wood alternate; masonry partitions; aluminum windows; rigid insulation in roof; interior finish to be plaster; exposed masonary interior partitions on metal lath; asphalt tile and terrazzo floor finishes; acoustical ceilings; blackboards; wardrobes; propane gas heating systems.

GW 3-13. Previous report 2-9

▲FIRE STATIONS— Green River, Wyo.

Bids received and rejected by Town Council, Town Hall, Green River, for construction of two fire stations at Green River. Plans to be revised and bid opening tentatively set for April 15. Plans by Kellogg & Kellogg, architects, 309 N. Front St., Rock Springs. LOW BIDS—GENERAL: J. C. Graf, McKinnon, $31,866; Superior Lumber Co., Rock Springs, $34,314; Kellogg Lumber Co., Rock Springs, $35,170. MECHANICAL: Green River Plumbing and Heating Co., Green River, $6,700; Northern Utilities Co., Rock Springs, $7,214; Rock Springs Plumbing Co., Rock Springs, $7,250. ELECTRICAL: American Electric Co., Green River, $21,162; Uintah Mercantile and Supply, Mountainview, $2,677. Bids were opened March 5 in Green River.

MG 3-9. Previous report 1-11

GYMNASIUM, CLASSROOMS— Huntley, Wyo.

A $130,000 bond issue has been approved by voters in Huntley for construction of an addition to the existing school building, for Huntley School District.

GC 3-9. Previous report 2-10

GRADE SCHOOL— Lander, Wyo.

(Estimated cost $360,000)

Working drawings are underway by Tresler & McCall, architects, 1276 Sheridan, Cody, for the construction of the Millcreek Grade School, Lander. Bid call expected in June.

MG 3-14

VOCATIONAL SHOPS— Lander, Wyo.

(Estimated cost $225,000)

Preliminary plans are under way by Tresler & McCall, architects, 1276 Sheridan, for construction of vocational shops for Fremont County Vocational High School District, Lander.

MG 3-14

● SCHOOL— Manderson, Wyo.

Bids to be opened 8 p. m., March 29, by Manderson-Hyattville High School District, Big Horn County, Manderson, for construction of high school and gymnasium building at Manderson. Plans with Tresler & McCall, architects, 1276 Sheridan Ave., Cody. $50 deposit. Bid bond 5%.

Two-story building and gymnasium; no basement; block walls with face brick; concrete slab floors; timber beams; glued laminated beams; masonry partitions; metal stairways; aluminum windows; rigid roof insulation; face brick exterior wall finish, with metal trim; exposed block interior wall finish with metal trim; exposed masonry partitions; maple wood floors in gymnasium, vinyl tile elsewhere; plaster ceilings; metal exterior and interior doors; blackboards, fire doors; steam heating system, gas fired; mechanical exhaust ventilating system.

MG 3-9. Previous report 12-16

SCHOOL ADDITION— Morton, Wyo.

(Estimated cost $200,000)

Working drawings underway by Goodrich and Wilking, architects, 226 East 2nd St., Casper, for construction of an addition to Morton School, for School District No. 26, Fremont County.

One-story; 14,134 sq. ft.; poured concrete and solid masonry walls; concrete slab floors timber beams; flat glued laminated roof; masonry and frame partitions; steel windows; rigid insulation in roof; plaster interior finish; asphalt tile floor finishes; acoustical ceilings; blackboards.

GW 3-13. Previous report 2-9

HOTEL REMODELING— Rawlins, Wyo.

Preliminary plans are under way by Richard L. Crowther, 269 Fillmore St., Denver, Colo., for remodeling restaurant and coffee shop area in the Ferris Hotel, Rawlins.

Remodeling approximately 10,000 sq. ft. in main lobby, cocktail lounge, restaurant; refacing exterior; block and frame walls; frame floors; steel, timber beams; frame partitions; wood stairways; wood windows; terra cotta and glass wall exterior finish, mosaic tile interior finish; painted pipe exterior wall trim; drywall partitions; vinyl floor finish; acoustical interlock hung panels; glass, aluminum and solid wood doors; wood cabinets; folding doors; restaurant and bar equipment; sound insulation, in ceiling of bar; steam heating system, gas fired; air conditioning.

MG 3-13. Previous report 3-[illegible]

URANIUM PLANT— Riverton, Wyo.

(Estimated cost $3,000,000)

Negotiations are under way by Robert W. Adams, president, of the Lost Creek Oil and Uranium Co., Rawlins, for construction of a uranium ore processing plant at Riverton. Construction is expected to start in May, and be completed January, 1957.

EE-M 3-[illegible]

■ CENTRAL JUNIOR HIGH ADDITION— Sheridan, Wyo.

Planholders announced for construction of additions and alterations to Central Junior High School. Bids to be opened 1 p. m., March 22, by School District No. 1, Karl D. Bell, superintendent, Sheridan County, Wyo. Plans with Harrison L. Cook and Associates, architects, 119 North Main St., Sheridan. $25 deposit. Certified check, bank draft or bid bond 5%. Separate bids on general, plumbing and heating, ventilating and electrical. Combined bids will be accepted bust must be itemized, showing the cost of each separate division of the work.

Planholders—GENERAL: Julien Construction Co., Box 889, Newcastle; Husman Bros., Big Horn Ave., Sheridan; N. A. Nelson Construction Co., 731 N. Main, Sheridan. PLUMBING AND HEATING: Roush Plumbing and Heating, 1055 N. Custer, Sheridan; Columbus Plumbing and Heating, 756 Broadway, Sheridan; Green Plumbing and Heating, 348 N. Main, Sheridan; Sheridan Plumbing and Heating, 155 W. Brundage, Sheridan. VENTILATING: Frickey Sheet Metal Works, Inc., 545 N. Main, Sheridan; Prill Bros., 40 E. 5th, Sheridan. ELECTRICAL: Central Electric, 1260 Marion, Sheridan; Mike's Electric, 1726 N. Main, Sheridan; Bohnsack Electric, 131 Sioux, Sheridan; T. E. Pleasant, 1366 Leopard, Sheridan; Simpson Electric Co., 920 E. 15th St., Cheyenne; Sheridan Electric City, Inc., 23 N. Main, Sheridan.

MG 3-13. Previous report 3-[illegible]

★RE-WIRING— Sheridan, Wyo.

Award to C. N. Bohnsack Electric Service, 131 Sioux Ave., Sheridan, $1,281, by City Council, C. Harold Campbell, city clerk, City Hall, Sheridan, for re-wiring lighting system in the City Hall.

LY-M 3-10. Previous report 3-[illegible]

PROCESSING PLANT— Thermopolis, Wyo.

(Estimated cost $60,000)

Site sought for processing plant to be built near Thermopolis by the Bentonite Corp. of America, Leon M. Frazier, president. The firm has an option on 1,600 acres for a mill site north of Thermopolis.

LY-G 3-[illegible]

HIGH SCHOOL, GYMNASIUM— Thermopolis, Wyo.

(Estimated cost $1,000,000)

Working drawings are under way by Tresler & McCall, architects, 1276 Sheridan, Cody, for construction of high school and gymnasium for Hot Springs High School District, Thermopolis. Bids are to be called in May.

MG 3-13. Previous report [illegible]

UTAH

ARMORY— Clearfield, Utah

(Estimated cost $130,000)

An armory for Clearfield is being contemplated by Utah National Guard, Douglas, Utah. Structure would be located near the North Davis Junior High School.

GH 3-[illegible]

ELEMENTARY SCHOOL— East Midvale, Utah

Plans to be completed soon by Ashton, Evans & Brazier, architects, 24 S.W. Temple, Salt Lake City, for construction of 12-class-

room elementary school at 200 E. Social Ave., East Midvale. Bids will be called at a later date by Jordon School District. Arthur E. Peterson, superintendent, 9361 SE. State St., Sandy.

One-story; partial basement; concrete footings and foundation; solid masonry walls; concrete slab floors; concrete precast beams; wood decking; masonry partitions; steel windows; brick exterior wall finish, plaster interior; exposed masonry partitions; asphalt tile floor finish; acoustical ceilings; metal exterior door, wood interior; wood cabinets; blackboards; rigid insulation in roof; hot water heating system, coal fired.

GH-M 3-13. Previous report 2-29

▲HEATING PLANT ADDITIONS— Logan, Utah

Bids received by Utah State Building Board, J. D. King, superintendent of construction, in room 442, State Capitol, Salt Lake City, for alterations and additions to the heating plant at the Utah State Agricultural College in Logan. LOW BIDS: A. H. Palmer & Sons, 186 N. Main St., Logan, $152,786; James J. Burke Co., 406 Kearns Bldg., Salt Lake City, $172,972. Bids were opened March 6 in Salt Lake City.

GH-M 3-10. Previous report 2-23

TEST PLANT— Ogden, Utah

Construction will start about May 1 on the first building of the Marquardt Aircraft Co. plant in Ogden. President is Roy E. Marquardt. A warehouse of about 10,000 sq. ft., masonry construction, will be started after land improvement survey and grading and drainage on site. It will be used as factory until other facilities have been erected. The supersonic ramjet engine manufacturing plant will be located north of the municipal airport. The initial construction program and designing of the remainder of buildings will represent an expenditure of about $100,000. DC 3-14. Previous report 2-10

SCHOOL ADDITION— Salina, Utah

Preliminary plans underway by Paul K. Evans, architect, 237 E. 3rd S., Salt Lake City, for remodeling and an addition to the Salina High School, for Sevier School District, David Cannon, superintendent, Richfield. GH-G 3-14

AUTO SHOWROOM— Salt Lake City, Utah

Subcontract bids are being received by Garff, Ryberg and Garff, general contractor, 850 W. 15th North, Salt Lake City, for construction of the new Oldsmobile showroom and service station. Ken Garff Co., 501 S. State St., Salt Lake City, is owner of the building. Plans with Jackson & Jackson, architects, 457 S. 3rd East, Salt Lake City.

One-story; 44'x46'; concrete footing and foundation; solid masonry block walls; concrete slab floors; steel beams; truss glued laminated roof; aluminum windows; masonry exterior wall finish, block interior; six overhead doors; hot water heating system, gas fired. GH-M 3-9. Previous report 1-28

★ARMORY— Salt Lake City, Utah

Award to Jensen Construction Co., 548 W. 2nd North, Salt Lake City, $318,809, by Utah State Building Board, Jerry J. King, superintendent of construction, 419 State Capitol Bldg., Salt Lake City, for construction of a National Guard Armory in Salt Lake City.

GH-M 3-10. Previous report 2-21

●COLLEGE BUILDING— St. George, Utah

Bids to be opened 2 p. m., March 27, by Utah State Building Board, 419 State Capitol Bldg., Salt Lake City, for construction of new buildings at Dixie College, St. George. Plans with Lorenzo S. Young, architect, Continental Bank Bldg., Salt Lake City. $30 deposit.

One-story; concrete footing and foundation; 36,000 s. f.; brick and stone walls; concrete slab floors; steel beams; steel truss roof; block partitions; concrete stairways; steel sash; brick and stone exterior wall finish, block interior wall finish; block partitions; maple wood floors, some asphalt tile, ceramic tile and corytile; acoustical ceilings; metal exterior doors; birch wood interior doors; wood cabinets; blackboards; steel lockers; fiber glass insulation in ceiling; low pressure steam heat, coal fired.

GH-M 3-10. Previous report 1-10

ALASKA

■MILITARY BUILDINGS— Alaska

Planholders announced for construction of housing units and store, painting existing homes and buildings at Ladd AFB, Eielson AFB., Fort Richardson, Elmendorf AFB.; ENG-95-507-56-13. Bids to be opened 11 a. m., March 30, by Corps of Engineers, Alaska District, Colonel Cary Y. Farrell, district engineer, D-E Bldg., Anchorage.

Planholders: Grove, Shepherd, Wilson & Kruge, Inc., 120 6th Ave. N., Seattle, Wash.; Urban Plumbing and Heating Co., 2904 W. 1st Ave., Portland, Ore.; Urban, Inc., 103 S. 28th, Tacoma, Wash.; Acme Millwork, Inc., Box 668, Kirkland, Wash.; Granberg Corp., Works, 7126 W. Marginal Way, Seattle, 1308 67th St., Oakland, Calif.; Century Metal Wash.; Johnson Pump Co., Bin K, Pasadena, Calif.; The Coast Sash and Door Co., 2201 West Commonwealth Ave., Alhambra, Calif.; Lent's, Inc., 279 4th, Bremerton, Wash.; W. R. Grasle Co., 437 N.W. 16th Ave., Portland, Ore.; Chris Berg, Inc., Contractors, 2730 Westlake N., Seattle, Wash.; Detail Millwork, Inc., Box 1844, Seattle, Wash.; Chas. A. Langlais & Son, Inc., 474 Bryant St., San Francisco, Calif.; W. L. Reid Co., 3178 S.W. 87th Ave., Portland, Ore.; H. D. Fowler Co., Inc., 910 Lane St., Seattle, Wash.; Schenk Construction Co., 443 S.E. Caruther St., Portland, Ore.; Burgess Construction Co., Box 652, Fairbanks; Ingersoll-Rand Co., 526 1st Ave. S., Seattle, Wash.; Holaday & Edworthy, Inc., 6240 S. Tacoma Way, Tacoma, Wash.; Wenzler & Ward Plumbing and Heating Co., 2109 Western Ave., Seattle, Wash.; Earl B. Stearns, Rt. 6, Box 945, Tacome, Wash.; Lease Co., Inc., 150 N. 35th Ave., Seattle, Wash.; Thorgaard Plumbing and Heating Co., 1109 N. 36th Ave., Seattle, Wash.; Pacific Construction Co., 213 E. Reserve, Vancouver, Wash.; James C. Baker, (Import Co.), Inc., 311 California St., San Francisco, Calif.; Alaskan Plumbing Supply Co., 907 Arctic Bldg., Seattle, Wash.; Crane Co. (Govt., Dept.), 10700 Hanna St., Beltsville, Md.; The Brower Co., 114 Virginia St., Seattle, Wash.; Grinnell Co., 3101 Elliott Ave., Seattle, Wash.; Fryer-Knowles, 1718 Broadway, Seattle; Holert Electric Co., 2300 W. Spokane, Seattle, Wash.; Oscar Sundberg & Sons, 525 Pontius, Seattle, Wash.; Associated Asbestos, Inc., 208 3rd Ave. S., Seattle, Wash. GW 3-14. Previous report 3-2

A POSTCARD INQUIRY

will bring full information about Pacific Construction Daily—the advance construction news service of the Pacific Northwest. Advance news of contemplated construction, calls for bids, prospective bidders, contract awards on all projects in Washington, Oregon, Idaho, Montana, Alaska. Early, accurate and moderately priced. State the line of work in which you are interested.

Pacific Construction Daily

2418 Third Ave. Seattle 1
(MAin 0285)

▲FAMILY HOUSING, DIRECTION FINDER FACILITY— Adak, Alaska

Bids received March 8 by 17th Naval District, Bureau of Yards and Docks, Captain R. B. Krum, district Public Works Officer, U. S. Naval Station, Adak, for family housing and direction finder facility at U. S. Naval Station, Adak; NOy-87938; Spec. No. 37595. LOW BIDS: Raber & Kief, 420 Queen Anne Ave., Seattle, $3,440,000; B-E-C-K Constructors, Inc., 3647 Stone Way, Seattle, $3,467,920; Patti Macdonald, Pouch 6, Anchorage, $3,717,341. GW 3-9. Previous report 1-21

▲BUILDING MATERIALS— Juneau, Alaska

Bids received by Department of Education, Don M. Dafoe, commissioner, Juneau, for furnishing metal materials pre-cut for one-classroom building for Larson Bay Territorial School. LOW BIDS: Barton-Swanson Steel Building Co., Inc., Highway 99 South, Olympia, Wash., $3,286; Armco Drainage & Metal Products, Inc., 2321 S.E. Gladstone, Portland, Ore., $4,580; Hallidie Machinery Co., 210 Hudson St., Seattle, Wash., $6,460. Bids were opened March 5 in Juneau.

JU-M 3-9. Previous report 2-16

▲FAMILY HOUSING— Kodiak, Alaska

Bid opening postponed indefinitely by 17th Naval District, Bureau of Yards and Docks, Captain R. B. Krum, district public works officer, U. S. Naval Station, Kodiak, for family housing at U. S. Naval Station, Kodiak. NOy 87939; Spec. No. 37597. Bids were to have been opened March 13.

GW 3-14. Previous report 2-21

★UTILITY BUILDING— Palmer, Alaska

Award to Irving Losier & Associate, Palmer, $32,877, by Alaska Agriculture Experiment Station, Emil G. Ganschow, at the station office in Palmer, for construction of a Utility Building. Plans by Edwin Crittenden, architect, 1565 F St., (Box 358), Anchorage. GW 3-13. Previous report 2-25

■ENGINE HOUSE— Seward, Alaska

Planholders announced for the construction of an engine house at Seward. Bids to be opened 3 p. m., March 21, by Alaska Railroad, Irvin C. Cook, chief engineer, at Anchorage. Specifications with chief engineer at Anchorage or with A. R. Sessions, special representative of the general manager, Alaska Railroad, room 225 Federal Office Bldg., Seattle. $25 deposit.

Planholders—GENERAL: Stolte, Inc., 4444 California Ave., Seattle; J. B. Warrack, 400 2nd Ave. W., Seattle; Denali Construction Co., Box 125, Anchorage; Morrison-Knudsen, Inc., 603 Hoge Bldg., Seattle; Schmid Construction Co., 3010 1st Ave., Seattle; Scheumann & Johnson, Lloyd Bldg., Seattle; Swalling Construction Co., Box 1039, Anchorage; Dondis-Johnson, Box 1154, Anchorage; Kincaid & King, Box 897, Spenard. MECHANICAL: Thorgaard Plumbing and Heating Co., 1009 N. 36th, Seattle; The Bay Co., 1512 Center, Tacoma; Urban, Inc., 103 S. 28th, Tacoma. ELECTRICAL: Yukon Electric Co., 2300 W. Spokane, Seattle; Charles Langlais, 474 Bryant, San Francisco; City Electric of Anchorage, Box 3698, Anchorage; Northern Supply Co., Box 439, Post Road, Anchorage.

GC 3-13. Previous report 2-24

●SERVICE BUILDING— Sitka, Alaska

Bids to be opened 11 a. m., April 20, by Corps of Engineers, Alaska District, Colonel Carl Y. Farrell, district engineer, Bldg. D-E, Anchorage, for construction of a frame service building at Sitka; ENG-95-507-56-34. Plans and specifications may be obtained from the district engineer in Anchorage, and Seattle Branch Office, 4735 E. Marginal Way, Seattle.

Frame service building; 22'x25'; vertical board and batten siding and cedar shingle roof with concrete foundation and floor.

★SCHOOL ADDITION— Whittier, Alaska

Award to George Morrison Co., Inc., Box 1972, Anchorage, $270,000, by Housing and Home Finance. Bids were opened in the office of Foss & Olsen, architects, 109 W. 3rd St., Juneau, for a grade school building addition in Whittier, Project No. Alaska 56-C-FED-9A-6. MG 3-10. Previous report 3-1

ENGINEERING NEWS

Washington, Oregon, Idaho, Montana, Wyoming, Utah, Alaska

- ● Bids Called
- ★ Contract Awards
- ▲ Low Bids—Bid Received
- ■ Planholders—Prospective Bidders

OREGON

★GRADING— Beaverton, Ore.

Award to John L. Jersey, 3647 S.E. 34th Ave., Portland, $32,767, by Oregon Province of Jesuit Fathers, Rev. Henry J. Schulteis, Provincial for Oregon, 615 N.W. 20th Ave., Portland, for grading site for boys' high school on 56-acre tract facing Bertha-Beaverton Highway at Laurelwood Drive (S.W. 82nd Ave.). Includes removal of 84,000 c.y. of dirt; stockpiling top soil; providing 2,000' of 30" concrete pipe for drainage.
WB 3-13

MILL RACE RESTORATION—Eugene, Ore.

The Eugene City Council has authorized city official to to start negotiations with the University of Oregon for millrace restoration. The city will use $20,000 bond authority already approved by voters. The students will raise their half with an alumin fund campaign. William Clubb, city engineer, and Robert Finlayson, city manager, will negotiate with the city council on this project.
DW-M 3-1. Previous report 2-1

▲DREDGING— Fort Stevens, Ore.

Bids opened March 9 by Corps of Engineers, Portland District, Colonel Jackson Graham, district engineer, 628 Pittock Block, Portland, for dredging in the Columbia River at Fort Stevens (CIVENG-35-026-56-160). LOW BID: H. G. Palmberg, P. O. Box 991, Astoria, $12,600. OTHER BIDS: Port of Astoria, P. O. Box 569, Astoria, $14,000; Willamette Tug & Barge Co., Foot of N. Portsmouth, Portland, $21,000. Engineer's estimate, $14,500.
WB 3-13. Previous report 3-8

▲FOOT BRIDGE— Heppner, Ore.

Bids received by City Council, City Hall, Heppner, for construction of a reinforced concrete foot bridge in the city. LOW BID: K. L. Clark, Hermiston, $5,287. DC 3-9

●WATER LINE— Hood River, Ore.

Bids to be opened 2 p. m., March 29, by City Council, City Hall, Hood River, for installation of a water transmission line. Plans with Cornell, Howland, Hayes & Merryfield, consulting engineers, 1600 Western Ave., Corvallis. $25 deposit.

Pipe, valves and fittings to be furnished by city. Project involves 18,000' water line using 16" pipe; 30" wide and 5' deep excavation; 900 c.y. rock excavation. DC 3-9

●STREET LIGHTING— La Grande, Ore.

Bids to be opened 5 p. m., March 28, by City Council, F. C. McShane, recorder, City Hall, La Grande, for street lighting equipment and construction of a municipal street lighting system. Specifications with recorder, $10 deposit. Certified check or cashier's check. DC 3-10

★ACCESS ROAD, PARKING AREA— Lookout Point Dam, Ore.

Award to C. Vern White, Lowell, Ore., $8,375, by Corps of Engineers, Portland District, Colonel Jackson Graham, district engineer, 628 Pittock Block, Portland, for construction of an access road, parking area and boat launching ramp and drilling and developing a water well in the Signal Point recreational area at Lookout Point Reservoir on the Middle Fork Willamette River, Ore.; CIVENG-35-026-56-156.
MC 3-10. Previous report 3-8

●WATERWORKS— Mitchell, Ore.

Bids to be opened 8 p. m., P.S.T., April 16, by City Council, City Hall, Mitchell, for construction of a reinforced concrete settling basin, 16'x32', with interchange, overflow and drain lines and connection to the existing system; construction of a chlorinator house; installation of chlorinator; fencing of reservoir site. Specifications with city engineer, City Hall, or with Vernon B. Tenneson & Associates, consulting engineers, 908½ E. 2nd St., The Dalles. $20 deposit. Certified check, cashier's check or bid bond 5%.
DC 3-14

PUMPING PLANT— Nyssa, Ore.

Additional description on pumping plant. Bids to be opened 10 a. m., M.S.T., April 11, by Bureau of Reclamation, E. L. Harmon, construction Engineer, Box 944, Boise, for rehabilitation of the Ontario-Nyssa, Ore., pumping plant near Nyssa, in Malheur County. Plans with L. N. McClellan, assistant commissioner and chief engineer, Bldg. 53, Denver Federal Center, Denver, Colo. Bid guarantee 10%.

Earthwork for and construction of a pumping plant structure abutting the existing Owyhee Ditch Pumping Plant. The pumping plant structure will be approximately 65'x34', consisting of a reinforced concrete substructure, steel superstructure, concrete masonry walls, wood roof deck and built-up roofing with gravel; earthwork for and installation of a steel pipe discharge line; installing four motor driven pumping units; furnishing and installing electrical system, including conduit system, insulated wire and cable; grounding system, electrical control equipment, lighting system and installing 2,300-volt motor control equipment.

Quantities: Diversion and care of river during construction and removal of water from foundations; 2,600 c.y. excavation; 880 bbls. cement; 89,000 lbs. reinforcement; 575 c.y. concrete; 1,500 sq. ft. constructing roof; 42,000 lbs. structural steel for pumping plant superstructure; 16,110 lbs. trashbacks; 19,000 lbs. miscellaneous metalwork; furnishing and installing air-cooling system; furnishing and installing steel discharge pipe; 75,500 lbs. installing four main motor-driven horizontal centrifugal-type pumping units; 2,400 sq. ft. 8" concrete masonry unit walls. Completion time 335 calendar days.
GW 3-2. Previous report 2-29

▲SURFACING— Portland, Ore.

Bids opened March 7 by city auditor, Will Gibson, City Hall, Portland, for surfacing S.E. 74th Ave. from Powell Blvd. to Tibbetts St. LOW BID: Parker & Fuhrman, 11524 S.E. Foster Road, $7,083. OTHER BIDS: Logan, Taylor & Co., 7800 N.E. Killingsworth St., $7,641; Oregon Asphaltic Paving Co., 0441 S.W. Porter St., $7,675; Portland Road and Driveway Co., 7295 S.E. King Road, $7,823; Harold G. LaVelle, 10430 S.E. Bush St., $8,153. Of Portland.
WB 3-9. Previous report 3-3

▲SEWER— Portland, Ore.

Bids opened March 7 by city auditor, Will Gibson, City Hall, Portland, for sewer in S.E. 53rd Ave. from south of S.E. Mall St. to Holgate St. LOW BID: Mitchell B. Saloum, 3322 S.E. 68th Ave., $962. OTHER BIDS: Don Thornton, $994; Harvey Isaacs & Sons, 3520 S.E. 62nd Ave., $1,132. Of Portland.
WB 3-9. Previous report 3-3

▲PAVING, CURB— Portland, Ore.

Bids opened February 29 by Portland School District No. 1, L. J. Baker, business manager, 620 N.E. Halsey St., Portland, for concrete paving and curb at Washington High School. LOW BIDS: Zuber Bros., 3090 S.E. 28th Ave., $1,533; Schneider Concrete Construction, 2524 N.E. 92nd Ave., $1,560; Richard M. Palmer, 6031 S.E. Brooklyn St., $1,660. Of Portland.
WB 3-9. Previous report 2-17

▲RADIO-TELEPHONE EQUIPMENT— Portland, Ore.

Bids opened March 5 by Bonneville Power Administration, L. C. Stewart, procurement officer, 1001 N.E. Lloyd Blvd., Portland, for VHF radio-telephone equipment, fob. Eavan Spur, Vancouver, Wash. (Inv. No. 7895). LOW BID: Motorola Communications & Electronics, Chicago, $5,100.
WB 3-9. Previous report 2-9

▲TELEPHONE CABLE— Portland, Ore.

Bids opened March 6 by Bonneville Power Administration, L. C. Stewart, procurement officer, 1001 N.E. Lloyd Blvd., Portland, for telephone cable (Inv. No. 7896) fob. Snohomish, Wash. LOW BIDS: Okonite Co., Passaic, N. J., $1,309; Superior Cable Corp., Hickory, N. C., $391 (did not meet specifications); General Cable Corp., Seattle, $1,013 (did not meet delivery requirement); U. S. Rubber Co., Seattle, $2,771; Platt Electric Supply, Inc., 1305 N.W. Davis, Portland, $2,771.
WB 3-9. Previous report 2-9

▲CARRIER CURRENT COMMUNICATIONS EQUIPMENT— Portland, Ore.

Bids opened February 24 by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for carrier current communication equipment, fob. Eavan Spur, Vancouver, Wash. (Inv. No. 7892). LOW BID: Westinghouse Electric Corp., U. S. National Bank Bldg., Portland, $3,002. ONLY OTHER BID: Motorola Communications & Electronics, Inc., Chicago, $4,004.
WB 3-9. Previous report 2-1

▲GUY CLAMPS— Portland, Ore.

Bids opened February 27 by Bonneville Power Administration, L. C. Stewart, procurement officer, 1001 N.E. Lloyd Blvd., Portland, for 19,000 guy clamps to be delivered fob. Eavan Spur, Vancouver, Wash. (Inv. No. 7903). LOW BIDS: Malleable Iron Fittings Co., Branford, Conn., $9,087; Line Material Co., Stroudsburg, Pa., $11,852; Graybar Electric Co., Inc., 809 N.W. Flanders St., Portland, $15,542 (downward escalation).
WB 3-9. Previous report 2-21

●SANDBLASTING BUILDING FOUNDATION, BASEMENT— Portland, Ore.

Bids to be opened 2 p. m., April 5, by Corps of Engineers, Portland District, Colonel Jackson Graham, district engineer, 628 Pittock Block, Portland, for construction of foundation and basement for a sandblasting building at Bonneville Dam on the Columbia River; CIVENG-35-026-56-166. Completion time 60 calendar days.

Construction of a 40.5'x40' foundation and basement for a sandblasting building; cutting and installing government furnished 30" flange beams and 110 lb. rails. MC 3-8

▲DEEP WELL PUMP— Portland, Ore.

Bids opened February 28 by Bonneville Power Administration, L. C. Stewart, procurement officer, 1001 N.E. Lloyd Blvd., Portland, for deep well pump fob. Merle, Ore. (Inv. No. 7893). LOW BID: R. M. Wade & Co., 1919 N.W. Thurman St., $1,487. OTHER BIDS: Fairbanks, Morse & Co., 105 S.E. Taylor St., $1,710; Pump, Pipe & Power Co., 265 N. Hancock St., (Item 1 only) $1,490. Of Portland.
WB 3-9. Previous report 2-1

■SUBSTATION— Portland, Ore.

Planholders announced for additions to The Dalles Substation, Wasco County, Ore. (Inv. No. 7913). Bids to be opened 2 p. m., March 23, by Bonneville Power Administration, L. C. Stewart, procurement officer, 1001 N.E. Lloyd Blvd., Portland. $25 deposit. Bid bond 25%.

Planholders: John M. King Co., 1601 Taylor Way, Tacoma; Sierra Electric, 1269 N. Russett St., Portland; Western Electrical

Construction Co., 1639 N.W. Raleigh, Portland; Witzig Construction Co., 223 S. 4th St., Corvallis; Charles R. Schmiedeskamp, 1008 S.W. 6th Ave., Portland; J. M. Montgomery & Co., Inc., 900 S. Roberston Blvd., Los Angeles; Del Monte Electric Co., 8275 San Leandro St., Oakland, Calif.; George S. Smith, Route 1, Box 19-A, Bothell, Wash.; Lloyd B. Read, 2607 S.W. Sunset Blvd., Portland; O. Brandon, 6401 Lincoln Ave., Vancouver; Nesheim Construction Co., 6714 36th Ave. S.W., Seattle; Utility Construction Co., 4224 N. Mason St., Tacoma; Sergeant Construction Co., 10104 S.E. Ankeny St., Portland. WB 3-9. Previous report 3-1

★CULVERT PIPE— Portland, Ore.

Award to Collins Concrete & Steel Pipe Co., 3841 N. Columbia Blvd., Portland, at unit prices quoted, by Board of County Commissioners, John W. West, purchasing agent, room 504, Courthouse, Portland, for furnishing corrugated iron and concrete pipe for road department for calendar year 1956. WB 3-10. Previous report 2-16

★STATE HIGHWAY PROJECTS— Portland, Ore.

Awards by Oregon State Highway Commission, H. B. Glaisyer, secretary, Salem. Bids were opened March 1 in Portland on the following projects:

RIDDLE—Grading, asphaltic concrete paving on 0.15 mile Main St. in Riddle, Douglas County, a city project.

AWARD: Warren Northwest, Inc., Portland, $13,370.

HAINES SECTION—Stone base and oiling on 3.81 miles of Muddy Creek School-Haines Junction, middle unit of Rock Creek-Haines sections of the Muddy Creek and Rock Creek, Baker County roads, north and west of Haines, FAP. Nos. S-311(1) and S-168(2).

AWARD: Babler Bros., Inc., 4617 S.E. Milwaukie, Portland, $51,147.

MG 3-10. Previous report 3-3

★GAS PIPELINE— Portland, Ore.

Award to Pipe Lines, Inc., 211 N.E. Columbia Blvd., Portland, $416,118, by Portland Gas & Coke Co., Charles H. Gueffroy, president, 920 S.W. 6th Ave., Portland, for new west side gas pipeline from plant at Linnton, south almost to Tualatin and across to Oswego and West Linn. Bids were opened March 1. Seven additional bids were received. Pipe Lines, Inc., is made of R. A. Heintz and Tom L. Henning, both of R. A. land, and C. V. Miller, Denver.

WB 3-10. Previous report 2-24

● TRANSMISSION LINE— Portland, Ore.

Bids to be opened 2 p.m., April 2, by Bonneville Power Administration, L. C. Stewart, procurement officer, 1001 N.E. Lloyd Blvd., Portland, for construction of Olympia-Shelton No. 3, 230 kv. transmission line, Thurston and Mason counties, Wash.; Inv. No. 7922. $25 deposit. Completion time 150 calendar days.

Project includes 20.0 miles of 230 kv. H-frame and steel towers with 115 kv. H-frame, temporary taps at each end of the line. Quantities: 1,000 lb. reinforcing steel; 500 lb. structural steel; 100' drilling and grouting reinforcing steel anchor dowels; 25,000 lb. erect leg extensions; 21,200 lb. erect steel in special structures; 19,200 lb. erect lattice pole sections. MG 3-10

★FIREBRICK— Portland, Ore.

Award to Gladding, McBean & Co., 110 S.E. Main St., Portland, $2,106, by Corps of Engineers, Colonel Graham, district engineer, 628 Pittock Block, Portland, for firebrick, fob. Portland (CIVENG-35-026-56-148). Bids were opened February 23.

WB 3-10. Previous report 2-21

★POWER SWEEPER— Portland, Ore.

Award to Cramer Machinery Co., 1005 S.E. Stark St., Portland, $2,548, by Portland School District No. 1, L. J. Baker, business manager, 620 N.E. Halsey St., Portland, for industrial power sweeper for maintenance department. WB 3-10. Previous report 2-11

★POLE LINE HARDWARE— Portland, Ore.

Award by (bids opened February 20) Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for pole line hardware, fob. South Bend, Wash. (Inv. No. 7889). AWD: Alaskan Copper & Brass Co., 34 N.E. 7th Ave., Portland, $6,127.

WB 3-10. Previous report 2-24

★SEWER— Portland, Ore.

Award to Don Thornton, Portland, $2,404, by city auditor, Will Gibson, City Hall, Portland, for sewer in S.E. 51st Ave.

WB 3-10. Previous report 2-28

★GASOLINE MOTORS— Portland, Ore.

Award to Wentworth & Irwin, Inc., 123 N.E. Oregon St., Portland, $7,339, by city purchasing agent, Gentry W. Yates, room 208, City Hall, Portland, for furnishing two gasoline motors and installing in fire equipment. WB 3-10. Previous report 2-24

★STEEL STRUCTURES— Portland, Ore.

Award to Bethlehem Pacific Coast Steel Corp., San Francisco, $2,376, by Bonneville Power Administration, L. C. Stewart, procurement officer, 1001 N.E. Lloyd Blvd., Portland, for substation steel structures, fob. Eavan Spur, Vancouver, Wash. (Inv. No. 7898). WB 3-10. Previous report 2-24

★TRANSFORMER TRANSFER CARS— Portland, Ore.

Award to Star Iron & Steel Co., Tacoma, $9,180, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for two transformer transfer cars, fob. Merle, Ore., and Mead, Wash. (Inv. No. 7869).

WB 3-10. Previous report 2-7

● SUBSTATION ADDITIONS— Portland, Ore.

Bids to be opened 3 p.m., March 28, by Bonneville Power Administration, L. C. Stewart, procurement officer, 1001 N.E. Lloyd Blvd., Portland, for construction of additions for Bank No. 2 and Shelton Line No. 3 Terminal at Olympia Substation, approximately two miles southwest of the town of Tumwater, Thurston County, Wash.; Inv. No. 7924. $25 deposit. Bid bond 25%.

Quantities: 640 c.y. structural excavation; 240 c.y. reinforced concrete footings; 400 c.y. duct system excavation; 98,000 lb. steel erection; 1,280 sq. ft. concrete sidewalks; 2,600' excavating french drains and outlet ditches; 685' of closed joint concrete pipe; 2,190' open joint pipe, 6" and 8"; 215 c.y. crushed rock. MG 3-10

● LUMBER— Portland, Ore.

Bids to be opened 9:30 a.m., P.S.T., March 20, by lumber branch of Corps of Engineers, Colonel Jackson Garaham, district engineer, 628 Pittock Block, for 789,000 fbm. lumber, softwood, for various destinations (ENG-35-026-56-147). WB 3-13

● LUMBER— Portland, Ore.

Bids to be opened 9:30 a.m., P.S.T., March 21, by lumber branch of Corps of Engineers, Colonel Jackson Graham, district engineer, 628 Pittock Block, Portland, for 205,000 fbm. lumber, softwood, for various destinations (ENG-35-026-56-150). WB 3-13

● LUMBER— Portland, Ore.

Bids to be opened 9:30 a.m., P.S.T., March 22, by lumber branch of Corps of Engineers, Colonel Jackson Graham, district engineer, 628 Pittock Block, Portland, for 30,000 fbm. lumber for Fort Sill, Okla. Specifications with lumber branch (ENG-35-026-56-148). WB 3-13

● PLAYFIELD DRAINAGE— Portland, Ore.

Bids to be opened 8 p.m., April 2, by School District No. 15Jt., Mrs. George W. Bartholomew, clerk, Pleasant Valley School, 17625 S.E. Foster Road, Portland, for grading, crowning and tiling playfield at the school. Plans with school principal. Work includes retaining wall. Completion time 30 days. WB 3-13

★STATE HIGHWAY PROJECT— Portland, Ore.

Award by Oregon State Highway Commission, H. B. Glaisyer, secretary, Salem, on the following project. Bids were opened March 1, in Portland:

BURNSIDE ROAD—Grading for 0.69 mile and asphaltic concrete paving for 3.81 mile on S.E. Stark St.-Powell Valley Road section of the East Burnside Road near Gresham, Multnomah County, FAP. No. S-166(2).

AWARD: Warren Northwest, Inc., Portland, $125,665. MG 3-14. Previous report 3-3

★STATE HIGHWAY PROJECTS— Portland, Ore.

Awards by Oregon State Highway Commission, H. B. Glaisyer, secretary, Salem. Bids were opened January 26 in Portland on the following projects:

WALLACE BRIDGE-SHERIDAN UNIT — Grading 6.86 mile Valley Junction-Sheridan section of Salmon River Highway, east and west of Sheridan, Yamhill and Polk Counties, FAP No. F-300(7). Involves 72,000 lb. metal reinf.; 805,000 c.y. excav.; 390 c.y. concr. Completion date November 30.

AWARD: Roy L. Houck & Son, 1585 N. 20th, Salem, $391,022.

NEAR MERRILL—Grading, asphaltic concrete paving and shoulder oiling on 4.02 mile Lost River - Hatfield Junction section of Klamath Falls-Malin Highway, Klamath County, FAP No. S-34(2). Involves 160 c.y. concr. curbs; 20,250 c.y. crushed rock base; 24 ton RC-3 asph.; 13,500 ton asph. concr. paving mix; 810 ton 120-150 asph. in paving; 58 tons RS-1 asph.; 60 ton RS-2 asph.; 62 ton 150-200 asph. Completion date September 15.

AWARD: Central Paving Co., Foot of C St., Independence, and Calks Concrete Co., Oceanlake, joint venture, $207,055.

MG 3-14. Previous report 1-28

★STATE HIGHWAY PROJECT— Portland, Ore.

Award by Oregon State Highway Commission, H. G. Glaisyer, secretary, Salem, on the following projects on which bids were opened March 2 in Portland.

TANGENT—Asphaltic concrete paving on 3.09 mile Tangent Junction - Oak Creek School section of Orleans-Lebanon, Linn County road, about 1.2 mile north of Tangent, FAP. No. S-119(4).

AWARD: Warren Northwest, Inc., Box 5072, Portland, $48,802.

MG 3-14. Previous report 3-6

★STATE HIGHWAY PROJECTS— Portland, Ore.

Awards by Oregon State Highway Commission, H. G. Glaisyer, secretary, Salem, on the following projects on which bids were opened January 27 in Portland.

CHEHALEM MOUNTAIN-NEWBERG SECTION—Grading, asphaltic concrete paving 1.94 miles of Hilsboro-Silverton Highway north from Newberg, Yamhill County, FAP No. S-63(3). Involves 30 ton RC-3 asph.; 5,300 ton asph. concr. paving mix; 320 ton 100-200 asph. in paving; 12 ton RS-1 asph.; 24 ton RS-2 asph. Completion time September30.

AWARD: Calkins Crushing Co., Oceanlake, $112,128.

UKIAH-FOREST BOUNDARY SECTION—Grading, topping 9.99 miles Ukiah-Hilgard Highway about 50 miles south (along U.S. 395) from Pendleton, Umatilla County, FAP No. S-57(5). Completion August 31.

AWARD: Robertson Construction Co., Bend, $198,847. MG 3-14. Previous report 2-4

★RECONSTRUCT BRIDGE— Rainbow, Ore.

Award to Concrete Structures, 8906 S.E. Harrison St., Portland, $7,495, by U.S. Forest Service, Frank Walisch, regional supply officer, 729 N.E. Oregon St., room 18, P.O. Box 4137, Portland, for reconstruction of Elbow Grade Bridge, approximately 11 mi. south of Rainbow, Ore., Willamette National Forest. WB 3-10. Previous report 3-6

▲CONTROL HOUSE— The Dalles, Ore.

Bids opened March 9 by Bonneville Power Administration, L. C. Stewart, procurement officer, 1001 N.E. Lloyd Blvd., Portland, for construction of the control house at The Dalles Substation, Wasco County, Ore. (Inv. No. 7902). LOW BID: Mann Construction Co., Redmond, Ore., $16,640. OTHER BIDS: L. B. Read, 2607 S.W. Sunset Blvd., Port-

land, $17,995; Charles R. Schmiedeskamp, 1008 S.W. 6th Ave., Portland, $20,617; John M. King Co., 1601 Taylor Way, Tacoma, $26,822. WB 3-13. Previous report 2-29

■ **ROCK FILL, BREAKWATER—** **Tillamook, Ore.**

Planholders announced for construction of a rock fill and a hydraulic fill breakwater from Pitcher Point to Bayocean, approximately 8 miles west of Tillamook, Tillamook County, Ore. (CIVENG-35-026-56-161). Bids to be opened 2 p.m., March 20, by Corps of Engineers, Portland District, Colonel Jackson Graham, district engineer, 628 Pittock Block, Portalnd. Bid bond 20%.

Planholders: Clyde W. Wood & Sons, Inc., P. O. Box 620, North Hollywood, Calif.; Smith Bros., 3801 4th Plain, Vancouver; Miller & Strong, Box 366, Eugene; Port of Astoria, Astoria; Puget Sound Dredging Co., 2929 16th S.W., Seattle; Strong & MacDonald, 4045 Ruston Way, Tacoma; General Construction Co., P. O. Box 3328, Seattle; Stoen Construction Co., 2210 E. 95th St., Seattle; General Construction, 4850 N.W. Front, Portland; Guy F. Atkinson Co., 10 W. Orange Ave., South San Francisco; Clifford P. La Fond, Box 187, Beaver, Ore.; Vernie Jarl, Box 507, Gresham, Ore.; C. J. Eldon, Box 5686, Portland; Willamette Tug & Barge Co., Ft. of North Portsmouth, Portland; Walter W. Johnson Co., 141 Battery St., San Francisco; Natt McDougall, 824 Pittock Block, Portland; Kuckenberg Construction Co., 11104 N.E. Holman, Portland; Silver Falls Trucking & Construction, Route 1, Box 212, Silverton, Ore.; Palmberg Construction Co., P. O. Box 991, Astoria; Funderburk Construction Corp., Sutherlin, Ore.; United Builders, Inc., P. O. Box 211, Beaverton, Ore.; Sam Sampson, 100 W. 38th St., Vancouver; Seacoast Nursey, Box 47, Gearhart, Ore.

WB 3-9. Previous report 3-2

● **DRILL ROD—** **Troutdale, Ore.**

Bids to be opened 11 a.m., P.S.T., March 19, by Corps of Engineers, Colonel Jackson Graham, district engineer, 628 Pittock Block, Portland, for 58 pieces of drill rod, each with one coupling, fob. Troutdale, Ore.

WB 3-13

▲ **WATER LINES, HEATING SYSTEM—** **Warrenton, Ore.**

Bids received by Lt. Col. William H. Adams, purchasing and contracting officer, Oregon National Guard, 504 State Office Building, Salem, for three separate contracts on the water system at Camp Clatsop, Warrenton. LOW BIDS: CONTRACT DA-35-047-NG-120—Leppla & Son, 267 9th, Astoria, $17,739; P. S. Lord Mechanical Contractors, 4507 S.E. Milwaukie, $19,895; Rowland Plumbing and Heating, 311 S. 113th, Tacoma, $19,927. CONTRACT DA-35-047-NG-121 George F. Anderson, 1193 Grand, Astoria, $4,974; Arne Abrahamsen Co., 478 Bond St., Astoria: $5,711; Columbia Irrigation, Portland, $5,892. CONTRACT DA-35-047-NG-124—Arne Abrahamsen Co., Astoria, $2,696; Leppla & Son, Astoria, $2,753; George F. Anderson, Astoria, $2,803. Bids were opened February 27 in Salem.

MG 3-10. Previous report 2-14

WASHINGTON

● **ASPHALTIC CONCRETE PAVING—** **Bremerton, Wash.**

Bids to be opened 11:30 a.m., P.S.T., March 22, by U.S. Department of Navy, Bureau of Yards and Docks, Captain F. L. Enderbrock, officer in charge of construction, Building 78, U.S. Naval Base, Bremerton, for asphaltic concrete paving west of drydock No. 5, 2nd increment, Puget Sound Naval Shipyard, Bremerton; NBy-1959; Spec. 1959/56.

Work consists of providing drainage structures and paving with asphaltic concrete an area approximately 2,900 sq. yds. The work includes the preparation of ground surfaces and providing the base course. GW 3-13

● **CRANE PAINTING—** **Bremerton, Wash.**

Bids to be opened 11:30 a.m., P.S.T., March 23, by U.S. Department of Navy, Bureau of Yards and Docks, Captain F. L. Enderbrock, officer in charge of construction, Building 78, U.S. Naval Base, Bremerton, for painting cranes Nos. 42, 43, 50, 78, Puget Sound Naval Shipyard, (06-427); NBy-1961; Spec. No. 1961-56.

The work consists of cleaning and painting the exterior of four portal cranes, including the re-establishment of existing numerals and safety slogans. GW3-13

● **GRADING, SIDEWALKS, CURBS—** **Bremerton, Wash.**

Bids to be opened 10 a.m., P.S.T., April 4, by E. H. T. McGowan, city clerk, City Hall, Bremerton, for grading and construction of sidewalks, curbs, gutters. Specifications with city clerk and city engineer in City Hall. Certified check or bid bond 5%.

Grading, construction of five ft. concrete sidewalks, concrete curbs and gutters on Terrace St. from Perry Ave. to Trenton Ave. and on North Charlotte Ave. from 6th St. to 9th St. DC 3-14

● **STOCKPILING—** **Colfax, Wash.**

Bids to be opened 10:30 a.m., March 26, by Whitman County Commissioners, Pauline H. Lust, county auditor, Courthouse, Colfax, for stockpiling 70,000 ton crushed rock; 20,000 ton at Looney Quarry, 25,000 ton at Haun Quarry, and 25,000 ton at Kitzmiller Quarry. Specifications with county road engineer, Courthouse, Colfax. Qualified list. Certified check, 5%. MH-G 3-13

● **TRASHRACK RAKES— Dallesdam, Wash.**

Bids to be opened 2 p.m., April 26, by Corps of Engineers, Portland District, Colonel Jackson Graham, district engineer, 612 Pittock Block, Portland, for the manufacture, shop assembly, shop testing, painting and delivery of five trashrack rakes to Dallesdam, Wash.; CIVENG-35-026-56-167. Completion time January 16, 1957.

Trashrack rakes for the main unit and station service intake, the fish turbine intake, the navigation lock intake, the auxiliary water supply and fishlock intake. The auxiliary water supply rake will include auxiliary water supply rake will include four transition sections and the fishlock intake rake two transition sections. MG 3-9

● **PIPELINES, EARTHWORK, STRUCTURES—** **Ephrata, Wash.**

Bids to be opened 10 a.m., P.S.T., April 5, by Bureau of Reclamation, P. R. Nalder, project manager, Division Ave. and C St. N.W., or Box 368, Ephrata, for earthwork, pipelines, structures for north part Block 46 Laterals, Wasteways, Drains, East Low Canal Laterals, Columbia Basin Project; Spec. No. DC-4636. Specifications with Ephrata office.

Project involves earthwork for about 36 mi. of unlined sections of laterals, wasteways and drains; earthwork for and construction of concrete structures along laterals, wasteways and drains, including turnouts, division boxes, constant head orificies, concrete transitions, check and pipe inlets, pipe drops, control and pipe inlets, concrete checks, orifice turnouts, roads and ditch and railroad crossings, concrete drops, weirs, drainage inlets, baffled pipe outlets, weir boxes and pipe drain; furnishing and installing metal slide gates and lifts, adjustable weirs, miscellaneous metalwork. Completion time 475 and 560 calendar days. DM 3-9

● **MOTOR CONTROL ASSEMBLY—** **Ephrata, Wash.**

Bids to be opened April 17 by Bureau of Reclamation, L. N. McClellan, chief engineer, Bldg. 53, Denver Federal Center, Denver, Colo., for furnishing one, 2,500 volt, metal enclosed indoor type, motor control equipment assembly for control of four, 1,250 hp. and four, 450 hp. synchronous motors; one, 600 volt metal enclosed control center assembly for Evergreen Pumping Plant, West Canal Laterals, Block 77, Columbia Basin Project, Wash.; DS-4659. Delivery time 270 days. MG 3-14

● **COMPACTED FILL, CULVERT—** **Ephrata, Wash.**

Bids to be opened 10 a.m., March 29, by Bureau of Reclamation, P. R. Nalder, project manager, Box 368, Ephrata, for compacted fill, station 89+00 to station 93+00 and culvert for Wahluke Siphon, Wahluke Branch Canal, Columbia Basin Project, located in Franklin County approximately 8 miles southeast of Othello, Wash.; Spec. No. 117C-369. Bid bond 10%. Completion time 75 calendar days.

Quantities: 25,000 c.y. compacted fill 2,500 c.y. excavation; 200 c.y. backfill; 200 c.y. compacting backfill; 2,400 c.y. riprap; 600 c.y. gravel bedding for riprap; 150' furnishing and laying 54" asbestos bonded corrugated metal pipe. MG 3-14

▲ **PRIEST RAPIDS DAM— Ephrata, Wash.**

Complete list of bids received March 12 by Public Utility District No. 2, Grant County, G. A. Smothers, manager, at the PUD office in Ephrata, for construction of the dam, powerplant and apuurtenance for the Priest Rapids project on the Columbia River, Wash. LOW BID: Merritt-Chapman & Scott Corp., 260 Madison Ave., New York, $91,878,625. OTHER BIDS: Kaiser Engineering, Inc., 1924 Broadway, Oakland, Calif.; Ralph E. Mills Co., Box 513, Salem, Va.; Hawaiian Dredging Co., Ltd.; Blythe Bros. Co., Charlotte, N.C.; B. Perini & Sons, Framingham, Mass.; Raymond Concrete Pile Co., New York; Walsh Construction Co., 2 Pine St., San Francisco, Calif.; J. H. Pomeroy, San Francisco, Calif., $93,128,004 (joint venture). Guy F. Atkinson Co., 10 W. Orange Ave., South San Francisco, Calif.; American Pipe and Construction Co., Portland; The Arundel Corp., Pier 2, Pratt St., Baltimore, Md.; L. E. Dixon Co., 400 S. California St., San Gabriel, Calif.; Ostrander Construction Co., Terminal Sales Bldg., Portland; Hunkin-Conkey Construction Co., Cleveland, Ohio, $97,494,814 (joint venture); Morrison-Knudsen Co., Inc., 603 Hoge Bldg., Seattle; Peter Kiewit Sons' Co., Inc., 1024 Omaha National Bank Bldg., Omaha, Nebr.; Brown & Root, Box 3, Houston, Tex.; Al Johnson Construction Co., 408 Foshay Tower, Minneapolis, Minn.; McDonald, Young & Nelson, 600 California St., San Francisco, Calif.; F & S Contracting Co., 1300 Chicago Ave., Butte, Mont., $103,996,562 (joint venture). J. A. Jones Construction Co., 432 Medical Arts Bldg., Seattle; Macco Corp., 14409 S. Paramount Blvd., Paramount, Calif.; Charles H. Tompkins Co., 907 16th St. N.W., Washington, D.C.; S. J. Groves & Sons, Springfield, Ill.; W. K. McIlyar Construction Co., Dallas, Tex.; D. W. Winkelman, Greensboro, N.C.; McDevitt & Street, Thompson & Street Co., Atlanta, Ga., $108,889,162 (joint venture). Engineers estimate $125,000,000.

MG-3-14. Previous report 3-12

▲ **ASPHALTIC CONCRETE PAVING—** **Fircrest, Wash.**

Bids received March 9, by Town Council, C. S. Seabrook, Town Engineer, 155 Ramsdell St., Fircrest, for improvements on Regents Blvd. from Orchard St. to Alameda St. Specifications by town engineer. LOW BIDS: Woodworth & Co., 1020 E. "D" St., Tacoma, $23,453; Asphalt Paving and Engineering Co., Box 351, Longview, $24,264; Kendall Construction Co., 3211 Center, Tacoma, $26,879. GW 3-13. Previous report 3-6

● **PAVING—** **Fort Lewis, Wash.**

Bids to be opened 1 p.m., March 26, by Purchasing and Contracting Office, Fort Lewis, for constructing and paving streets for Tent Camp Area, Yakima Firing Center, Yakima; AVI-45-016-56-90. Bid bond 20%. Completion time 60 calendar days.

Quantities: 4,500 c.y. excavation; 2,000 c.y. base course; 720 c.y. leveling course; 14 ton prime coat, MC-1; 800 ton asphaltic concrete. MG 3-6

● **IRRIGATION PIPE—** **Kennewick, Wash.**

Bids to be opened 9 a.m., March 21, by Kennewick Irrigation District, Van E. Nutley, manager, 214 W. 1st Ave., Kennewick, for furnishing 360' of 6" concrete irrigation pipe to be distributed to job which crosses 7th Ave. between Ely St. and Morain St. Specifications with district. DC 3-14

▲ **SEWERS—** **Kittitas, Wash.**

Bids received by Town Council, Grace Krouskop, town clerk, Town Hall, Kittitas,

for replacement of approximately 5,780' of 8", 10" and 12" sewer lines. LOW BIDS: De Blasio Bros., Route 4, Yakima, $13,108; E. M. Gostovich, Sunnyside, $19,352; Don Akins, Inc., Box 298, Ellensburg, $22,455. Bids were opened March 7 in Kittitas.
IG-M 3-10. Previous report 2-17

● DREDGING— Lapush, Wash.

Bids to be opened 2:15 p. m., March 21, by Corps of Engineers, Seattle District, Colonel N. A. Matthias, district engineer, 4735 E. Marginal Way, Seattle, for maintenance dredging, entrance channel, Quillayute River, Lapush, Wash.; CIVENG-45-108-56-45. Plans and specifications may be obtained at the office of the district engineer, 4735 E. Marginal Way, Seattle. Bid bond 20%. Completion time 60 calendar days.

Quantities include 30,800 c.y. depositing dredged materials in disposal Area "A"; 30,800 c.y. depositing dredged material in disposal Area "B". MG 3-14

● SEWERAGE SYSTEM—Long Beach, Wash.

Bids to be opened 8 p. m., P.S.T., March 29, by Town Council, Florence L. Rine, town clerk, Town Hall, Long Beach, for construction of SCHEDULE 1—44,000' of 6" to 12" asbestos-cement sewers; SCHEDULE 2—four pneumatic ejector lift stations and one sewage pumping station; SCHEDULE 3—lagoon sewage treatment facility. Specification with town clerk in Long Beach or with N.W. Haner & Associates, 220 S.W. Alder St., Portland. $25 deposit. Certified check, cashier's check or bid bond 5%. DC 3-14

STONE REVETMENTS— McNary Dam Reservoir, Wash.

Bids to be opened about 2 p. m., April 17, by Corps of Engineers, Walla Walla District, Colonel Myron E. Page., Jr., district engineer, Bldg. 602, City-County Airport, Walla Walla, for repair of stone revetments along shore McNary Dam Reservoir, Columbia and Snake River, Oregon and Wash.; CIVENG-45-164-56-55. $100 deposit. Completion time December 1, 1956.

Quantities: Unit 1—McNaryDam, 2,265 c.y. foundation; 500 c.y. random rock; 5,920 c.y. dumped riprap. Unit 2—Cold Springs access Road: 1,800 c.y. excavation; 2,400 c.y. select gravel surfacing; 15 c.y. crushed rock surfacing. Unit 3—Oregon State Highway: 5,040 c.y. preparation of foundation; 500 c.y. rock; 500 c.y. gravel filter; 13,530 c.y. dumped riprap. Unit 4—U. P. Railroad: 12,850 c.y. foundation; 4,000 c.y. rock; 34,080 c.y. riprap. Unit 5—U. P. R. R.: 3,900 c.y. foundation; 1,500 c.y. rock; 9,840 c.y. riprap. Unit 6—Madame Dorion Bridge; 6,000 c.y. rock; 15 c.y. select gravel surfacing. Unit 7—U. P. Bridge Approach (Col. R.) and Bonneville Tower: 405 c.y. foundation; 100 c.y. rock; 1,400 c.y. riprap. Unit 8—Pasco Levee 12-1: 1,150 c.y. foundation; 500 c.y. rock; 19,595 riprap. Unit 9—Pasco Levee 12-2: c.y. foundation; 200 c.y. rock; 8,445 c.y. riprap. Unit 10—S. P. & S. Railway: 1,400 foundation; 300 c.y. rock; 3,360 c.y. riprap. Unit 11—S. P. & S. Railway: 5,200 c.y. foundation; 500 c.y. rock; 11,040 c.y. riprap. Unit 12—S. P. & S. Railway: 18,870 c.y. foundation; 1,700 c.y. rock; 39,800 c.y. riprap. Unit 13—S. P. & S. Railway: 5,100 c.y. foundation; 500 c.y. rock; 10,200 c.y. riprap. GM 3-14

DRAINAGE WELL— Moses Lake, Wash.

Project cancelled for increasing the depth of existing drainage well, Harwood area, Block 41, approximately 6 mi. southeast of Moses Lake, by Bureau of Reclamation, P. R. Nalder, project manager, Box 368, Ephrata; Spec. No. 117C-363. Bids were to have been opened February 16, but were postponed prior to cancellation.
GW 3-8. Previous report 2-25

REVETMENT REPAIR, EXTENSION— Neah Bay, Wash.

Bids to be opened about April 4 by Corps of Engineers, Seattle District, Colonel N. A. Matthias, district engineer, 4735 E. Marginal Way, Seattle, for revetment repair and extension, Neah Bay, Wash.; CIVENG-45-108-56-43. Bid bond 20%. Plans and specifications may be obtained from the office of the district engineer, 4735 E. Marginal Way, Seattle. Completion time 120 calendar days.

Quantities: 27,000 c.y. common excavation; 6,500 ton rock spalls; 5,800 ton back-up rock; 1,500 ton back-up rock; 20,300 ton armor rock. MG 3-14

● ROAD REPAIR— Oak Harbor, Wash.

Bid opening extended from March 15 to 2 p. m., March 28, by 13th Naval District, Bureau of Yards and Docks, Captain J. R. Davis, public works officer, room 100, Bldg. 232, U. S. Naval Station, Seattle, for road repairs to Midway Blvd., at the U. S. Naval Air tSation, Whidbey Island, Oak Harbor; Spec. No. 49242. GW 3-14

■ STATE HIGHWAY PROJECTS— Olympia, Wash.

Planholders announced on highway construction on which bids will be opened 10 a. m., March 20, by Washington State Highway Commission, W. A. Bugge, director, Transportation Bldg., Olympia.

LAKE CRESCENT VICINITY — Surfacing and paving with bituminous plantmix type F on 10.95 mi. PSH. No. 9, Clallam County, a state project.

Planholders: Acme Construction Co., Box 306, Eugene; American Bitumuls and Asphalt Co., Box 409, Portland; Associated Sand and Gravel Co., 2508 Colby Ave., Everett; Curtis Construction Co., Box 106, Spokane; Interstate Asphalt Co., Inc., 905 E. Heron, Aberdeen; Harrison Bros. Co., 225 Wakefield Drive, Tacoma; Pieler Construcion Co., Box 549, Port Angeles; J. D. Shotwell Co., 3113 S. Pine St., Tacoma; Strong & Macdonald, Inc., 4045 Ruston Way, Tacoma; Washington Asphalt Co., 309 W. 39th, Seattle; Sjoboen Bros., 3205 Hoadley Road, Olympia; Asphalt Paving and Engineering Co., Box 356, Tacoma; Pacific Sand and Gravel Co., Box 628, Centralia.

FAIRHOLM WEST—Clearing, grading, surfacing, constructing cement treated base and paving with type I-1 asphaltic concrete on 3.066 mi. PSH No. 9, Clallam County, FAP No. F-007-3(5).

Planholders: American Bitumuls and Asphalt Co., Portland; Bocek Bros., Box 666, Hoquiam; N. Fiorito Co., Inc., 844 W. 48th, Seattle; Harrison Bros. Co., Tacoma; Peter Kiewit Sons' Co., Box 531, Vancouver; Pacific Sand and Gravel Co., Box 628, Centralia; Permanente Cement Co., 5975 E. Marginal Way, Seattle; Pieler Construction Co., Inc., Box 549, Port Angeles; Thomas Scalzo Co., 3211 Airport Way, Seattle; J. D. Shotwell Co., 3113 S. Pine, Tacoma; Sjoboen Bros., Olympia; S. D. Spencer & Son, 4506 N.E. Jaggy Road, Vancouver; Strong & Macdonald, Inc., Tacoma; J. P. Surace Construction Co., 3238 Seaview Ave., Seattle; Standard Asphalt Paving Co., Inc., 119 N. Post, Spokane.

PEASLEY CANYON TO AUBURN—Clearing, draining, grading 0.698 mi. PSH No. 2, King County, FAP No. BF-046-1(3).

Planholders: J. N. Conley, 4332 N.E. Royal Court, Portland; Erickson Paving Co., Route 2, Box 2155, Bellevue; Fiorito Bros., 110 Leary Way, Seattle; N. Fiorito Co., 833 W. 48th, Seattle; Peter Kiewit Sons' Co., Vancouver; Morrison-Knudsen Co., Inc., 603 Hoge Bldg., Seattle; Murphy Bros., Inc., E. 3728 Broadway, Spokane; Natt McDougall Co., 824 Pittock Block, Portland; N. Paduano Bulldozing, Route 2, Box 596, Bothell; Thomas Scalzo Co., 3211 Airport Way, Seattle; Scarsella Bros., 2207 S. 146th, Seattle; Sjoboen Bros., Olympia; S. D. Spencer & Son, Vancouver; Strong & Macdonald, Inc., Tacoma; Woodworth & Co., Inc., 1200 E. D St., Tacoma; Northwest Construction Co., 3950 6th Ave. N.W., Seattle; Soule Steel Co., Box 3685 Terminal Annex, Seattle; J. P. Surace Construction Co., 3238 Seaview Ave., Seattle; Harrison Bros. Co., Tacoma.

ALASKAN WAY, HOLGATE STREET TO HANFORD STREET — Draining, grading, surfacing, paving with cement concrete and type I-1 asphaltic concrete and installing illumination system on 0.690 mi. PSH No. 1, King County, FAP No. U-001-3(13).

Planholders: M. P. Butler, 3419 13th S.W., Seattle; Fiorito Bros., 110 Leary Way, Seattle; N. Fiorito Co., Inc., Seattle; Glacier Sand and Gravel Co., 4974 E. Marginal Way, Seattle; Pacific Construction Co., 3002 16th Ave. S., Seattle; Seattle Contracting Co., 1001 Nickerson, Seattle; Washington Asphalt Co., 309 W. 39th, Seattle; City Electric and Fixture Co., 433 8th Ave. N., Seattle; Line Material Co., 700 W. Michigan St., Milwaukee, Wis., Northwest Construction Co., 3950 6th Ave. N.W., Seattle; Soule Steel Co., Box 3685 Terminal Annex, Seattle; Superior Construction Co., 4610 37th Ave. S.W., Seattle.

OCOSTA EAST—Clearing, draining, grading, surfacing with light bituminous surface treatment, paving with bituminous plantmix type F, 1.297 mi. SSH No. 13-A, Grays Harbor County, FAS No. S-0250(6).

Planholders: American Bitumuls and Asphalt Co., Portland; Bocek Bros., Box 666, Hoquiam; Glacier Sand & Gravel Co., 4974 E. Marginal Way, Seattle; Peter Kiewit Sons' Co., Vancouver; Pacific Sand and Gravel Co., Centralia; Sjoboen Bros., 3295 Hoadley Road, Olympia; S. D. Spencer & Son, Vancouver.

END OF PAVEMENT TO TELFORD—Surfacing with light bituminous surface treatment and paving with type I-1 asphaltic concrete, 6.961 mi. PSH No. 2, Lincoln County, FAP No. F-028-3(2).

Planholders: American Bitumuls and Asphalt Co., Portland; Carbon Bros., Spokane; Columbia Asphalt Paving Co., 207 Masonic Temple Bldg., Yakima; J. N. Conley, Portland; Curtis Construction Co., Spokane; F. R. Hewett Co., Spokane; Inland Asphalt Co., 10th and Havana, Spokane; Max J. Kuney Co., Inc., N. 120 Ralph, Spokane; McAtee & Heathe, Inc., Box 4187, Station B, Spokane; Parker-Schram Co., 200 Builders Exchange Bldg., Portland; S. D. Spencer & Son, Vancouver; D-H Paving Co., Vancouver; United Paving Co., Route 1, Box 188, Spokane.

PORT TOWNSEND RAILROAD OVERCROSSING, APPROACHES—Clearing, draining, grading, surfacing, paving with type I-1 asphaltic concrete, constructing cement treated base and reinforced concrete flat slab bridge, 0.482 mi. PSH No. 9, Jefferson County, FAP No. F-FG-013-1(1).

Planholders: American Bitumuls and Asphalt Co., Portland; M. P. Butler, Seattle; Cotton Engineering and Shipbuilding Corp., 126 Madison St., Port Townsend; Del Guzzi Construction Co., 1020 E. Front, Port Angeles; Louis Elterich Co., Box 868, Port Angeles; Excavators, Inc., 5756 29th Ave. N.E., Seattle; Glacier Sand and Gravel Co., 5975 E. Marginal Way, Seattle; Owens Bros., Railroad and Oak, Port Angeles; Permanente Cement Co., 5975 E. Marginal Way, Seattle; Pieler Construction Co., Inc., Box 549, Port Angeles; Scheumann & Johnson, 1001 Lloyd Bldg., Seattle; Soule Steel Co., Box 3685 Terminal Annex, Seattle; Strong and Macdonald, Tacoma; J. Surace Construction Co., 3238 Seaview Ave., Seattle; Washington Asphalt Co., Seattle; Wilson & Simpson, Box 1070, Port Angeles; Winterburn Construction Co., Box 202, Port Townsend.

ADDY-GIFFORD ROAD—Clearing, draining, grading and surfacing 2.380 mi. road, Stevens County, FAS No. S-0475(3).

Planholders: J. N. Conley, Portland; James Crick & Sons, Box 4205, Station B, Spokane; Curtis Construction Co., Spokane; Carl Hohner, E. 6203 Sharpe, Spokane; Max J. Kuney Co., Inc., N. 120 Ralph, Spokane; Murphy Bros., Inc., E. 3728 Broadway, Spokane; Natt McDougall Co., Pittock Block, Portland ;Sather & Sons, N. 1410 Howe, Yardley; Clifton & Applegate, E. 5521 Railroad Ave., Yardley.

DAYBREAK BRIDGE — Reinforced concrete girder approach spans on 0.025 mi. road, Clark County, FAS No. S-0351(1).

Planholders: Natt McDougall Co., Pittock Block, Portland.

JCT. PSH No. 5 VICINITY, JCT, SSH No. 1-L VICINITY—Draining, grading, surfacing, paving with unfinished cement concrete and type I-1 asphaltic concrete, installing illumination system on 1.346 mi. PSH No. 1, King County, a state project.

Planholders: American Bitumuls and Asphalt Co., Portland; J. Arlie Bryant, 216 Hutton Bldg., Spokane; Doolittle Construction Co., 510 Adams, Seattle; Fiorito Bros., 110 Leary Way, Seattle; Line Material Co., 700 W. Michigan, Milwaukee, Wis.; Northwest Construction Co., Seattle; Pacific Construction Co., 3002 16th Ave. S., Seattle; Permanente Cement Co., Seattle; Scheumann & Johnson, 1001 Lloyd Bldg., Seattle; Seattle Construction Co., 101 Nickerson St., Seattle; Superior Construction Co., 4610 37th Ave. S.W., Seattle; Washington Asphalt Co., Seattle.

CHELATCHIE SCHOOL AND AMBOY

VICINITY—Stockpiling crushed stone surfacing, maintenance rock, ballast, mineral aggregates on SSH No. 1-S, Clark County, a state project.

Planholders: J. Arlie Bryant, Spokane; J. N. Conley, Portland; Curtis Construction Co., Spokane; Peter Kiewit Sons' Co., Vancouver; Pacific Sand and Gravel Co., Box 628, Centralia; Sjoboen Bros., Olympia; S. D. Spencer & Son, Vancouver; R. Wamberg, 7404 S. Tacoma Way, Tacoma; W. F. Herrett Co., Box 398, Edmonds.

WAITSBURG VICINITY—Stockpiling maintenance rock, sand and mineral aggregates on state highways Nos. 3, S-E and 3-L, Columbia and Walla Walla Counties, a state project. Involves about 17,980 ton crushed materials.

Planholders: Carbon Bros., N. 3430 Cook, Spokane; J. N. Conley, Portland; Curtis Construction Co., Spokane; F. R. Hewett Co., Spokane; W. F. Herrett Co., Edmonds; F. H. DeAtley & Co., Box 638, Lewiston, Idaho. DM 3-13. Previous report 3-2

●DRAINS— Othello, Wash.

Bids to be opened 10 a.m., April 3, by Bureau of Reclamation, P. R. Nalder, project manager, Box 368, Ephrata, for construction of DPE224A drains, Block 11, in Franklin County approximately 9 miles southeast of Othello, Wash.; Spec. No. 117C-367. Specifications with P. R. Nalder, in Ephrata. Completion time 120 calendar days.

Work includes earthwork for approximately 6,430' of open drains with 3-foot bottom widths; excavation and backfill of trenches for drain pipe and excavation and backfill for manhole and road crossing structures; construction of approximately 3,410' of 8", 10", 12" and 15" drain pipe lines for closed drains and construction of manhole and road crossing structures; placing coarse gravel protection at inlet and outlet of road crossings at the drain outlet, and placing gravel about drain pipe; 7,000 c.y. common excavation; 600 c.y. rock excavation; 2,500 c.y. unclassified excavation and backfill; 450 c.y. unclassified excavation for structures; 350 c.y. backfill; 3,415' of drain pipe with uncemented joints; 200' asbestos bonded corrugated metal pipe. MG 3-14

●PLANTMIX SURFACING— Port Angeles, Wash.

Bids to be opened 10 a.m., March 20, by Clallam County Commissioners, Roy E. Atterberry, Courthouse, Port Angeles, for approximately 6.39 mi. bituminous surface treatment, plantmix, type F on county road, Project No. 324, in the Forks-Quillayute area. Plans with county road engineer, Courthouse, Port Angeles. Certified check, cashier's check or bid bond 5%. DC 3-9

●EQUIPMENT— Port Angeles, Wash.

Bids to be opened 11 a.m., March 20, by Board of County Commissioners, Roy E. Atterberry, county auditor, Courthouse, Port Angeles, for the purchase of one two-drum hoist and one bucket loader for the trade-in of two TD-14 tractors and one Land Clearing Blade. Specifications may be obtained from the office of the County Road Engineer. MC 3-10

GAS PIPELINE— Pullman, Wash.

Engineers estimate that between $600,000 and $750,000 will be expended for natural gas within the city of Pullman. Plans are under way by Spokane Natural Gas Corp. (formerly Spokane Gas and Fuel Co.) to purchase the franchise for Pullman distribution from the Whitman Distributing Co. Spokane Natural Gas Corp. is part of the Fish Management and Development Co. which firm is designer and builder for the Pacific Northwest Pipeline Corp's natural gas pipeline from San Juan fields in New Mexico to the northwest. MH 3-6

STREET, DRAINAGE IMPROVEMENTS— Puyallup, Wash.

Gray & Osborne, consulting engineers, 230 S. 2nd St., Yakima, have completed preliminary studies on city-wide street and drainage improvements. Included in the studies were plans for a storm drain program, $275,000; street widening program, on East Pioneer, $18,000; resurfacing streets, $35,000; new pavement, curbs and gutters, $142,000; obtaining properties for street right-of-way, $15,000. Proposed financing of the projects would be by general obligation bond issue. MC 3-6

●STREET LIGHTING— Redmond, Wash.

Bids to be opened 8 p.m., March 29, by Town Council, Town Hall, Redmond, for street lighting. Specifications with town clerk, Town Hall, Redmond. $5 deposit. Certified check 5%. DC 3-13

▲WATER SUPPLY LINE— Renton, Wash.

Bids received March 7 by Board of Public Works, E. G. Henry, secretary, room 512, County-City Bldg., Seattle, for construction of unit No. 1, Mercer Island water supply line, first phase of the project, which will be furnishing and laying water pipe from Renton to Factoria; Ord. No. 82863. Plans by William E. Parker, city engineer, room 404 County-City Bldg., Seattle. LOW BIDS: Scheumann & Johnson, 1011 Lloyd Bldg., $1,086,630 (concrete pipe, overhead crossing), $1,083,819 (concrete pipe, sub-aqueous crossing); Thorburn & Logozo, 4608 36th Ave. S.W., $1,289,618 (steel pipe, overhead crossing), $1,324,266 (steel pipe, sub-aqueous crossing), $1,085,819 (concrete pipe, overhead crossing), $1,111,232 (concrete pipe, sub-aqueous crossing); Harold Kaeser Co., 3929 34th Ave. S., $1,149,665 (concrete pipe, overhead crossing), $1,154,200 (concrete pipe sub-aqueous crossing); Valley Construction Co., $1,317,294 (steel pipe, overhead crossing), $1,310,423 (steel pipe, sub-aqueous crossing), $1,217,107 (concrete pipe, overhead crossing), $1,208,549 (concrete pipe, sub-aqueous crossing); Argentieri & Colorassi, 1815 Jackson, $1,320,017 (steel pipe, overhead), $1,351,497 (steel pipe, sub-aqueous), $1,224,444 (concrete pipe, overhead), $1,238,286 (concrete pipe, sub-aqueous); Frank Colluccio, 7743 Seward Park Ave., $1,371,049, $1,367,772, $1,239,965, $1,234,147; Thorn & Marble Co., Inc., 4225 23rd Ave. W., $1,334,770 (concrete pipe, overhead), $1,292,033 (concrete pipe, sub-aqueous; Paul Jarvis, Inc., W. Ewing, $1,335,883 (concrete pipe, overhead), $1,378,411 (concrete pipe, sub-aqueous). Of Seattle. GW 3-9

▲PAVING— Seattle, Wash.

Bids received March 7 by Board of Public Works, E. G. Henry, secretary, room 512 County-City Bldg., Seattle, for paving Brooklyn Ave., from Ravenna Blvd. to E. 52nd St.; Ord. No. 84760. Plans by William E. Parker, city engineer, room 404, County-City Bldg., Seattle. LOW BIDS: Seattle Contracting Co., 101 Nickerson, $28,590; Pacific Construction Co., 3002 16th Ave. S., $35,752; Superior Construction Co., 4610 37th Ave. S.W., $36,591; Northwest Construction Co., 3950 6th Ave. N.W., $37,668. All of Seattle. GW 3-9

●TRACTOR, DIGGER— Seattle, Wash.

Bids to be opened 10 a.m., March 20, by Paul R. Hendricks, purchasing agent, 511 County-City Bldg., Seattle, for furnishing a diesel tractor, backhoe digger, loader, post hole digger. Specifications with purchasing agent. DC 3-9

★GRADING, SURFACING, SEWERS, WATER MAINS— Seattle, Wash.

Award to A. Jacaboni, 5232 41th Ave. S.W., Seattle, $51,052, for grading, surfacing, sewers and water mains on the Mead St., LID No. 6117. Plans by William E. Parker, city engineer, 404 County-City Bldg., Seattle. GW 3-10. Previous report 3-1

▲WATER WELL— Seattle, Wash.

No bids received March 8 by 13th Naval District, Bureau of Yards and Docks, Rear Admiral R. H. Meade, chief of Bureau, room 100, Building 232, U. S. Naval Station, Seattle, for rehabilitation of fresh water well, Building 39, at the Naval Supply Depot, Seattle; NBy-1909; Spec. No. 1909/56. GW 3-10. Previous report 2-16

BRIDGE— Seattle, Wash.

Plans under way by D. L. Evans, King County road engineer, County-City Bldg., Seattle, for bridge construction on which bids will be called during the spring and summer.

Projects include: Flaming Geyser Bridge, steel decking and asphaltic concrete surfacing, $15,000, April 1 bid call; Green River Gorge Bridge, steel decking and asphaltic concrete surfacing, $40,000, May 1 bid call; Des Moines Way Bridge, concrete deck widening, 200' long, 24' wide, $90,000, July 1 bid call; culvert 245A Fairfax, concrete bottom, $4,000, April 1 bid call. DM 3-13

SURFACING PAVING— Seattle, Wash.

Plans under way by D. L. Evans, King County road engineer, County-City Bldg., Seattle, for paving and surfacing projects on which bids will be called by the county commissioners late spring and summer.

Projects include: Krain-Wabash road surfacing and grading, 5.75 mile, $60,000, bids to be called in July and contract let in August; Military Road, 2.6 mile cement concrete paving, involves 33,800 sq. yd. material, $180,000, bids to be called in May; S. 312th St., 2 mile cement concrete paving, 26,000 sq. yd. material; $140,000, June bid call; East Lake Sammamish, 3.4 mile cement concrete paving, 44,200 sq. yd. materials, $250,000, July bid call; Airport Way, .25 mile cement concrete paving, 6,500 sq. yd. material, $40,000, July bid call; S. W. 150th, .57 mile asphaltic concrete paving, 1,300 ton material, $14,000, May bid call; S.W. 152nd St., .7 mile asphaltic concrete paving, 3,300 ton material, $80,000, June bid call; Cougar Mountain, 1.7 mile asphaltic concrete paving, 2,800 ton material, $48,000, May bid call. DM 3-13

●PAVING— Seattle, Wash.

Bids to be opened 10 a.m., March 22, by Washington State Highway Commission, J. J. McKay, district engineer, 450 Spokane St., Seattle, for paving with type I-1 concrete a portion of the Corson Avenue Headquarters yard in Seattle, King County, a State Project. Certified check, cashier's check or bid bond 5%. $2 deposit.

Quantities: 12,125 sq. yd. of preparation of untreated surface; 1,520 tons of asphalt cement; 275' of extruded traffic curb. MG 3-13

●WATER WELL— Seattle, Wash.

Bids to be opened 2 p.m., March 20, re-advertisement, by 13th Naval District, Bureau of Yards and Docks, Rear Admiral R. H. Meade, chief of bureau, room 100, Bldg. 232, U. S. Naval Station, Seattle, for rehabilitation of fresh water well Bldg. 39, at the Naval Supply Depot, Seattle; NBy-1909; Spec. No. 1909/56. No bids were received at a March 8 bid opening. Plans with Navy Department. $10 deposit. Bid bond 20%.

Work includes removal of a deep well pump; the provision of additional column and shafting and an extension of the intake manifold; the cleaning of the well; reinstallation of the pump and testing. MG 3-13. Previous report 3-1

●SUBSTATION EXTENSION— Seattle, Wash.

Bids to be opened 2 p.m., March 21, by Board of Public Works, E. G. Henry, secretary, room 512, County-City Bldg., Seattle, for substation extensions at Bothell and Shoreline. Plans with City Light, Engineering Division, H. G. Silliman, chief electrical engineer, 4th Floor, Galland Bldg., 1217 2nd Ave., Seattle.

Construction will include the foundations for equipment, including transformer, circuit breakers and switches. There will also be construction of duct runs; grounding system, and extension of utilities including a fire main system; some excavation and backfill; fencing. GW 3-13

GAS SUPPLY MAINS— Seattle, Wash.

(Estimated cost over $5,000,000)

Additional description on installation of 70 miles of natural gas supply mains in the Puget Sound area. Bids to be opened 2 p.m., April 2, by Washington Natural Gas Co., Charles M. Sturkey, executive vice president and general manager, 1507 4th Ave., Seattle. Plans to be issued March 9 by the gas company. Bidders will be briefed by company engineers March 21. Inspection

tour by chartered bus will be held March 22 and 23.

Supply mains will connect various parts of the company's distribution system with the natural gas transmission line metering stations. Work in three contracts: Line starting near Alderwood-Manor extending to North Seattle and Everett systems, 26 miles; line starting near Renton extending to company's Georgetown pumping station to serve South Seattle, and line starting near Issaquah to serve communities east of Lake Washington, 25 miles; line starting near Dieringer extending to Tacoma, 10 miles, including two river crossings laid with concrete coated pipe. Industrial sales laterals, to be built later this year, will expand Dieringer-Tacoma line to 32 miles. Pipe to be installed is 20" to 4½" welded steel pipe, coated and wrapped with coal tar enamel and fiberglas. Hydraulic Supply Manufacturing Co., 7500 8th S., Seattle, has received a $95,000 contract for pipe wrapping. Other pipe will be wrapped before shipment by suppliers in the East. Construction to start about May 1, for completion by September 1.
WB 3-14. Previous report 3-13

●STEEL PEDESTALS, POLES— **Seattle, Wash.**

Bids to be opened 10 a. m., March 22, by City Council, Paul R. Hendricks, room 511, County-City Bldg., Seattle, for fabricated steel pedestals and poles per specification No. 1427. Specifications with purchasing department.
GW 3-14

▲SEWERS, PAVING, FENCING— **Seattle, Wash.**

Bids received March 13 by Seattle, School District No. 1, Frank M. Brock, secretary, 815 4th Ave. N., Seattle, for the installation of catch basins, sewer lines and chain link fencing at Haller Lake School. Asphalt paving, grading, sewers—LOW BIDS: Lake City Gravel and Materials, Inc., 10728 Bothell Way, Seattle, $6,895; Joe Coluccio, 1425 Hanford, Seattle, $6,900; Washington Asphalt Co., 309 W. 39th, Seattle, $7,200. Fenciny—LOW BIDS: Anchor Post Fence Division—Anchor Post Products, Inc., 4502 14th Ave. N.W., Seattle, $3,170; San Jose Steel Co., Inc., 7034 15th Ave. N.W., Seattle, $3,225; Colorado Fuel and Iron Corp. Pacific Coast Division, 3434 2nd Ave. S., Seattle, $3,250.
GW 3-14. Previous report 2-29

●WATER TANK— **Tacoma, Wash.**

Bids to be opened 10 a. m., March 21, by Lakewood Water District, Pierce County, Roland J. Day, secretary, at district office, 11900 Gravelly Lake Drive, Tacoma, for constructing a welded steel elevated water storage tank with 100,000 gal. capacity. Tank to have tower approximately 104' high and reinforced concrete foundation. Specifications at water district office. $14 deposit. Plans by Worthen & Wing, consulting engineers, 9152 Gravelly Lake Drive, Tacoma. Certified check 5%.
DC 3-10

▲DREDGING— **Tacoma, Wash.**

Low bids announced by Port of Tacoma, M. S. Erdahl, secretary, Port Office, Transit Shed No. 1, Pier 2, Port of Tacoma Terminal, Tacoma, for bulkheading, dredging, filling, riprapping in the first unit of development of Sitcum Waterway. LOW BIDS: General Construction Co., 3840 Iowa St., Seattle, $230,340; Puget Sound Dredging Co., 2929 16th Ave. S.W., Seattle, $248,060. Bids were opened March 6.
GW 3-10. Previous report 2-3

★CEMENT CONCRETE PAVING, WATER MAINS— **Tacoma ,Wash.**

Award to George Madsen Co., 3101 S. Lawrence, Tacoma, $30,462, by Board of Contractrs and Awards, Clarence Boyle, chairman, room 404 City Hall, Tacoma, on seven projects calling for cement concrete paving, storm sewer, water mains and curbs and gutters. Bids were opened and held advisement February 27.
GW 3-13. Previous report 2-20

●WATER MAINS— **Tacoma, Wash.**

Bids to be opened 8 p. m., March 26, by Waller Road Consumers Water Co., Inc., G. M. Ford, secretary, 7115 Waller Road, Tacoma, for furnishing and installing water mains in connection with the 1956 water main replacement program. Specifications with the secretary. $25 deposit. Certified check or bid bond 5%.

Quantities: 2,600' of 8", 9,900' of 6" and 8,450' of -", class 150 asbestos-cement pipe; valves, fire hydrants and service transfers.
DC 3-13

★STREET IMPROVEMENTS— **Tacoma, Wash.**

Award to Kendall Construction Co., 3211 Center St., Tacoma, $16,811, by Board of oCntracts and Awards, Clarence Boyle, chairman, room 404 City Hall, Tacoma, on street improvement projects. Bids were opened and held under advisement February 20.
GC 3-13. Previous report 2-16

★STREET IMPROVEMENTS— **Tacoma, Wash.**

Awards by Board of Contracts and Awards, Clarence Boyle, chairman, room 404, City Hall, Tacoma, for street improvements. AWARD—LID 4587: Kendall Construction Co., 3211 Center, Tacoma, $3,956. LID 4558: Kendall Construction Co., $16,811. LID 4568: Paine Gallucci, Inc., 1521 S. Grant, Tacoma, $6,070. LID 2236: Paoine Gallucci, $3,520. LID 4569: Kendall Construction Co., $10,327. Bids were opened February 20.
GW 3-14. Previous report 2-16

●ILLUMINATION SYSTEMS— **Vancouver, Wash.**

Bids to be opened 10 a.m., March 29 by Washington State Highway Commission, W. A. Bailey, district engineer, 4200 Main St., Vancouver, for installation of two illumination systems. Specifications with the district engineer in Vancouver. $2 deposit. Certified check, cashier's check or bid bond 5%.

CHEHALIS VICINITY—Install illumination systems at PSH No. 12 interchange and West Street "Off" connection on PSH No. 1, Lewis County, a state project.

KALAMA RIVER ROAD, CARROLL's ROAD — Install illumination systems at Kalama River Road and Carroll's intersections on PSH No. 1, Cowlitz County, a state project.
DM 3-10

▲BRIDGE APPROACH— Vancouver, Wash.

Bids opened March 8 by Washington State Highway Commission, P. J. McKay, district engineer, 5200 Main St., Vancouver, for constructing an approach to Salmon Creek Bridge on Primary State Highway No. 1 in Clark County. LOW BID: D-H Paving Co., 6808 Highway 99, Vancouver, $9,678. ONLY OTHER BID: Erland & Blickle, 8275 N. Borthwick Ave., Portland.
WB 3-10. Previous report 2-23

●STEEL WIRE STRAND— **Vancouver, Wash.**

Bids to be opened 10 a.m., P.S.T., March 28, by Bonneville Power Administration, L. C. Stewart, procurement officer, 1001 N.E. Lloyd Blvd., Portland, for steel wire strand, fob. Eavan Spur, Vancouver, Wash., or bidder's shipping point; Inv. No. 7920. Delivery time 60 days, fob. destination, or 45 days, fob. shipping point. Includes 150,000' of ½", 40,000' of ⅜" and 50,000' of ⅜' steel wire strand.
WB 3-13

●EARTHWORK, PIPE LINES, STRUCTURES— Warden, Wash.

Bids to be opened 10 a. m., April 5, by Bureau of Reclamation, P. R. Nalder, project manager, Box 368, Ephrata, for earthwork, pipe lines and structures, North part Block 46, Laterals, Wasteways and Drains, East Low Canal Laterals, Columbia Basin Project, situated in Adams County about 5 to 11 miles south of Warden, Wash.; Spec. No. DC-4635. Completion time 475 and 560 calendar days.

Work invloves earthwork for approximately 28 miles of unlined sections of laterals and wasteways with 12- to 2-foot bottom widths; earthwork for approximately 8 miles of unlined sections of wasteways and drains, bottom widths of sections vary from 6 to 2 feet; earthwork for and construction of approximately 1,320' of precast concrete pipe lines for pipe chutes and pipe siphon; earthwork for and construction of concrete structures along the laterals, wasteways and drains, including turnouts, division boxes, constant head orifices, concrete transitions, check and pipe inlets, pipe drops, control and pipe inlets, concrete checks, orifice turnouts, road and ditch crossings, railroad crossings, concrete drops, weirs, drainage inlets, baffled pipe outlets, weir boxes and pipe drain; furnishing and installing metal slide gates and lifts, adjustable weirs, miscellaneous metalwork and other materials; 175,000 c.y. excavation for laterals, wasteways and drains; 10,000 c.y. mi. excavation from borrow; 45,000 c.y. overhaul; 800 c.y. excavation and backfill of trenches for pipe chutes and siphon; 24,600 c.y. excavation for structures; 10,000 c.y. compacting embankments; 1,030 c.y. concrete in structures; 1,545 barrels furnishing and handling cement; 86,000 lb. furnish and placing reinforcement bars; 344' reinforced concrete culvert pipe with type R joints; 510' concrete pressure pipe; 7,406' of 12" to 48" standard strength reinforced concrete culvert pipe; 850' concrete irrigation pipe with type A joints; 108' corrugated metal pipe.
MG 3-14

★CHANNEL IMPROVEMENT— **Wenatchee, Wash.**

Award to John B. Knowles, Wenatchee, $1,500, by PUD No. 1, Chelan County, Kirby Billingsley, manager, in District Office, 327 N. Wenatchee Ave., Wenatchee, for improvements to Chelan River channel near Lake Chelan hydroelectric plant, Chelan Falls, Wash.; No. 56-1. MG 3-10. Previous report 3-7

●HOIST— Yakima, Wash.

Bids to be opened 2 p. m., April 19, by Bureau of Reclamation, L. N. McClellan, chief engineer, Bldg. 53, Denver Federal Center, Denver, Colo., for one hoist for the 10'x10.66' fixed wheel gate, including the position indicator for the hoist for penstcok intake, Roza Power Plant, Yakima Project, Wash.; DS-4658. Delivery time 180 days.
MG 3-14

IDAHO

▲WOOD GUIDE POSTS— Boise, Idaho

Bids received by State Purchasing Department, Ted Cramer, state purchasing agent, room 225, State House, Boise, for wood guide and guard rail posts for the Highway Department at various destinations. LOW BIDS: Associated Procurement, 3002 Main, Boise, $5,844; Boise-Payette Lumber Co., 114 S. 10th, Boise, $6,496. Bids were opened March 6 in Boise.
MG 3-9

●STATE HIGHWAY PROJECTS— Boise, Idaho

Bids to be opened 2 p. m., March 20, by Department of Highway, E. V. Miller, highway engineer, 603 Main St., Boise, on highway construction. Specifications with highway department. $5 deposit. Certified check, cashier's check or bid bond 5%.

GOLDEN GATE CANAL BRIDGE—Constructing 24.2' concrete bridge over Golden Gate Canal, U. S. Highway 95, Canyon County; FAP No. S-3720(1).

Quantities: 340 c.y. excavation for structure; 280 c.y. mechanical tamping; 200 c.y. concrete class A; 27,500 lb. metal reinforcement; 100' pipe handrail. Completion December 1.

SANDPOINT BRIDGE APPROACHES — Base course and roadmix bituminous surfacing on 1.452 mi. Highway U. S. 95 and 0.322 mi. connection on approaches to Sandpoint Bridge, Bonner County; FAP No. F-5116(4) and Stockpile Proj. No. 160.

Quantities: 1,050 c.y. unclassified excavation; 6,000 ton select borrow class A; 6,830 ton crushed gravel base course, ¾" max. type A; 6,460 ton same type B; 1.221 mi. recondition existing roadbed class A; 0.553 mi. same class B; 15,060 gal. RC-1 asphaltic road material for prime coat; 240 ton blotter material class B; 228 ton MC-3 asphaltic road material for roadmix; 11,620 gal. MC-5 asphaltic road material for seal coat; 580 ton cover coat material; 128' combination concrete curb and gutter; 40 s.y. concrete side-

walks; 12,300' steel cable type guard rail. Completion August 1. DM 3-9

●STATE HIGHWAY PROJECTS— Boise, Idaho

Bids to be opened 2 p.m., March 27 by Idaho Department of Highways, E. V. Miller, state highway engineer, 603 Main St., Boise, for the following projects. Plans with highway department. $2 charge. Certified check, cashier's check or bid bond 5%.

IDAHO STOCKPILE PROJECT No. 132—Furnishing crushed gravel and cover coat material in stockpiles adjacent to Highway U. S. 95, 22 miles south of Marsing, in Owyhee County. Includes 15,000 tons crushed gravel in stockpiles, ⅜" maximum; 5,000 tons cover coat material, Class 4 in stockpile. Completion time June 15.

IDAHO STOCKPILE PROJECTS Nos. 131 AND 133—Furnishing crushed gravel and cover coat material in stockpiles near Gowen Field, Boise and near Mountain Home, in Ada and Elmore counties. Includes 15,000 tons crushed gravel in stockpiles, ⅜" maximum, at Site No. 1; 20,000 tons crushed gravel in stockpiles, ⅜" maximum, at Site No. 2; 5,000 tons cover coat material class 4 in stockpile at Site No. 1; 8,000 tons cover coat material Class 4 in stockpile at Site No. 2. Completion time June 15. WB 3-13

▲SEWAGE TREATMENT PLANT— Caldwell, Idaho

Bids received by City Council, City Hall, Caldwell, for a sewage treatment plant. Plans by Cornell, Howland, Hayes & Merryfield, consulting engineers, 222 Idaho Bldg., Boise. Bids were opened March 5. LOW BID: C. W. Watkins & Son, Box 1786, Boise, approximately $520,000. Three other firms submitted figures for the treatment plant, but all figures will vary according to the equipment chosen. DC 3-9. Previous report 2-29

▲SEWERS— Caldwell, Idaho

Bids received by City Council, City Hall, Caldwell, for construction of interceptor sewers. Plans by Cornell, Howland, Hayes & Merryfield, consulting engineers, 222 Idaho Bldg., Boise. Bids were opened March 5. LOW BIDS: Intermountain Co., 1322 Grove St., Boise, $207,923 (rubber ring joints); Quinn Bros. & Robbins, Boise, $259,123; Eagle Construction Co., Boise, $261,085. DM 3-9. Previous report 2-29

TRENCHER, PAINT LINER— Coeur d'Alene, Idaho

Purchase contemplated by city engineering department, Elmer E. Soniville, city engineer, City Hall, Coeur d'Alene, for one 500 gal., portable trencher; street paint liner and traffic controller. DM 3-14

SIDEWALKS, CURBS—Coeur d'Alene, Idaho
(Estimated cost $37,00)

Drawings in planning stage by Elmer E. Soniville, city engineer, City Hall, Coeur d'Alene, for sidewalks and curbs in the city. There will be approximately 10,000' of straight curb and 12,000' of 5' wide sidewalk.

★GRAVEL— Garden City, Idaho

Award to S. W. Knight, Garden City, $1.15 per cubic yard by Village Council, Irene Walters, clerk, 201 W. 33rd St., Garden City, for furnishing 2,500 of ¾" minus road gravel to be stockpiled within Garden City corporate limits. MG 3-10. Previous report 2-21

●CORE DRILLING— Idaho Falls, Idaho

Bids to be opened 2 p.m., March 20, by E. B. Steele Co., contractor, Bldg. 613, National Reactor Testing Station, Idaho Falls, Idaho, for core drilling proposed quarry sites in the ANP Area, National Reactor Testing Station, west of Idaho Falls, Idaho; No. AT(10-1)-7. Certified check or cashier's check 10%. Bids to be mailed to and specifications may be obtained from E. B. Steele Co., C. K. MacHarg, Box 394, Arco.

Quantities include 1,120' core drilling limestone quarry site; 50' core drilling limestone; 150' core drilling basalt quarry site; 200' reaming and casing holes; 300' cementing and redrilling holes. MG 3-10. Previous report 3-1

RESERVOIR ROOF— Lewiston, Idaho

Award rescinded by City Council, Lewiston, for construction of a cover for the high reservoir at 16th Ave. and 29th St., Lewiston. The council at a recent meeting voted to reject the bids submitted on February 20. New bids will be called on more detailed plans and specifications. Previously, the council had voted an award to Kenaston & Huntley, Box 144, Lewiston, $49,295, using timber trusses with corrugated metal and concrete footings and columns. DC 3-10. Previous report 3-2

SEWER— Marsing, Idaho

A $93,000 bond election will be held March 13 for construction of a sewer system in the village of Marsing. GC 3-10

●CONCRETE SIDEWALKS— Mountain Home AFB., Idaho

Bids to be opened 2 p.m., April 5, by Corps of Engineers, Walla Walla District, Colonel Myron E. Page, Jr., district engineer, Bldg. 602, City-County Airport, Walla Walla, for construction of concrete sidewalks, Mountain Home AFB., Idaho; ENG-45-164-56-34. Completion time 120 calendar days.

Quantities include 9,500 sq. yd. sidewalk; 1,250' of 12c culvert; 5 railroad crossing. MG 3-10. Previous report 3-3

WATER TANK— Shelley, Idaho
(Estimated $150,000)

Plans will be completed soon by David E. Benton, consulting engineer, 1045 Syringa Drive, Idaho Falls, for water system extensions for the city of Shelley. Bids will be called this spring or early summer. Project involves construction of elevator water tank, 250,000 gal. capacity, 100' tower; 16 blocks of 8" water pipe; 6 blocks of 6" pipe; work on pumps; miscellaneous equipment. DM 3-14

▲SEWER PIPE— Weiser, Idaho

Bids announced by City Council, J. J. Servatius, city purchasing agent, City Hall, Weiser, for furnishing 1,710' of combined 6", 10", 15", 18" bell and spigot, standard non-reinforced concrete sewer pipe. BIDDERS: Armco Drainage & Metal Products, Caldwell, $2,012; Idaho Concrete Pipe Co., Nampa, $2,146. Bids were opened March 2. GW 3-14. Previous report 3-3

MONTANA

●GRAVELING— Billings, Mont.

Bids to be opened March 23 by U. S. Indian Service, P. J. Van Alstyne, area road engineer, 802 N. 29th, Billings, for furnishing and applying 11,000 c.y. of gravel on 7½ miles of the Box Elder Creek road on the Rocky Indian Reservation. The Bureau will do the grading and shaping of the road. Bids were to have been opened March 1. EE-M 3-10. Previous report 2-15

▲NATIONAL GUARD INSTALLATION— Gore Field, Mont.

Bids received by Montana Air National Guard, Major General S. H. Mitchell, state adjutant general for the National Guard, for construction work at 186th Fighter Interceptor Squadron at Gore Field. LOW BID: Nilson-Smith Construction Co., 800 2nd S., Great Falls, $4,219, for entrance road reconstruction, $5,470 for aircraft washing rack. The award will be made by chief of the National Guard Bureau in Washington, D. C. DC 3-10

★SEWERS— Great Falls, Mont.

Awards made on four schedules, bids rejected on two schedules by City Council, City Hall, Great Falls, for sanitary sewers and storm drains on which bids were opened February 23. AWARDS — SCHEDULE A, Sanitary Sewers: Utility Builders, Inc., and McLaughlin, Inc., Ford Bldg., Great Falls, $282,080; SCHEDULE A, Storm Drains, Utility and McLaughlin, $45,994; SCHEDULE C, Storm Drains—Dudley Construction Co., 1001 9th Ave. N., Great Falls, $266,362, using concrete pipe; SCHEDULE E, Storm Drains—Falls Construction Co., 611 28th, Great Falls, $126,245, using concrete pipe; SCHEDULE F, Storm Drains—Robertson & Cave, Inc., [illegible] Ave. N.W. and River St., Great Falls, $65[illegible] 429, using concrete pipe.

Schedules B and D for sanitary sewers and storm drains respectively will be readvertised. Robertson and Cave were low on these schedules but they stipulated that they would accept B and D, or B or D, but if awarded F could not accept the other two schedules. DC 3-10. Previous report 3-1

●SEWERS— Great Falls, Mont.

Bids to be opened 8 p.m., March 26, by City Council, Fred Hill, clerk, City Hall, Great Falls, for construction of sanitary sewers and storm drains. Plans and specifications with city clerk, Great Falls, and with Harold Hoskins & Associates, engineers, 1540 3rd Ave. N.W., Great Falls, or at 16[illegible] Que St., Lincoln, Neb. $10 deposit. Certified check 10%.

Quantities: 2,900' of 10" sanitary sewer, 13,000' of 15" to 36" inclucive, storm drains, manholes, inlets, junction boxes, incidental construction.

Bids on the above items were included among the project on which proposals were opened in February. Awards were made on all schedules except B and D on which schedules the low bidders stipulated that they would accept B and D, or B or D, but if awarded F could not accept the other two schedules. DM 3-[illegible]

★STREET SWEEPER— Helena, Mont.

Award to Western Construction Equipment Co., 801 Mount Ave., Missoula, $8,400, by City Council, Henry Rolfes, city manager, City Hall, Helena, for a street sweeper with roller broom. GC 3-10. Previous report 1-2[illegible]

WYOMING

★WATER STORAGE RESERVOIR— Casper, Wyo.

Bids opened by Board of Public Utilities, room 126, City-County Bldg., Casper, for construction of a 750,000-gal. steel water storage reservoir for the Garden Creek high level service extension. Plans by Robert L. Streeter, consulting engineer, Box 2010, Casper. Bids on the steel storage tank were higher than anticipated and may be rejected, in which case bids would then be called on a smaller tank. LOW BID: Hammond Iron Works, Casper, $36,248. Bids were opened March 5. DC 3-13. Previous report 3-1

●CRANE— Glendo, Wyo.

Bid closing extended from March 13 to 2 p.m., March 20, by Bureau of Reclamation, L. N. McClellan, chief engineer, Bldg. 53, Denver Federal Center, Denver, Colo., for a 100-ton traveling crane for Glendo Power Plant, Oregon Trail Division, Glendo unit, Wyoming, Missouri River Basin Project; Inv. No. 4606.

Furnish 100-ton single trolley motor operated traveling crane, delivery fob. cars at shipping point or fob. cars at Glendo Power Plant. MG 3-14. Previous report 2-1[illegible]

▲WATER LINE— Jackson, Wyo.

Bids received by Town Council, C. C. Cummins, town clerk, Town Hall, Jackson, for installation of new water supply line in Jackson. LOW BIDS: Baker Plumbing and Heating Co., 223 S. Lowell, Casper, $25,27[illegible] L. H. Poulsen, 214 N. 2nd E., Brigham City, $25,689; Don Vandeburg, Jackson, $28,70[illegible] Bids were opened March 7 in Jackson. MG 3-10. Previous report 1-[illegible]

●EARTHWORK, STRUCTURES— Worland, Wyo.

Bids to be opened April 25 by Bureau of Reclamation, L. N. McClellan, chief engineer, Bldg. 53, Denver Federal Center, Denver, Colo., for earthwork and structures for Main Canal No. 1 and Lateral, Main Canal No. 2 and Laterals, and Bluff Laterals No. [illegible] and No. 2, Missouri River Basin Project, near Worland, Wyo.; DC-4661. Completion time 350 days.

Principal items are 466,000 c.y. excavation; 11,300' of 18" to 60" concrete pressure and culvert pipe; 11,400 c.y. concrete in structures.
MG 3-14

UTAH

●MOTOR CONTROL ASSEMBLIES— Bountiful, Utah

Bids to be opened 2 p.m., April 17, by Bureau of Reclamation, L. N. McClellan, chief engineer, Bldg. 53, Denver Federal Center, Denver, Colo., for furnishing and delivering fob. cars at Bountiful, Utah, two, 2,500-volt, metal-enclosed, indoor type motor control equipment assemblies for East Bountiful and South Davis Pumping Plants, Davis Aqueduct, Weber Basin Project, Utah; DS-4657. Delivery time 240 calendar days.
MG 3-10

CURB, GUTTER, SIDEWALKS— Kaysville, Utah

(Estimated cost $115,000)

Consulting engineers, Caldwell, Richards & Sorensen, Zions Saving Bank Bldg., Salt Lake City, have been retained by City Council, Kaysville, to prepare plans for curbs, gutters and sidewalks on the east side of the city.
GH 3-14

■WATER MAIN— Layton, Utah

Planholders announced for the laying of 7,000' of 12" water main from Gordon Ave., to Layton Reservoir, Layton. Bids to be opened 8 p.m., March 19, by City Council, John Park, city recorder, City Hall, Layton. Plans by engineers, Templeton & Linke, consulting engineers, Dooly Bldg., Salt Lake City.

Planholders: Hilton & Carr Construction Co., 922 12th St., Ogden; Tiago Construction Co., 3399 S. 2nd W., Salt Lake City; Wright Engineering and Construction Corp., 51 E. 3900 S. Salt Lake City; L. H. Poulsen, 214 N. 2nd E., Brigham City; Joe Glines, 1150 Beck St., Salt Lake City.
GH-G 3-13. Previous report 3-7

★SEWERS— Ogden, Utah

Award to Wheelwright Construction Co., 2300 E. Avenue, Ogden, $821,790, by Central Weber Sewer Improvement District, R. S. Starley, secretary, City Hall, Ogden, for outfall and relief sewers. Bids were opened February 15 and held under advisement.
MG 3-10. Previous report 2-21

●STATE HIGHWAY PROJECT— Salt Lake City, Utah

Bids to be opened 2 p.m., March 20, by Utah State Road Commission, E. G. Johnson, chief engineer, State Capitol, Salt Lake City, on stockpiling. Plans with commission office in Salt Lake City and with district engineer at Ogden. $2 deposit. Certified check, cashier's check or bid bond 5%.

STOCKPILE PROJECT: Approximately 10,000 ton of gravel surface type B stockpiled; 2,000 ton gravel surface, ½" maximum stockpiled; 1,200 ton cover material type B stockpiled; at Smithfield and Logan in Cache County; State Project No. 1564.
DC 3-13

ALASKA

●WATER WELLS— Anchorage, Alaska

Bids to be opened 2 p.m., A.S.T., April 5 by the city manager, City Hall, Anchorage for constructing, drilling, casing, developing, testing and sampling three deep wells including the alternate drilling and testing of pilot wells to determine feasibility of completing the final well at that location. Specifications with George O. Matkin, city engineer, 221 B St., Anchorage. $25 deposit. Certified check or bid bond 10%.
DM 3-10

★SITE DEVELOPMENT— College, Alaska

Award to S. S. Mullen, Inc., 621 9th Ave. N., Seattle, $231,410, under Schedule A, by Alaska Public Works, James W. Huston, director, 213 W. 3rd, Juneau, for site improvements at University of Alaska in College. Award for Schedule B will be made by the Alaska Road Commission.
DC 3-10. Previous report 2-3

●SEWERAGE SYSTEM— Fairbanks, Alaska

Bids to be opened 11 a.m., April 10, by the city manager, City Hall, Fairbanks, for extension of the city sewerage system. Specifications with city manager. $25 deposit.

Quantities: 16,000 c.y. excavation; 17,000' of 8" wood stave pipe with alternate of concrete pipe, rubber gasket joints; 54 manholes of wood stav or concrete block; lift station. Completion time 165 days.
DC 3-14

●MILITARY FACILITY— Fort Richardson, Alaska

Bids to be opened 11 a.m., April 13 by Corps of Engineers, Alaska District, Colonel Carl Y. Farrell, district engineer, Bldg. D-E., Anchorage, for improvements to central heating and power plant. Schedule A: Coal handling equipment, completion time July 1, 1957. Schedule B: Security fencing, completion time September 30, 1956. Schedule C: Steam generator accessory equipment, completion time July 1, 1957; construction of railroad spurs and loading dock, completion time October 1, 1956. All work at Fort Richardson; ENG-95-507-56-32. Bid bond 20%.
MG 3-13

▲DOUGLAS FIR— Juneau, Alaska

Low bids received March 9 by Irving Reed Territorial Highway Engineer, Box 2073, Juneau, for common douglas fir, to be pressure treated with No. 1, coal tar creosote. LOW BIDS: West Coast Wood Preserving Co., 1118 4th Ave., Seattle, $1,186; J. H. Baxter Co., Pittock Block, Portland, $1,190.
JU-G 3-13. Previous report 2-24

●REPAIRING, RESURFACING PARKING APRON Ladd AFB., Alaska

Bid closing extended from March 22 to 11 a.m., April 12, by Corps of Engineers, Alaska District, Seattle Branch Office, 4735 E. Marginal Way, Seattle, for repairing and resurfacing aircraft parking apron at Ladd AFB; ENG-95-507-56-35. Bid bond 20%. Completion time, November 1, 1956.
MG 3-13. Previous report 3-9

★TELEPHONE LINE— Palmer, Alaska

Contract has been awarded on the central office and bids returned unopened on outside construction for Matanuska Telephone Association, Inc., Robert D. Partridge, manager, Severn Bldg., Palmer. Bids were opened February 29. Award on central office was made to Kellogg Construction, $58,542. Only other bidder was Stromberg Carlson, $65,627. Bids on outside construction were returned unopened as only two proposals were received. Re-bids will be called April 4.

The bid call involved approximately 250 miles of telephone line and facilities.
DM 3-14. Previous report 2-21

■RAILROAD YARD— Seward, Alaska

Planholders announced for the construction or reconstruction of railroad yard at Seward. Bids to be opened 2 p.m., A.S.T., March 29, by Alaska Railroad, in the office of Irvin P. Cook, chief engineer, Anchorage. Specifications with chief engineer, Anchorage, or A. R. Sessions, representative of the general manager, room 225 Federal Office Bldg., 909 1st Ave., Seattle. $25 deposit.

Planholders: L. A. Albergi Construction Co., 6922 W. Armitage Ave., Chicago, Ill.; Stolte, Inc., Box 2130, Seattle, Wash; Northern Enterprises, Inc., 12556 Bothell Way, Seattle, Wash.; Butler Construction and Engineering Co., 3419 13th Ave. S.W., Seattle, Wash.; Brown & Root, Inc., Box 3, Houston, Texas; William A. Smith Contracting Co., 1401 Fairfax Trafficway, Kansas City, Kansas; Guy F. Atkinson Co., 101 W. Orange, San Francisco, Calif.; B & B, Inc., General Contractors, Fairbanks; S. Birch & Sons Construction Co., Inc., 208 Central Bldg., Seattle, Wash.; DeBartolo Construction Co., Youngstown, Ohio; George E. Detzel Co., Cincinnati, Ohio; Thomas L. Finnegan & Co., Sterling, Ill.; Peter Kiewit Sons' Co., 1300 Aloha, Seattle, Wash.; Kuckenberg Construction Co., Anchorage; Morrison-Knudsen Co., Inc., Box 320, Anchorage; Natt McDougall Co., Pittock Block, Portland, Ore.; McLaughlin, Inc., Box 1824, Great Falls, Mont.; The O'Neil Construction Co., Masonic Temple Bldg., Havre, Mont.; Scheumann & Johnson, 1011 Lloyd Bldg., Seattle, Wash.; The Utah Construction Co., 100 Bush St., San Francisco, Calif.
GW 3-14. Previous report 3-1

CONTRACT AWARDS ANNOUNCED RECENTLY

OREGON

Beaverton — GRADING. John L. Jersey, Portland, $32,767, by Oregon Province of Jesuit Fathers, Portland. PCD 3-13

Celilo—PRE-CUT HOUSES. B & W Construction Co., The Dalles, $28,812, by Bureau of Indian Affairs, Portland. PCD 3-8

Hermiston—CARPENTERS' BUILDING. Wallace Green, Hermiston, $28,797, by Carpenters' Union, Hermiston. PCD 3-7

Hermiston — SAFEWAY STORE. Fred W. Carter Co., Portland, by Safeway Stores, Inc., Portland. PCD 3-8

Hines—SCHOOL ADDITION. Bechtel Bros., La Grande, $122,900, by Harney County School District No. 30, Hines. PCD 3-6

Klamath Falls—ARMORY. Donald M. Drake Co., Portland, $195,200, by Oregon National Guard, Salem. PCD 3-7

McMinnville—CRUSHED ROCK. C. C. Meisel, McMinnville, $52,250, by Yamhill County Court, McMinnville. PCD 3-7

Medford—HOSPITAL. Gates City Steel Co., Boise, $99,200, by Medford Hospital Association for steel framework. PCD 3-10

Portland—MEDICAL BUILDING. A. V. Petersen, Portland, by R. W. Marcum, Portland. PCD 3-10

Portland—GAS PIPELINE. Pipe Lines, Inc., Portland, $416,118, by Portland Gas and Coke Co., Portland. PCD 3-10

Portland — REMODEL BUILDING. A. C. Schommer, Portland, $12,990, by Multnomah County Commissioners, Portland. PCD 3-10

Portland—ROAD CONSTRUCTION. Ray V. Hutton, Portland, $39,877, by Multnomah County Commissioners, Portland. PCD 3-6

Portland—STATE HIGHWAY PROJECTS— Riddle: Warren Northwest, Inc., Portland, $13,370. **Haines Section:** Babler Bros., Inc., 4617 S.E. Milwaukie, Portland, $51,147, by Oregon State Highway Commission, Salem. PCD 3-10

Portland—PAVING, SHOULDERS. Warren Northwest, Inc., Portland, $84,750, by Multnomah County Commissioners, Portland. PCD 3-6

Portland—STATE HIGHWAY PROJECTS— Power Highway Surfacing: Martin Kincheloe, Myrtle Point, $44,559. **Road Illumination:** J. J. Walton, Salem, $16,188. **Medford Paving:** J. C. Compton, McMinnville, $6,074. **Pacific Highway Illumination:** J. J. Walton, Salem, $48,512. **Mill City Paving:** Warren Northwest, Portland, $8,055. **Folly Farm Rock Production:** N. A. Toole, Ontario, $22,200. **Old Ferry Structure:** J. W. Wise & Son, Boise, $88,744. **Rooster Bay Interchange:** Inland Con-

struction Co., Milwaukie, $231,043. **Amity Paving:** Warren Northwest, Portland, $4,913. **Salmon River Structures:** Hamilton & Thoms, Eugene, $207,605. By Oregon State Highway Commission, Portland. PCD 3-6

WASHINGTON

Ephrata—SCHOOL. Allied Construction Co., Ephrata, $144,536 by School District No. 165, Ephrata. PCD 3-10

Renton—BANK. B. F. Turnbull, Seattle, by Seattle First National Bank. PCD 3-10

Salkum, Mossy Rock—TELEPHONE BUILDINGS. Leslie Crawford, Onalaska, $10,457, by McDaniels Telephone Co., Salkum. PCD 3-10

Seattle—GRADING, SURFACING, SEWERS, WATER MAINS. A. Jakaboni, Seattle, $51,052, by Board of Public Works, Seattle. PCD 3-10

Spanaway—CHURCH. G. Kirkebo & Sons, Tacoma, $203,645, by Queen of Heaven Parish, Spanaway. PCD 3-7

Spokane — SCHOOL ADDITIONS. Selkirk Construction Co., Spokane, $221,483, by School District No. 81, Spokane. PCD 3-10

Spokane—COMMERCIAL BUILDING. Smith & Roberts, Spokane, $37,467, by Washington Auto Carriage Works, Inc., Spokane. PCD 3-10

Tacoma — CEMENT CONCRETE PAVING, WATER MAINS. George Madsen Co., Tacoma, $30,462 by Board of Contracts and Awards, Tacoma. PCD 3-13

Tacoma—STREET IMPROVEMENTS. Kendall Construction Co., Tacoma, $16,811 by Board of Contracts and Awards, Tacoma. PCD 3-13

Tracyton—SCHOOL ADDITION. Commercial Builders, Bremerton, $76,985, by Central Kitsap School District No. 401, Silverdale. PCD 3-10

IDAHO

Minidoka — POWER PLANT EQUIPMENT. Berry Engineering Co., Long Beach, Miss., $24,300 (schedule 1), by Bureau of Reclamation, Denver, Colo. PCD 3-9

Moscow—CATHOLIC SCHOOL. C. B. Lauch Construction Co., Boise, $148,194, by Catholic School, Moscow. PCD 3-7

Pocatello—WATER PIPE. Pacific States Cast Iron Pipe Co., Provo, Utah, $14,394, by City Council, Pocatello. PCD 3-7

MONTANA

Billings — PLANTMIX. Long Construction Co., Billings, $20,400, by City Council, Billings. PCD 3-6

Billings—SWIMMING POOL. Frates Construction Co., Billings, $21,753, by Billings Park Commission, Billings. PCD 3-3

Billings—WATER PIPE. Sparboe Construction Co., Billings, $11,626 by Yellowstone County Commissioners, Billings. PCD 3-2

Great Falls — SEWERS. Utility and McLaughlin, Great Falls, $282,080 (Sched. A), $45,994 (Sched. A Sub).; Dudley Construction Co., Great Falls, $266,362 (Sched C); Falls Construction Co., Great Falls, $126,245 (Sched. E); Robertson & Cave, Great Falls, $654,429 (Sched. F). Awards by City Council, Great Falls. PCD 3-10

Great Falls—MILITARY BUILDING. Sletten Construction, Great Falls, $137,122, by Corps of Engineers, Walla Walla District, Walla Walla. PCD 3-7

Helena—STORM SEWERS. McLaughlin, Inc., and Utility Builders, Inc., Great Falls, $43,243 by Montana State Highway Commission, Helena. PCD 3-2

Libby—SCHOOL ADDITION Montana Builders, Kalispell, $76,592 by School District No. 4, Libby. PCD 3-

WYOMING

Casper — PETROLEUM BUILDING, Ringstad-Olsen Construction Co., Casper, $[illegible]830, by Fred Goldstein, Casper. PCD 3-

Glendo—COMPRESSORS. Worthington Corp., Harrison, N. J., $10,236 (schedule and 2), by Bureau of Reclamation, Denver Colo. PCD 3-

Lingle — TRANSFORMER. American Corp., New York, $53,300, by Bureau of Reclamation, Denver, Colo. PCD 3-

UTAH

Ogden—SEWERS. Wheelwright Construction Co., Ogden, $821,790, by Central Weber Sewer Improvement District, Ogden. PCD 3-

Ogden—ACCESS ROAD. Dudley, Jensen & Johnson, Moab, $116,500, by BPR, Ogden. PCD 3-

Salt Lake City—ARMORY. Jensen Construction Co., Salt Lake City, $318,809, by Utah State Building Board, Salt Lake City. PCD 3-

ALASKA

College — SITE DEVELOPMENT. Schedule A: S. S. Mullen, Inc., Seattle, $231,418, by Alaska Public Works, Juneau. PCD 3-

Palmer—UTILITY BUILDING — Irving Lassier & Associates, Palmer, $32,877 for Alaska Agricultural Experiment Station, Palmer. PCD 3-

Whittier—SCHOOL ADDITION. George Morrison Co., Inc., Anchorage, $270,000, by Housing and Home Finance, Juneau. PCD 3-

Advertisements for Bids

Advertisements reaching us not later than Wednesday noon will appear the same week.

THE RATE for Advertisements for Bids is 35 cents per line for the first insertion; 25 cents per line for each insertion thereafter.

MAPLE STREET BRIDGE

BIDS CLOSE 10 A. M., APRIL 17

Olympia, Washington

NOTICE TO CONTRACTORS

Sealed bids will be received by the Director of Highways of the State of Washington at the Transportation Building, Olympia, Washington, until 10:00 A. M., Tuesday, April 17, 1956, for the construction of the substructure and superstructure of the Maple Street Bridge across the Spokane River in the City of Spokane, Spokane County, Washington, and will then and there be opened and publicly read. Bids received after the time fixed above for opening will not be considered.

This improvement consists of the following elements:

1. **Substructure:** Constructing 20 reinforced concrete bridge piers and abutments.
2. **Superstructure:** Constructing 1,713 linear feet of steel plate girder deck spans and 377 linear feet of welded steel beam deck spans.
3. The principal approximate quantities involved are:

Substructure Alternate A	
Demolition	Lump Sum
Structure Excavation, Below Elevation 1,735	2,050 Cu. Yds.
Structure Excavation, Above Elevation 1,735	5,800 Cu. Yds.
Furnishing Steel Piling	18,130 Lin. Ft.
Driving Steel Piles	314 Only
Pile Loading Tests	4 Only
Class "D" Concrete	1,350 Cu. Yds.
Class "B" Concrete	7,200 Cu. Yds.
Steel Reinforcing Bars in Place	1,110,000 Lbs.
Shoring and Cribs	Lump Sum
Furnishing and Placing Anchor Bolts	18,500 Lbs.
Loose Riprap in Place	1,150 Cu. Yds.
Curbs, Sidewalks, Etc.	Lump Sum
Reinforced Concrete Culvert Pipe 12" Diameter, in Place	382 Lin. Ft.
Reinforced Concrete Culvert Pipe 15" Diameter, in Place	1,172 Lin. Ft.
Reinforced Concrete Culvert Pipe 18" Diameter, in Place	251 Lin. Ft.
Manholes in Place	14 Only
Downspouts and Connections in Place	Lump Sum
Steel Pile Splices	30 Only
Substructure Alternate B:	
Demolition	Lump Sum
Structure Excavation, Below Elevation 1,735	2,050 Cu. Yds.
Structure Excavation, Above Elevation 1,735	5,500 Cu. Yds.
Furnishing Cast-in-place Concrete Piling	21,980 Lin. Ft.
Driving Cast-in-place Concrete Piles	381 Only
Pile Loading Tests	4 Only
Class "D" Concrete in Place	1,350 Cu. Yds.
Class "B" Concrete in Place	6,990 Cu. Yds.
Steel Reinforcing Bars in Place	1,110,000 Lbs.
Shoring and Cribs	Lump Sum
Furnishing and Placing Anchor Bolts	18,500 Lbs.
Loose Riprap in Place	1,150 Cu. Yds.
Curbs, Sidewalks, Etc.	Lump Sum
Reinforced Concrete Culvert Pipe 12" Diameter, in Place	382 Lin. Ft.
Reinforced Concrete Culvert Pipe 15" Diameter, in Place	1,172 Lin. Ft.
Reinforced Concrete Culvert Pipe 18" Diameter, in Place	251 Lin. Ft.
Manholes in Place	14 Only
Downspouts and Connections in Place	Lump Sum
Superstructure:	
Structural Steel in Place	4,405,000 Lbs.
Steel Reinforcing Bars in Place	550,000 Lbs.
Lightweight Concrete in Place	3,110 Cu. Yds.
Handrail in Place	4,195 Lin. Ft.
Bridge Drains, Complete in Place	20 Only
Portland Cement	300 Bbls.
Maintenance Traveler and Rails	Lump Sum

The foregoing quantities are approximate only, being given as a basis for the comparison of bids, and the State does not expressly or by implication, agree that the actual amount of work will correspond therewith, but reserves the right to increase or decrease the amount of any class or portion of the work, or to omit portions of the work, as may be deemed necessary or expedient by the Engineer.

Bids may be submitted under any one of the three following conditions:

1. A bid on the substructure only. There are two alternates on the substructure, namely, "Alternate A" and "Alternate B," and the bidder shall bid on only one of the alternates. Essentially "Alternate A" provides for the use of steel H piles for pile footings whereas "Alternate B" provides for the use of cast-in-place concrete piles for pile footings.
2. A bid on the superstructure only.
3. A combined bid on the substructure, conditioned above under No. 1, and the superstructure.

Proposals are available for each of the three conditions. Submission of a bid on any of the three conditions will be acceptable in no other manner than on the proposal form that will be furnished for the purpose.

A price shall be submitted on each of every item for the portions of work upon which a bid is submitted, and any omission of prices on items within these portions will

render the proposal informal and be cause for its rejection.

The Department of Highways will allow combined bids on an "all-or-none" basis and may make such a combined award as will be in the public interest and for the best interests of the State. In the event a combined award is made, the time of completion of the superstructure shall control and the liquidated damages shall be $700 per day for the combined contract.

All bid proposals shall be accompanied by a bid proposal deposit in cash, certified check, cashier's check or surety bond in an amount equal to five per cent (5%) of the amount of such bid proposal. Should the successful bidder fail to enter into such contract and furnish satisfactory performance bond within the time stated in the specifications, the bid proposal deposit shall be forfeited to the State of Washington.

Prequalification of bidders is required. Maps, plans and specifications may be obtained from this office upon written request therefor and payment to the Director of Highways by cash, certified check, cashier's check or money order in the sum of two dollars ($2.00) for each copy of such maps, plans and specifications as a rental for the use of them. Plans will be forwarded by First Class Mail.

Informational copies of maps, plans and specifications are on file in the office of the City Engineer in the City of Spokane, the chapter offices of the Associated General Contractors of America in Seattle, Spokane, Tacoma and Portland and the offices of the District Engineers of the Department of Highways where they may be inspected.

E. C. HUNTLEY, Chairman
W. A. BUGGE, Director of Highways

5403—3-17, 24, 31; 4-7

STATE HIGHWAY PROJECTS

BIDS CLOSE 9:30 A.M., MARCH 28

Helena, Montana

NOTICE TO CONTRACTORS

Sealed bids on the following projects will be received by the Montana Highway Commission at the offices of said Commission in the City of Helena until 9:30 A. M. on March 28, 1956. The proposals will be publicly opened and read immediately thereafter.

F 60(12), F-IN 117(11) & F 117(12) Seal coat oiling of 1.716 miles on the Livingston-Wilsall Road in Park County, and partial grading, gravel surfacing, plant mix oiling and drain 15.727 miles on the Livingston-Big Timber Road in Park and Sweet Grass County, involving about 9,573 cu. yds. excavation; 240 cu. yds. boulder backfill; 33,998 tons plant mix; 67,238 gal. liquid asphalt 5,475 Lin. Ft. Steel Guard Rail; 42 Lin. Ft. Reinforced Concrete Pipe Culverts; 4,450.7 Lin. Ft. special concrete curb; 1,048.7 sq. yds. concrete structures to be removed, and other items. Project to be completed by September 15, 1956.

F 64(9) U2, F 148(6) U2 & F 155(7) U2, F 211(11) U2 and F-220(6) U2 Seal Coat Oiling of 39.080 Miles on Various Roads.

This project involves about 7,565 tons hauling and placing cover course; 161,834 gals. liquid asphalt; 10,108 gals. emulsified asphalt; 235 hours watering; 295 Units Rolling; and other items. Project to be completed by September 15, 1956.

F 69(10) U2 & F 248(11) U2, F 264(5) U2, S 120 (6) U2 & S 170(1) U3, S-SG 169(1) U4. Seal Coat Oiling of 23.261 Miles on Various Roads.

This project involves about 4,250 tons hauling and placing cover course; 96,350 Gals. emulsified asphalt; 179 gals liquid asphalt; 132 hours watering; 166 Units rolling; and other items. Project to be completed by September 15, 1956.

F 186(4) Grading, gravel surfacing, bituminous surface treatment and drain 3.632 miles on the Perma Southeast Section of the Paradise East Road in Sanders County, involving about 240,500 cu. yds. excavation; 132 cu. yds. gravel backfill; 19,913 mi. yds. overhaul; 29,357 tons crushed material; 44,279 tons uncrushed selected borrow base course; 25,357 gals. liquid asphalt; 25,357 gals. emulsified asphalt; 5,070 M gals. Watering; 813 Units rolling; 2,070 Lin. Ft. Reinforced Concrete Pipe Culvert; and other items. Project to be completed in 280 calendar days.

F-FG 384(3) The construction of an 825.0' steel and concrete bridge and overpass on the Forsyth Northwest Road over the Yellowstone River in Rosebud County, involving about 156,269 lbs. reinforcing steel; L Sum structural steel; 2,750.9 cu. yds. concrete; 1,643.76 steel bridge rail; 86,100 furnishing steel bearing piles; 1,741 Lin. Ft. driving steel bearing piles; 28 each floor drains; 3,545 cu. yds. structure excavation; 2,200 cu. yds. unclassified excavation, and other items. Project to be completed by November 30,1957.

S 19(1) Grading, gravel surfacing, bituminous surface treatment and drain 7.340 miles of the Lewistown-Forestgrove Road in Fergus county; involving about 253,055 cu. yds. excavation; 38,141 Mi. Yds. overhaul; 296 cu. yds. gravel backfill; 120,434 tons crushed gravel; 639,269 ton mi. haul on type "A" top course and selected borrow base course; 2,440 M gal. watering; 1,200 units rolling; 43,661 gals. liquid asphalt; 43,661 gals. emulsified asphalt; 46,203 Lin. Ft. reinforced concrete pipe culverts; 139 lin. ft. corrugated metal pipe culverts; and other items. Project to be completed in 240 calendar days.

S 40(2) The construction of two 50' treated timber pile bridges over the East Gallatin River on the Belgrade-Menard Road in Gallatin County, involving about 1,088 lbs. structural steel, 44.858 MBM treated timber; 1.556 MBM untreated timber; 835 cu. yds. unclassified excavation; 1,820' treated timber and other items. Project to be completed by September 30, 1956.

S 131(2) Grading, gravel surfacing, plant mix oiling and drain 7.962 miles on the Brady-East Road in Pondera County, involving about 9,622 cu. yds. excavation; 82.021 tons crushed gravel, 200,887 gals. liquid asphalt; 1,820 M. gal. watering; 783 units rolling; 484 Lin. Ft. corrugated metal pipe culverts; 305 hours blading work; 76 hours scraping work, and other items. Project to be completed by September 15, 1956.

S-SG 156(2) Furnishing and placing of new steel guard rail; pre-mix bituminous curb; bituminous surfacing for approaches; and drain 0.365 miles on the Nissler South and West Road in Silver Bow County, involving about 3,424 cu. yds. excavation; 5.0 cu. yds. concrete; 24 hours bulldozer work; 190 cu. yds. random riprap, 195 Lin. Ft. structural plate pipe arch culverts; 4,650 Lin. Ft. steel guard rail; 3,165.9 Lin. Ft. premix bituminous curb; and other items. Project to be completed by August 31, 1956.

S 172(1) Grading, gravel surfacing, bituminous surface treatment, and drain 2.896 miles on the Black Otter Trail North of Billings Road in Yellowstone County, involving about 117,743 cu. yds. excavation; 17,010 Mi. Yds. Overhaul; 25,754 tons selected borrow base course; 11,406 tons crushed gravel; 19,631 gals. liquid asphalt; 19,631 gals. emulsified asphalt; 2,505 M. Gal. watering, 415 Units rolling; 840 lin. ft. reinforced concrete pipe culverts; 887.5 Lin. Ft. steel guard rail; 1,940 lin. ft. concrete curb; and other items. Project to be completed by September 15, 1956.

S 186(4) Grading, gravel surfacing, drain and one 25' treated timber pile bridge 4.830 miles on the Wilsall Northeast Section of the Wilsall Northeast Road in Park County, involving about 181,503 cu. yds. excavation; 71,618 Mi. yds. overhaul; 29,348 tons top course surfacing; 2,575 M. Gal. watering; 634 Cu. Yds. binder; 1,268 overhaul on binder; 1,360 Lin. Ft. reinforced concrete pipe culverts; 812 Lin. Ft. corrugated metal pipe culverts; 135 cu. yds. gravel backfill; 13.202 MBM treated timber; 0.424 MBM untreated timber; 380' treated timber piles; and other Items. Project to be completed in 135 calendar days.

S 191(1) Grading, gravel surfacing and drain 9.864 miles on the Jordan-Haxby Road in Garfield County, involving about 186,576 cu. yds. excavation; 282 cu. yds. gravel backfill; 2,279 Mi. Yds. overhaul; 36,094 cu. yds. top course; 3,490 M Gal. watering; 650 units rolling; 1,608 Lin. Ft. corrugated metal pipe culverts; 222 Lin. Ft. structural plate pipe culverts; and other items. Project to be completed in 140 calendar days.

S 200(3) Grading, gravel surface, bituminous surface treatment and drain 10.657 miles on the Froid-West Road in Roosevelt County, involving about 254,195 cu. yds. excavation; 34,064 Mi. Yds. overhaul; 31,717 tons crushed gravel; 55,918 gals. liquid asphalt; 55,977 gals, emulsified asphalt; 1,165 units rolling; 6,795 M Gal. watering; 3,164 Lin. Ft. corrugated metal pipe culverts; 440 lin. ft. structural plate pipe culverts; 516 cu. yds. gravel backfill; and other items. Project to be completed in 250 calendar days.

S 201(1)U1 Grading, gravel surfacing, bituminous surface treatment and drain 6.195 miles on the Mildred-Fallon Road in Prairie County, involving about 157,779 cu. yds. excavation; 25 cu. yds. gravel backfill; 34,320 mi. yds. overhaul; 53,970 tons selected borrow base course; 21,006 tons crushed gravel; 37,108 gals. liquid asphalt; 37,108 gals. emulsified asphalt, 3,860 M gal. watering; 705 units rolling; 942 lin. ft. corrugated metal pipe; 172 lin. ft. reinforced concrete pipe and other items. Project to be completed by September 15, 1956.

S 201(1) U2 Construction of one 63' treated timber pile bridge across Plum Creek on the Mildred-Fallon Road in Prairie County, involving about 24.910 MBM treated timber; 0.961 MBM untreated timber; 1,140' treated timber piles. Project to be completed by August 31, 1956.

The above listed quantities are approximate only.

All bid proposals shall be accompanied by a certified or cashier's check, cash, postal money order, bank money order, or bid bond in the amount of at least 5% of the bid. Should the successful bidder fail to enter into his contract and furnish a satisfactory performance bond within the time stated in his proposal, the bid deposit shall be forfeited to the State Highway Commission of Montana.

Prequalification of bidders at least 72 hours prior to the opening of bids is required.

Plans, specifications, forms of contract and bond, proposal blanks, and full instructions are on file for examination and may be obtained at the offices of the State Highway Commission in Helena, Montana. Plans and specifications for all Federal Aid Projects are also on file and may be examined in the office of the Bureau of Public Roads at Missoula.

Frank G. Connelly, Chairman
Scott P. Hart, State Highway Engineer

5392—3-10, 17

SCHOOL ADDITIONS

BIDS CLOSE 8 P.M., M.S.T., MARCH 27

Shelby, Montana

NOTICE TO CONTRACTORS

Sealed proposals for the construction of an Addition to the West Side School Building and an Addition to the North Side School Building for School District No. 14, Toole County, Montana, will be received by the Board of Trustees of said School District No. 14 of Toole County, Montana. These proposals will be received at the High School Building, Shelby, Montana. At the option of the contractor he may submit a combined bid upon both of the buildings hereinbefore noted. This bid shall be marked "Aggregate Bid" and shall be submitted as a separately sealed proposal. All bids will be publicly opened at 8:00 P.M. (M.S.T.) March 27, 1956.

Contractors may obtain plans and specifications at the office of the Architects, Brinkman & Lenon, Strand Theater Building, Kalispell, Montana. A deposit of $25.00 for each set of plans will be required and this deposit will be refunded upon return of the plans and specifications in good condition within ten days after the opening of bids. All bidders shall state the type of contract bid upon; whether General, Electrical, or Plumbing, Heating & Ventilating.

As a condition precedent to considering any bid and as evidence of good faith on the part of the bidder, and as indemnity for the benefit of School District No. 14 of Toole County, Montana, against the failure or refusal of any bidder to enter into a standard written contract which may be awarded him upon and following acceptance of his bid, any bid submitted must contain a written covenant of indemnity conditioned as herein set forth, and each bid must be accompanied by bid security of the nature herein specified for the performance of such covenant.

Any bid submitted must expressly covenant that if the bidder shall be awarded a contract, the bidder will, within a reasonable time after the acceptance of said bid

by School District No. 14 of Toole County, Montana, enter into a standard written contract and give an approved surety bond covering the full amount of his contract to secure the performance of the terms and conditions of such contract. If any bidder shall neglect or refuse to enter into such contract such bidder shall forfeit to School District No. 14, of Toole County, Montana, the sum of not less than 5% (five percent) of the amount of his Basic Bid or Aggregate Bid.

All bids must be accompanied by lawful money of the United States, cashier's check, certified check, bank money order, or bank draft, drawn and issued by a National Banking Association located in the State of Montana or by any banking corporation incorporated under the laws of the State of Montana, or a bid bond executed by a surety corporation authorized to do business in the State of Montana, and be payable directly to School District No. 14 of Toole County, Montana, in the sum of not less than five percent (5%) of the amount of the Basic Bid or Aggregate Bid.

No bidder may withdraw his bid for at least 30 days after the scheduled closing time for the receipt of bids, unless waived by the Board of Trustees. No bid will be considered unless the number of the receipt issued to the bidder for payment of the annual contractor's license fee for the State of Montana appears upon the bid and is in a classification that will allow the bidder to execute the contract.

The Board of Trustees of School District No. 14 of Toole County, Montana, hereby reserves the right to reject any and all bids and to waive formalities.

Dated at Shelby, Montana, this 15th day of February, 1956.

/s/ J. D. Annis
Clerk of School District No. 14
Toole County, Montana

5387—3-10, 17

BUS GARAGE, MAINTENANCE SHOP

BIDS CLOSE 2 P.M., P.S.T., APRIL 10

Pullman, Washington

NOTICE TO CONTRACTORS

Sealed bids will be received by the undersigned until 2:00 P.M. P.S.T. on the 10th day of April 1956 at the Board Room of the Pullman High School. Bids received after this time will be rejected.

This project consists of a steel building approximately 66'0"x100'0", 12 clear span bus stalls, shop area with hoist, furnace, toilet and work room. Concrete slabs throughout and crushed rock for yard area.

Plans, Specifications and Contract Documents may be examined at the Spokane Construction Council, A.G.C., Spokane Builders Chapter, or at the office of the clerk, Ruth Gleason, Pullman School District No. 307. Plans and Specifications may be obtained by bidders at the office of the Architects, McClure & Adkison, North 108 Washington St., Spokane, Washington, upon deposit of $25.00, refundable if returned unmutilated and in good condition within 15 days after the bid opening.

Each bid shall be accompanied by a Bid Bond, certified check or cashier's check made payable to the Pullman School District No. 307, in an amount not less than 5% of the bid, including all Alternates and State Sales Tax.

The Board of Directors reserve the right to reject any and all bids, and to waive any informalities or irregularities in any bid or in the bidding.

No bidder may withdraw his bid after the hour set for opening thereof, or before award of contract, unless such award is delayed for a period exceeding 30 days.

RUTH GLEASON, Clerk
Pullman School District No. 307
Pullman, Washington

5400—3-15, 22, 29

VOCATIONAL AGRICULTURAL SHOP

BIDS CLOSE 2 P.M., P.S.T., APRIL 10

Pullman, Washington

NOTICE TO CONTRACTORS

Sealed bids will be received by the undersigned until 2:00 p.m. P.S.T., on the 10th day of April, 1956, at the Board Room of the Pullman High School. Bids received after this time will be rejected.

This project involves approximately 7800 sq. ft. of space on the upper level, including shop, classroom, office, toilet rooms and storage areas. The lower level of equal area is unfinished and of reinforced concrete.

Separate bids will be received from General Contractors, Mechanical and Electrical Contractors. The General Contractor may submit a combined bid (optional) but must submit a separate bid to validate any combined bid.

Plans, Specifications and Contract Documents may be examined at the Spokane Construction Council ,A.G.C., Spokane Builders Chapter, or at the office of Ruth Gleason, clerk, Pullman School District No. 307. Plans and specifications may be obtained by bidders upon deposit of $25.00, refundable if returned unmutilated and in good condition within 15 days after bid opening, as follows:

For General Construction: McClure & Adkison, Architects, N. 108 Washington St., Spokane, Washington.

For Mechanical: Kendall Wood, Engineering, Hutton Building, Spokane, Washington.

For Electrical: Joseph Doyle, Realty Building, Spokane, Washington.

Each bid shall be accompanied by a Bid Bond, certified check or cashier's check made payable to the Pullman School District No. 307, in an amount not less than 5% of the bid, including all Alternates and State Sales Tax.

The Board of Directors reserve the right to reject any and all bids, and to waive any informalities or irregularities in any bid or in the bidding.

No bidder may withdraw his bid after the hour set for opening thereof, or before award of contract, unless such award is delayed for a period exceeding 30 days.

RUTH GLEASON, Clerk
Pullman School District No. 307
Pullman, Washington

5401—3-15, 22, 29

SCHOOL ADDITION

BIDS CLOSE 2 P. M., MARCH 20

Spokane, Washington

NOTICE TO CONTRACTORS

Sealed bids will be received by the undersigned at the office of George M. Rasque and Son, Architects in the Washington Trust Building at Spokane, Washington, up to 2:00 P. M., March 20, 1956, for construction of an Addition to the Millwood Grade School, School District No. 143, Millwood, Washington, and will then and there be opened and publicly read aloud in his office. Bids received after the time for opening will not be considered.

Plans and Specifications may be obtained from the office of George M. Rasque & Son, Washington Trust Building, Spokane, Washington, upon deposit of $25.00, which sum will be returned to the bidder provided plans are returned within 6 days after issued if no bid is to be submitted.

The character and amount of security to be furnished by each bidder is stated in the specifications.

The Board of Directors reserves the right to reject any or all bids or to accept the proposal deemed best for the District and to waive informalities.

Board of Directors,
School District No. 143,
Millwood, Washington.

5393—3-8, 13, 14

BRIDGE

BIDS CLOSE 11 A.M., MARCH 21

Yakima, Washington

NOTICE TO CONTRACTORS

NOTICE, is hereby given that sealed bids will be received by the Board of County Commissioners at their office in the County Courthouse at Yakima, Washington until 11:00 A.M., March 21, 1956 for the letting of one contract involving the following work:

Contract:

County Road Project No. 614 for the construction of a hollow box reinforced concrete bridge 100 Ft. long on reinforced concrete pile bents with a 60 Ft. center span and two 20 Ft. cantilever ends with following principle quantities: Structure Excavation 100 Cu. Yds.; Furnishing and Driving Precast Concrete Test pile 2 only; Furnish Precast Concrete Piling 880 Lin. Ft.; Drive Precast concrete piping 22 only; Class A Concrete in Place 168.9 Cu. Yds., Steel reinforcing bars in place 56,777 Lbs.; Structural steel in place 244 Lbs.; Steel guardrail in place 200 Lin. Ft. and reflector units to place 2 only.

A set of plans and Specifications for said contract may be obtained from the County Road Engineers office in Yakima for the sum per contract.

All bid proposals shall be accompanied by a bid proposal deposit in cash, certified check or cashiers check, payable to the Yakima County Treasurer in an amount equal to five per cent (5%) of the amount of bid.

The deposit will be forfeited to the County if the successful bidder fails to enter into a contract and furnish a satisfactory performance bond within ten (10) days from date of award.

The Board of County Commissioners expressly reserves the right to reject any or all bids or parts thereof.

Any additional information may be obtained from the COUNTY ROAD ENGINEERS OFFICE in the Old Courthouse, Yakima, Washington.

HAROLD PURDIN
County Auditor
By Lois Mathus
Deputy County Auditor

5390—3-10, 14

EARTHWORK, PIPELINES, STRUCTURES

BIDS CLOSE 10 A. M., P.S.T., APRIL 5

Ephrata, Washington

NOTICE TO CONTRACTORS

United States Department of the Interior, Bureau of Reclamation, March 5, 1956. Sealed bids, in single (Specifications No. DC-4858) will be received at the office of the Project Manager, Bureau of Reclamation, Division Avenue and "C" Street NW., Ephrata, Washington, until 10:00 a.m., Pacific Standard Time, April 5, 1956, and then publicly opened for furnishing labor and materials and performing all work for construction of Earthwork, Pipe Lines, and Structures North Part Block 46 Laterals, Wasteways, and Drains, East Low Canal Laterals. This work will include earthwork for approximately 36 miles of unlined sections of laterals, wasteways and drains. Earthwork for and construction of approximately 1,320 feet of precast-concrete pipe lines. Earthwork for and construction of concrete structures along the laterals, wasteways and drains, including turnouts, division boxes, constant head orifices, concrete transitions, check and pipe inlets, pipe drops, control and pipe inlet concrete checks, orifice turnouts, roads and ditch and railroad crossings, concrete drop weirs, drainage inlets, baffled pipe outlets, weir boxes, and pipe drain. Furnishing and installing metal slide gates and lifts; adjustable weirs, and miscellaneous metalwork. Time allowed for completion will be 475 and 560 calendar days. For particulars, address the Bureau of Reclamation, P. R. Nadin, Project Manager, Box 368, Ephrata, Washington.

5395—3-10

HIGH SCHOOL

BIDS CLOSE 10 A. M., P.S.T., APRIL 11

Juneau, Alaska

NOTICE TO CONTRACTORS

Project Aaa. 50-A176, Unit 2, High School, Juneau, Alaska, February 24, 1956. Name and location of project, Juneau-Douglas High School, Project Aaa. 50-A-176, Unit 2, Juneau, Alaska. Department or agency: Alaska Public Works, Office of Territories, Department of the Interior. By (name and office), James W. Huston, Director, Alaska Public Works, Office of Territories, Department of the Interior, Post Office Box 1187, Juneau, Alaska. Sealed bids in single copy for furnishing all labor, equipment, and materials and performing all work for the project described herein will be received until 10:00 A. M., Pacific Standard Time, April 18, 1956, in the mailroom of the Office of the Director, Alaska Public Works, Office of Territories, Department of the Interior, 123 West Third Street, P. O. Box 1187, Juneau, Alaska, and then publicly opened and read aloud. Information regarding bi

ding material, bid guarantee, and bonds follows: Plans and specifications and other proposed contract documents are open for public inspection at the Director's office, Juneau, Alaska; at Room 2723 Interior Bldg., Washington 25, D. C., and Associated General Contractors of America offices as follows: Seattle Chapter, Construction Center, 215 West Harrison Street, Seattle, Wash.; Tacoma Chapter, 452 St. Helens Ave., Tacoma 3, Wash.; Mountain Chapter, 220 W. Harrison St., Seattle, Wash.; Portland Chapter, Suite 112 Multnomah Hotel, Portland, Ore., and the Alaska Chapter, P. O. Box 992, 306 Central Bldg., Anchorage, Alaska; at the Plan Bureau, 2413 Western Ave., Seattle, Wash.; Builders Exchange Cooperative, 317 Builders Exchange Bldg., Portland, Ore., and Payroll Service of Anchorage, 414 6th Ave., Anchorage, Alaska. Sets of such documents may be procured from the office of the Director at Juneau, Alaska, upon deposit of $25.00, all of which will be refunded upon the return of the plans and specifications in good condition within twenty (20) days from date of bid opening. Each bid must be accompanied by a satisfactory bid security (certified check or bid bond) in an amount not less than 5 per cent of the total bid in dollars and cents. No bid will be withdrawn until thirty days after the scheduled closing date for the receipt of bids. The successful bidder will be required to furnish a performance bond and payment bond, each in the amount of 100 per cent of the contract price. The Government reserves the right to award a contract for the project on the basis of the acceptance of any or all of the alternates, whichever course is in the best interest of the Government. DESCRIPTION: Project Aaa. 50-A-176, Unit 2, High School, Juneau, Alaska. The construction of a two-story reinforced and prestressed concrete high school building containing approximately 60,000 square feet of floor area. Information regarding liquidated damages (if any), payments, etc., is attached or made a part of the specifications. Bids shall be submitted on the forms furnished or copies thereof.

5384—3-3, 10, 17

EARTHWORK, STRUCTURES, DISCHARGE LINES

BIDS CLOSE APRIL 24

Ephrata, Washington

NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-4656) will be received at Ephrata, Washington, until April 24, 1956, for furnishing labor and materials for Earthwork and Structures, Evergreen Pumping Plant Intake Channel and Discharge Lines, Lateral W44 and Dike W44, Block 77, West Canal Laterals, Columbia Basin Project, Washington. Location near Quincy, Washington. Principal items are 154,000 cu. yds. excavation; 16,000 cu. yds. rockfill on dike; 400 cu. yds. concrete in structures; 18,400 lin. ft. concrete pipe; two steel surge tanks; and other work. Completion time 320 days. For particulars, address Bureau of Reclamation, P. O. Box 368, Ephrata, Washington; or Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.

5391—3-17

PAVING, SEWERS

BIDS CLOSE 2 P.M., A.S.T., APRIL 5

Anchorage, Alaska

NOTICE TO CONTRACTORS

Sealed bids will be received by the City Manager, City of Anchorage, Alaska at 524 Fourth Avenue, Anchorage, Alaska until 2:00 P.M., Alaska Standard Time, on April 5, 1956 and then be publicly opened.

The work consists of constructing subgrade, asphaltic concrete paving and storm and sanitary sewers in the City of Anchorage Improvement Districts 12, 12A, 23, 24, 24A, 25, 25A, 26 and 28, and City of Anchorage Project G37. 5-104.

Plans, specifications and other contract documents are open for public inspection at the office of the City Engineer, 221 "B" Street, Anchorage, Alaska (Phone 65301) and may be obtained upon deposit of Twenty-five ($25.00) Dollars, all of which will be returned not later than ten (10) days from the date of the bid opening. No refunds will be made after the ten (10) days have expired.

Each bid must be accompanied by a satisfactory certified check or bid bond in an amount not less than ten (10%) per cent of the total bid.

The successful bidder will be required to furnish a Contract Performance Bond on the form approved by the City of Anchorage.

No bids may be withdrawn until ten (10) days after the contract has been awarded to the successful bidder and accepted by him.

The City reserves the right to reject any and all bids and to waive any informalities in bids received.

C. A. Hostetler
Purchasing Agent

5396—3-17

DRILLING, CASING WELLS

BIDS CLOSE 2 P.M., A.S.T., APRIL 5

Anchorage, Alaska

NOTICE TO CONTRACTORS

Sealed bids will be received by the City Manager, City of Anchorage, Alaska, at 524 Fourth Avenue, Anchorage, Alaska until 2:00 P.M., Alaska Standard Time, on April 5, 1956 and then be publicly opened.

The project consists of performing all work for constructing, drilling, casing, developing, testing and sampling three deep wells, including the alternate of drilling and testing of pilot (test) wells to determine the feasibility of completing the final well at that location.

Plans, Specifications and other Contract Documents are open for public insepection at the office of the City Engineer, 221 "B" Street, Anchorage, Alaska (Phone 65301) and may be obtained upon deposit of Twenty-five ($25.00) Dollars, all of which will be returned to plan holders upon the return of Plans and Specifications postmarked not later than ten (10) days from the date of the bid opening. No refunds will be made after the ten (10) days have expired.

Each bid must be accompanied by a satisfactory certified check or bid bond in an amount not less than ten (10)% per cent of the total bid.

The successful bidder will be required to Furnish a Contract Performance Bond on the form approved by the City of Anchorage.

No bid may be withdrawn until ten (10) days after the contract has been awarded to the successful bidder and accepted by him.

The City reserves the right to reject any and all bids and to waive any informalities and irregularities in bids received.

C. A. Hostetler
Purchasing Agent

5397—3-17

SCHOOL

BIDS CLOSE 8 P. M., MARCH 28

Olympia, Washington

NOTICE TO CONTRACTORS

Separate sealed bids for General, Mechanical and Electric Work will be received by Olympia School District No. 1, at the School District Office, 116 North Columbia Street, Olympia, Washington, until 8:00 P. M., Wednesday, March 28, 1956, for the construction of the JOHN R. ROGERS ELEMENTARY SCHOOL to be located on Springer and Friendly Grove Roads, Thurston County, Washington.

Separate sealed bids will also be received until the same time and date for portable chalkboards, corkboards, portable school furniture, and metal counters, all for the above named building.

Bids will then and there be publicly opened and read aloud. Bids received after the time fixed for opening cannot be considered.

Specifications, including Contract Documents and Drawings, may be examined and may be obtained at the office of the Architects, WOHLEB & WOHLEB and ASSOCIATES, Architects and Engineers, 715 South Washington Street, Olympia, Washington, and may be examined at the Associated General Contractor's Offices in Seattle and Tacoma, Washington, and at the Plan Bureau in Seattle, Washington, and the Association of Subcontractors of Washington, Tacoma, Washington.

Plans may be obtained at the Architect's Office upon deposit of Fifty and No/100 Dollars ($50.00) for each set of General, Mechanical or Electrical Plans for the building and a deposit of Twenty-Five and No/100 Dollars ($25.00) for each set of chalkboard and furniture and equipment plans and specifications.

The full amount of the deposit for one set of documents will be refunded to actual bidders upon return of the documents, unmutilated and without marks or annotations, within 3 days after the time set for opening bids. Other deposits will be refunded with deduction for the actual cost of reproducing the Drawings, under the same condition.

Each bid must be accompanied by a certified check, cashier's check or bid bond, with state-licensed surety company as surety, in an amount not less than five per cent (5%) of the largest single amount bid made payable to Olympia School District No. One.

The right is reserved to reject any or all bids and to waive informalities in connection with said bids.

By order of:
OLYMPIA SCHOOL DISTRICT NO. ONE,
By Virgil L. Adams,
Secretary.

5394—3-10, 17, 24

HIGHWAY CONSTRUCTION

BIDS CLOSE 10 A.M., APRIL 3

Olympia, Washington

NOTICE TO CONTRACTORS

Sealed bids will be received by the Washington State Highway Commission at Olympia, Washington, on Tuesday, April 3, 1956, until 10:00 A.M. for the construction of the following improvements and will then and there be opened and publicly read:

Draining, Grading, Surfacing, Constructing a Cement Treated Base, Paving with Type I-1 Asphaltic Concrete and Installing Illumination Systems on 5.109 miles of Primary State Highway No. 2 in Spokane County, CUSTER STREET TO PINES ROAD, FAP No. IN-002-6(15), involving about 680 cubic yards of Common Excavation, 10,000 cubic yards of Stripping Borrow and Surfacing Pits, 2,430 tons of Sand Filler, 71,490 tons of Selected Roadway Borrow, 57,520 tons of Crushed Stone Surfacing, 482 tons of Asphalt Cement, 2,490 cubic yards of Crushed Cover Stone, 31,930 tons of Asphaltic Concrete, 3,480 cubic yards of Blending Sand, 11,050 barrels of Portland Cement, 40,340 tons of CTB Aggregate, 9,870 tons of Special Blending Sand, 1,830 square yards of Cement Concrete Pavement, 137,900 pounds of Steel Reinforcing Bars and Pavement Reinforcement, 530 cubic yards of Concrete, 33,725 linear feet of Cement Concrete Curb, Cement Concrete Curb and Gutter and Cement Concrete Gutter, 840 linear feet of Precast Traffic Curb, 782 linear feet of Corrugated Metal Pipe, 513 linear feet of Concrete Pipe, 15,272 linear feet of Beam Guard Rail, 272 Guide Posts, 34 cubic yards of Riprap, 4 lump sum bids for Installation of Illumination Systems and other items.

Clearing, Draining and Grading on 2.373 miles of Primary State Highway No. 2 in Chelan County, DRYDEN TO CASHMERE, FAP No. F-028-1(10), involving about 83 acres of Clearing, 441,320 cubic yards of Unclassified and Common Excavation, 251,390 cubic yards of Channel Excavation, 50,520 cubic yards of Solid Rock Borrow, 166,120 units of Overhaul, 8,160 tons of Crushed Stone Surfacing, Ballast and Crushed Cover Stone, 36 tons of Asphalt Cement, 134 cubic yards of Concrete, 17,400 pounds of Steel Reinforcing Bars, 2,086 linear feet of Concrete Pipe, 629 linear feet of Iron and Steel Pipe, 128 linear feet of Corrugated Metal Pipe, 2 Automatic Tide Gates, 390 linear feet of Beam Guard Rail and other items.

Clearing, Draining, Grading, Surfacing with Light Bituminous Surface Treatment and Paving with Cement Concrete and Type I-1 Asphaltic Concrete on 3.523 miles of Primary State Highway No. 3 in Whitman County, DRY CREEK TO STEPTOE,

No. F-037-2(3), involving about 252,030 cubic yards of Common Excavation, 3,110 cubic yards of Solid Rock Excavation, 40,020 units of Overhaul, 76,860 tons of Crushed Stone Surfacing and Crushed Cover Stone, 111 tons of Asphalt Cement, 665 tons of Asphaltic Concrete, 49,620 square yards of Cement Concrete Pavement, 10,030 pounds of Pavement Reinforcement, 103 cubic yards of Concrete, 20,260 pounds of Steel Reinforcing Bars, 100 linear feet of Corrugated Metal Pipe, 1,764 linear feet of Concrete Pipe, 25 Guide Posts, 50 cubic yards of Riprap and other items.

Clearing, Draining, Grading, Surfacing and Paving with Type I-1 Asphaltic Concrete on 1.090 miles of Secondary State Highway No. 13-A in Grays Harbor County, SOUTH BAY BRIDGE APPROACHES, FAS No. S-0250(5), involving about 254,030 cubic yards of Embankment, 100,100 cubic yards of Excavation of Unsuitable Material, 3,340 tons of Dune Sand, 5,920 tons of Selected Roadway Borrow, 3,215 tons of Crushed Stone Surfacing, 315 cubic yards of Mineral Aggregate and Crushed Cover Stone, 33 tons of Asphalt Cement, 2,710 tons of Asphaltic Concrete, 46 cubic yards of Concrete, 12,200 pounds of Steel Reinforcing Bars, 3,780 linear feet of Asphaltic Shoulder Curb, 306 linear feet of Concrete Pipe, 466 linear feet of Corrugated Metal Pipe, 3,612 linear feet of Beam Guard Rail, 18 Guide Posts, 18,620 tons of Riprap, a lump sum bid for Installation of Power Cable for Navigation Lights and other items.

Clearing, Draining, Grading, Surfacing and Constructing Bituminous Surface Treatment Road Mix on 6.708 miles of Secondary State Highway No. 3-A in Yakima County, SATUS TO MABTON, FAS No. S-0268(8), involving about 135,805 cubic yards of Common Excavation, 6,650 units of Overhaul, 25,000 cubic yards of Stripping Borrow and Surfacing Pit, 37,260 tons of Selected Roadway Borrow, 52,435 tons of Crushed Stone Surfacing and Mineral Aggregates, 438 tons of Asphalt Cement, 3 cubic yards of Concrete, 633 linear feet of Concrete Pipe and other items.

Clearing, Draining, Grading and Surfacing on 0.466 mile of a San Juan County Road, UPRIGHT HEAD - RICHARDSON ROAD, FAS No. S-0715(3), involving about 7,930 cubic yards of Unclassified Excavation, 1,900 cubic yards of Selected Roadway Borrow, 630 cubic yards of Crushed Stone Surfacing, 154 linear feet of Corrugated Metal Pipe and other items.

Draining, Grading, Surfacing and Paving with Type I-1 Asphaltic Concrete and Unfinished Cement Concrete on 0.750 mile of Secondary State Highway No. 1-K in King County, WEST MARGINAL WAY TO CLOVERDALE STREET, a State Project, involving about 9,670 cubic yards of Unclassified Excavation and Sand Borrow, 7,450 tons of Selected Roadway Borrow, 3,500 tons of Crushed Stone Surfacing, 5,110 tons of Asphaltic Concrete, 200 cubic yards of Mineral Aggregate, 21 tons of Asphalt Cement, 1,410 square yards of Unfinished Cement Concrete Pavement, 4,750 linear feet of Asphaltic Concrete Gutter, 5,500 linear feet of Cement Concrete Curb and Integral Cement Concrete Curb, 2,012 linear feet of Extruded Traffic Curb, 1,547 linear feet of Precast Traffic Curb, 65 linear feet of Galvanized Conduit Pipe, 5,667 linear feet of Concrete Pipe and other items.

Draining, Grading, Surfacing, Constructing a Cement Treated Base and Paving with Type I-1 Asphaltic Concrete on 2.112 miles of Primary State Highway No. 12 in Cowlitz County, NICHOLS BOULEVARD IN LONGVIEW, ET AL, a State Project, involving about 11,500 cubic yards of Common Excavation, 1,750 cubic yards of Sand Borrow, 5,560 tons of Ballast and Crushed Stone Surfacing, 5,265 tons of Asphaltic Concrete, 29 tons of Asphalt Cement, 190 cubic yards of Mineral Aggregate, 5,100 tons of CTB Aggregate, 920 Barrels of Portland Cement, 470 linear feet of Asphaltic Concrete Gutter, 6,195 linear feet of Cement Concrete Curb and Gutter, 140 linear feet of Precast Traffic Curb, 1,518 linear feet of Concrete Pipe, 134 linear feet of Beam Guard Rail and other items.

Surfacing with Light Bituminous Surface Treatment and Paving with Type I-1 Asphaltic Concrete on 2.840 miles of Primary State Highway No. 11 in Spokane County, TYLER NORTHEASTERLY, a State Project, involving about 3,440 tons of Crushed Stone Surfacing, 61 tons of Asphalt Cement, 470 cubic yards of Crushed Cover Stone, 6,860 tons of Asphaltic Concrete and other items.

Installing an Illumination System on Secondary State Highway No. 1-K in King County, FIRST AVENUE SOUTH BRIDGE AND APPROACHES — SCHEDULE G, a State Project, involving about 115 Mercury Vapor Luminaire Assemblies with Mountings and Brackets, 8,460 linear feet of Electrical Conduit, 27,160 linear feet of Neoprene Covered Cable and other items.

Preparing Topographic Maps and Mosaics from Aerial Surveys on State Highways Nos. 1, 2, 3, 1-W and 2-B in King, Snohomish and Spokane Counties, SPOKANE VICINITY, ET AL, a State Project, involving about 2.6 square miles of Topographic Mapping, 4.8 square miles of Mosaics, 5 square miles of Photography and other items.

Federal funds have been allocated for items Nos. 1 to 6, inclusive.

All bid proposals shall be accompanied by a bid proposal deposit in cash, certified check, cashier's check or surety bond in an amount equal to five per cent (5%) of the amount of such bid proposal. Should the successful bidder fail to enter into such contract and furnish satisfactory performance bond within the time stated in the specifications, the bid proposal deposit shall be forfeited to the State of Washington.

Prequalification of bidders is required. Maps, plans and specifications may be obtained from this office upon written request therefore and payment to the Director of Highways by cash, certified check, cashier's check or money order in the sum of two dollars ($2.00) for each copy of such maps, plans and specifications as a rental for the use of them. Plans will be forwarded by First Class Mail.

Informational copies of maps, plans and specifications are on file in the office of the County Engineer of the County in which the work is situated, the Chapter offices of the Associated General Contractors of America in Seattle, Spokane, Tacoma and Portland and the offices of the District Engineers of the Department of Highways where they may be inspected.

E. C. HUNTLEY, Chairman
W. A. BUGGE, Director of Highways

5402—3-17, 24

HOSPITAL

BIDS CLOSE 10 A.M., P.S.T., MARCH 28

Juneau, Alaska

NOTICE TO CONTRACTORS

Reference Project Aaa, 50-A-97, Hospital, Seward, Alaska. February 13, 1956 Name and location of project, Seward Hospital, Project Aaa, 50-A-97, Seward Alaska. Department of Territories, Department of the Interior By, (Issuing office) James W. Huston, Director, Alaska Public Works, Office of Territories, Department of the Interior, Post Office Box 1181, Juneau, Alaska, Sealed bids in single copy for furnishing all labor, equipment, and materials and performing all work for the project described herein will be received until 10:00 A.M. Pacific Standard Time March 28, 1956, in the mailroom of the Office of the Director, Alaska Public Works, Office of Territories, Department of the Interior, 123 West Third Street, P. O. Box 1181, Juneau, Alaska, and then publicly opened, and read aloud. Information regarding bidding material, bid guarantee, and bonds follows:

Plans and specifications and other proposed contract documents are open for public inspection at the Director's office, Juneau, Alaska; at Room 2723, Interior Bldg., Washington 25, D. C.; at the Area Engineer's office, Alaska Public Works, Reliable Ice Bldg., P. O. Box 1783, Anchorage, Alaska and Associated General Contractors of America offices as follows: Seattle Chapter, Construction Center, 215 West Harrison St., Seattle, Wash.; Mountain Chapter, 220 W. Harrison St., Seattle, Wash.; Tacoma Chapter, 452 St. Helens Ave., Tacoma 3, Wash.; Portland Chapter, Suite 112, Multnomah Hotel, Portland, Ore.; and the Alaska Chapter, 306 Central Bldg., Anchorage, Alaska; at the Plan Bureau, 2413 Western Ave., Seattle, Wash.; and Builders Exchange Cooperative, 317 Builders Exchange Bldg., Portland, Oregon. A set of such documents may be procured from the office of the Director at Juneau, Alaska, upon deposit of $25.00, all of which will be refunded upon the return of the plans and specifications in good condition within twenty (20) days from date of bid opening. Each bid must be accompanied by a satisfactory bid security (certified check or bid bond) in an amount not less than 5 per cent of the total bid in dollars and cents. No bid may be withdrawn until thirty days after the scheduled closing date for the receipt of bids. The successful bidder will be required to furnish a performance bond and Payment bond, each in the amount of 100 per cent of the contract price. The Government reserves the right to award a contract for the project on the basis of the acceptance of any or all of the alternates, whichever course is in the best interest of the Government. DESCRIPTION: Hospital, Project Aaa. 50-A-97, Seward Alaska. Construction of a one-story with part basements reinforced concrete general hospital building with approximately 18,700 square feet of floor area, including all mechanical and electrical work required for the proper operation of the building; also incidental site development and connections to utilities. Information regarding liquidated damages (if any), payments, etc., is attached or made a part of the specifications. Bids shall be submitted on the forms furnished or copies thereof.

5375—2-18, 25; 3-3

PAVING

BIDS CLOSE 10 A.M., MARCH 20

Olympia, Washington

NOTICE TO CONTRACTORS

Sealed bids will be received by the Washington State Highway Commission at Olympia, Washington, on Tuesday, March 20, 1956, until 10:00 A.M. for the construction of the following improvement and will then and there be opened and publicly read:

1. Surfacing and Paving with Bituminous Plant Mix Type F on 10.95 miles of Primary State Highway No. 9 in Clallam County, LAKE CRESCENT VICINITY, a State Project, involving about 20,350 tons of Ballast and Crushed Stone Surfacing, 230 cubic yards of Mineral Aggregate, 44 tons of Asphalt Cement, 26,870 tons of Bituminous Mix and other items.

All bid proposals shall be accompanied by a bid proposal deposit in cash, certified check, cashier's check or surety bond in an amount equal to five per cent (5%) of the amount of such bid proposal. Should the successful bidder fail to enter into such contract and furnish satisfactory performance bond within the time stated in the specifications, the bid proposal deposit shall be forfeited to the State of Washington.

Prequalification of bidders is required. Maps, plans and specifications may be obtained from this office upon written request therefor and payment to the Director of Highways by cash, certified check, cashier's check or money order in the sum of two dollars ($2.00) for each copy of such maps, plans and specifications as a rental for the use of them. Plans will be forwarded by First Class Mail.

Informational copies of maps, plans and specifications are on file in the office of the County Engineer of the County in which the work is situated, the Chapter offices of the Associated General Contractors of America in Seattle, Spokane, Tacoma and Portland and the offices of the District Engineers of the Department of Highways where they may be inspected.

E. C. HUNTLEY, Chairman
W. A. BUGG , Director of Highways

5388—3-10

Legal advertisements published in our columns are read throughout the Pacific Northwest and Alaska.

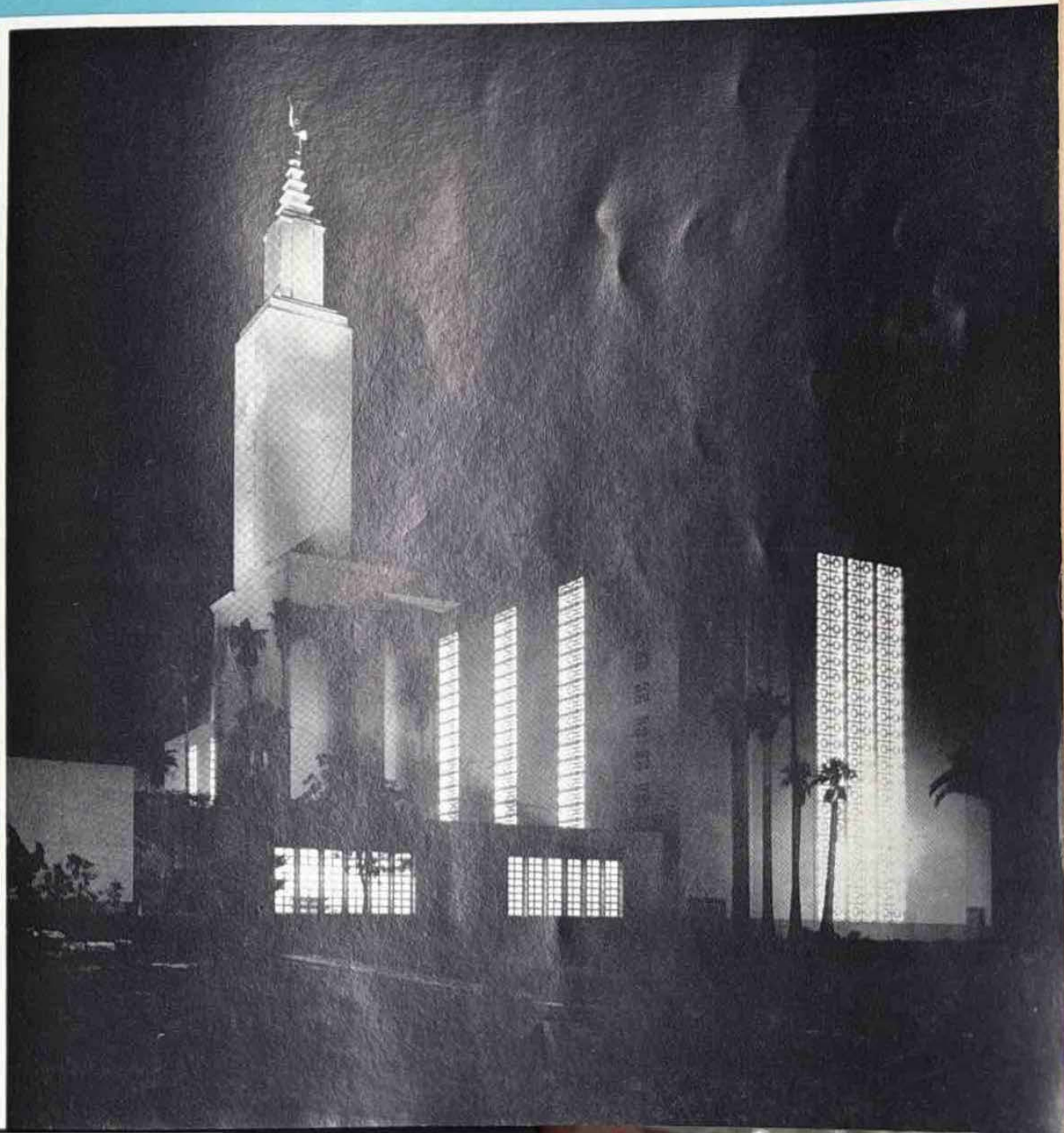
DEC 6 1956
LIBRARY

Pacific Architect and Builder

APRIL BPA 1956

50¢

WITH CONSTRUCTION NEWS BULLETIN



ormon Temple

Largest to be built by the church, this $4 million structure majestically stands on a Los Angeles hilltop (p. 10). Edward O. Anderson, AIA, architect.

so in this issue —

ortland's hilltop aven for diners

rban redevelopment

- Northwest conference
- Plan for a city center
- Life in a traffic jam

Published by
PACIFIC BUILDER
AND ENGINEER, Inc.
Established 1902

NEW LEASE ON LIFE!

another improvement program aided by versatile

Ceramic Veneer



J. C. Penney Store Building, Spokane, Washington • Architects: Whitehouse & Price • Contractor & Structural Engineer: Walter G. Meyers & Son

LOCATION VALUE. Improvement programs like this downtown shopping corner are attracting attention throughout the country. If you have location assets—"what to do now" is vitally important to the future of your business. Managements at this decision level have found it helpful to study the profit potentials of remodeling with Ceramic Veneer.

PRACTICAL as well as beautiful, glazed Ceramic Veneer has earned the reputation [illegible]siest to maintain." This historic low [illegible] of buildings faced with C[illegible]e top architects and o[illegible] with CV."

LESSEE & LESSOR gain biggest dividends with CV because...it's modern, attractive and economical. Write today for reports of property management experts who have enjoyed the long-term advantages of Ceramic Veneer buildings...or call the CV Technical Representative in your locality for complete information on Ceramic Veneer, a product of Gladding, McBean & Co.

Ceramic [illegible]eer

[illegible]EAN & CO.

LOS ANGELES • SAN FRA[illegible] • PHOENIX

FOR DOLLAR-SAVING TOOLS AND PRODUCTS

Check with
CASCADE DISTRIBUTORS First!

GRIP-STRUT Safety Steel Grating — non-skid catwalks, stair treads, platforms, etc.

BLACK & DECKER Complete Line of Industrial Electic Tools — hammers, drills, saws



KINDORF Steel Framing, Concrete Inserts, Channel and Framing, Pipe-Hanging Devices



CADWELD PROCESS Bonded Electrical Connections



RAMSET FASTENING SYSTEM — Powder actuated tools and fasteners — Economical — Permanent — Fast — and safety approved in Washington and Oregon

AND we carry
- ★ STAR expansion bolts
- ★ BULLDOG self-drilling shells
- ★ NEW ENGLAND carbide masonry drills
- ★ Construction Fasteners of All Kinds

For
- **ON-THE-JOB SERVICE**
- **FAST LOCAL DELIVERY**
- **RENTAL EQUIPMENT call**

CASCADE DISTRIBUTORS, INC.

SEATTLE	SPOKANE	PORTLAND
1918 First Ave. So.	SEneca 5625 • 2228 North Division, GLenwood 8114 • 1230 S.E. 7th Ave.	BElmont 2-7887

NEW LEASE ON LIFE!

another improvement program aided by versatile

Ceramic Veneer



J. C. Penney Store Building, Spokane, Washington • Architects: Whitehouse & Price • Contractor & Structural Engineer: Walter G. Meyers & Son

LOCATION VALUE. Improvement programs like this downtown shopping corner are attracting attention throughout the country. If you have location assets—"what to do now" is vitally important to the future of your business. Managements at this decision level have found it helpful to study the profit potentials of remodeling with Ceramic Veneer.

PRACTICAL as well as beautiful, glazed Ceramic Veneer has earned the reputation—"easiest to maintain." This historic low maintenance of buildings faced with CV is one of the reasons top architects and owners agree: "Let's face it with CV."

LESSEE & LESSOR gain biggest dividends with CV because...it's modern, attractive and economical. Write today for reports of property management experts who have enjoyed the long-term advantages of Ceramic Veneer buildings...or call the CV Technical Representative in your locality for complete information on Ceramic Veneer, a product of Gladding, McBean & Co.

Ceramic Veneer

BY GLADDING, McBEAN & CO.

Since 1875

LOS ANGELES • SAN FRANCISCO • SEATTLE • PORTLAND • SPOKANE • PHOENIX

FOR DOLLAR-SAVING TOOLS AND PRODUCTS

Check with
CASCADE DISTRIBUTORS First!

GRIP-STRUT Safety Steel Grating — non-skid catwalks, stair treads, platforms, etc.

BLACK & DECKER Complete Line of Industrial Electic Tools — hammers, drills, saws

KINDORF Steel Framing, Concrete Inserts, Channel and Framing, Pipe-Hanging Devices

CADWELD PROCESS Bonded Electrical Connections



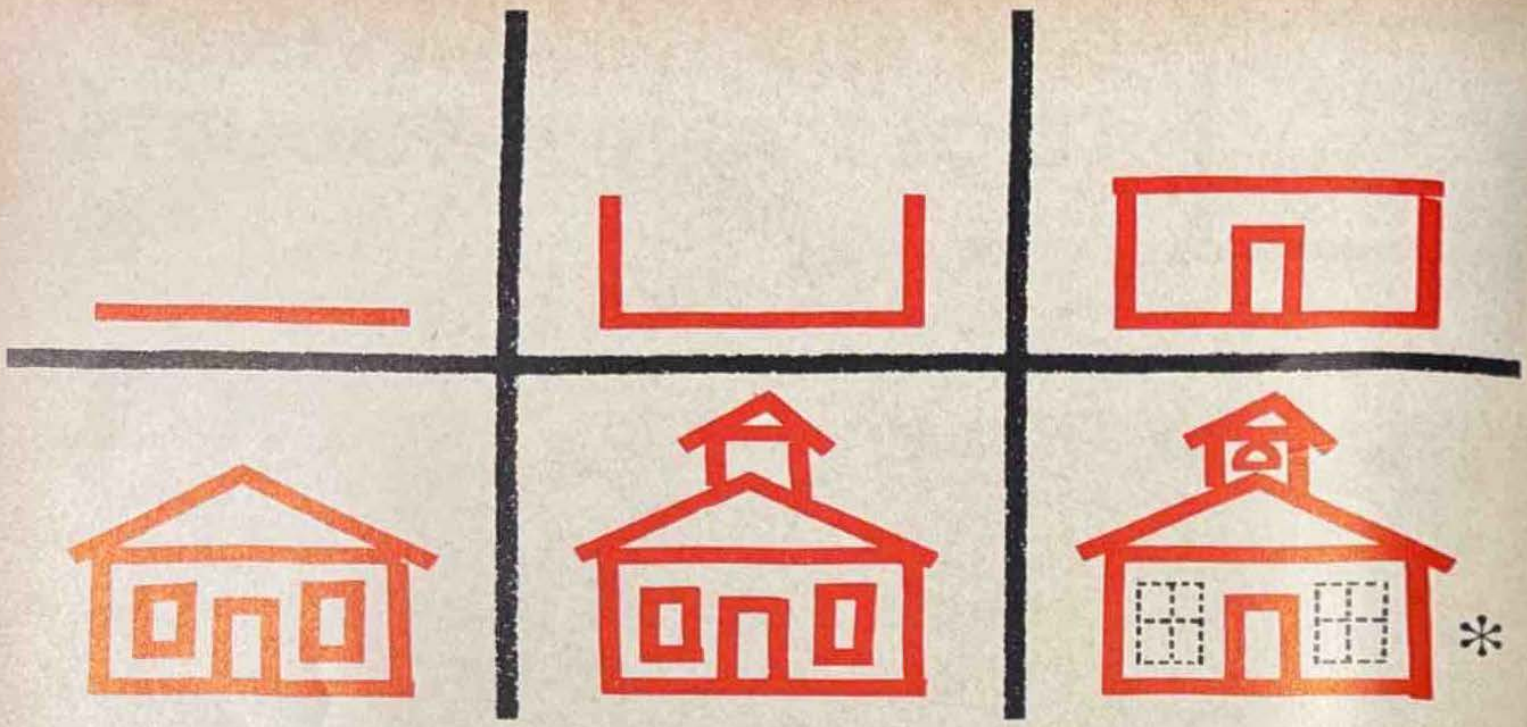
RAMSET FASTENING SYSTEM — Powder actuated tools and fasteners — Economical — Permanent — Fast — and safety approved in Washington and Oregon

AND we carry
- ★ STAR expansion bolts
- ★ BULLDOG self-drilling shells
- ★ NEW ENGLAND carbide masonry drills
- ★ Construction Fasteners of All Kinds

For
- **ON-THE-JOB SERVICE**
- **FAST LOCAL DELIVERY**
- **RENTAL EQUIPMENT call**

CASCADE DISTRIBUTORS, INC.

SEATTLE	SPOKANE	PORTLAND
1918 First Ave. So.	SEneca 5625 • 2228 North Division, GLenwood 8114 • 1230 S.E. 7th Ave.	BElmont 2-7887



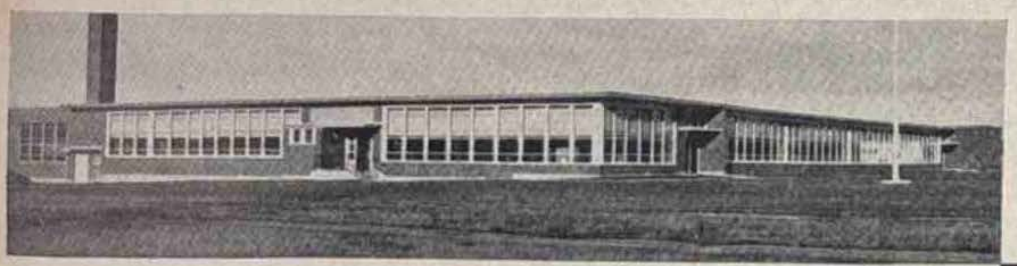
NO CONSTRUCTION DELAYS

with Western made Soulé metal windows

Soulé steel and aluminum windows end construction delays caused by slow, Eastern shipments of windows. Our plants in California, Oregon and Washington supply you with the windows you want, when you need them, installed by our crews. Western Soulé window service means faster transmission of details, too.

There's no limitation to standard sizes when you specify Soulé Paramount Steel or Series 900 Aluminum windows. And our design engineers will assist you with problems concerning materials, sizes and shapes, to help you get *your* window at the lowest cost. A big plus service is expert installation by Soulé. *And remember, we deliver on time!*





Opened on time! Liberty School, Marysville, Washington. A steel installation by Soulé where prompt manufacturing and service helped open school on time! Architects: Mallis and De Hart. Contractor: Paul Odegard.

SOULÉ STEEL COMPANY

San Francisco 1750 Army St., VA. 4-4141 • Los Angeles 6200 Wilmington Ave., LU. 5-0911
San Diego 3741 Fifth Ave., CYpress 5-6289 • Portland 2630 N.W. St. Helens Rd., CApitol 3-5154
Seattle 4100 W. Marginal Way, HOlly 3600 • Spokane 405 American Legion Bldg., MA. 6000
Phoenix 2026 S. 11th Ave., Alpine 3-3178 • Salt Lake City 200 Greyhound Bldg., EMpire 3-7601
Dallas 528 Interurban Bldg., Riverside 5225

Soulé
LEADER IN METAL WINDOWS

Pacific Architect and Builder

APRIL BPA 1956

WITH CONSTRUCTION NEWS BULLETIN

VOLUME 62 NUMBER 4

Published by
Pacific Builder and Engineer, Inc.
Established 1902

MAIN EDITORIAL AND BUSINESS OFFICE
2418 Third Ave., Seattle 1, Wash.
Phone MAin 0285

N. B. Chapin — President
John E. Miller — General Manager

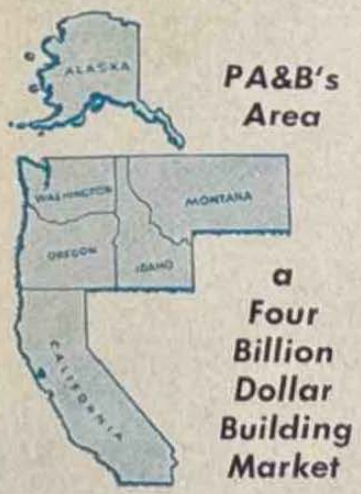
Phyllis E. Forth — Production Manager
Frances Eggan — Circulation Manager
Robert G. Hitchens — Director of Business Services and Circulation Sales

ADVERTISING
Main Office — Seattle
L. C. McDowell

MIDWEST ADVERTISING OFFICE
30 N. LaSalle St., Room 1240
Chicago, Ill.—Phone STate 2-3158
Charles W. Crandall — Representative

CALIFORNIA EDITORIAL OFFICE
24 White St., San Francisco 9, Calif.
Phone GRaystone 4-8532
Ken MacDonald — Contributing Editor

PORTLAND EDITORIAL OFFICE
1109 S.W. Fourth Ave.—Phone CApitol 3-1229
Win Romtvedt — Portland News Manager



PA&B's Area

a Four Billion Dollar Building Market

Roscoe E. Laing—Editor
Bob Koehler—Associate Editor
Paul Nelson, assistant editor; Anne Hecker, editorial assistant; Joan Storey, research assistant
D. F. McCormick, editor, Construction News Bulletin

CONTENTS

Remodeling the Architect's Ivory Tower—*a guest editorial by Robert W. Evans, AIA* 8

The Mormons' Largest Temple—Los Angeles 10

Hillvilla Restaurant: Hilltop Haven for Diners—Portland 14

Builder House: House Divided—for Comfort—La Mirada and Fullerton, Calif. 16

Whither Urban (Re)Development?
A Report on the Northwest's First Conference in Tacoma 18
Victor Gruen's Blueprint for a City Center 21
Life in a Traffic Jam—*excerpts from an address by Morris Ketchum Jr., FAIA* 22

Some Thoughts about Design and Other Topics: Excerpts from the NAHB Convention 24

DEPARTMENTS

Perspectives 6
Trends—News—Views 7
Building Permit Tabulation 30
Architectural Preview: Olympic Hotel Addition 32
T-square Talk 34
Where Architects Hang Their Hats 35
Materials, Products, Tools and Latest Literature 36
Builders and Suppliers 38
Building Bookshelf 42

CONSTRUCTION NEWS BULLETIN

Building and Engineering News of the Pacific Northwest and Alaska 43

SUBSCRIPTION RATES—Payable in Advance

PACIFIC ARCHITECT AND BUILDER—3rd Saturday each month $4 one year; $6 two years; $7 three years. Canadian $5, $8, $10. Foreign $6, $10, $13. Single copies 50c. With CONSTRUCTION NEWS BULLETIN (2nd, 4th, 5th Sat.) $16, $24, $31, in U.S. and Alaska.

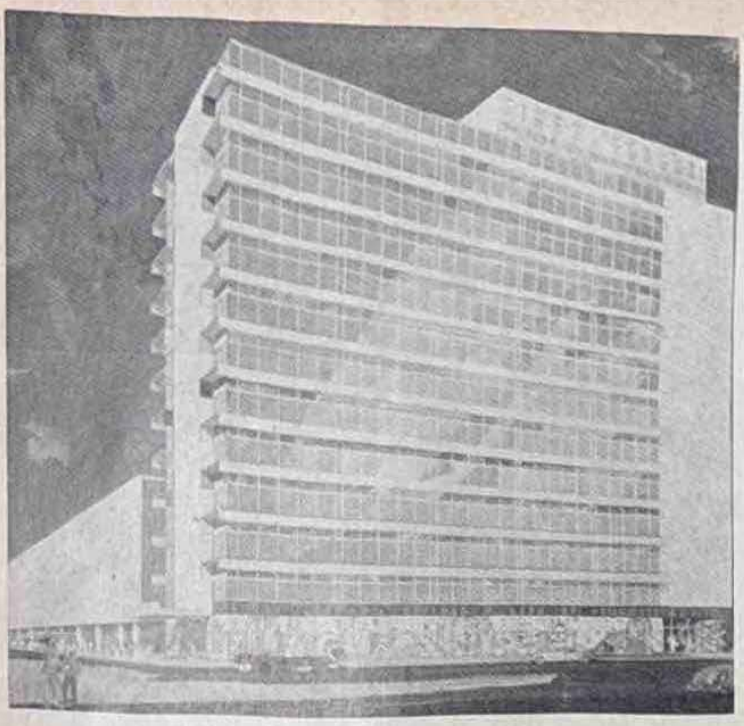
PACIFIC BUILDER AND ENGINEER—1st Saturday each month, $4 one year; $6 two years; $7 three years. Canadian $5, $8, $10. Foreign $6, $10, $13. Single copies 50c.

FOR NORTHWEST BUILDING AND ENGINEERING NEWS EVERY WEEK subscribe to all three (PA&B, PB&E, CNB) $20 one year; $30 two years; $38 three years. FOR FLASH ADVANCE DAILY SERVICE, read Pacific Construction Daily, $75 per year. Rates for U.S. and Alaska.

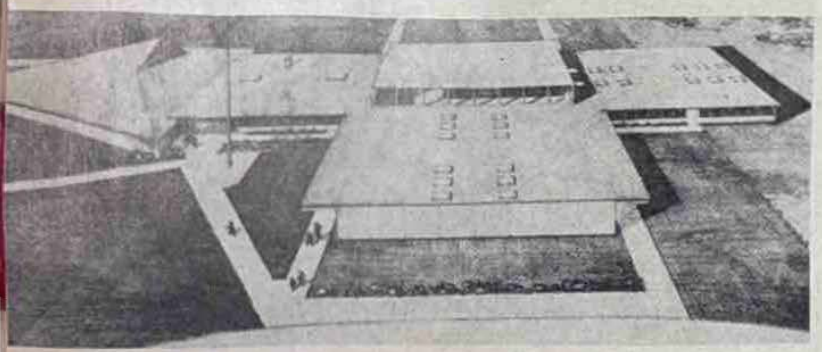
PACIFIC ARCHITECT AND BUILDER is published monthly by Pacific Builder and Engineer, Inc., 2418 Third Ave., Seattle 1, Wash., and is mailed on the third Saturday of each month. Price: $4 per year. Accepted as controlled circulation at Seattle, Wash.

PERSPECTIVES

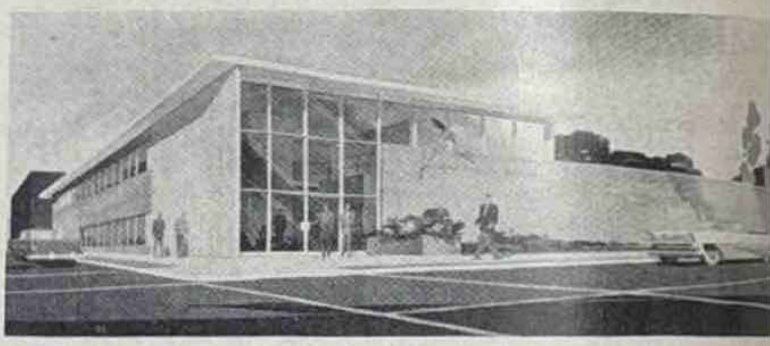
by Pacific architects



HOLLYWOOD CENTER ultimately will include office building, department store and 12-story Hollywood Hotel (not shown), representing investment of more than $10 million. First phase of project will be 12-story office building for First Federal Savings and Loan Association. It will have glass mosaic and aluminum exterior, placing emphasis on light control and color. Court will connect office building with 200,000-sq. ft. department store to accommodate restaurant, banquet rooms and private dining rooms. Entire center is being planned by Austin, Field & Fry, architects-engineers.

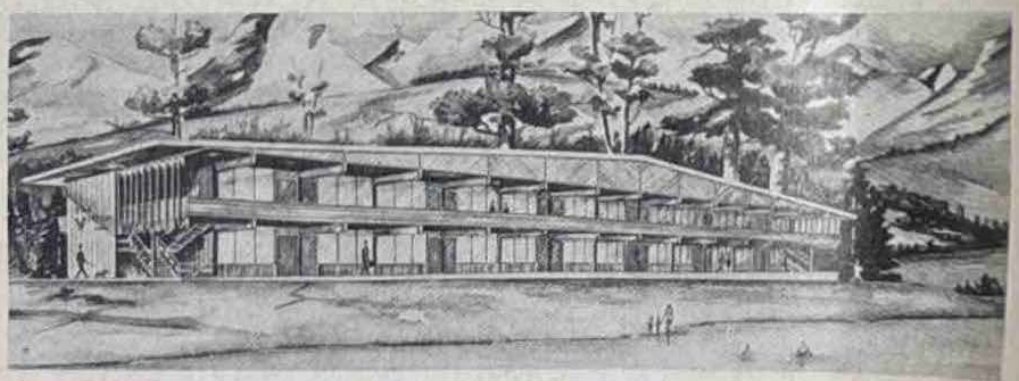


JOHN R. ROGERS ELEMENTARY SCHOOL for Olympia, Wash., is estimated to cost $230,000. Designed by Wohleb & Wohleb, architects-engineers, one-story building will contain 18,624 sq. ft. It will have solid masonry cavity type walls (some block), glued laminated t&g roof, exposed brick or block wall finish with wood trim inside and out. Completion date has been set for this August.



UNIT MASONRY QUITE NATURALLY will be featured in split-level headquarters to be constructed this spring by Mason Trades Building Association in Portland. Lower level will house kitchen, lunchroom, offices and conference room; upper level, hiring hall and offices. Brick fence will hide parking lot, site of future one-story addition. Architect is Holman J. Barnes, AIA.

CHALET TYPE MOTEL will be ready for summer tourists to Glacier National Park. Two-story, 24-unit structure, being built on private land at cost of $110,000, will command view of 10-mi. long Lake McDonald and snow-capped mountains. Richard L. Taylor of Kalispell, Mont., is architect.



Building News - Trends - Views

THE AIA GOLD MEDAL will be presented to Clarence S. Stein, 73-year-old New York architect and internationally known planner, during the 88th annual convention in Los Angeles next month. The award, the institute's highest professional honor, will be formally made at the annual banquet May 17 at which Stein will be principal speaker. Latest of his achievements is direction of planning for the new town of Kitimat in British Columbia, now partially completed on a former wilderness site for the Aluminum Company of Canada. Stein has been a fellow of the AIA since 1934.

Among other presentations to be made during the convention May 15-18 at the Biltmore Hotel will be the Fine Arts Medal to Hildreth Meiere, American mural painter and designer; the Craftsmanship Medal to Harry Bertoia, sculptor, designer and painter; and the Edward C. Kemper Award to Theodore Irving Coe, FAIA, technical secretary at AIA's Washington headquarters.

WEST COAST HOUSING CONSTRUCTION will not be halted because of the use of thinner sheathing boards, according to Norman P. Mason, federal housing administrator. Fears of such a halt arose through a misunderstanding of a difference in measurement of 1-in. boards.

The FHA says that "nominal" 1-in. boards must be at least 25/32-in. thick; the West Coast Lumbermen's Association since March 15 has specified a ¾-in. standard. A committee of the American Lumber Standards Association, which the FHA has always followed, will meet in Chicago April 30 to consider rule changes.

Mason told a Senate banking committee—especially Sen. Wayne Morse (D.-Ore.) who did most of the questioning—that there was no intention by FHA to halt any construction. He said that FHA's Portland, Ore., office "apparently through its choice of words in which to tell the story alarmed the industry."

SAN FRANCISCO'S REDEVELOPMENT AGENCY now has a series of projects totaling nearly $400 million which would tear out most of the dilapidated areas of the city for rebuilding. Most of the jobs, which have been accumulating since the agency was created seven years ago, are still in the planning stage.

MORE THAN 50 U. S. CITIES and communities from coast to coast and as far away as Hawaii and Alaska have launched local-level Operation Home Improvement drives. In Seattle, one of OHI's four pilot cities, R. V. Blackstock, lumber dealer and committee chairman, has announced a tentative budget of $100,000 for his city's campaign, to be underwritten by local businessmen.

STANDARDIZATION AND SIMPLIFICATION of door and window sizes will be undertaken jointly by the NAHB and the Producers' Council. As an initial step the latter group is adding a technical director to its staff to work on this and mutual NAHB-PC programs.

PAPER COVERED, LOW GRADE WOOD shows promise of being a good siding material. Tests made at the Forest Products Laboratory, Madison, Wis., indicate that low grade lumber covered with resin-impregnated paper can also be used for boards for house trim, cabinet partitions, shelving, paneling and signboards. Overlaid planks used as bleachers in the University of Wisconsin's Camp Randall Stadium have come through two football seasons and exposure to winter snows, spring rains and summer heat in as good condition as high grade planks used as a control in this experiment.

PORCELAIN ENAMELERS got these warnings and suggestions from a New York architect recently: keep your costs competitive with masonry construction; develop a panel wall that is not limited in use to a single window system; don't use porcelain enamel as an imitation for other building materials. William B. Tabler, AIA, also advised producers to make their own fire rating tests on their panels.

PLANS FOR A 120-STORY STRUCTURE—18 stories taller than the Empire State Building in New York—have been submitted to the St. Louis County Council by a private company. To cost an estimated $200 million, it would have 18 levels below the ground for parking.

IF BLAST RESISTANCE is considered in the initial design of structures, the area of severe damage to buildings in an atomic assault can be cut as much as 70% "at relatively low cost." But Edward Cohen, an associate of Ammann & Whitney, New York consulting engineers, warns that blast resistance is not the only problem. Occupants saved from death in the blast may die of suffocation and heat in atomic fire storms.

Cohen appeared before a House civil defense subcommittee which heard other testimony indicating that destruction in the explosion of a bomb in the Megaton range will be so great as to make evacuation or dispersal the only defense. (For another comment on this topic see p. 24).

A GROUP OF AMERICAN HOUSEWIVES of middle-income families are in Washington, D.C., this month to help the federal government establish improved design standards of homes. Albert M. Cole, administrator of the Housing and Home Finance Agency, invited 100 women from all parts of the country to share their ideas in housing with him. Some of them were selected on the basis of letters written to the agency and others were nominated by civic and trade organizations.

AN ATOMIC POWER PLANT to serve the San Francisco Bay area will be built by General Electric Co. and Pacific Gas and Electric Co., bringing to 15 the number of civilian atomic plants under construction, in process of design or proposed in the U.S. To be financed by private capital, the project will be located in the Livermore-Pleasanton area of Alameda County, Calif. Plans call for its completion during 1957 at a cost of between $3 and $4 million.

NEARLY EVERY HOME BUILDER who attended a national conference in Washington, D.C., earlier this year plans basic design changes in 1956. Only a few have changed their basic construction materials in the past three years, usually in the use of additional masonry products.

While a few builders had shifted from conventional on-site production to prefabrication, some were shifting back to more conventional methods.

THE ACOUSTICAL MATERIALS ASSOCIATION at its annual meeting in San Francisco's Fairmont Hotel April 5 named Lyle F. Yerges, U. S. Gypsum Co., Chicago, president, succeeding E. S. Graybill, Armstrong Cork Co., Lancaster, Pa. Paul J. Washburn, Johns-Manville Sales Corp., New York, was elected vice president and Wallace Waterfall, New York, was reappointed secretary-treasurer.

A look at urban redevelopment:

REMODELING THE ARCHITECT'S IVORY TOWER

Guest Editor

ROBERT W. EVANS, AIA
Tacoma, Washington



When the Northwest's first Urban Redevelopment Conference was held in Tacoma last month, the Southwest Washington chapter, AIA, was officially represented—and ably so—by one of its younger members and its public relations chairman, Robert W. Evans. It is fitting then that he should develop some of his own ideas on the subject in this month's editorial. A member of Johnston & Evans, Associates, he holds both a BA and MA degree from the University of California.—The Editor.

THE ARCHITECT'S well worn ivory tower has fallen into the same blighted condition as the rundown city in which it stands.

The tower generally is an old and faded landmark, in disrepair and disrepute, its windows on the world small and its occupants' eyes myopic—all due primarily to careless habits of thought employed by the individual architect.

The need for updating our own mental structures is apparent and immediate. Urban redevelopment thus begins here, on our own premises, in our own towers.

We must realize that our ability to plan in three dimensions, to visualize the whole urban problem, to solve it functionally, economically and beautifully is unique. We have our place on the planning team, and while our influence on the quality of proper design in our future urban pattern seems only vaguely tangible to those outside our profession, we know it must be a major contributing factor to the exciting redevelopment of our cities.

But more than realization is required. We must overcome the difficulty of maintaining high-level interest required to bring the full force of our abilities and technical training to bear on the problems. It is necessary to sell the idea of group effort in a scheme which benefits first the community, then its citizens and lastly ourselves.

Full citizen participation then is a first essential in renovating our ivory tower in preparation for the challenging task of community redevelopment.

To recognize the architect's proper status in the task, the community must be shown his understanding of the complex problems of economy and administration as well as his more specific talents. Individually and collectively he must put his weight behind any move toward community development, to create where none is current and to promote the idea in his organizational and social life.

The architect, for the preservation of his city and all its citizens, must involve himself not sporadically but on the basis of full participation as a person concerned with the future of his community. He must seize the opportunity to fulfill his role as an architect in the complete sense.

As an example, architects in Tacoma became sharply aware of their role at an Urban Development Conference sponsored by the AIA in November when Frank Emery Cox addressed architects and civic leaders (see PA&B for December and January). A U.S. Chamber of Commerce team followed up in March, providing a fresh major impetus to a statewide group (report starts on page 18).

Four speakers examined problems in detail, each offering information and presenting a challenge to take further action. It was pointed out that Tacoma's needs, rapid growth, physical problems of blight and rehabilitation are typical—an ideal framework on which to build a long-range urban redevelopment program.

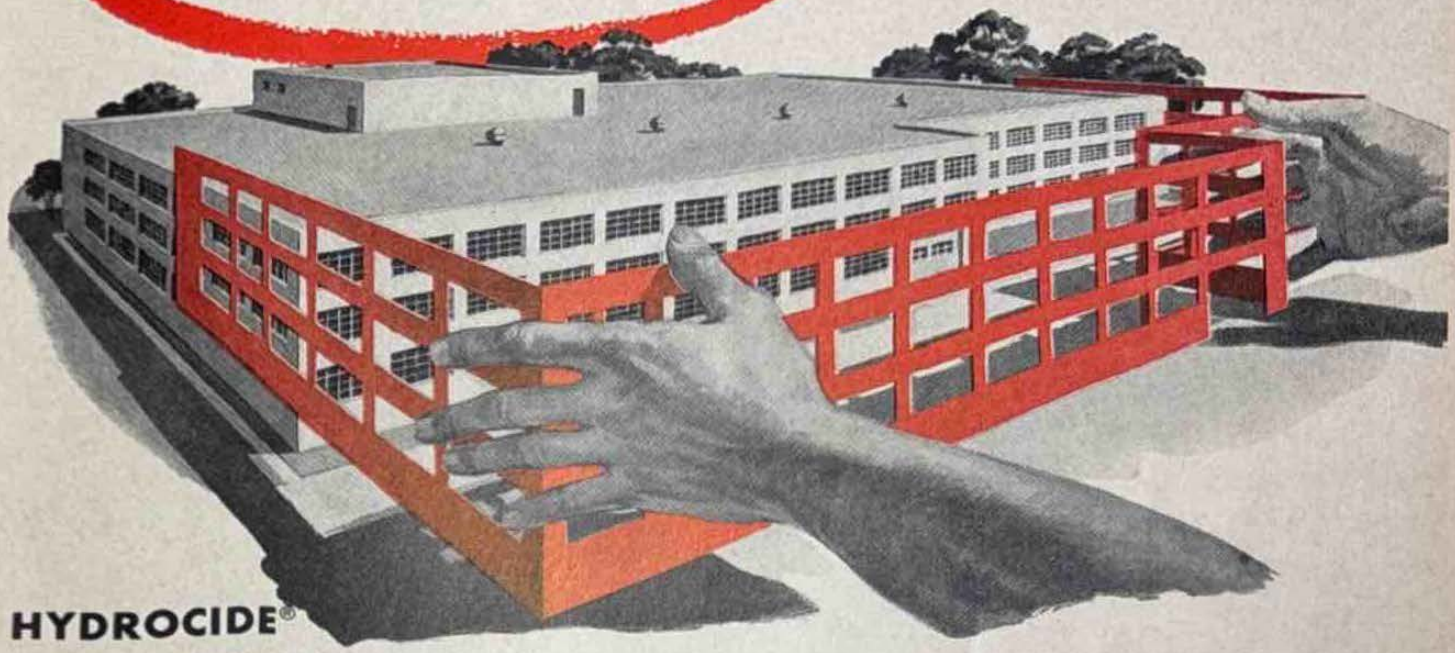
The need for broad, long-range planning by a team of community leaders was stressed by all speakers. The highly complex business of formulating and executing our plans was dramatically and completely presented.

Reaction to the conference was one of unbridled enthusiasm. Here was the challenge, so rewarding that it is difficult to visualize the total beneficial effect on even the one city of Tacoma. And the challenge can be multiplied by the number of communities in the Northwest and on the Pacific Coast and across the whole nation.

We must equip ourselves with new bifocals or binoculars to improve our professional vision and install new sash in our ivory towers to permit the long-range, overall view of our problems. We must provide the equivalents of parking at the tower bases and elevators within them to permit our fellow citizens easy access to our thought and to permit us to move out to close contact with them as active citizens of our community. We must equip ourselves with the latest communication devices and teaching aids to increase the understanding between us and our fellow urban development team members.

Our remodeling must begin at once, must be full scale and long range in nature and no personal expense must be spared to make ourselves and our towers patterns and guides for the redevelopment of our cities.

PROTECT BUILDINGS WITH THIS ALL-WEATHER COAT!



HYDROCIDE®

COLORCOAT

*Pat. pending

A ONE-COAT, WATER-REPELLENT MASONRY FINISH

Just one coat of this resin-base masonry finish decorates, protects and makes most exterior walls water-repellent. The extra thickness of Colorcoat gives extra hiding power and extra weather resistance.

Colorcoat's decorative, textured finish increases the value of buildings old or new. Its toughness and long life cut maintenance costs. Colorcoat is applied by either brush or spray—to stucco, brick, concrete, block construction, and asbestos cement shingles.

- Contains Silicone to impart water-repellency
- Uniquely formulated* to eliminate chalking, flaking and peeling
- Bridges hairline cracks and pores
- Permits walls to "breathe"—reducing possible internal condensation
- Can be applied over surfaces previously painted with either oil or water-base coatings
- Bonds two ways—by adhesion of its resin base, and gripping action of reinforcing agents
- Gives lasting protection, plus a colorful, textured finish

A Product of **Sonneborn** RESEARCH

Since 1903 manufacturers of quality building products.

Makers of LAPIDOLITH CONCRETE HARDENER
HYDROCIDE S·X COLORLESS · HYDROCIDE DAMPPROOFINGS



IN 10 BEAUTIFUL COLORS! *Mint Green, Desert Tan, White, Concrete Gray, Slate Gray, Tile Red, Old Ivory, Ranch Rose, Cloud Gray, Canyon Tan*

MAIL COUPON FOR MORE FACTS!

L. SONNEBORN SONS, INC.
Building Products Division—Dept. P4
4821 S. Vermont Ave., Los Angeles 37, Cal.

☐ I would like full information on how Colorcoat saves maintenance costs on old or new buildings.

☐ I would like your Building Construction and Maintenance Handbook with 125 pages of important information.

Name.....Title.....

Company Name.....

Address.....

City.....Zone....State.....

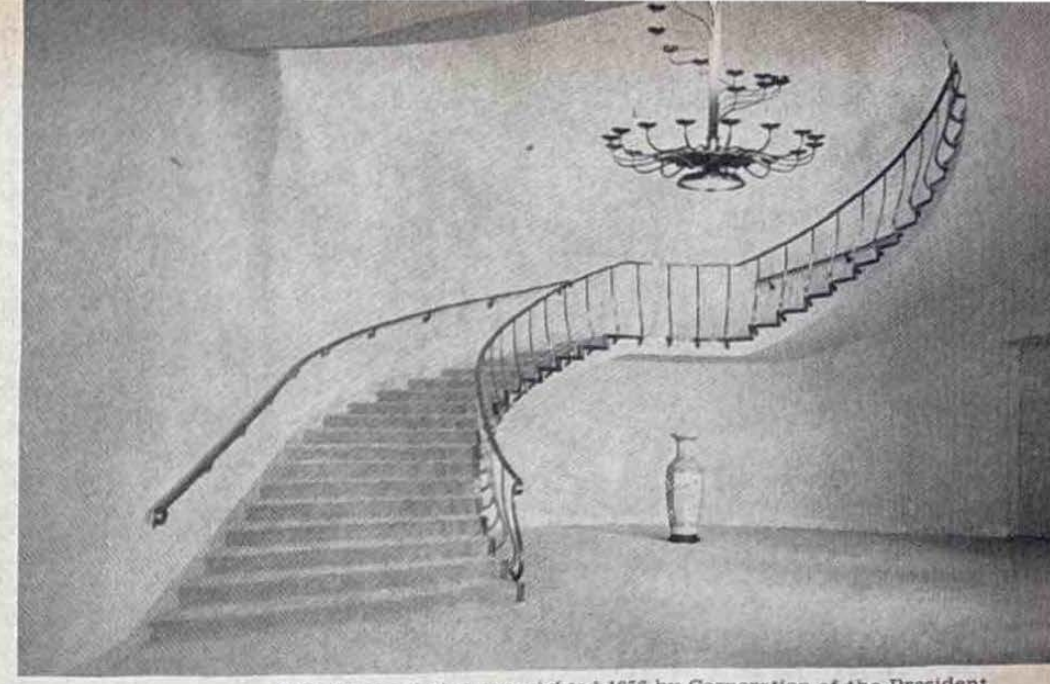
The Mormons' largest temple



DWARFING WORKMAN, Angel Moroni is 15-ft., 2,100-lb. cast aluminum statue atop tower which is visible to ships 25 mi. to sea.

". . . in the process of time the shores of the Pacific may yet be overlooked from the temple of the Lord."

—A message from Brigham Young in August 1847.



SPIRAL STAIRCASE is indicative of beauty and simplicity of temple construction and its furnishings. Chandelier, which hangs from ceiling of floor above, further carries out spiral effect.

CHAPEL, with sculptured ceiling, upholstered pews, floor-to-ceiling drapes and soft lighting, follows temple decor of quiet, subdued tones.



All interior photos copyrighted 1956 by Corporation of the President of the Church of Jesus Christ of Latter-day Saints. Reproduction expressly prohibited.

HOW DOES ONE begin to describe a $4 million Mormon temple? The eight photographs on these three pages and the nighttime scene on the cover only hint at the story of the twelfth and largest temple ever built by the Church of Jesus Christ of Latter-day Saints.

After 3½ years of architectural planning and another 3½ years of construction, the reinforced concrete structure was dedicated last month. Just five miles from the Pacific Ocean, the temple stands on a hilltop site purchased from Harold Lloyd in 1937. Its tower, topped by the cast aluminum statue of the Angel Moroni, is visible to ships 25 miles at sea. The building is the second tallest in the Los Angeles area.

The exterior of Mo-Sai stone of crushed quartz and white cement is enhanced at night by its lighted windows laced with grilles. Stately doors open onto a pool in front of the temple facing Santa Monica Boulevard. The water is maintained to a depth of 18 in., reflecting architectural details in varied hues of blues and greens. Two massive fountains also grace the structure.

Inside, the temple is tastefully decorated and furnished: modern but not extreme, rich but not extravagant, colorful but not obtrusive. Murals depict the entire tableaux of the creation; a baptismal font is supported by 12 oxen; and the 90 rooms include a cafeteria to serve members who are working in the building.

The 190,014 sq. ft. of floor space produces a massiveness about the entire structure. Yet there is a feeling of solitude in the ordinance rooms, of peace and reverence in the chapel. The latter has special earphone outlets for the hard of hearing and a templewide sound system enables music to be sent to all or any rooms.

The landscaping job, accomplished long before construction was completed, is in itself phenomenal. The four acres of lawn are dotted with 12 species of transplanted trees and a variety of ornamental plants and shrubs; 22 specimen olive trees line the main walks. Some of the sandstone blocks used for landscaping terraces weigh several tons.

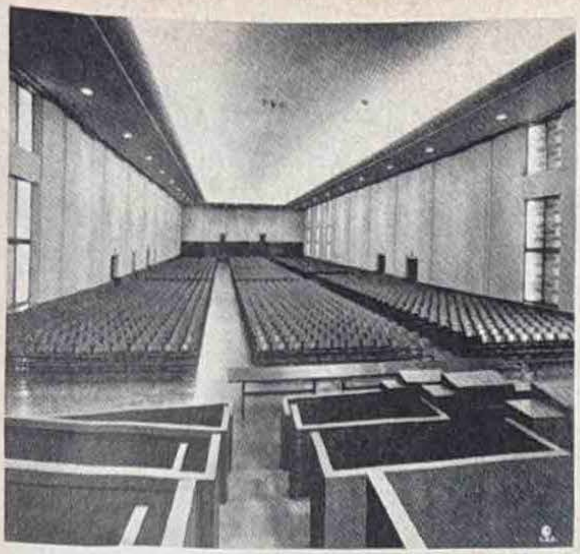
Prior to the dedication, more than 600,000 visitors were escorted through most of the 90 rooms. But like all LDS temples in use, it is now closed except to qualified church members.

Mormon Temple
Los Angeles, California

EDWARD O. ANDERSON, AIA
Architect

KLASS BROS.
ALFRED A. LIPPOLD
Decorators

SOREN N. JACOBSEN
General Contractor



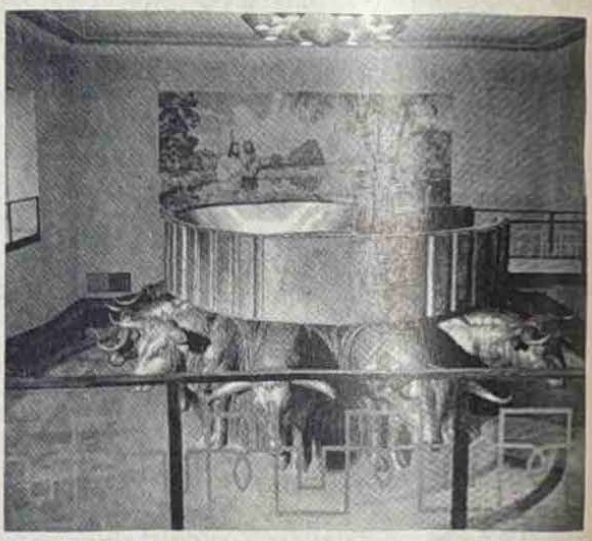
ASSEMBLY ROOM—Located on third floor, this 257-ft.-long room is largest in temple. It seats 2,600 and will be used for special gatherings.



MATCHED FURNISHINGS—Subdued murals blend with rich furnishings. Thick carpeting was especially designed.



MASSIVE MURAL—Scenes suggesting scriptural account of creation of world extend 360 deg. around this room except for entrance and exit. Artist is Harris Weberg of San Francisco.



BAPTISMAL FONT—Stainless steel font rests on backs of 12 bronze oxen as seen in ancient temple of Solomon. Oxen were sculptured in Salt Lake City by Millard Malin, cast in New York, shipped to coast.

Los Angeles Mormon Temple Data

Location: Atop hill at 10741 Santa Monica Blvd., Los Angeles (Westwood Village).

Type of Construction: Reinforced concrete and structural steel, fireproof and quake resistant. Exterior covered with 146,000 sq. ft. of Mo-Sai stone of crushed quartz and white Portland cement; each stone is 2½-in. thick and 8x7 ft., weighing about 1,600 lb. and fastened to concrete wall with bolts and concrete grout. Exterior Rockville granite base from Cold Springs, Minn.; marble for temple annex base, first floor, grand stairway, altars and Bureau of Information from Vermont, Tennessee, Italy and France.

Area: 90 rooms totaling 190,014 sq. ft. of floor space or 4½ acres (7,412 sq. yd. carpeted). Width, temple front at annex, 364 ft.; depth, 241 ft. 6 in.; height (including tower), 257 ft. 8½ in. above first floor; height of roof above first floor, 106 ft.; height of tower above roof, 151 ft. 8½ in.

Cost: Temple building about $4 million; entire plant, including four auxiliary buildings, about $6 million.

Building Schedule: 25-acre site (temple and grounds occupy 13 acres) dedicated September 1951; excavation started August 1952; cornerstone laid December 1953; temple completed December 1955.

Auxiliary Buildings: Bureau of Information (160x78 ft.) built in 1953-54; heating plant, 1953-54; California Mission home, 1952-53; Westwood Ward Chapel, 1952.

Statue atop Tower: Sculpture of Angel Moroni, one of dominant characters of Book of Mormon, executed in gold-leaf cast aluminum by Millard F. Malin of Salt Lake City. Height 15 ft. 5½ in.; weight, 2,100 lb.; length of trumpet, 8 ft.

Artists for Interior Murals: Joseph C. Gibby, Los Angeles; Harris Weberg, San Francisco; Edward T. Grigware, Cody, Wyo.; Robert L. Shepherd, Salt Lake City.

Rank in Church: Twelfth and largest. Other temples at Kirtland, Ohio, dedicated 1936; Nauvoo, Ill., 1846; St. George, Utah, 1877; Logan, Utah, 1884; Manti, Utah, 1888; Salt Lake City, 1893; Laie, Hawaii, 1919; Cardston, Alberta, 1923; Mesa, Ariz., 1927; Idaho Falls, Idaho, 1945; Bern, Switzerland, 1955. Temples under construction at Newchapel, Surrey, England, and Hamilton, N. Z.



© J. H. Baxter & Co., 1956

BAXCO POLES

CHEMONITED

FOR POLE FRAME CONSTRUCTION

"Used to take me 3 hours, Babe, to build a new mess hall." The Blue Ox looked wide-eyed as Paul Bunyan set the first pole in the ground, bracing it with his little finger. "But with this here newfangled pole-frame construction, Babe, I done the job in jest 20 minutes * . . . Like the Baxter man in Frisco says, the pole-frame way shore saves a lotta time and money...and with Chemonited poles she'll never rot."

* 20 minutes?!! Paul, you're off your rocker...However, it is true that even mere mortals can complete large structures—warehouses, canneries, etc.—in a matter of weeks, instead of months, by this revolutionary new construction method. This is possible because no foundations are required, and framing is simplicity itself: Poles are set directly into the ground. More astounding is the cost factor—as low as $1.00 per square foot. And when poles are Chemonited (pressure-treated) against decay, the rigid frame structure is permanent, rock-solid.

Before you build, consult BAXCO engineering service for help with your plans. Learn why BAXCO Chemonited poles—clean, odorless, economical—are preferred by pole-frame builders. Your inquiry will receive prompt attention.

J. H. BAXTER & CO. *120 Montgomery Street, San Francisco 4, California*

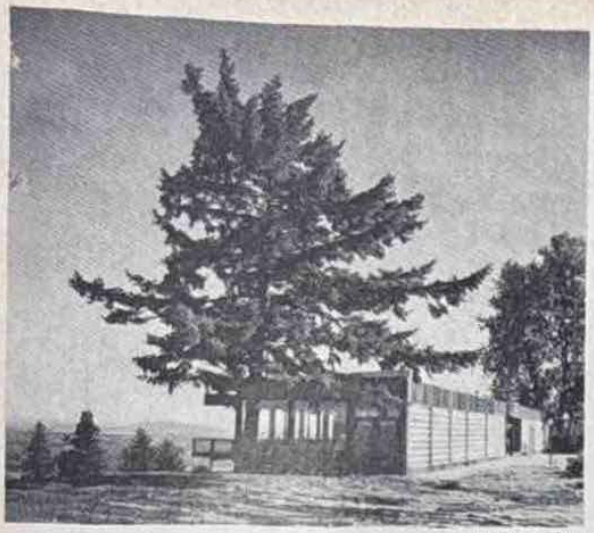


Photo Art

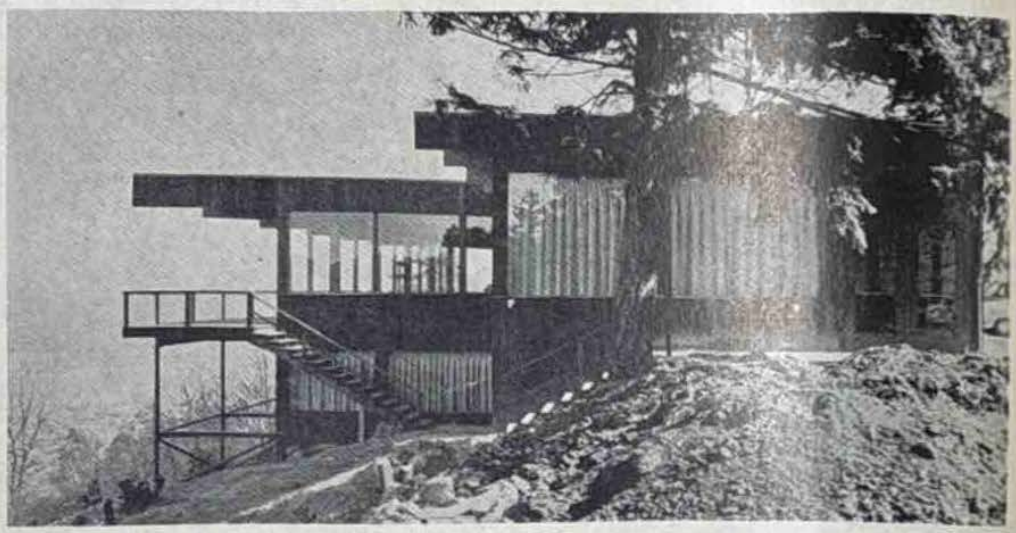
Hilltop haven for diners: a Northwest expression

Palaske's Hillvilla Restaurant
Portland, Oregon

ROBERT K. GRUBB
Designer

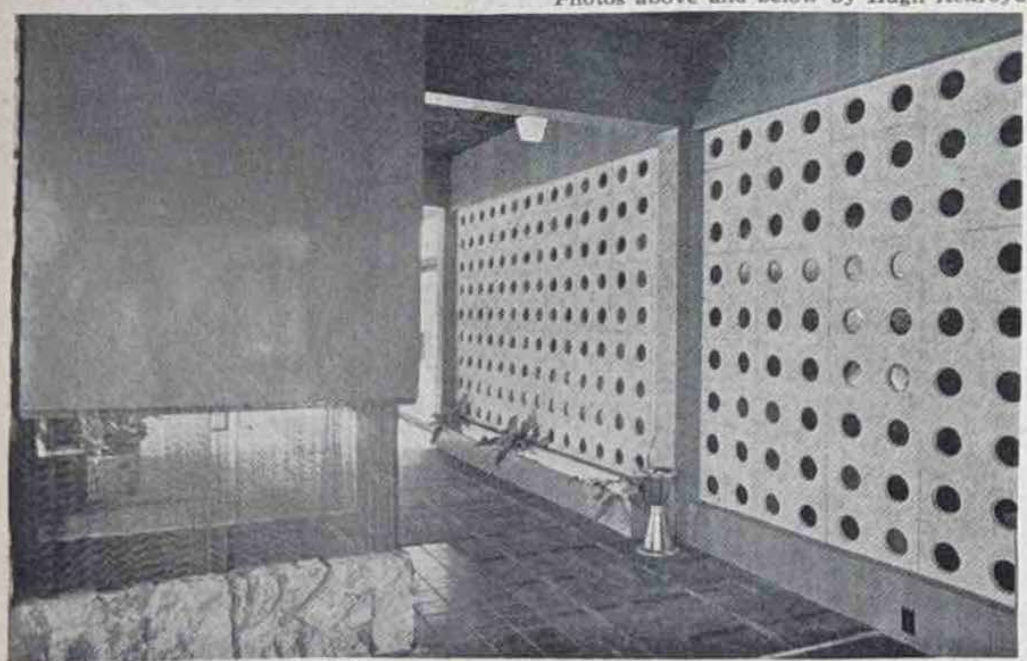
ROBERT TIDBALL
Structural Engineer

A. B. TAYLOR
General Contractor



CANTED ROOF thrusts out from slope, pointing to view beyond. Front wall of cast stone is inset with panes of circular glass. Fireplace divides banquet room from main entry.

Photos above and below by Hugh Ackroyd



A TWISTING, wooded road leads up to Terwilliger Heights, a quiet residential area far from the noise and bustle of downtown Portland, and to one of its most dramatic sites.

Here can be seen a sweeping view of the city, the Willamette River winding its course 900 ft. below and the ever-changing character of the snow-capped peaks of the Pacific Northwest: Washington's Mount Adams and Mount Rainier and Oregon's Mount Jefferson, Mount St. Helen's and Mount Hood, a mere 45 mi. away.

For 15 years Eddie Palaske dreamt of transforming the box-like lines of the old Simmons Hillvilla—long famous for its fine menu—into a structure truly expressive of this region. The designer's main task then was to plan a restaurant that would match the panorama.

Much of the old building — perched on the hillside—was torn down because of a local ordinance but the location and outline had to remain virtually unchanged. A new supporting steel structure was erected on new footings for safety reasons.

Space was given foremost consideration in the design. Dining rooms command a generous view through the use of maximum glass areas. Laminated wood beams have kept the upper dining room free of columns; aisles are a minimum of from 5 to 8 ft. throughout. A 100-ft. porch opens off the dining room.

Warmth has been attained with native cedar in natural finish, copper, a massive fireplace and considerable planting. Paneled walls are relieved by rugged stonework partitions and half walls. A staircase highlighted by a custom-designed chandelier leads to the lounge and seafood bar on the lower level where the same unobstructed view is enjoyed.

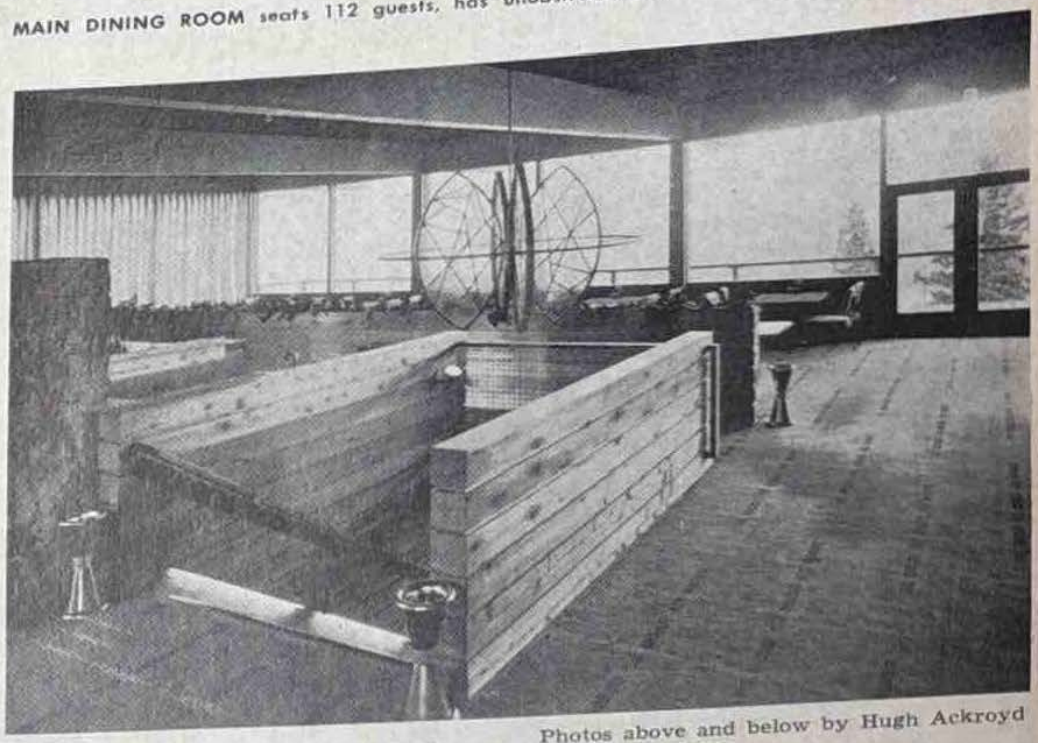
The fireplace, fixtures (tables, chairs and bars), draperies and carpeting all were executed by the Hillvilla's designer, as was an entry waterfall of stone with recirculating pool which backs the service bar to the main dining area.

A change of pace is offered in the front wall of cast stone with its insets of art glass: reds, yellows and oranges adding a colorful bit of fancy. But in the final analysis the dark stained cedar exterior is a fitting counterpart to the fir forested hillside.



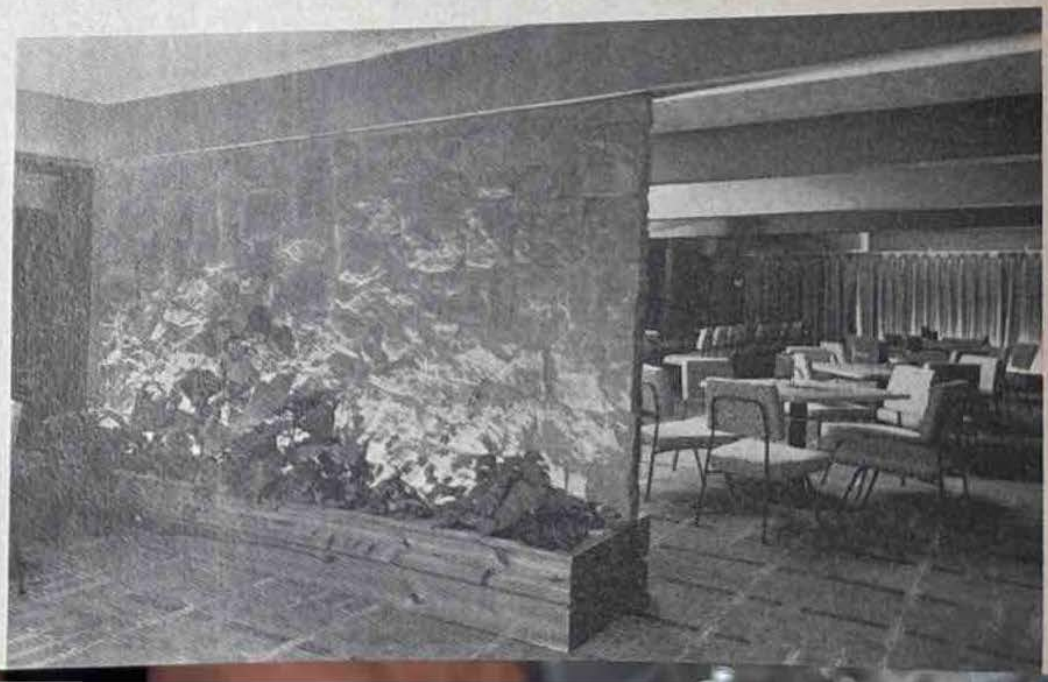
Photo Art

MAIN DINING ROOM seats 112 guests, has unobstructed view of city, river and mountains.



Photos above and below by Hugh Ackroyd

MODERNISTIC CHANDELIER is by Sam Nichols. At foot of staircase is stone partition and planting which helps break up large lounge area and seafood bar seating 75.



OUTLINE SPECIFICATIONS

Type of Construction: Frame, concrete and steel on reinforced concrete footings.

Exterior Walls: Frame; poured concrete, lower level.

Exterior Finish: Stained rough sawn cedar and custom-designed cast stone blocks with art glass insets.

Windows: Wood frame.

Doors: Glass in wood frame, exterior; flush wood, interior.

Floors: Frame and concrete slab.

Floor Finish: Carpeting over plywood in main dining room; quarry tile in entry; vinyl cork in banquet room; vinyl tile in kitchen.

Interior Walls: Frame, drywall and plaster partitions with planed cedar and Oswego field stone.

Ceilings: Thermacoustic mineral fiber.

Heating: Gas fired furnace.

Total Area: 4,059 sq. ft., upper level; 3,306 sq. ft., lower.

Total Cost: $89,178, construction only; $42,099, furnishings and fittings.

Cost per Square Foot: $12.11, construction only.

Date of Completion: April 1955.



Photos by Julius Shulman

CLERESTORY WINDOWS along front elevation are shielded from direct rays of sun by horizontal louvered grilles. (NAHB jury felt they detract from design's overall simplicity.) Kitchen is hub of house.



Builder House for Midland Properties
La Mirada and Fullerton, California

PALMER & KRISEL, Architects

House divided—for comfort

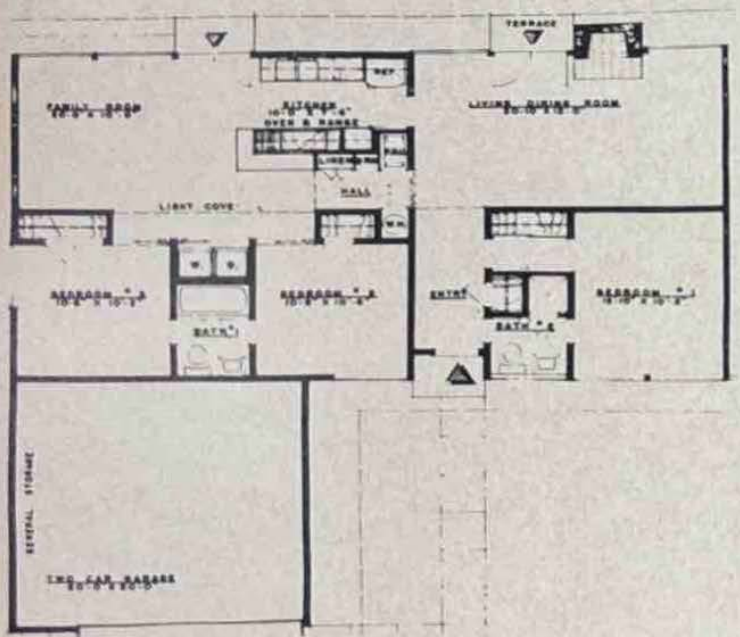
A HOUSE DIVIDED against itself, the Bible tells us, cannot stand. But a house divided for itself—and for the comfort and convenience of the family that inhabits it—should contribute toward a happier home.

This frame model, which won a 1956 Design Merit Award of the National Association of Home Builders, is such a house divided. The floor plan apportions the space almost equally into two general zones, one for the parents and one for the children, each with its own living, sleeping and dining areas as well as its own entrance and terrace. The result is to provide a remarkable degree of privacy for every member of the household when it is required and still allow the family to spend its leisure hours together by simply opening up the entire rear half of the house into one large living-dining-recreation area.

Hub of the house is the kitchen which commands a view of all the living areas, inside and out, and is so arranged that it can serve with equal ease the dining area of the living room or the food bar in the family room. Even the washer and dryer are only a few steps away, concealed behind accordian-fold doors.

The versatile family room becomes either a playroom, informal dining room, workroom or den, depending upon the requirements of the moment; and the living room, relieved of having to fulfill any function but its own, can maintain its character as an uncluttered retreat for the grown-ups.

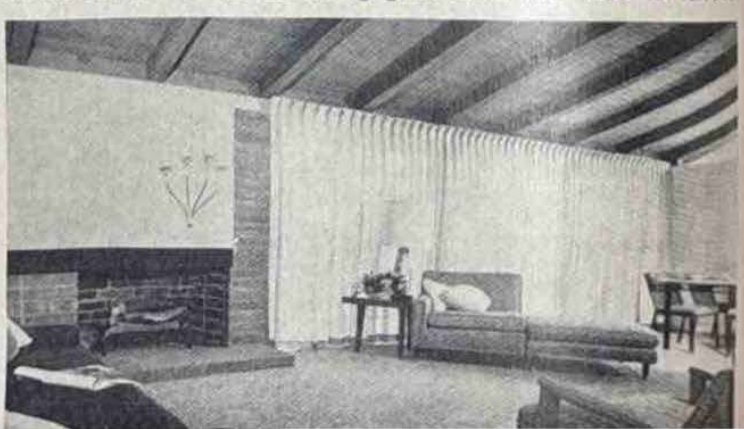
Open beam ceilings, wood sheathing, floor-to-ceiling windows and sliding glass doors communicate a sense of light and spaciousness throughout the entire house, with gabled glass and ribbon windows utilized elsewhere to offer still more daylighting without reducing wall space to the point where it would interfere with furnishings.

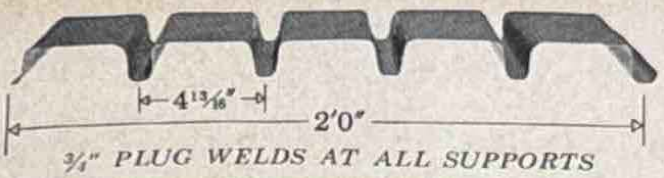


OUTLINE SPECIFICATIONS

Type of Construction: Frame; one-story, 26x48 ft.
Exterior Walls: Stucco and painted wood siding.
Roof: Gabled; three layers of 15-lb. felt hot mopped in-between with 40-lb. flood coat to receive white crushed rock surface.
Floors: Concrete slab with asphalt tile finish.
Windows: Aluminum siding.
Doors: Hardwood, hollow core, flush slab.
Ceilings: Wood sheathing between exposed beams.
Interior Partitions: Drywall.
Built-ins: Range, oven, garbage disposal.
Heating: 75,000 Btu forced air.
Total Area: 1,246 sq. ft. (excluding garage).
Total Cost: $12,500 (excluding lot but including garage).
Date of Completion: October 1955.

LIVING-DINING ROOM has sliding glass doors that lead to terrace.





¾" PLUG WELDS AT ALL SUPPORTS

Notice the Widman section is distinguished by a fifth rib. The extra rib increases the section modulus. Widman makes 18 and 20 gauge decking of high-quality United States Steel sheets.



TYPICAL SIDELAP



Steel roof decking saves framing and insulation costs

Here's a perspective on 46,600 square feet of roof decking, fabricated and recently erected by George D. Widman, Inc., of Gardena, California. Formed from USS steel coils, the two-foot-wide sections were laid in 22 and 28 foot lengths. Steel decking (20 gauge) was selected for the job to allow greater load-bearing capacity and important construction economies.

These 5-rib steel sections have the required strength to span greater distances and thus eliminate considerable amounts of framing. And the one-inch space between the ribs (narrower than usual) reduces thickness of insulation over open spaces. The incomparable strength of steel makes it ideal for roof decking. To obtain the same strength from other materials, weight would have to be greatly increased . . . and with it the cost.

If you would like additional information and specifications on the use of steel roof decking both for commercial or *residential* construction, we will be happy to put you in touch with United States Steel customers here in the West who fabricate roof decking.

USS Steel Sheets

United States Steel Corporation · Columbia-Geneva Steel Division
120 Montgomery Street, San Francisco 6

USS

UNITED STATES STEEL



- Northwest's Urban Development Conference
- Victor Gruen's plan for a city center
- Life in a traffic jam as seen by a New Yorker

Whither urban (re)development?



Photo by Robert Rudsit

TACOMA'S SKYLINE at night.

Henry van Loon, AIA, has combined his training as an architect—at Columbia University and later at Amsterdam, Holland—with economics to form a background for the economic study of cities. His numerous projects include helping to prepare recommendations for the economic recovery of West Berlin in 1952. Founder and president of City Guidance, Inc., he also is associated with U.S. Economics Corp., a research organization.

Anyone who watches the rapid increase in the population of the United States and the way this population is becoming concentrated in urban centers, realizes that the problem of urban development is going to become more difficult in the near future. Cities will actually become more competitive and the impact on individuals will be severe.

The city which successfully surmounts the obstacles which are certain to develop in its path must have a very careful plan and this plan must be concerned not only with what is happening in the community, but also with the forces that are playing upon the community outside.

No city today can be sure of its place in the national picture until it knows its relationship to the national and even the international influences. Until it has determined this potential, the city cannot be sure of its needs for future development and cannot determine the proper course of action for its greatest progress.

Once a city has done this kind of broad planning, it has before it a clear course of action to pursue for

Continued on next page

Editor's note

MISSION ACCOMPLISHED. That was the consensus of delegates to the two-day Urban Redevelopment Conference in Tacoma last month, one of the first such sessions on the West Coast and the only one of its kind scheduled to be held in the Northwest this year.

Its mission was to take a first-hand look at the city's own needs and to tell its neighbors how to effectively organize and carry out the work of urban development. Among the participants—close to 200 the first day and 150 the second—were groups and individuals from scores of western Washington communities.

They discovered that Tacoma's problems are pretty much the same as those that confront any metropolitan area. An eavesdropper from Portland or Boise or San Francisco surely would have remarked "I've heard that song before" when the chief issues were discussed—blighted downtown sections, inadequate sewage facilities on fringe areas, an ailing transit system, lack of parking pace, taxation, lack of cooperation between various elements which should be working to make it a better city.

The U. S. Chamber of Commerce co-sponsored the conference with the local chamber. Excerpts from the talks of three of the former's urban development team—an architect-city guidance consultant, a municipal government specialist and a real estate consultant—begin in the adjacent column.

Conference moderator was James F. Steiner, a graduate of Washington State College who joined the national chamber's Washington, D. C., staff in 1953. He commented that his organization has held 22 workshops in various cities during the past five years with 1,100 communities represented. Steiner emphasized that the manner in which urban problems are being solved elsewhere can be of use in Tacoma and vice versa.

The local speakers made up an interesting cross-section. Robert W. Evans represented the Southwest Washington chapter, AIA, whose total delegation numbered 15. Some of his viewpoints on the subject are found in this month's guest editorial (p. 8). Others were Gerrit Vander Ende, president of Pacific First Savings and Loan Association; Marshall McCormick, legal council for the City of Tacoma; L. P. Staman, director of Tacoma City Light; C. M. Johnson, president of Washington Steel Products, Inc.; and Cecil C. Cavanaugh of Cavanaugh Lumber Co.

It is not our purpose here to completely review the proceedings, for many of their ramifications would be of local interest only. Suffice to say that recommendations were made to appoint a 24-member urban development team and to study a proposed local housing code.

Meanwhile, a bit later last month Los Angeles architect Victor Gruen, AIA, was attracting national attention with his blueprint for a Greater Fort Worth (p. 21).

And in a recent address at Cooper Union, a leading architect and widely recognized authority of city planning recommended a plan to end business-throttling traffic jams (p. 22). Morris Ketchum Jr., FAIA, urged redevelopment of New York City into complete self-sufficient neighborhood units which would be linked with the already existing arterial highway system.

Urban (re)development, it would seem, is far from an idle phrase in 1956.

the development of its opportunities and for the creation of the conditions which are most conducive to freedom and opportunity for its citizens.

This idea—of attempting to understand our community—brings us to a series of thoughts on economic research and analysis.

We can identify two main historical phases of research applied to the examination of cities—the city **standing**, the city **moving**. A new phase is the concept of the city **living**.

The City Standing

The static economic research of a few decades back examined the city standing in a static condition. The information gathering process was slow and the data was incomplete. Research was essentially a documenting of economic history. On this basis an observer might have examined the market for buggy whips in 1900, found it good, and concluded that buggy whips would sell well in 1950.

The City Moving

The dynamic economics of a few years later watched the nation moving. It could detect trends. A researcher of that day might have observed that the market for buggy whips was declining and the accelerator pedal and carburetor market was growing.

The City Living

The community research methods that are now possible for use in city guidance watch the economic unit —the city—living because this is the true picture of a city. It is a living, changing, integrated group of people in an environment reacting to the many exterior forces that are constantly in motion.

This is more than just a market analysis, and more than the concept of the city moving.

City guidance involves economic factors plus the impacts of technological change, legal and social elements which affect communities. City guidance would relate the market for accelerator pedals to the market for highway construction, new schools and downtown parking facilities. This is the type of analysis which cities need to help their leaders understand how to solve the many problems of growth and change.

Method for Analysis

Now let me outline the process for making a city guidance analysis.

National Trends Analysis: We begin with the analysis of the national trends in each type of industry. What are the earnings in relation to investment? What is the relation of output to wages; market costs to sales?

In this process of establishing trends, some significant information begins to come out. We see whether our local manufacturer is keeping pace with its national counterparts in production and we also uncover information as to whether the industry is maintaining the internal relationships that mean a healthy industry.

Local Industries Related to National Trends: Next, we analyze the principal local industries—the main sources of jobs for the community.

We determine how the local industries stack up with comparable industries in other communities. Is the local industry growing as fast as similar industries elsewhere? What are the reasons for any differences found?

Technological Influences: Technological changes are the next area of inquiry. Materials and processes used are affected by technological changes. We examine all local industries to determine whether any new or pending technological developments are likely to increase or decrease the volume of products made locally.

Changing Materials Sources and Market Areas: Any significant change in the source of materials is related to the cost of the finished product. The trends in the economies of the market in which the local industries sell are examined for indications of capacity to consume more locally produced products or any factors that would reduce sales.

Availability of Labor: The labor portion of the production team is evaluated to determine the capacity to improve its skills.

Power, Transportation: The sources of power and the facilities for transportation are related to the industries they serve.

Community Factors in Industrial Growth: The influence of community laws and the adequacy of public facilities are evaluated for their favorable or unfavorable effect on industrial growth. Is the city a good place to live? Are the schools adequate? Is the right type of housing available for the labor force? Is blight a serious problem? What is being done about it? What is the municipal tax picture? Does it encourage or discourage industry and home ownership?

This city guidance data can be converted into information which will accurately indicate what your city can expect in terms of need for industrial space, number and kinds of new jobs produced, need for retail and wholesale space, sales volume, housing accommodations, schools, etc.

Frederick J. Bashaw entered the real estate business in Providence, R.I., in 1925 and later received his law degree. His most active nationwide activity is his real estate sales conferences and lectures for which he has developed a library of more than 8,000 color slides. He is producer of the colored motion picture, "The Dynamic American City."

A matter of pressing concern in recent years has been the density of American cities. As a people we have become anxious and disturbed about urban density that is so prevalent everywhere. We have come to think of it as a repugnant form of obsolescence that deters us in our pursuit for an ever higher standard of living. At times we have even gone so far as to lose faith in our cities.

The average basic American city lot is 20 ft. wide wherever located and this fact underscores our urban problems everywhere. The reason for this is simple but often overlooked. Again we must look to the cause as founded in transportation limitations.

The horse, and his limitations, dictated the basic nature of our urban development. Millions of Americans can well remember the horse; our memories tend to be short as we feel the impact of the automobile.

However, it is vitally important today that we think of density not as something of which we should be ashamed but rather a fact of growth that was utterly essential because of transportation limitations. One thing is certain: we never worried about land density during the horse and buggy period. There was no alternative.

Within the very lives of most living Americans our land economy has been struck by the impact of two forces that have revolutionized land use. They are the electrification and motorization of our land economy. They go hand in hand, and to say that they have revolutionized land use is to put it mildly.

We all know what has happened. Responding to the allurement of open space and technology, millions have fled the cities. The movement has been so fast that we have all but reached a point of despair concerning the plight of some metropolitan areas.

There is more to life, however, than open space. Somehow, in the shifting of peoples, we have lost sight of the fact that many of our most important amenities are to be found in our existing urban centers. Medical services, churches, schools, parks, abundant shopping inventories, a multitude of conveniences and other benefits of a good life have often been sold short

by a restless people.

Moreover our pursuit for open space has often been illusory. Inflationary costs of land development have more often than not put us in a position where suburban density is almost the same as urban.

Already we are finding many people revaluing the amenities of urban life and actually there is an ever-growing trend toward centralizing again.

Without question, we shall see a continued expansion into new areas but just as certainly we shall also see a redevelopment of the old. In tackling the existing urban problems we have a great two-fold task.

1. We must labor to accommodate our automobiles.
2. We must make every effort to restore residential allurement to our cities.

We are making real strides in this direction but the challenge is great. Urgently needed is a united front of enlightened people and energetic leaders to move forward together toward full solution. In the last analysis, all the major problems of our cities can be resolved if our attitudes toward cities as a way of life become positive.

Parking, public transit, housing, downtown shopping areas and other problems of the day are not each separate unto themselves. They are collective problems wrapped up in our popular estimation of urban value as a way of life.

There are sufficient evidences of strong trends in America that augur well for the future of our cities and the solution of urban problems. This movement will grow ever stronger to the extent that we appraise rather than dispraise the real benefits of urban life.

S. Howard Evans trained in the East to become a city manager. During World War II he directed the government requirements division of the War Production Board. Joining the staff of the Housing and Home Finance Agency in 1950, he now is director of the urban renewal service branch of the Urban Renewal Administration.

The reason that the federal government has been injected into the problem of urban renewal is that most of our cities are facing bankruptcy. They do not have the money with which to renew old and worn out parts of the cities. As a result, they cannot stop deterioration and prevent the loss of further tax revenues.

The federal government has been concerned about this problem for a considerable period of time and it has been concerned by the necessity of having citizens as well as public officials understand the nature of it and what needs to be done about it. Congress, in making federal funds available, has insisted that the responsibility for the program is primarily local and that before any extensive federal funds can be made available, the city has to face up to its total problem and to formulate a program for dealing with its slums and blight.

Philosophy of Program

Now let me give you the background to the urban renewal idea. Here is the philosophy of the broad citizen, business, labor and government group that put the urban renewal concept into the Housing Act of 1954. They said, (and this is the direct quotation from the report of the President's Advisory Committee on Government Housing Policies and Programs):

> What we hope we are doing is to help the cities help themselves. By clearing slums, removing blight and checking the deterioration cycle, cities should be able to increase municipal revenues at the same time they are reducing the demand for services. In short, we are trying to establish the urban renewal process on an orderly basis so that over the long pull we will establish healthy cities with reduced requirements for the federal aid which we now find mandatory.
>
> But the job will be neither cheap nor easy. There is no simple dramatic solution. There must be well planned and well organized action, using all the tools of slum prevention, physical rehabilitation, neighborhood conservation and slum clearance. No one tool will do the job. Each is absolutely essential to the effectiveness of the other.
>
> There is no justification for federal assistance except to cities which will face up to the whole process of urban decay and undertake long range programs.

The federal aid machinery was then set up to help the cities help themselves. This meant that a city must necessarily face up to the total problem of their slums and blight.

Workable Program Concept

Thus, the Housing Act of 1954 contains a requirement that, as a prerequisite to most kinds of assistance which can be made available, each community applying for these aids must show that it has developed what we call a "workable program" for urban renewal. Briefly, the seven essential requirements are:

1. Adequate local codes and ordinances, effectively enforced to assure minimum standards of health, sanitation and safety in housing.
2. A comprehensive general plan for the development of the community as a whole, covering land use, thoroughfares, community facilities and public improvements.
3. Analyses of neighborhood characteristics to determine the extent and causes of blight throughout the community and the means of correction.
4. An adequate administrative organization that can act intelligently in the best interests of the community in carrying out urban renewal programs.
5. Means to assure the community's ability to meet financial requirements under its urban renewal program.
6. Ability to rehouse, in decent, safe and sanitary quarters the families displaced by urban renewal and other governmental activities.
7. Full-fledged citizen participation in both the community as a whole and in the project area.

Citizen Participation

The citizen participation element of the "workable program" is the key to achieving success on all the other points.

From our experiences with dozens of communities, we have found that when all interested community groups get together to discuss urban renewal there is a general misunderstanding of the purposes and processes of this program. This evidence of misunderstanding is strong evidence of the need for citizen participation.

Citizenship participation is essential to getting public understanding of the overall problems involved in the community's development. Public understanding is the only avenue for getting support of housing code enforcement, comprehensive city planning, and the financing of the municipal machinery needed for neighborhood surveys and the relocation of persons displaced by urban renewal activities.

It has been our experience that in many localities citizens who are made aware of this problem agree that something should be done about it and then fail to act because there is no effective organization. It becomes evident, therefore, that some kind of a team needs to be organized within the community which will bring together key leaders who are in a position to determine the future of the city and create a framework in which they can work together to solve the urban renewal problems. This pattern is described in the "Urban Development Guidebook," which sets up a series of committees to be created as part of the team. They are seven in number: economic base and business outlook; local public finance; building and construction finance; housing; legal powers of the locality; physical planning; traffic and parking.

The guidebook not only suggests the outline for the formulation of a local development team to spark urban renewal but also suggests a work program and gives examples of successful activities which have been carried out in a number of localities.

Blueprint for a Greater Fort Worth

Pedestrian is king in Victor Gruen's city center proposal which has elements of interest for planners everywhere

AN ARCHITECT'S bold and imaginative blueprint for a Greater Fort Worth, Tex., would include, along with an integrated county highway system, a central business district completely free of vehicular traffic.

Victor Gruen, AIA, of Los Angeles made his presentation last month to 200 executives who formed the Greater Fort Worth Planning Committee to implement his proposal.

The Gruen plan, resulting from intensive research into the problems of the city in an effort to keep the metropolitan area from strangling in its own traffic by 1970, makes these recommendations:

1. Creation of a pedestrian central business district free of surface vehicular traffic—it would be unnecessary for automobiles, buses and trucks to enter the heart of the city. Comfortable, noiseless, battery powered shuttle cars would be available throughout the area for the convenience of pedestrians.

2. Eventual construction of underground freight and cargo delivery facilities in the central business district.

3. Construction of a loop or belt line highway ringing the central business district, receiving traffic from the city's freeways and other tributary roads and funneling the traffic into strategically placed parking garages and terminals where buses, taxis and airport limousines would discharge passengers.

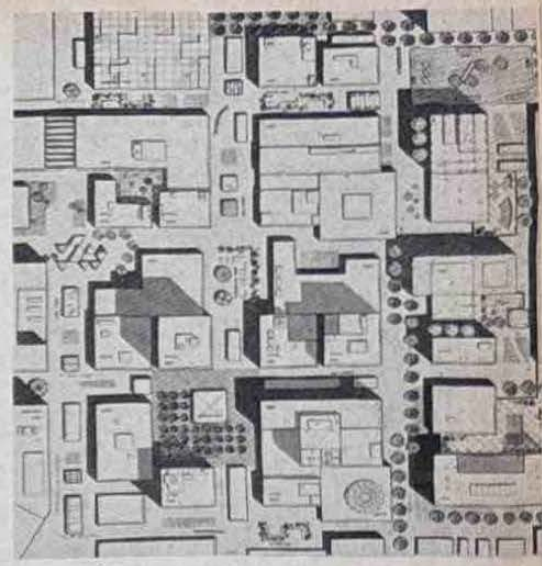
4. Construction of six major parking garages inside the belt line highway to serve the entire downtown area, with a deep penetration into the pedestrian central business district so as to minimize walking distances within the area. No point would be more than a 2½-minute walk from the nearest parking garage.

In his plan, Gruen envisions certain downtown areas being replete with trees, greenery, benches and statuary in an area that would have the atmosphere and appeal of such developments as New York's Rockefeller Center.

"Tomorrow's central district will have no signs of blight or deterioration," Gruen contends. "In their place will be lovely malls and concourses, covered sidewalks and comfortable benches, landscaped gardens, sculpture, fountains—a city shopping center that is restful and pleasant.

"The central district will be an integral addition instead of an ugly disturbance: a cultural, social, educational center. Shopping, going to work, attending cultural and entertaining events in such an environment will be a new and thrilling experience for everyone."

Gruen estimates that by the year 1970 approximately 152,000 cars will visit the central district of Fort Worth each day. This is approximately twice the number that visit the central district daily at present. Thus, if cars are permitted on the downtown streets of the city in 1970, the existing street system would have to be enlarged by more than 300%.

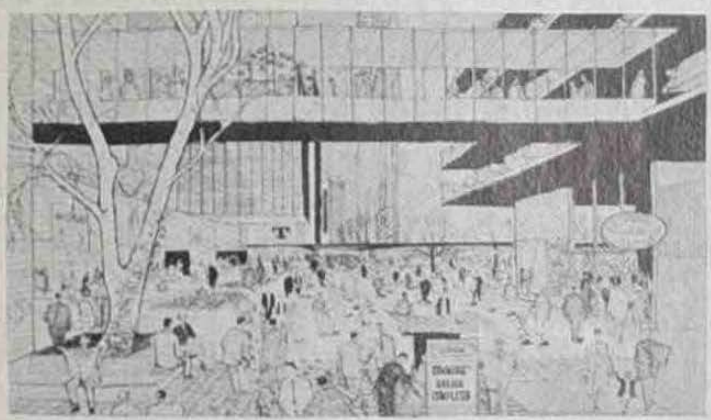


PEDESTRIAN IS KING: walks, malls, parks and plazas take place of automobile traffic and parked cars.

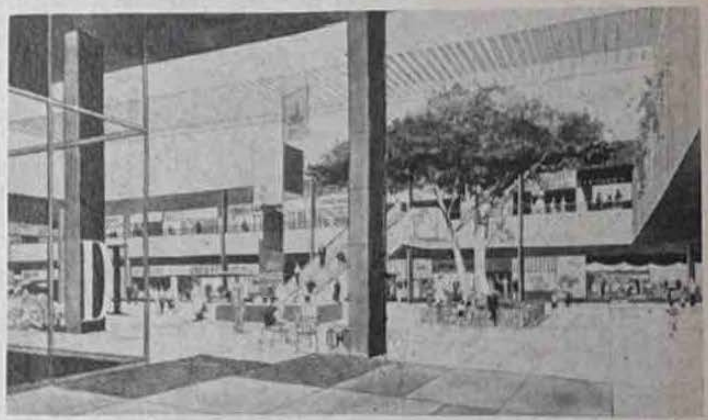
Gruen also estimates that the central district in 1970 would require approximately 2,600 trucks per day for the handling of its goods. He ruled out as not workable or feasible such possibilities as widening and improving the present surface delivery system or the construction of new elevated delivery facilities. Therefore, Gruen proposes that the truck routes be underground.

What would life be like in 1970 in Fort Worth revitalized under the Gruen plan?

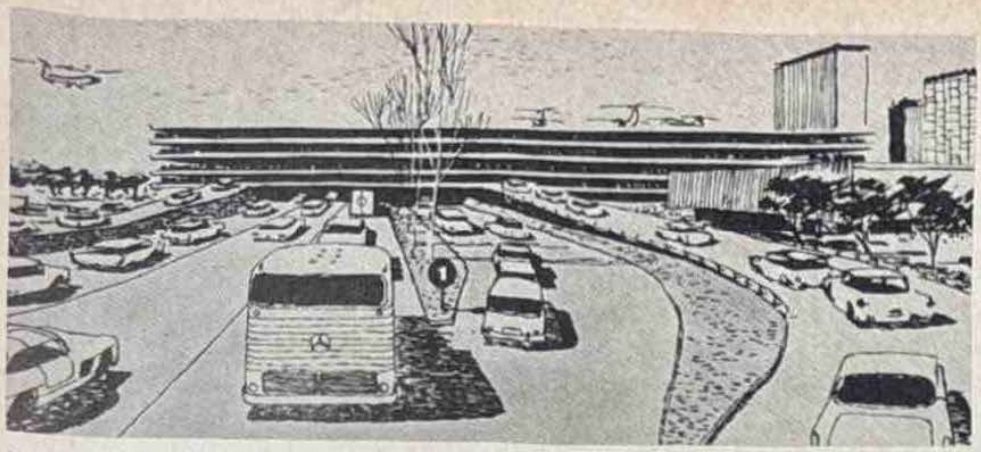
People would drive downtown and turn onto the multilane belt line highway encircling the central district. A few seconds' drive along an exit ramp would find the motorist in front of a large parking garage. An electronic control panel would



REMOVAL OF VEHICULAR TRAFFIC gives shoppers view of windows on both sides of street uninterrupted by wall of cars. Cross shopping thus becomes easy and shoppers are encouraged to stay longer and see more. Pedestrian bridge connects parking structure with hotel.



TWO-LEVEL SHOPPING MALL, actually under construction at Southdale Shopping Center in Minneapolis, might be part of Fort Worth plan. Street has been roofed across third floor line, doors put at each end, sidewalk balcony hung at second level and whole street air conditioned.



SKETCH INDICATES SIMPLICITY of driving directly off loop or belt road which encircles downtown district into parking structure. Motorist ramps onto any chosen parking level without confusion and delay of interchange.

guide the car to the most convenient parking space, after which a moving ramp would take the discharged passengers down to the street level exit.

On the streets would be a complete absence of automobiles and trucks. Except for an occasional fire truck or ambulance and the battery driven shuttle cars, there would be no vehicular traffic. The pedestrian would be king. There would be no traffic laden streets to cross, no impatient waiting for traffic lights to change, no frantic dodging of cars, no horns blaring, no sharp smell of monoxide fumes.

No point downtown would be more than a 2½-minute walk from a parking garage or bus terminal, although the convenient shuttle cars would always be available for the use of pedestrians.

What would the revitalized Fort Worth look like in 1970 under the Gruen plan?

"In the revitalized city," according to Gruen, "many of the streets will be narrowed in stretches so that they become malls. In other places, streets will be widened into courts, and the rich colors of the paving, the trees and the little pools in the central district will stand out like jewels against the backdrop of the buildings surrounding them. Here and there pavilion-like shops will be added in the center of the streets.

"Some of the sidewalks will be covered, just one more of the innovations which by 1970 will be as much a part of the downtown environment as the landscaped malls, the absence of curbs to stumble over and the sidewalk cafes. Some blocks will be roofed over and the mall thus created will be air conditioned. In short, downtown Fort Worth will be a pedestrian's paradise."

Other cities are considering and even undertaking plans for redevelopment that contain certain of the proposals inherent in the Gruen plan, which is particularly suited for Fort Worth because it takes advantage of the natural boundaries of the city set by the Trinity River, the railroads and the freeways. It locates the inner belt highway just within these boundaries.

Therefore, while the plan is a natural for Fort Worth, in toto it would probably prove to be economically and physically unrealistic and unsuitable for other cities.

Life in a traffic jam

Complete neighborhood redevelopment called 'cookie-mold solution' to big-city traffic congestion problem

Excerpts from an address by Morris Ketchum Jr., FAIA, New York City

LIKE EVERY American city, New York inherits both its opportunities and its handicaps from the past. The energy and vigor of the 19th century built up our city into a great monument to American enterprise. In the process, the growing city swallowed one adjacent townlet and country neighborhood after another as it marched along Manhattan Island.

In spite of its size, 20th century New York is still a collection of neighborhoods, each with specialized characteristics, all interrelated and interdependent and all sharing together the opportunities and the handicaps of city life.

The worst handicap to life on Manhattan is the traffic problem. Within the heart of our city, gridiron street systems planned for the horse and buggy traffic of the 19th century are completely overloaded with the motor traffic of the 20th century. The concentrated activities housed in Manhattan's tall buildings — shopping, business, industry, finance—draw all these cars and trucks like a magnet. The existing streets, choked by curb parking, are unable to accommodate them. Even when streets have been widened, parking meters installed, avenues reorganized for one-way traffic and some attempt made at creating off-street parking and off-street truck docks, the picture remains practically unchanged.

Every minor move of this type merely invites more motorists to drive downtown. Congestion on Manhattan will never be cured in this way. The only solution is to plan and provide for safe and separate routes for motor and pedestrian traffic and for adequate off-street parking and unloading facilities for autos and trucks. Then we may be able to unscramble our urban traffic snarl.

To do this in one giant operation for all of Manhattan is obviously impossible. Instead, we should remember that the core of our city is still a collection of neighborhoods and that it is much easier to reorganize it neighborhood by neighborhood provided that each reorganization is tied in to a broad traffic concept for the whole island.

Aside from specialized districts where shopping, business, industry, amusements or government buildings predominate or where public housing has followed slum clearance, Manhattan's neighborhoods are made up of private housing plus neighborhood shops and services. There are no definite boundaries to each neighborhood. One merges with another up and down the north-south avenues but each neighborhood has a definite life of its own.

Manhattan's neighborhoods are constantly changing. They are always being torn down and rebuilt. Apartment house builders clear sites

ranging in size from small segments of city blocks to entire blocks or neighborhoods for such giants as Manhattan House or Stuyvesant Town. The larger private projects have their own landscaped terraces and gardens, their own shops and stores, their own garages and truck docks. Public housing agencies have cleared out great slum areas, chiefly along the two rivers, replacing urban squalor with light, air, playgrounds and comfortable living quarters.

Both private builders and public housing agencies have missed two great opportunities—the opportunity to create **complete** neighborhoods with **all** the basic elements of neighborhood life—housing plus shopping, education, recreation—and the opportunity to help solve Manhattan's traffic jam at a profit to themselves. For there is money to be made from properly planned and built neighborhood shopping centers and off-street parking facilities.

One reason why these opportunities have not been realized is the fact that until the urban redevelopment act was created a few years ago private enterprise and public government were not sufficiently encouraged to work together or given the legal and financial means for full collaboration. Another reason is that specialists are inclined toward a narrow viewpoint. Private builders interested in apartment houses have not fully grasped the economic possibilities of built-in shopping and parking; public housing experts with complex housing problems to face forgot that neighborhood life needs something more than just good housing. Both are inclined toward little plans for little programs not in scale with the large scale needs of the city as a whole.

When a large blighted urban district is cleared for new construction, all its existing neighborhood shops and services are demolished and seldom replaced. In every housing project, an economic analysis which scientifically determines the type of housing and the number and type of shops and stores which that housing needs and could support should be incorporated in the building program. This survey should also include a thorough investigation of the size of off-street parking areas that could be used by both the project residents and a profitable proportion of off-street transient traffic. The necessary truck terminals within the project would be a minor problem if incorporated in the program at this time.

Armed with the power of land condemnation and the power to close

Continued on page 28



Cecil Young, Chief Engineer, The Peerless Electric Company, with Peerless motors in new NEMA frame sizes.

CAN YOU MATCH THIS?

Peerless is one of the few fan and blower manufacturers that builds its own motors. That's one reason why Peerless fans and blowers conform with all standards—PFMA, NAFM and NEMA. What's more, because we build our own motors, we can match them to fans and blowers for peak performance.

We select motor characteristics which give best results. This versatility permits us to equip our fans and blowers with special motors—custom-built for the jobs they must perform—moving dirty, grit-laden foundry air; working in high heats in electronic cabinets; operating safely in hazardous locations where non-explosive qualities are needed; and operating without failure where uninterrupted service is a must.

Premium-built Peerless motors power famous OEM products in all fields and are the choice of those manufacturers who insist on specials rather than repetitive models. Is it any wonder that Peerless Electric fans and blowers hit such high performance levels.

Select the fans and blowers that meet all industry codes —Peerless. Check the Peerless bulletins. SDA-160 shows performance data on all fans and forward curve blowers. SDA-200 gives complete data on backward curve blowers. Dimension prints available on request.

THE PEERLESS ELECTRIC COMPANY, WARREN, OHIO

MONTGOMERY BROTHERS

WESTERN REPRESENTATIVES

LOS ANGELES, CALIF. 2113 S. San Pedro St. Phone Richmond 7-9401

SAN FRANCISCO, CALIF. 1122 Howard St. Phone UNderhill 1-3527

PORTLAND, OREGON 1632 N. W. Johnson St. Phone CApital 3-4197

SEATTLE, WASH. 911 Western Ave. Phone SEneca 3270

Some thoughts about design and other topics

Excerpts from talks and panel discussions of interest to all segments of the construction industry as presented at the 1956 Chicago sessions of the National Association of Home Builders

Top priority: design

Robert J. Lewis, president, National Association of Real Estate Editors

Home builders should look to the nation's architects for the new excitement in residential design that the public is demanding on an ever-increasing scale.

The best new opportunity to builders in 1956 is to give No. 1 priority to architectural design. The people are more and more demanding good design in everything they buy.

Manufacturers of everything from locomotives to TV sets, from automobiles to automatic toasters, have increasingly recognized that industrial designers are the star salesmen on their team. Builders too are finding that homes designed by good architects sell faster, can be built more economically and give buyers more lasting satisfaction than those in which design has been given secondary consideration.

The whole field of architecture is largely a new one for newspapers and one that is rapidly expanding in coverage. (Lewis accepted a convention resolution thanking the nation's real estate editors for their interest in the construction field.)

The atomic age

Harold Goodwin, director, Atomic Test Operations, Federal Civil Defense Administration

It does not appear economically feasible to design homes that would stand up under high atomic blast.

However, conventionally designed homes can be made somewhat more blast resistant by careful workmanship and relatively inexpensive design changes. Such factors would be important in fringe areas of large cities where blast pressures would be expected to be moderate in case of enemy attack on the city.

Concerning civil defense residence tests in Nevada, there was no evidence that one type of construction has substantially greater resistance than another, although it is obvious that houses designed under earthquake construction codes would be inherently more resistant than houses without reinforcement.

Home builders should concentrate on providing shelter areas in new home construction. Basements offer good, inexpensive protection against all effects outside the major damage area of a nuclear explosion.

(PA&B carried a report on the Nevada tests in June 1955.)

"Builders are finding that homes designed by good architects sell faster, can be built more economically and give buyers more lasting satisfaction than those in which design has been given secondary consideration."

Challenge of Korea

Gen. James A. Van Fleet, USA (ret.)

The Homes for Korea project of the American Korean Foundation is directed toward teaching the Koreans how to rebuild their own country. The committee now has 100 family units under construction in Seoul. They are low cost homes adaptable to mass production. They are being built by Koreans under the direction of an American construction team selected with the advice of the NAHB.

The Koreans are being taken through every phase of home construction. When the American team is confident that the Koreans are sufficiently trained, the reconstruction of that country will be left to them.

In addition, Homes for Korea has introduced to that country a few industries which are basic to large-scale production of homes. Koreans are being trained to operate these industries so that they may take advantage of modern construction techniques.

Funds for this project are being sought from the American people, particularly those involved in the building industry. The Korean people, including their leaders, do not ask us to rebuild their country; they ask only that we show them how to do it.

"It does not appear economically feasible to design homes that would stand up under high atomic blast."

Community facilities

Earl W. Smith, El Cerrito, Calif., retiring president, National Association of Home Builders

The formation of some form of metropolitan government probably will be the answer to the problems of schools, streets, sewer and water systems that are besetting American cities and their suburban communities.

The widespread and growing need for essential community facilities are one big huge problem for which no one now has a ready answer. But it is encouraging that more people are taking an interest in trying to find the right answers.

NAHB is not endorsing the metropolitan government concept which now is in effect in Toronto, Canada, although it is inevitable that such a solution will be reached to provide the essential amenities required by central cities and their satellite communities. The present arrangement of local governments in metropolitan areas has outlived its usefulness.

The metropolitan area government plan envisages a metropolitan council, another public authority, with power to program and finance the construction of facilities with a view toward the overall needs and development of the entire area, rather than on the basis of the desires of the individual communities.

The cost of community facilities together with the constantly increasing standards and requirements imposed on housing and housing developments by public authorities have raised the prices of houses at least 20% and some say this estimate is conservative. The result is that we are getting seriously out of joint and pushing away from the broad base of the housing market.

While the increase in standards has resulted in better homes, it also has resulted in more expensive homes, with the result that prices have climbed out of the reach of the modest income groups.

We of the industry think it is our



job to provide good housing for all segments of the economy, which calls for a readjustment of standards.

Things to come:

The home building industry should construct about 1.2 million units in 1956.

Prices of materials and labor will creep up during the year. The increases might be reflected in higher housing prices which certainly will not go down.

The mortgage market, generally

BUILDER-ARCHITECT AWARDS

Of the eight NAHB Awards of Merit for excellence of home design presented this year, six went to West Coast builders and their architect associates — five from California and one from Washington.

Prices of the award-winning houses ranged from $11,475 to $18,500. With the exception of one split-level, all were single-story houses. They varied in size from 796 to 1,776 sq. ft.

The winners follow, with builder, architect, price, square foot area and location of project in that order:

Midland Properties, Beverly Hills; Palmer & Krisel, Los Angeles; $14,450; 1,246 sq. ft.; La Mirada and Fullerton (design details on page 16).

Harlan Lee, North Hollywood; Palmer & Krisel; $15,950; 1,432 sq. ft.; San Fernando.

American Homes Co., Broderick; Anshen & Allen, San Francisco; $11,475; 796 sq. ft.; Elkhorn Village, Broderick.

Ross Cortesi, Anaheim; Robert G. Jones and Benjamin Urmston, West Los Angeles; $15,750; 1,506 sq. ft.; Anaheim.

Eichler Homes, Palo Alto; A. Quincy Jones & Frederick E. Emmons, Los Angeles; $18,500; 1,550 sq. ft.; San Mateo County.

Vaughters Construction Co., Seattle; Seth M. Fulcher Jr. Associates, Seattle; $17,500; 1,776 sq. ft.; Seattle.

A California entry also received an Award of Merit for neighborhood development. Robert R. Platt, builder, and Hewitt H. Clark, architect, both of Lafayette, were cited for Dos Encinas, a 14-house project in the $25,000 price range.

Quality Homes by Leonard, Inc., of Bellevue, Wash., won a second-place plaque for its part in National Home Week of 1955.

A Metalbestos gas vent specification

is your guarantee against fire and condensation hazards resulting from improper venting systems — your assurance of complaint-free venting for the life of your homes.

A Metalbestos gas vent installation

is a proven cost-saver because this insulated venting line of versatile, lightweight units permits rapid one-man assembly without cutting, fitting . . . cement or special tools.

FOR THE LATEST FACTS ABOUT SCIENTIFIC GAS VENTING, WRITE DEPT. VV-4



METALBESTOS DIVISION
WILLIAM WALLACE COMPANY · BELMONT, CALIF.

METALBESTOS — TO CUT COSTS, NOT CORNERS

Stocked by principal jobbers in major cities. Factory warehouses in Atlanta, Dallas, Newark, Des Moines, Chicago, New Orleans, Akron

"Here's building insurance with a low net cost"



"The formation of some form of metropolitan government probably will be the answer to the problems of schools, streets, sewer and water systems that are besetting American cities and their suburban communities."

speaking, seems to be easing. During the year the supply should come into fairly good balance with the demand.

While discount rates on home mortgage will continue, they should not be too serious.

The price of raw land has soared in some areas and the combination of this increase and the costs involved in the excessive requirements for facilities have completely disrupted the normal cost relationship of land to house.

Trends in color

W. Shrewsbury Presey, Urbana, Ill., color consultant—Home buyers should not be permitted to turn a project development into a patchwork of bad colors through individual selection. Too much of the American landscape is cluttered with eyesores which could be made attractive with better uses of current trends in color, lighting and styling. Increasing competition in the home building field in the years ahead calls for a professional, planned color design for the small as well as the large project development.

C. Eugene Stephenson, New York City, past president, American Institute of Decorators — Advanced abstract design is not what the average American desires and instead more emphasis should be placed on combining traditional and contemporary furnishings in good taste.

Myrtle Fahsbender, Bloomfield, N. J., director, residential lighting for Westinghouse—Keep in step with the trend of the American family to outdoor living. Don't limit your buyers' use of patios, terraces and gardens to the daylight hours but provide well designed, well placed outdoor lighting of landscape features and play areas.

Alex Simms, Dayton, Ohio—Effective application of light color touches not only makes the sales package more appealing but also scores as a lasting source of customer satisfaction and good will.

Public housing

Alan Brockbank, Salt Lake City, past NAHB president—The home building industry should devise a positive program to eliminate public housing. No organization is more interested in seeing that people are properly housed than the NAHB. Our argument with public housing is not on the basis of need but on the method of alleviating this need.

The country is gradually being sidetracked from its goal of more houses for low income families. This has been caused by the great demand for three- and four-bedroom houses and the general public apathy toward the housing needs of low income groups. A contributing factor has been the added requirements of FHA and VA which increase the cost of construction. We hoped the 1954 Rehabilitation Act would take care of low income families but with red tape and everything, this legislation got held up.

Joseph B. Deckman, Washington, D.C. —Everywhere you find the builder accused of not providing for the low income groups—yet he's not given the proper tools. Our big problem is to educate the taxpayers and congressmen as to what's taking place. Otherwise we will continue to see more and more socialization, just as in England.

Robert A. Bready, Baltimore — The Baltimore plan — based on the obligation of owners to keep their property in good condition—is working out well; in fact so well that it is being tried in other cities, notably Grand Rapids, Mich., and Richmond, Va. What we need is a rehabilitation to minimum standards of old property. Here we are going around tearing down sound structures in the name of better housing. It just doesn't makes sense to me. The Baltimore plan is based on the obligation of owners to keep their property in good condition.

Ernest Fritsche, Columbus, Ohio — When people have a choice, they turn it (public housing) down. A public housing issue was defeated by a three-to-one vote in Columbus.

One of the best things a city can have is an able assistant safety director. It doesn't hurt if he's over 6 ft. 6 in. tall and weighs 265 lb. and a man who can say no—no matter how much the heat's on him. Before our man came in, there were no condemnations; in 1955 there were 297. That fellow doesn't take no from anybody.

Air conditioning

Ned A. Cole, trustee of NAHB's Research Institute and project manager of its experimental village at Austin, Tex.—Tests made in 21 houses over the past 12 months showed the average operating cost of a heating-cooling system was $9.41 a month, or a yearly total of $112.93. In another year the factor of operating costs probably will no longer figure in questions about air conditioning. (NAHB is sponsoring the research in cooperation with the National Warm Air Heating and Air Conditioning Association, the Air Conditioning and Refrigeration Institute and a cross-section of leading manufacturers.)

Herbert Gilkey, research department, National Warm Air Heating and Air Conditioning Association—Proper sizing in selecting the unit is of utmost importance. Undersizing by not more than 15% is far better than oversizing. For hot and dry climates, we recommend water-cooled units with cooling tower; for hot and humid climates, a unit with either cooling tower or air-cooled condenser; for humid but not so hot climates, a unit with air-cooled condenser.

George S. Jones Jr., Washington, D.C., managing director, Air Conditioning and Refrigerating Institute — In the past four years 300,000 homes have been supplied with all-year air conditioning. Of this number, 200,000 homes were equipped last year.

Juvenile delinquency

Dr. Frances Horwich—The character of the American child is influenced to a greater degree by the house he lives in than by any other factor in his physical environment. Build a happy generation by providing the kinds of homes that are vital to a happy family life.

(Miss Frances of NBC's "Ding Dong School" received an NAHB Certificate of Merit for her work in the field of education.)

Fred Brunetti, New Milford, N. J., builder — Programs that the builder can institute — tours of the jobsite, model home building contests, giveaway piles of scrap lumber and building material for children—have effectively cut vandelism costs in my area from $75 per unit to less than $2 per unit. Parents must be made aware of the tremendous cost to the public in vandelism at jobsites.

"Our argument with public housing is not on the basis of need but on the method of alleviating this need."

NEW GRADE NAMES FOR WEST COAST LUMBER *are NOW in effect*









Boards, Dimension and Timbers of Douglas fir, West Coast hemlock, Western red cedar and Sitka spruce now have grade names instead of numbers as shown below:

NO. 1 . *becomes* **CONSTRUCTION** — MILL 750 WCLB CONST

NO. 2 . . . . . *becomes* **STANDARD** — MILL 750 WCLB STAND

NO. 3 . . . . . *becomes* **UTILITY** — MILL 750 WCLB UTIL

NO. 4 . . . . . *becomes* **ECONOMY** — Not Customarily Grade Stamped

There is no change in the identification of Select Merchantable Boards, Select Structural Dimension and Timbers, or vertical grain Clears.

The top grade of flat grain Clears becomes **C&Btr.** — MILL 750 WCLB C&BTR

For additional information on grades write to:

WEST COAST LUMBERMEN'S ASSOCIATION
1410 S. W. MORRISON, PORTLAND 5, OREGON

All Grade Stamps shown are registered, U. S. Patent Office.

Life in a traffic jam

(Continued from page 23)

and abandon streets within the project site, as is commonly done in large public housing projects, each rebuilt neighborhood could be organized as a quiet pedestrian island surrounded by minor traffic. All its everyday needs — shops, services, restaurants, gardens, playgrounds, schools—could be located at ground level at the center of the project. The residential apartments, which usually occupy less than 30% of the site, could be distributed along the perimeter. The basement level under the entire site could be used for mechanical services, storage, truck docks and a huge pool of parking.

The new neighborhood unit would then be completely self-sufficient. Its community life would focus on its own central shopping area, its parks and its playgrounds. None of its residents would have to cross streets congested with motor traffic on their daily errands. Off-street bus stations, subway entrances and taxi stops would be available for trips to and from work or trips to major shopping cultural or amusement districts. The inhabitants of such neighborhood units would have all the advantages and very few of the usual disadvantages of city life.

By stacking parking, community activities and living space on successive levels, foot traffic is separated from motor traffic, community life from private life and the neighborhood unit itself from the surrounding city. At the same time, neighborhood residents are not prisoners within their own neighborhood. Public and private transportation are easily available; access to the rest of Manhattan and to parkways, suburbs and regional recreation areas is right at hand.

The parking pool under each neighborhood project would be of great value in solving Manhattan's traffic problem. The logical locations for such redeveloped neighborhoods are on blighted land around the edge of Manhattan Island, at or near its encircling belt highway. The majority of our existing housing projects are so located but there is room for more neighborhood units.

There are also sites close in to the spine of the island and its major business, industry, shopping and amusements. All these neighborhood sites could be tied in with the belt highway and the interior traffic pattern on the island. Suburbanites driving into the city would be able to reach them readily and to park their cars in the underground parking areas for a reasonable fee They could then use public transportation of one kind or another to and from their destination, pick up their cars again and drive home.

This would accomplish several things. First, it would provide adequate and accessible off-street parking in contact with the regional traffic arteries of Greater New York; second, it woud keep a large percentage of private cars off Manhattan streets; third, it would make life safer for pedestrians; fourth, it would make it possible for more and more suburbanites to enjoy all of Manhattan's shopping, amusements and cultural life; fifth, it would eliminate some of the immense cost of living and doing business on Manhattan Island.

New York—like every other city in the country—faces the grim fact that its downtown areas are snarled in its own traffic. As a result, commerce, industry and retail trade must all bear the burden of higher operating expenses and diminishing returns. It is getting harder and harder to live and work in the heart of a traffic jam.

Mr. Ketchum is a partner in the New York architectural firm of Ketchum, Gina & Sharp, author of a textbook on store planning and vice president of the Architectural League of New York.

Increased Treated Lumber Facilities

The exceptional value of WOODLIFE treatment in improving and prolonging the life of lumber has been widely accepted by the architect, engineer and builder. Because of our six years of satisfactory experience in treating lumber with WOODLIFE we are expanding our plant facilities to now supply treated western red cedar siding, roof-decking and fencing.

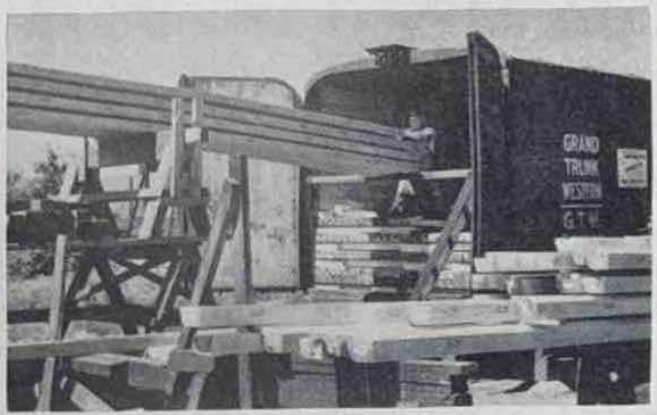


Photo showing another carload of wood gutter, WOODLIFE treated, being shipped to one of our customers.

Custom treating service will still be available in Seattle. Our enlarged manufacturing facility will be in Auburn, Washington, and centrally located to serve the Pacific Northwest.

PROTECT YOUR CLIENT'S INVESTMENT — SPECIFY WOODLIFE TREATING

DUNCAN WOOD GUTTER CO.

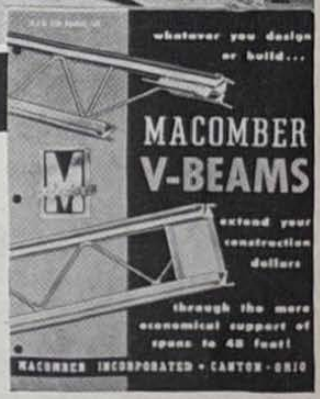
818 Securities Building • MAin 0042 • Seattle 1, Wash.

Good News TRAVELS FAST

when a structural product delivers more for the money



architects, engineers, contractors



THE MACOMBER V-BEAM

IS A MORE ECONOMICAL FLOOR AND ROOF FRAMING MEMBER WITH A GREATER MAXIMUM LOAD FACTOR.

SERVING THE DESIGNER'S NEEDS BETTER IN THE SPAN RANGE – 7 to 48 ft.

Send for your V-BEAM Catalog.

STANDARDIZED STEEL BUILDING PRODUCTS

MACOMBER INCORPORATED

CANTON 1, OHIO

• ENGINEERING • FABRICATING AND ERECTING •

NAILABLE STEEL JOISTS
•
LONGSPANS
•
BOWSTRING ROOF TRUSSES
•
METAL DECK
•
V-LOK STEEL FRAMING
•
STRUCTURALS

Building volume up 37% over February

DESPITE a slump in home construction, building starts in the five western states climbed up to a $253,148,403 dollar volume in March, highest monthly total since last August and a good 37% higher than February. The total is a bare 0.5% over March of 1955.

All states reported gains over February. California was up 34%; Oregon, 16%; Washington, 59%; Montana, 296%; and Idaho 197%. In comparison to March 1955, Oregon and Washington both reported decreases. Oregon was down 2% and Washington, 15%. California was up 2%; Montana, 70%; and Idaho, 10%.

For the first three months of 1956, dollar volume of the 116 building agencies surveyed is running 7% higher than the same period last year. The January through March total is $635,111,155, compared to $595,539,978 a year ago. Washington is the only state to show a drop from 1955. With $61,550,962, the volume is down 20%. Montana with $5,757,210 is up 44%; California with $534,-694,369 is up 10%; Idaho with $4,030,743 is up 3%; and Oregon with $29,077,871 shows a 1% increase.

On a nationwide basis, all major categories of building, except private mass housing showed excellent gains during the first quarter of 1956. Industrial building has skyrocketed 163%; commercial building increased 38%; public buildings, 15%; and public housing, 126%. Private tract housing is running about 6% less than 1955. This is reflected in dollar volume decreases in most of the high population areas of the West during March. Los Angeles, for example, dropped $5½ million compared to March 1955.

Following is a breakdown of building permits issued by several of the major agencies during March:

	DWELLING UNITS		COMMERCIAL & INDUSTRIAL		PUBLIC	
Portland	128	($1,335,240)	41	($ 61,025)		
King County	547	(5,299,550)	54	(374,486)	3	($28,000)
Seattle	216	(3,339,790)	127	(975,400)	2	(860,150)
Tacoma	167	(836,919)	37	(321,849)	1	(95,000)
Los Angeles Co.	2520	(28,075,196)	1136	(8,291,895)	30	(2,305,809)
Orange County	452	(4,572,545)	52	(707,226)	39	(854,860)
Sacramento Co.	553	(4,475,450)	88	(2,409,602)	4	(210,800)

Building Permit Totals for 116 Western Agencies for March 1956

CALIFORNIA	Mar. 1956	Feb. 1956	Mar 1955
Alameda County	$ 4,314,112	$ 3,073,247	$ 6,302,405
Anaheim	4,153,750	2,728,865	4,741,161
Bakersfield	1,537,180	998,505	646,466
Burbank	822,046	1,889,845	890,325
Contra Costa County	6,759,649	2,953,309	3,620,404
Fresno	2,462,608	957,218	2,409,587
Fullerton	4,678,395	2,675,302	3,777,001
Glendale	1,546,606	1,923,989	1,289,330
Inglewood	1,057,852	1,130,527	742,400
Long Beach	17,413,290	2,796,945	8,581,165
Los Angeles	40,122,647	31,354,360	38,297,746
Los Angeles County	42,065,510	27,286,946	47,726,755
Oakland	3,210,475	2,430,943	2,977,247
Ontario	1,125,562	1,534,969	2,447,207
Orange County	6,420,135	17,040,739	17,007,598
Palo Alto	3,346,119	1,934,001	2,769,400
Pasadena	2,741,543	1,428,545	1,967,312
Pomona	3,662,169	1,184,943	1,628,472
Richmond	1,157,197	386,219	1,211,269
Riverside	2,362,844	1,963,363	2,431,981
Sacramento	2,596,933	1,922,035	3,251,369
Sacramento County	7,106,782	4,603,213	5,494,692
San Bernardino	2,476,214	1,510,587	1,104,377
San Bernardino County	5,563,527	12,032,212	8,183,646
San Diego	10,711,618	6,394,897	5,300,073
San Diego County	3,495,120	3,992,740	3,084,749
San Francisco	4,460,900	2,997,217	6,123,359
San Jose	5,848,274	2,496,010	2,074,055
San Mateo	1,013,342	925,250	2,105,721
San Mateo County	2,472,350	1,324,412	3,576,149
Santa Ana	1,889,692	1,912,705	2,686,916
Santa Monica	1,628,531	895,142	823,588
Stockton	740,615	763,012	864,555
Sunnyvale	2,560,795	879,150	3,294,335
Torrance	2,937,828	4,055,361	2,773,450
West Covina	2,236,430	1,727,665	2,187,894
TOTAL	$208,698,640	$156,104,388	$204,394,759

OREGON	Mar. 1956	Feb. 1956	Mar. 1955
Albany	$ 82,200	$ 94,600	$ 122,100
Astoria	59,328	50,150	36,030
Baker	41,967	18,930	32,200
Bend	107,500	15,575	124,153
Coos Bay	108,880	12,740	89,745
Corvallis	287,547	147,890	200,195
Eugene	310,661	587,438	477,725
Grants Pass	65,130	381,140	105,485
Gresham	211,200	26,200	51,600
Hillsboro	223,300	22,650	161,750
Klamath Falls	337,490	81,150	66,300
LaGrande	57,640	10,275	30,480
Lane County	834,777	450,185	937,755
Medford	285,448	301,027	282,060
Multnomah County	2,572,425	3,782,310	2,316,345
North Bend	101,390	31,364	67,759
Oregon City	31,700	74,985	103,204
Pendleton	209,845	69,250	39,767
Portland	4,295,520	2,412,030	4,562,215
Roseburg	88,735	141,468	631,785
Salem	470,498	725,508	868,056
Springfield	197,486	90,455	76,710
The Dalles	110,342	61,956	44,288
TOTAL	$ 11,091,549	$ 9,589,276	$ 11,427,707

WASHINGTON	Mar. 1956	Feb. 1956	Mar. 1955
Aberdeen	$ 80,608	$ 121,348	$ 219,201
Anacortes	148,930	92,420	550,144
Auburn	37,720	57,940	23,949
Bellingham	407,569	903,840	180,685
Bremerton	605,276	91,768	115,294
Centralia	28,096	37,630	41,252
Chehalis	39,927	35,465	41,325
Clarkston	97,312	52,947	127,211
Ellensburg	25,600	10,600	40,675
Ephrata	267,140	3,950	102,293
Everett	156,408	242,575	269,326
Kelso	45,200	32,600	23,500
Kennewick	118,100	94,150	208,800
King County	5,702,036	5,045,533	9,180,290
Kirkland	79,050	32,000	96,325
Longview	73,231	242,404	419,378
Moses Lake	801,436	95,762	374,463
Olympia	218,040	142,660	197,747
Pasco	105,225	141,150	392,239
Pierce County	2,027,595	1,031,062	1,643,681
Port Angeles	95,100	65,700	71,550
Puyallup	27,325	142,776	52,940
Ritzville	25,500	31,800	135,900
Seattle	6,857,290	4,371,350	7,106,568
Shelton	269,400	33,800	194,160
Spokane	2,725,600	929,337	2,908,038
Spokane County	2,308,308	747,995	3,216,055
Sumner	33,001	26,199	13,000
Tacoma	1,502,115	1,160,286	1,965,942
Vancouver	647,169	714,829	325,907
Walla Walla	593,093	124,950	690,000
Wenatchee	216,390	70,230	195,500
Yakima	697,278	24,503	765,500
TOTAL	$ 27,062,068	$ 16,951,559	$ 31,854,052

MONTANA	Mar. 1956	Feb. 1956	Mar. 1955
Billings	$ 1,095,000	$ 237,550	$ 1,244,500
Bozeman	39,000	13,000	22,150
Butte	61,986	27,750	58,620
Glasgow	11,525	Nil	1,450
Glendive	129,874	19,800	60,000
Great Falls	1,284,381	429,493	383,798
Helena	958,385	22,510	143,425
Kalispell	15,400	19,400	75,580
Lewistown	109,500	8,700	46,200
Livingston	32,600	11,100	58,200
Miles City	128,320	34,704	95,700
Missoula	51,178	165,800	97,300
TOTAL	$ 3,917,149	$ 989,807	$ 2,291,813

IDAHO	Mar. 1956	Feb. 1955	Mar. 1955
Blackfoot	$ Nil	$ Nil	$ 107,000
Boise	377,618	220,778	631,049
Coeur d'Alene	164,400	61,500	207,400
Idaho Falls	216,700	70,000	336,630
Jerome	56,625	16,200	27,400
Lewiston	176,085	50,739	236,586
Nampa	234,725	223,890	91,680
Payette	41,760	4,150	30,000
Pocatello	202,364	46,868	148,311
Sandpoint	34,550	2,000	5,900
St. Maries	Nil	4,500	5,000
Twin Falls	874,170	99,750	328,800
TOTAL	$ 2,378,997	$ 800,375	$ 2,155,780

GRAND TOTAL	$253,148,403	$184,435,405	$252,125,231





PORTRAIT OF A

Fire-Resistive Structural Material

Through generations of fire history, heavy timber or "mill-type" construction has proved the ability of heavy timbers to resist destruction by fire more effectively than other unprotected structural materials. A recent test shows why:

The glulam timber shown at the left was exposed to direct flame for one hour at an average temperature of 1200 degrees. The section at the beginning of the test measured 9" x 27¼"; at the end of the hour, sound, uncharred area of 7¼" x 26" remained. Thus, with 77% of its original section undamaged, the timber was capable of continuing in service with a safety margin of greater than 2 to 1.

The ability to resist destruction by fire is one reason why heavy structural timbers by Timber Structures, Inc. provide the practical approach to buildings of permanence, economy and beauty. Other advantages, together with outstanding examples of engineered timber construction and a wealth of preliminary design information, are shown in the booklet, "Engineered Timbers." Get your copy from your nearest Timber Structures representative, or fill-in and mail the coupon below.



TIMBER
WARD MAYER
STRUCTURES
INCORPORATED

P. O. BOX 3782-Y, PORTLAND 8, OREGON

DISTRICT OFFICES IN
SEATTLE • SPOKANE • DENVER

TIMBER STRUCTURES, INC. OF CALIFORNIA
Richmond • Beverly Hills • Sacramento

Local Representatives throughout the United States and Canada

TIMBER STRUCTURES, INC.
P. O. Box 3782-Y, Portland 8, Oregon

Please send a copy of your booklet, "Engineered Timbers" to

Name_____

Address_____ Zone_____

City_____ State_____

Olympic Hotel addition

Seattle, Washington

NARAMORE, BAIN, BRADY
& JOHANSON
Architects-Engineers



ENTRANCE STUDY of $1,200,000 improvement to Olympic Hotel, made possible by demolition of Metropolitan Theater.

WITHIN A YEAR Western Hotels, Inc., expects to present Seattle with the finest convention facilities north of Los Angeles. The $1,200,000 improvement of the Olympic Hotel is now underway with the wrecking of the Metropolitan Theater (scene of the 1953 national AIA business sessions).

The project will include the largest exhibition and banquet hall in the Pacific Northwest, a new specialty restaurant, a new cocktail lounge and a new main carriage entrance.

Occupying the entire theater area, 129x82 ft., the carriage entrance will be open to University Street. It will provide a U-shaped driveway for taxicabs and automobiles. In the center a ramp will lead down to a delivery dock in the basement for commercial traffic; above will be the exhibition hall, seating 1,000 at banquet tables and from 1,300 to 1,400 at lectures and other functions.

Decorative planting will be set into the street along the sidewalks on both sides of University Street.

Motoring guests will be able to register at the carriage entrance and go directly to their rooms from the arcade.

Swedish granite, roman travertine and stainless steel will be combined on the exterior University Street wall of the building.

The exhibition hall will be situated between the Spanish Ballroom, which will not be changed, and the existing kitchen. A movable gondola housing projectors and TV equipment will be lowered from the ceiling whenever required and when not in use will be out of sight. The light fixtures will be capable of being lowered from the ceiling on 10-ft. centers to a 13-ft. level when desired for illumination of exhibits.

At one end of the room will be a stage elevated 3 ft., 40 ft. wide and 19 ft. deep with a theatrical switchboard permitting gradual dimming of lights.

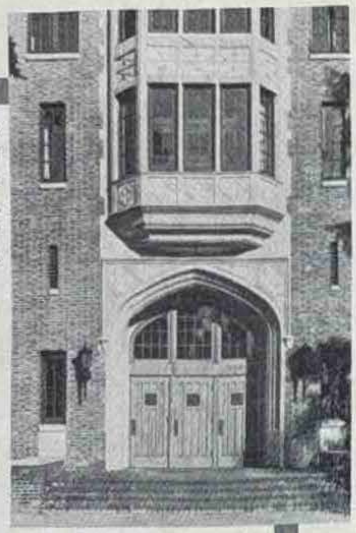
Small shops and transportation offices and facilities will line the carriage area. Entrances to both the grill and the new specialty restaurant will be on the east side.

Located off the lobby between the Georgian Room and exhibition hall, the new cocktail lounge will accommodate 69 persons. The specialty restaurant will seat 200 and will occupy space now used for stores.

The present Georgian Room will be left intact and will serve as a ballroom and banquet room. The junior ballroom also will be unchanged.

Completion date of the entrance, exhibition hall and specialty restaurant has been set for March 1957; the lounge off the lobby by June of this year.

Western operates the Olympic Hotel for the University of Washington.



architect:
SILAS E. NELSON
contractor:
BONAFIDE CONSTRUCTION CO.
mason contractor:
FRED R. BOEDECKER

College of Puget Sound
Memorial Library features . . .

Distinctive Chehalis Brick

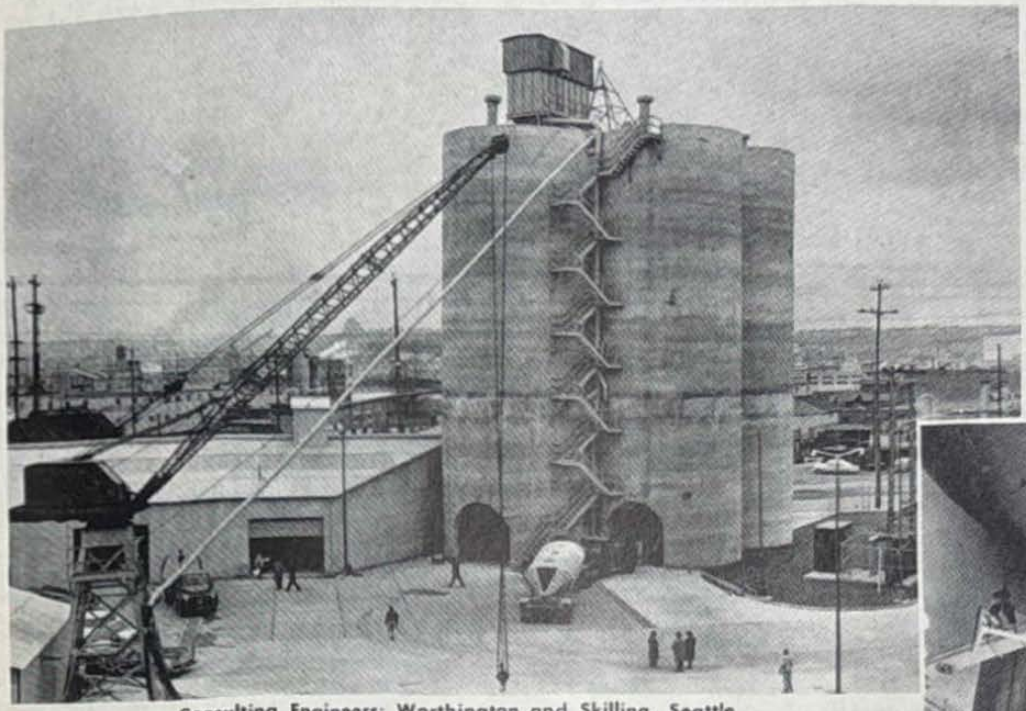
Architect Silas Nelson chose Chehalis Select Common Brick—in a harmonious variety of red shades—to achieve both dignity of design as well as an atmosphere of warm, lasting friendliness in this handsome Memorial Library at Tacoma's College of Puget Sound. For more than three generations the distinctive tones and textures of Chehalis Brick have played an integral part in much of the Pacific Northwest's finest regional architecture.

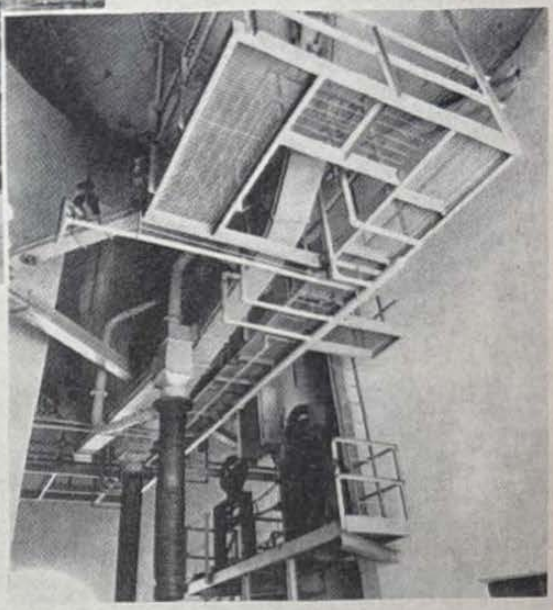
SCPI

CHEHALIS BRICK and TILE Co.

BOX 868, CHEHALIS, WASHINGTON

ANOTHER EXAMPLE OF CARCO "One Stop" STEEL SERVICE





Consulting Engineers: Worthington and Skilling, Seattle
General Contractor: Kuney Johnson Co., Seattle

NEW CEMENT DISTRIBUTION PLANT USES CARCO FABRICATED STEEL

The Olympic Portland Cement Company, Ltd., has invested $600,000 in a new distribution plant on the east bank of Harbor Island's West Waterway, just north of the Spokane St. bridge.

The distinctive feature of the new plant is four large storage silos. Each silo is 30 ft. in diameter by 95 ft. high and holds 10,000 barrels of cement.

Cement is shipped to the new distribution plant in a closed metal barge from the company's property at Bellingham. Upon arrival, the cement is pumped from the barge to the storage silos through a 200 ft., 8-inch seamless steel pipe. All conveying of cement is by the "air-slide" method.

The new bulk loading facilities are among the most modern ever engineered. Two trucks may be loaded at the same time from two silos each. Only ten minutes are needed for a truck to receive a 120 barrel load.

Adjoining the bulk loading facility is the new packaging plant. Here a modern packaging machine is supplied from the four silos. After sacking, bagged cement is loaded on trucks by a reversable conveyor at the rate of 1,000 bags per hour.

Pacific Car fabricated and erected 70 tons of structural steel for this new addition to Seattle's industrial facilities. The major part of this tonnage was used for the silo bottoms and walkways.

Regardless of whether your need for fabricated steel is large or small, let Carco help you solve your problems. Remember, Pacific Car offers buyers of structural steel not only the largest fabricating facilities in the Northwest, but also a "one stop" steel service. This means money-saving ideas and suggestions, promp engineering detail and estimates, fabrication and erection.

PACIFIC CAR AND FOUNDRY COMPANY

STRUCTURAL STEEL FABRICATION AND ERECTION, STEEL CASTINGS, FORGING, HEAT TREATING, MACHINING, HOT DIP GALVANIZING, TRACTOR EQUIPMENT: Winches, Hoists, Arches, Log Carts, Rigging.

CARCO®

STRUCTURAL STEEL DIVISION—120 W. HUDSON—SEATTLE 4—RAinier 5355 MAIN PLANT AND OFFICES—RENTON, WASHINGTON—OLive 4511

T-square talk

about architects • planners • engineers

NEW OFFICES: Donald Lutes, formerly with the architectural firm of Wilmsen & Endicott in Eugene, has opened a design office in the U.S. National Bank Bldg. in Springfield. A resident of that city since 1949, he is serving as chairman of the Springfield Planning Commission.



LUTES

Lutes holds a degree in architecture from the University of Oregon, is an associate member of the Southwest Oregon chapter, AIA, and a member of the Society of American Military Engineers.

Frank L. Shell, a graduate of Washington State College, has opened an architectural office at 8313 S.W. Barbur Blvd., Portland. Among the Portland firms for which he has worked are Stewart & Richardson, Hollis Johnston and Wolf & Phillips.

NEW NAME: One of the oldest architectural firms in Los Angeles, Parkinson, Powelson, Briney, Bernard & Woodford, has become Woodford & Bernard. C. Day Woodford, AIA, joined the firm in 1940 and L. G. Bernard, AIA, in 1936.

Both Briney and Powelson will remain in the organization although their names will not appear in the designation of the firm, founded in 1895 by the late John Parkinson.

NEW PARTNERSHIP: John C. Lindahl of Bellevue, Wash., has announced the formation of a partnership to be known as Lindahl & Bacon, architects, in the 411 Building on 104th Ave. N.E. For the past six years Douglas Bacon has been associated with Lindahl, who established his practice in Bellevue 10 years ago.

NEW ASSOCIATE: Norman J. Hamill & Associates of Butte, who have moved from 404 Medical Arts Bldg. to 122 W. Granite St., announce the admission of Merle C. Whitney to associateship in the architectural firm. He is in charge of the Idaho Falls, Idaho, office.

RESIGNS GUILD POST: B. Dudley Stuart, AIA, founder of the Craftsman's Guild of Washington in 1939, has resigned as secretary-treasurer of the organization. He has been succeeded by Ralph E. Spencer, craftsman in ceramics.

For the past several years Stuart has operated an architectural practice in the Lloyd Building under his own name. Earlier he was associated with Robert L. Durham in the firm of Stuart & Durham for 10 years.

ON THE MOVE: Kistner, Wright & Wright, architect-engineers, announce the removal of their offices to 1125 W. Sixth St., Los Angeles.

Lin B. Bissell of Yakima, Wash., has moved his office in the Ward Building to his home at 1503 Belmont Ave.

CANDIDATE: Ernest F. Winkler, 43-year-old San Francisco architect who lives in Sleepy Hollow, has indicated that he will run for the new Marin County lay board of education.

AIA activities

Washington State: Mogens Koch, professor of architecture at the Danish Academy of Fine Arts, Copenhagen, was featured speaker at the chapter's April 6 meeting in Seattle's Benjamin Franklin Hotel. His remarks on "Danish Applied Art" were illustrated with color slides of his country's industrial art.

Seven craftsmen in the building trades received certificates for superior work. Lawrence Waldron of the honor awards committee announced the awards: Marvin C. Benham and Willis P. Elliott for their company's excellence in painting; J. M. Boersema for custom precision metal work; Frank R. Bogue for wood turning; Carl Engstrom for millwork; Earl Morrison for carpentry; Frank E. Hagstrom for carpentry and cabinet making; and Stuart O. Phillips for carpentry and millwork.



CERTIFICATE for superior craftsmanship for painting is presented by Lloyd J. Lovegren (left), who heads Washington State chapter, AIA, to Willis P. Elliott and Marvin C. Benham.

An award for superior execution and design was presented Jean Johanson for rock mosaics, especially that mosaic in the East Shore Unitarian Church.

Oregon: Entries in the chapter's first annual honor awards competition and presentation are to be received by Walter Gordon, chairman, by May 19. Corporate, associate and junior associate members are eligible to enter buildings of all types constructed since 1950.

The three judges will be one practicing architect from Portland, one from Seattle and one faculty member from the School of Architecture, University of Oregon. Certificates of merit will be awarded to winning architects and owners at an honor awards banquet planned for Tuesday, June 19.

Women's League: The annual Tour of Homes sponsored by the Women's Architectural League of Oregon will be held May 12 in the vicinity of S.W. Skyline Blvd. in Portland, according to Mrs. Wallace Hagestad, chairman. Homes to be viewed are: Jennings F. Suitor residence, designed by Pietro Belluschi, with landscaping by Walter and Florence Gerke; Edwin O. Mittelstadt, by Donald Blair; Mrs. Roger Newhall Sr., by John K. Dukehart; Robert Fletcher, by William Fletcher; and Bud Fraser, by Van Evera Bailey.

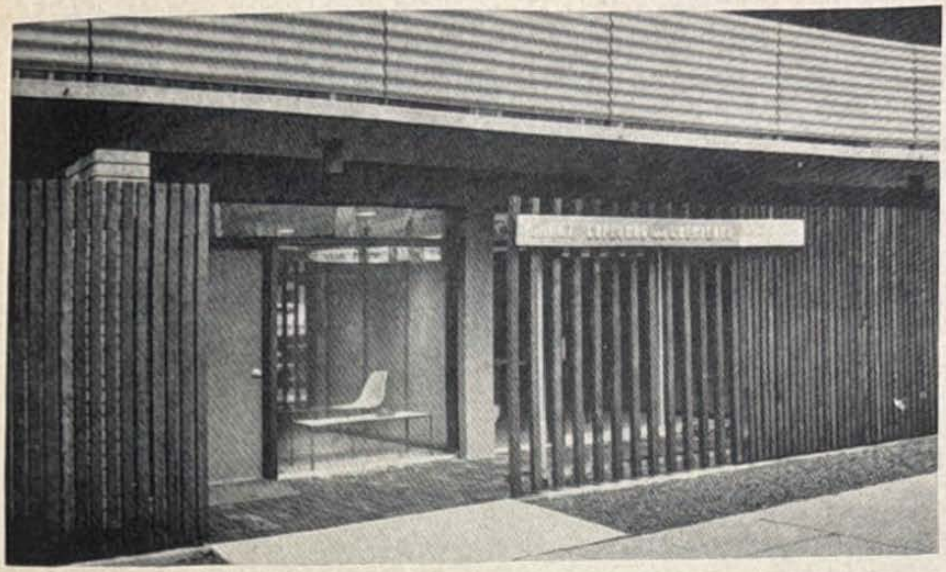
Prior to the tour Mrs. Walter Gordon has arranged an exhibit in the Pacific Power and Light Building of the work of senior architectural students at the University of Oregon. The tour is a scholar benefit for a senior student. A lecture will be held May 10 at Lincoln High School Auditorium, and all participating architects will be present except Belluschi.

California Council: John Lyon Reid of San Francisco is the 1956 president of the California Council of Architects.

Other new officers: William Glenn Balch, Los Angeles, vice president; Lee B. Kline, Pasadena, secretary; Albert B. Thomas, Central Valley, treasurer; and Frank Treseder, Coast Valley, member at large.

Named at the annual organization meeting in Monterey, Reid succeeds Henry L. Wright of Los Angeles.

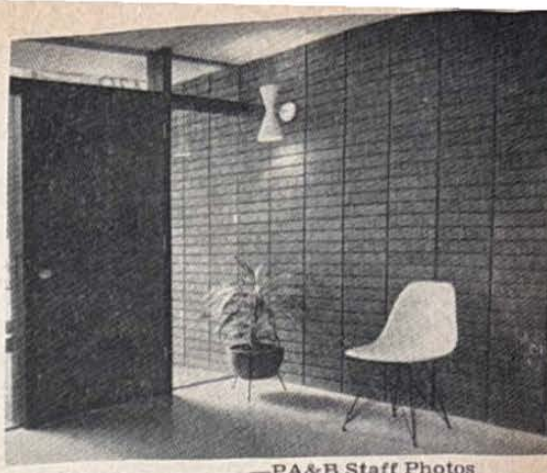
Where architects hang their hats



GRANT, COPELAND & CHERVENAK
Seattle, Washington

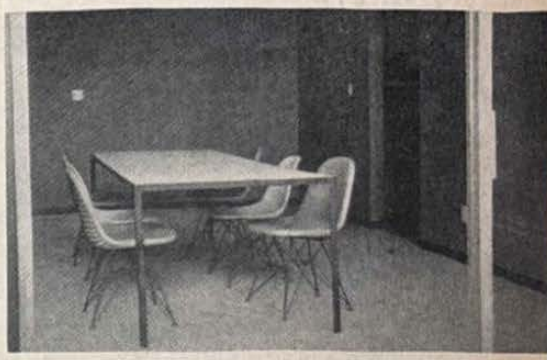
The architects occupy the ground floor of one leg of the L-shaped Summit and Howell Apartments building which they designed. Their offices are surrounded by stained rough sawn cedar 2x2s which, along with yellow spandrels and balconies, accent the off-white framework of the concrete block structure.

At the further end of the reception area a free standing screen which is used for renderings — an original painting will hang there later—conceals the contractors' area and serves as a passageway to a private office and the drafting room.



—PA&B Staff Photos

BRICK WALL seen at left carries into reception area (above). Conference room (below) has snack bar off to right and sliding aluminum doors leading to enclosed court to be planted later. Floors are covered with asphalt tile.



FORMULA FOR HIGHEST VALUE IN BUILDING

Desirability divided by Price, equals Value.

$\frac{D}{P} = V$

REINFORCED BRICK MASONRY

FOR + VALUES IN BUILDING

+1. Maintenance-free beauty of brick.
+2. Optional interior finishes — plaster, panelling, or face brick.
+3. Same structural wall at cost comparable to architectural concrete.
+4. Less structural steel required.
+5. Greater wall height without pilasters.

For the Future
Build Today With RBM.
Ask Your Architect!

WASHINGTON BRICK & LIME CO.
Spokane • Portland • Seattle

Materials – Products – Tools

and the latest literature

DRAFTING INSTRUMENT: Architects, engineers and others who must often sketch away from the traditional drawing board can now obtain a drafting instrument that can cover an area 11x17 in., yet fits snugly into a man's pocket.

The Draftette, the result of two young engineers' annoyance at the necessity of carrying rulers, protractors, T-squares and triangles into the field for routine sketches, is a precision instrument with all scales machine calibrated to .0005 of an inch. Made of anodized aluminum, it clamps to sketch pad or drawing board.

(Item No. 1)

AIR CONDITIONING: A versatile air conditioning unit that can be used as a room divider, recessed completely



VERSATILE AIR CONDITIONER

into the wall underneath a window, furred into the ceiling or suspended from the ceiling has been developed by Carrier.

Called Room Weathermakers, they use remote sources of refrigeration and heat and permit individual zone control of temperature. Units are available in cooling capacities for ½- to 1½-tons and air handling capacities from 200 to 600 cfm.

(Item No. 2)

PICKUP TRUCK COVER: Plans for a demountable pickup truck cover which can be used as an office for the construction boss have been prepared by the sales engineering department of Masonite and are available free of charge.

(Item No. 3)

BUILDING STONE: A natural-face cast building stone has been developed to satisfy the demand for distinctive building material in both the home and commercial market. The method of fracturing green concrete to produce the 24-in. long stone was invented by a retired mason and is now being marketed by Matson.

Called Highland stone, it is available in several blending and contrasting colors, comes in 2- and 4-in. widths and is the same depth as brick.

(Item No. 4)

ACOUSTICAL TILE: Armstrong Cork is marketing a mineral fiber acoustical tile, striated to create a textured surface for a more interesting ceiling pattern. Called Crestone, it can be installed by cementing or by mechanical suspension. Tiles come in 12x12-in. and 12x24-in. sizes.

(Item No. 5)

ELEVATOR: For such installations as hospitals, churches, apartments, office buildings and large homes, Elevator Service has developed an oil hydraulic personnel elevator that can be installed for approximately the cost of a fine automobile. No penthouse is required and the operating unit can be housed in a space no larger than that occupied by two office files.

(Item No. 6)

STEEL ROOF DECKING: T-Steel Corp. has provided data on a new type of long-span steel roof decking in the



NEW TYPE ROOF DECKING

Northwest that is particularly adaptable to school and finished one-story building construction such as supermarkets and office structures. Along with engineering tables and details, the 12-page catalog gives information on earthquake resistance, lighting fixtures and acoustical installations.

(Item No. 7)

PIPE PUSHER: For faster and more accurate underground pipe installation, Mercury Hydraulics is offering the Speed-Thru pipe pusher with models that will handle ¾- to 8-in. dia. pipe.

The hydraulic-powered Speed-Thru is operated by one man. Performance records offered by the company show pushes of 2-in. pipe as far as 186 ft. with less than 8 in. of deviation and average pushes of 75 ft. under streets and highways in 18 to 20 minutes through hard shale.

(Item No. 8)

FLUORESCENT LIGHT: For printers, lithographers, commercial artists and others who perform precision color tasks, Duro-Test has developed a fluorescent lighting unit that covers the full spectrum range and provides the equivalent of natural lighting entering a north skylight at high noon.

Designed to provide the best light for exacting comparison of colors, the unit uses a mixture of six 40-watt fluorescent lamps comprised of four Super Delux 45 and two standard blue in a Plexiglas and steel fixture.

(Item No. 9)

CEMENT ADMIXTURE: An admixture that provides effective control of setting time even in high temperatures has been developed by the building products division of L. Sonneborn Sons.

Called Sonotard, the material under test conditions has been shown to produce 28-day specified strength as early as the seventh day. Sonotard slows up the setting of concrete and mortar mixes for more effective control of mixing, placing and finishing. It also produces higher compressive strength, reduced permeability, minimum shrinkage and superior, denser finishes at reduced cost.

(Item No. 10)

WINDOW FRAME: Designed primarily for tract building is the Panaview aluminum window frame which is said to save substantial installation costs because it is nailed to the rough opening and uses stock glass.

The Panaview has integral, nail-on fins at top, bottom and sides. These are nailed to header, sill and sides of the rough opening. Expensive surrounds and fine adjustments are eliminated.

(Item No. 11)

CABINETS: Solid oak and oak-ply hardwood are combined in the preassembled, prefinished AristOAKraft cabinets marketed by Harris. Two-ply matched grain oak on solid hardwood core is bonded to solid oak edges on doors, fronts and other exposed areas.

The line includes standard units for kitchens, baths, utility rooms, storage centers and special installations.

(Item No. 12)

ALUMINUM COATING: Duncan-Stewart Industries, in conjunction with Alcoa, has developed an aluminum coating that can be used on any surface for waterproofing, protecting and decorating.

Available in six colors, Ore-Ite

forms a protective waterproof coating for concrete or cinder block wall and on downspouts, gutters and flashing. It substantially reduces heat loss when applied to furnaces, ducts and pipeline and is also recommended for roofs and siding on industrial buildings, barns and homes.

(Item No. 13)

DRAWING BOARD: For executives and supervisory personnel whose jobs call for a little drawing or drafting in addition to regular desk duties, Arnot is offering a board that tucks away in a center drawer.

The Foldaway drawing unit consists of a complete drawer, drawing board and parallel rule. It can be easily bolted or screwed to a conventional desk or table top.

(Item No. 14)

Latest Handbooks, Manuals and Literature

Yours for the Asking

HIGH STRENGTH BOLTS: As a working guide for ironworkers on the technique of joining structural steel members, Burdsall & Ward has prepared a pocket-sized manual called "How to Work with High Strength Bolts."

Sections include hand wrenching, power wrenching, data on proper tightening, calibration of impact wrenches, air supply and inspection techniques, tables of recommended torques, all written in a non-technical manner.

(Item No. 15)

CURTAIN WALLS: Data that will help the architect in designing curtain walls is incorporated in a 12-page booklet offered by Alcoa.

Subject matter covers kinds of systems, construction types, installation methods, forms of aluminum, design considerations, finishes and protective coatings. Numerous photographs, drawings and charts are included.

(Item No. 16)

WOOD TRUSSES: Versatility is the theme of a 24-page pictorial booklet showing many types of buildings constructed with the Teco connector system. Included are stores, supermarkets, factories, warehouses, theaters, garages and hangars, many of them in the West.

(Item No. 17)

INDUSTRIAL LIGHTING: Important revisions on both incandescent and fluorescent industrial lighting units are included in the 1956 edition of RLM Standard Specifications.

The 35-page book offers new coefficient of utilization tables for eight



LIGHTING STANDARDS

different incandescent and fluorescent lighting units. Also included are newly revised light distribution curves on RLM direct and semi-direct fluorescent lighting units.

(Item No. 18)

PORCELAIN ENAMEL: A well-illustrated brochure describes exterior and interior design possibilities of Porcelpanels, manufactured by Ingram-Richardson.

In addition to basic data on porcelain enamel panels, the brochure includes factors the architect should keep in mind in planning, installation methods, drawings of typical construction details and specifications.

(Item No. 19)

HARDBOARD: Four basic steps in proper application of hardboard are illustrated with brief text in a handy pocket-sized folder put out by Forest Fiber Products. Conditioning, joint treatment, nailing and backing and finishing are covered.

(Item No. 20)

INSULATION: Johns-Manville offers a 20-page catalog on insulation material manufactured by the company.

Prepared for quick and easy reference, the catalog briefly sketches composition, physical and thermal properties and sizes of the products.

(Item No. 21)

MASONRY CONSTRUCTION: Fundamentals of sound, watertight masonry are detailed in an information-packed booklet written by Walter C. Voss, professor emeritus from Massachusetts Institute of Technology and until recently head of the department of building engineering and construction there.

Called "Exterior Masonry Construction," it covers types of structural frames, types of masonry units, types of mortars, wall assemblage details, climatic effects and recommended construction practices. While this is not a booklet for casual browsing, it is written in an easy-to-understand manner.

Included in the 70 pages are 36 photographic and schematic illustrations and a two-page bibliography.

(Item No. 22)

ROOF DECKS: Tectum wood fiber roof planks and tile are described in a 16-page brochure recently prepared by the company. Photographs, installation drawings and pictures and specifications accompany brief text.

The company also has prepared two brochures on Tectum wood fiber sidewall insulation panels and acoustical ceiling panels.

(Item No. 23)

SLIDING GLASS DOORS: Illustrations in color highlight a 12-page brochure on Ador all-aluminum sliding glass doors. Installation details, drawings for both dual- and single-glazed doors and general specifications are given.

(Item No. 24)

HONEYCOMB ADHESIVES: A brief brush-up course on honeycomb structures is contained in a 20-page technical bulletin on 3M adhesives put out by Minnesota Mining and Manufacturing.

The bulletin gives test procedures and results of testing new resin-type and elastomeric adhesives used for bonding aluminum to kraft paper honeycomb core. Drawings and graphs illustrate the text.

(Item No. 25)

READER SERVICE

Pacific Architect and Builder
2418 Third Ave., Seattle 1, Wash.

Please send the literature or data about the material, products and tools listed on these pages.

APRIL 1956

ITEM NO. (Circle those you wish): 1 2 3 4 5 6 7 8
9 10 11 12 13 14 15 16 17 18 19 20
21 22 23 24 25 26 27 28 29 30 31 32

Name_____ Title_____

Firm_____

Address_____

City_____ Zone____ State_____

Builders and Suppliers

headlining the news

West Coast builder heads regional veeps of NAHB

Chairman of all regional vice presidents of the National Association of Home Builders is John A. Jacobson of Rancho Cordova, Calif., president of Jacobson Construction Co. He will represent the 20 regional heads at meetings of the NAHB executive committee.



JACOBSON

Other West Coast regional vice presidents are Irving C. Jordan of Los Angeles and E. J. McClellan of Portland.

California also is represented in the 1956 slate of officers, with Nels Severin of San Diego serving as second vice president. Other national officers: Joseph B. Haverstick, Dayton, Ohio, president; George Goodyear, Charlotte, N. C., first vice president; Martin L. Bartling Jr., Knoxville, Tenn., secretary; Carl T. Mitnick, Merchantsville, N. J., treasurer. Haverstick succeeds Earl W. Smith of El Cerrito, Calif.

August Rahlves of Oakland and Frank W. Cortright of San Francisco (honorary) are West Coast members of the executive committee in addition to Severin, Smith, Jacobson and Jordan.

• **Salem (Ore.) Master Builders,** new affiliate of the NAHB, has named Glenn Hamilton, president; George Johnston, vice president; and James Minty, secretary-treasurer.

• **Seattle Master Builders Association** has appointed Joseph A. Martineau to the new position of field director to serve as a liaison officer between the group and the housing industry. Formerly a building inspector for the city building department, he has served on the mayor's housing committee and as chairman of the executive board of the Seattle Housing Center. From 1947 to 1952 Martineau was chairman of the King County Rent Advisory Board.

• **Charles R. Kreiensieck** has been elected president of the Boise affiliate of the NAHB which was organized last month. Other officers: Earl Hardy, first vice president, and DeWayne Bills, second vice president and treasurer. The secretary will be appointed by the directors.

• **Herman H. Rappaport** has formed Rappaport Construction Co., with temporary headquarters in Torrance, Calif., to specialize in tilt-up and prestressed concrete projects. He has served as engineering construction manager of factory construction for McDonald Bros.

During World War II Rappaport played a key role in the atomic energy program at Oak Ridge. He has also been engaged in activities on behalf of Bechtel Corp., Carbide and Carbon Chemicals, and Standard of New Jersey.

• **Building Contractors Association of California** has formed two new chapters to serve members in specialized fields: subcontractors and commercial-industrial builders. Edward Johnson and Henry Deley of Pasadena were instrumental in forming the former, while Ben Earl of Pasadena and Al Krumvieda of Norwalk spearheaded the latter.

• **Salem (Ore.) Contractors Exchange** has named M. L. Mills, president; Willis A. Hill, vice president; and Richard Lawrence, secretary-treasurer.

• **Edward P. Miller,** Tacoma builder, returned from Mexico last month with a 2-ft. gold cup for winning the Acapulco Derby, sponsored by the NAHB in cooperation with Minneapolis-Honeywell Regulator Co. His sailfish topped the scales at 126 lb.



FISH STORY—but it's true! The 126-pounder caught by Edward P. Miller of Tacoma won annual NAHB Acapulco Derby. Assisted by his wife, he netted three sailfish during stay at Mexican resort.

Accompanied by Mrs. Miller, the builder enjoyed a 10-day, all-expense paid trip to the fishing resort and Mexico City as Northwest regional winner of the NAHB home merchandising contest. His entry, Starliner model home in Skyline Terrace overlooking Puget Sound, was judged the best in Region 14, which includes Washington and Oregon.

Suppliers

• **Tedrick Bros.** of Kent, Wash., has franchised FashionFab of California to merchandise its line of wardrobes, cabinets and linen closets, according to Howard W. Kratzer, sales manager of the manufacturing firm. Main offices of the newly formed sales organization are at 1013 Pico Blvd., Santa Monica, under the direction of Nate Bundy, general sales manager. A branch office at Fresno is headed by Frederick H. Lewis.

FashionFab has appoined W. P. Fuller & Co. exclusive distributor in the West for Tedrick's line of metal, wood trimmed medicine cabinets.

All products manufactured by Tedrick are marketed with the trade name FashionFab.

• **Frank Benzon,** president of Timber Structures, Inc., of California, as head of the American Institute of Timber Construction, welcomed delegates from all parts of the country and Canada to its fourth annual meeting in Washington, D.C., April 2-6. Another member of the Richmond firm, MacGregor Graham, chairmaned the public information sessions.

L. A. Jacobson, general manager of Associated Wood Products of Berkeley, Calif., and a director of the institute, presented a paper.

• **Unit Masonry Association** of Seattle will hold its third annual architectural scholarship and awards banquet in the Washington Athletic Club May 22, according to Lloyd Beck, president.

The association will award a $250 scholarship to a fourth year architectural major to be selected by the staff of the Schol of Architecture at the University of Washington. A number of awards of merits also will be presented to students who in the course of their regular classroom projects have shown superior understanding of the design and structural qualities of unit masonry materials—brick, concrete block, stone, glass block and structural glazed tile.

• **Western Structural Tile Institute** is the name of a new organization formed by two tile manufacturers: Kraftile Co. of Niles, Calif., and Washington Brick and Lime Co. of Spokane. The companies, through the institute, are developing grading rules, specifications, uniform sizes and shapes which will standardize production.

Washington Brick is pushing to completion its new tile plant in Spokane, with an expected production schedule in June.

• **Peerless Pacific Co.** of Portland has appointed Joe D. Ingram to head its new gas appliance sales division. He previously was residential sales manager of Portland Gas and Coke Co. and manager of a propane gas and appliance distributorship in Anchorage, Alaska.

• **Superaire Corp.**, furnace subsidiary of General Water Heater Corp., has moved into new buildings on Coldwater Canyon Road in North Hollywood.

• **Aluminum Company of America** has named J. T. Barclay fabricating works manager of its Vancouver, Wash., operations, replacing E. D. Mairs who has become manager of Alcoa's Lafayette, Ind., works. Barclay, a 21-year Alcoan, has been assistant fabricating manager at Vancouver since January 1955. His new assistant is L. W. Meyer from Alcoa's Pittsburgh staff.

• **Weyerhaeuser Timber Co.** has named John B. Bishop branch manager at Klamath Falls, Ore., to succeed David S. Troy who died March 5.

• **Pomona Tile Manufacturing Co.** had a premier of its 30-minute color film "Quality in Tile" during the annual sales meeting at the Hollywood Roosevelt Hotel last month. Representatives from the western states, Kansas, Illinois and Missouri also viewed new tile patterns and heard president Drew Schroeder's program to expand production through improvements in both the Pomona, Calif., and Arkansas City-Winfield, Kan., plants.

• **Duncan Wood Gutter Co.** has moved its Seattle lumber treating plant to Auburn, Wash., providing increased facilities to supply Woodlife products, according to William A. Duncan who heads the firm with his son Paul.

• **Pioneer Manufacturing Co.** of Los Angeles has appointed A. L. Lockwood, formerly manager of Viking Appliance Corp. of South Gate, to the post of sales manager.

The company also has named William Bucknum, San Francisco sales manager, to a similar position with its subsidiary, Pioneer Range Co. Bucknum will continue to direct sales activities for the parent firm in northern California.

• **Chapman Manufacturing Co.** of Corvallis, Ore., has been purchased by Evans Products Co., whose executive offices are at Plymouth, Mich. No change in present personnel or management is contemplated, according to E. S. Evans Jr., president of the controlling firm.

W. J. Ritchie, Evans vice president, will direct sales of the hardboard produced by Chapman, marketed under the name Oregonbord.

The Corvallis plant becomes the fifth that Evans now owns and operates on the West Coast. Others are located at Gold Beach, Roseburg and Coos Bay, all in Oregon, and at Vancouver, B.C.

• **Peerless Electric Co.** of San Francisco has added Arthur O. Williams to its staff of sales engineers to augment the regular San Francisco-Oakland Bay area personnel as part of a general expansion program.

• **Goodyear Rubber and Asbestos Co.** of Portland has named Arthur H. Allen, sales manager for the past 10

IN STEP with advanced school design...

HAWS Deck-Type Drinking Fountains meet the demands of your school building program for improved water facilities inside the class room! Your choice of optional combinations of HAWS Faucets and Fixtures make these fountains adaptable to *all modern classroom needs.* Teachers and students alike, benefit from HAWS!



Series 2400
Model 2444



Series 2000
Model 2050

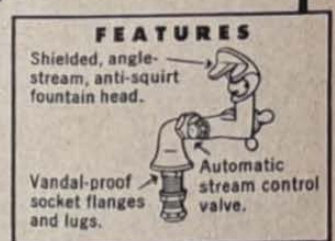


Series 2300
Model 2350



Series 2200
Model 2255

FEATURES



For the **latest** school design...

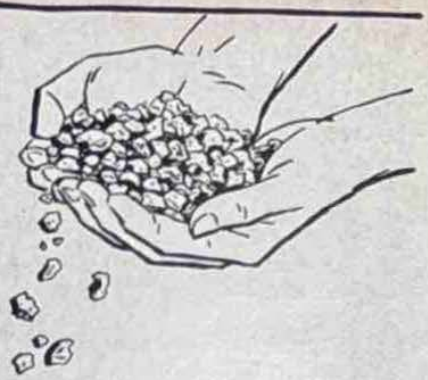
Specify the **latest**... HAWS DECK-TYPE DRINKING FOUNTAINS!

Write today... for the New HAWS Catalog!

In addition to the complete line of fountains, HAWS also features electric water coolers and emergency eye-wash fountains... and, **KRAMER FLUSH VALVES,** for all plumbing fixtures that require an automatic closing valve.

HAWS DRINKING FAUCET CO.

1443 FOURTH STREET (Since 1909) BERKELEY 10, CALIFORNIA



These hands hold the answer to your concrete masonry needs...

CASCADE PUMICE

You'll find the most satisfactory concrete masonry material is Cascade Pumice Concrete. Its beautiful coloring when used as broken-faced block, plus strength and high insulation value, gives you a better job with lower handling and labor costs. Write for the technical story of Cascade Pumice today.

Count on Cascade Pumice Concrete for:



HIGH INSULATION VALUE
FIRE RESISTANCE
LIGHT WEIGHT
STRENGTH

WILLIAMSON *Cascade* PUMICE

Plant and Office:
P. O. Box 1083 Bend, Oregon

years, to head a newly organized department devoted to the reasearch, development and application of new and existing items to industrial installations. T. R. (Ted) Ahlberg will succeed Allen as sales manager.

• **The Henry Co.** of Huntington Park, Calif., manufacturer of adhesives, sealers and coatings, has changed its name from The Henry Asphalt Co. because of the diversification of products which has taken place over the past five years. The firm has tripled its plant, office and laboratory facilities with a move to new headquarters at 5731 Bickett St. The 65,000 sq. ft. includes modern offices, material storage area and mixing facilities.

• **Graystone-Overlake, Inc.** is the name of a separate corporation formed by Graystone, Inc., at 13660 Sunset Highway, Bellevue, Wash. Hugh Watt, who has served since 1953 as manager of the plant, formerly known as Lakeside Concrete Products Co., is vice president of the new company.

Fredric M. Kettenring, who heads the parent firm in Seattle, reports that Graystone-Overlake has completed expansion of its services to embrace an all-inclusive line of masonry materials and supplies.

• **Sonic Specialties, Inc.,** of North Hollywood, Calif., has appointed two new West Coast representatives: Douglas Chappell of Oakland, covering northern California-Nevada, and Bland Simmons of Portland, covering Oregon-Washington.

• **General Controls Co.** has appointed W. B. (Bucky) Harris field representative for its Los Angeles branch. He has been employed by Southern California Gas Co. since 1939.

• **General Electric Supply Co.** has appointed K. P. Rehwaldt manager of its newy organized North Pacific supply and apparatus district with headquarters in Seattle. This district covers Washington, Oregon, northern California, Idaho panhandle, northwestern Montana and Alaska.

An electrical engineer from the South Dakota School of Mines, Rehwaldt started his GE career with the manufacturing department in Schenectady, N.Y., in 1941, moved to St. Paul as district sales manager in 1946 and came to the Northwest early this year.

• **Thor Power Tool Co.** has named C. B. Baron, former electric tool service engineer in its New York, Chicago and Los Angeles branches, to the post of West Coast zone manager for the firm's Los Angeles, San Francisco and Seattle territories. He will headquarter in Los Angeles.

CERAMIC ENGINEERING SCHOLARSHIPS

For the fifth year Gladding, McBean & Co. has announced the granting of two four-year scholarships in ceramic engineering at the University of Washington in Seattle. Applications must be on file with the university by May 1, 1956.

Primarily for the sons and close relatives of company personnel, the scholarships are nevertheless open to all interested parties. Gladding, McBean will pay all expenses up to $350 per year for four years to the recipients.

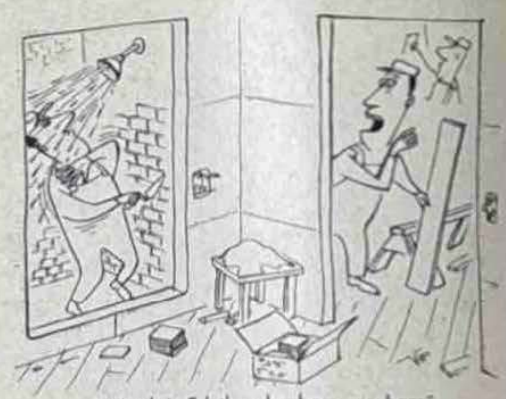
• **Powder-Power Tool Co.** of Portland has named J. K. Lightfoot to head its engineering department where he will develop new lines of fastening systems.

• **Kwikset Locks, Inc.,** of Anaheim, Calif., has named Robert T. Yerxa general sales manager. He has been associated with several southern California firms, including Gladding, McBean & Co. and Pacific Tile and Porcelain.

• **Oregon Portland Cement Co.** has named these appointments of two longtime employees: Kenneth T. Shipley, former sales manager, to vice president, department of sales, and Lawrence F. Newlands, former assistant secretary, to treasurer and assistant secretary.

• **Ajax Hardware Manufacturing Corp.** of Los Angeles has formed a separate organization, Ajax Hardware Sales, devoted exclusively to sales promotion, customer service and public relations.

• **Pabco Products, Inc.,** has opened a new $2.5 million gypsum plant in Newark, Calif., with L. K. Seeley as manager.



"Watch it, Ed, the plumbers are here"

Courtesy of Pomona Tile

• **Rilco Laminated Products, Inc.,** with general offices in St. Paul, has appointed Robert E. Eby chief engineer. A graduate of Oregon State College, he joined Rilco in 1954. Previously he was employed in the fabricated lumber department of Weyerhaeuser Sales Co.



EBY

From 1948 to 1953 Eby was assistant to the director of technical service of the West Coast Lumbermen's Association. During that time he was largely responsible for development of its "Standard Specifications for the Design and Fabrication of Structural Glued Laminated Lumber."

• **Northwest Hardwood Association** held its quarterly meeting in Vancouver, B.C., April 14. Major topics were "The California Market for Northwest Hardwoods" by Louis S. Kunert, Tropical and Western Lumber Co., Los Angeles; "The Manufacture and Uses of Hardwoods in British Columbia" by Dr. R. W. Wellwood, professor of forestry, University of British Columbia; and "The Management of Hardwood Timber Stands" by G. C. Warrack, British Columbia Provincial Forest Service.

• **California Steel Products Division** of Adsco Industries, Inc., Richmond, has appointed L. G. Janzow vice president and general manager. Joining the firm in May 1954, he has been serving as vice president in charge of engineering.

• **Johns-Manville Corp.** has announced plans to build two new plants on the West Coast: one to manufacture Transite asbestos-cement pipe products near Stockton, Calif.; the other to produce insulating board near Klamath Falls, Ore. The former initially will employ about 350 persons, the latter about 250. Both plants are expected to be in operation by midyear of 1957.

• **Arcadia Metal Products** has named Robert P. Reed southern California sales manager. The appointment parallels the firm's expansion program which separates the local sales office from the factory. The former is in Arcadia while the latter is in new quarters at 801 S. Acacia Ave., Fullerton.

Before joining Arcadia as a salesman in June 1954, Reed was manager of building products sales at Gladding, McBean & Co. for six years.

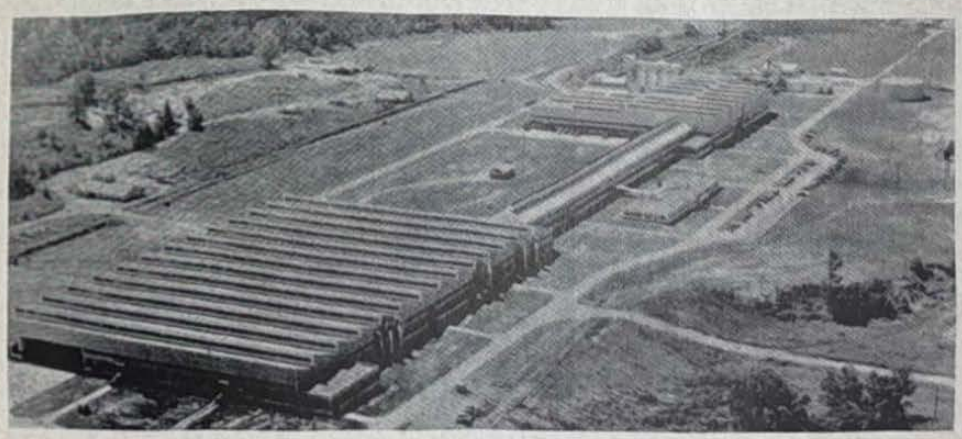
• **L. K. Bishop & Co.** of Oakland, building specialty wholesalers, have moved to enlarged headquarters at 751 E. Eighth St.

• **Bolt, Beranek & Newman, Inc.,** acoustical consulting firm of Cambridge, Mass., has opened a West Coast office at 435 S. La Cienega Blvd., Los Angeles. Dr. William J. Galloway is in charge of engineering activities and Jack B. C. Purcell, architectural acoustics.

The firm is serving as acoustics and noise control consultants on General Motors' $100 million technical center and was responsible for all acoustical installations at the UN headquarters.

• **Gladding, McBean & Co.** has signed the Puget Sound's first industrial contract for natural gas, an agreement calling for an expenditure of nearly $400,000 over a five-year period, it has been announced by Norbert O. Fratt, vice president in charge of sales for Washington Natural Gas Co.

Over one million cubic feet of natural gas per day will be fed to the plant from a special 8-in. lateral which will also serve other Renton industries



INSULATING BOARD PLANT to be erected by Johns-Manville Corp. near Klamath Falls, Ore., on Williamson River will look approximately like photo above. The $12 million operation, which will use jackpine lumber, is expected to be ready early in 1957. General construction plans will follow those used by company in its Natchez, Miss., plant.

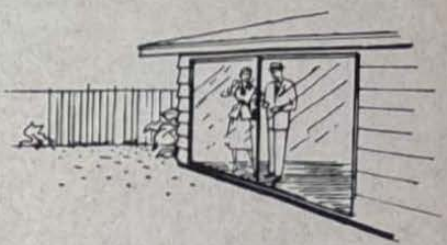
beckoning the home buyer...

In today's increasingly competitive home market, the seller must rely more than ever before on nationally recognized brands and features in competing for the attention of the buyer. National recognition of Arcadia quality, participation in prize-winning projects everywhere, and an overwhelming preference for Arcadia on every level of the current market are just three reasons why more buyers, builders and architects specify Arcadia steel or aluminum sliding glass doors. Your nearest Arcadia distributor can give you many more reasons. You'll find his name in the Yellow Pages.



arcadia

sliding glass doors



ARCADIA METAL PRODUCTS • FULLERTON, CALIF.

Distributors in Canada, Puerto Rico & throughout the U.S. • Natl. member Producers' Council, Inc., & Natl. Assoc. of Home Builders.

Help build a better America . . . See an architect

and housing developments. The system will be completed before natural gas arrives in the fall.

• **James A. Madden,** building specialties and construction materials supplier of Billings, has been appointed distributor of Teco Trip-L-Grip framing anchors throughout Montana.

• **R. F. MacDonald Co.** of San Francisco has been named manufacturers' representative for the sale of Cleaver-Brooks boiler equipment, covering the northern half of California and the western half of Nevada.

• **James B. Sunderland,** who organized Mutual Materials Co. of Seattle with Louis Hill and Oscar H. McGill in 1922, has retired from the board of directors and will move to Honolulu.

• **Robert L. Rice Co.** of Portland has been appointed distributor of Royal heating products.

• **Tapecoat Co.** has named two new West Coast distributors: Tay Holbrook, Inc., of San Francisco and Palmer Supply Co. of Seattle.

• **Woodwork Institute of California** has moved its headquarters from San Francisco to 1833 Broadway in Fresno and has named Bernard B. Barber Jr. executive secretary. Byron Taylor is institute president.

BUILDING BOOKSHELF

Selected Plans for New Air Conditioned Homes. Associated Plan Service, Inc., 384 New York Ave., Huntington, N. Y. 54 pp., 50c.

This booklet features home designs by 12 architects from all parts of the country. They range from contemporaries with low pitched roofs to two-story models, from low cost budget homes under 1,000 sq. ft. to luxury ones close to 3,000 sq. ft.

Government Bulletins

The following studies may be purchased from the Office of Technical Service, U.S. Department of Commerce, Washington 25, D.C.

PB-111154: What People Want When They Buy a House. $3.

The results show that 38% of the 1,000 home buyers interviewed were as much or more interested in location than in any particular feature of the house; 20% were looking for a house of a specific size; 25% for a satisfactory price; and others were looking first for a specific number of stories, living area, or lot size. The book has sections on likes and dislikes concerning eating arrangements kitchen, living room, etc.

PB-111652: The Cost of Municipal Services in Residential Areas. $2.

This volume is based on studies by Harvard University directed toward development of a technique to help measure the long-term costs of municipal services in different types of areas.



"SENTINEL" planned by Ronald Campbell of Seattle is among designs for air conditioned homes featured in booklet.

PB-111653: How to Make and Interpret Locational Studies of the Housing Market. $1.

A report from studies of the factors which enable local organizations to measure, analyze and predict trends in the locational aspects of housing markets. The urban area of Atlanta was chosen as the pilot area for the study.

R257-55: Thermal Conductance Factors for Preformed Above-Deck Roof Insulation. 5c.

A recommendation proposed by the Insulation Board Institute, providing five standard thermal conductance factors for thermal insulation manufactured and supplied in rigid or semi-rigid slab or board form, fibrous or cellular structure of organic or inorganic composition.

Housing Research Paper 33: Materials and Labor Analysis, Home Framing Systems. 123 pp., 65c.

A comparative analysis of 18 different wood framing systems to determine the relative economy and efficiency of each for single-family homes.

Complete telephone planning helps sell our homes faster



says SPALDING WATHEN,
President, San Joaquin Valley
Builders' Association,
Fresno, California

Today, home-builders and buyers alike know the value of complete telephone planning. "Its importance to modern family living is recognized by our Home Builders' Association," says Mr. Wathen. "The model home given away at our recent Spring Home Show has telephone outlets in every room and on the terrace as well."

To successful builders like Mr. Wathen, who are setting living standards in the Pacific West, good telephone planning is a *must*. Pacific Telephone is always ready to help you plan built-in telephone facilities. Just call us and ask for our *free* Architects and Builders Service.

Specify built-in telephone facilities —a sign of good planning

Pacific Telephone

Construction News Bulletin

Vol. 62—No. 8 (PA&B) News Section of Pacific Architect and Builder April 21 1956

D. F. McCormick ..... News Editor
G. M. Westman ..... News Staff
Win Romtvedt ..... Portland News Manager
S. S. Phillips ..... News Staff

Newsroom • 2418 Third Avenue, Seattle 1, Washington • Phone MAin 0285

BUILDING NEWS

Washington, Oregon, Idaho, Montana, Wyoming, Utah, Alaska

- ● Bids Called
- ★ Contract Awards
- ▲ Low Bids—Bid Received
- ■ Planholders—Prospective Bidders

OREGON

★BRANCH BANK— Albany, Ore.

Award to James S. Hickey, Inc., 523 S.E. Stark St., Portland, approximately $250,000, by U. S. National Bank of Portland, E. C. Sammons, president, 321 S.W. 6th Ave., Portland, for a branch bank at Second and Ellsworth St., Albany. Plans by Stanton, Boles, Maguire & Church, architects, 500 Concord Bldg., Portland. WB 4-18. Previous report 4-6

★UTILITY BUILDING— Alsea, Ore.

Award by (bids opened April 10) Oregon Fish Commission, 307 State Office Building, Portland, for construction of a utility building and appurtenant work at Fall Creek Salmon Hatchery on Fall Creek, approximately 16 mi. west of Alsea, Benton County, Ore. AWARD: W. G. Contractors, 7811 N.E. Tillamook St., Portland, $8,170.
WB 4-13. Previous report 3-21

LIBRARY— Astoria, Ore.

Voters to determine result of one-mill tax levy proposition at May primary election in Astoria for construction of a Clatsop county library at building site on 10th and Duane streets, Astoria. Measure sponsored by county library board and county veterans memorial library board. Levy return, estimated at $20,000, would add to the $60,000 new available for the project. SP 4-6

▲BUILDING ALTERATIONS— Astoria, Ore.

Bids received April 11, by 13th Naval District, Bureau of Yards and Docks, Rear Admiral R. H. Meade, chief of bureau, room 100, Building 232, U. S. Naval Station, Seattle, for building alterations Tongue Point Village, U. S. Naval Station, Tongue Point, Astoria, Ore.; NBy 1921. LOW BIDS: George F. Anderson, 1193 Grand Ave., $27,287; A. T. Duoos & Son, Box 222, $27,494; Albert Mittet, 905 Irving, $28,161; all of Astoria.
GW 4-13. Previous report 3-22

●SANITARY AND LUNCHROOM FACILITIES— Astoria, Ore.

Bids to be opened 2 p. m., P.S.T., April 27, by 13th Naval District, Bureau of Yards and Docks, Rear Admiral R. H. Meade, chief of bureau, room 100, Building 232, U. S. Naval Station, Seattle, for construction of sanitary and lunchroom facilities for Pier 7, at the U. S. Naval Station, Tongue Point, Astoria, Ore.; NBy-2000; Spec. No. 2000/56. $25 deposit. Bid bond 20%. Reinforced concrete and concrete masonry building on pile foundation.
GW 4-14

●GRADE SCHOOL— Canyonville, Ore.

Bids to be opened 8 p. m., May 1, by School District No. 8, Douglas County, Mrs. Helen Altree, clerk, Canyonville, Ore., for new grade school at Canyonville. Plans with Freeman, Hayslip, Tuft & Hewlett, architects, 2040 S.W. 3rd Ave., Portland. $25 deposit. Certified check, cashier's check or bid bond 5%.

School includes eight classrooms, small multi-purpose room, office, storage, office, and large covered play area. Masonry block construction; dash coat of stucco on exterior; joist and laminated beam roof structure; insulation and built-up roof; alternate bids for wood, steel or aluminum sash; glass block top lights over classrooms; painted block interior walls; asphalt tile flooring; acoustical tile ceilings; fir cabinets; gas-fired heating units in each room; fluorescent and incandescent lighting; asphalt paved walks and bus loading areas. WB 4-17

★CLINIC ADDITION— Corvallis, Ore.

Award by Corvallis Clinic, Corvallis, for addition to the clinic. Plans by Dougan & Heims, architects, 401 Royal Bldg., Portland. AWARD: Starr Builders, 1765 S. Main St., Lebanon, $80,713. 2ND LOW: Weston Construction Co., 7415 N.E. Glisan St., Portland, $81,700. 3RD LOW: John M. Steinmuller, Jr., 907 W. 3rd St., Eugene, $86,098. Bids opened April 12.
WB 4-18. Previous report 4-5

▲SCHOOL— Corvallis, Ore.

Bids received by Consolidated School District No. 9, in the office of the superintendent, City Hall, Corvallis, for construction of a primary school building and other work at Roosevelt School, 1316 Western Ave., Corvallis. LOW BIDS: Grubb, Johnson & Rose, Crees Bldg., Corvallis, $47,410; Steinmuller Construction Co., 907 W. 3rd St., Eugene, $49,388; L. H. Burkett, 1615 Hall Lane, Corvallis, $48,700. Bids opened April 13.
SP 4-18. Previous report 4-10

●GYMNASIUM— Dodson, Ore.

Bids to be opened 8 p. m., April 23, by School District No. 46, Multnomah County, Mary Wallner, clerk, Bonneville School, Dodson, Ore., for addition of gymnasium to the school. Plans with Nelson A. Hodges, Jr., architect, Route 3, Box 228, Tigard, or 619 Builders Exchange Bldg., Portland. $25 deposit. Certified check or bid bond 10%. John Bonebrake, 513 Dekum Bldg., is mechanical engineer, and Fritz Klawa, 1220 S.W. Stark St., electrical engineer.

Concrete block addition with concrete end walls, insulating roof slab and built-up roof. Basic bid covers two bays; two alternates for one additional bay each. Dry-wall interior; wood floors covered with asphalt tile.
WB 4-13. Previous report 7-19

■ARCHITECTURE SCHOOL ADDITIONS— Eugene, Ore.

Additional planholders announced for construction of an architecture unit to the School of Architecture and Allied Arts at University of Oregon, Eugene. Bids to be opened 3 p. m., April 24, by Oregon State Board of Higher Education, Earl M. Pallett, secretary, room 203, Benson Hotel, Portland. Plans with Annand, Boone & Lei, architects, 1530 S.W. Taylor St., Portland. $50 deposit. Bid bond or certified check 10%.

Separate bids on general, mechanical and electrical work.

Additional planholders—GENERAL: Albert Vik & Son, 160 Madison St., Eugene. MECHANICAL: Industrial Plumbing & Heating Co., 2838 N.E. Columbia Blvd., Portland. ELECTRICAL: Electric Corp., 1270 Wilbur St., Salem; Steek Electric, 633 S.E. Stephens St., Roseburg.
WB 4-11. Previous report 4-4

SHOPPING CENTER— Eugene, Ore.

Plans have been announced by Arthur M. Gilbert & Sons, 3506 Royal Ave., Eugene, for construction of a 10-acre shopping center in Fairfield Village, between Highway 99 and Elmira Road, Eugene. The project will include a supermarket, shops, drug store, department store, medical-dental offices, service station; area to extend along 660 ft. of Highway 99 frontage; off the street parking for 500 vehicles.
DW 4-13

SENIOR HIGH SCHOOL— Eugene, Ore.

(Estimated cost $1,827,000 to $2,140,000)

Bids will be called early in June by Eugene School District No. 4, Clarence Hines, superintendent, 275 E. 7th Ave., Eugene, for a new north Eugene senior high school on Silver Lane in the River Roas area. Plans underway by Freeman, Hayslip, Tuft & Hewlett, architects, 2040 S.W. 3rd, Portland.
DW 4-17. Previous report 12-31

● RESIDENCE— **Eugene, Ore.**

Bids will be opened 1:30 p. m., April 24, by Balzhiser & Seder, architects, 1920 Franklin Blvd., Eugene, for construction of a residence for Dr. John Tysell, c/o architects, Eugene. Specifications with architects.

Wood frame; brick veneer; 2,700 sq. ft. floor space plus double carport; built-up roof; plaster walls; vinyl and ceramic tile; metal fireplace; sliding glass doors; wood cabinets; thermal insulation; floor carpeting. DW 4-18

CITY HALL, FIRE HALL— **Forest Grove, Ore.**

Bond election will be held May 8 by City Council, City Hall, 1924 Council, Forest Grove, for $60,000 to finance remodeling of city hall and half the cost of site and construction of a new fire hall. Program in cooperation with rural fire district and a similar bond election will be held there. Date not set. SC 4-6

★ TELEPHONE COMPANY ADDITION— **Gold Hill, Ore.**

Award announced by Pacific Telephone Co., Gold Hill, for construction of one-story, 21'x25' addition to the company's concrete block equipment building in Gold Hill. AWARD: H. Barnhart, 722 Dakota Ave., Medford, $7,600. ONLY OTHER BID: Wiley Co., Ashland, $7,892. SC 4-13

▲ CHURCH— **Klamath Falls, Ore.**

Bids received in the church parlors at Pine and N. 6th Streets, Klamath Falls, by the architects, Morrison and Howard, for demolition of the existing brick church at Pine and N. 6th Streets and construction of a new church for First Presbyterian Church in Klamath Falls. LOW BIDS—CONSTRUCTION: Burkhard Construction Co., 4867 Harlan Drive, $128,950; Thompson & Georgeson Co., 1924 S.E. 6th Ave., Portland, $135,452; Charles Kerr, Keno Road, $139,976. All bidders of Klamath Falls unless otherwise noted. DEMOLITION: California Building Wrecking Co., Sacramento, Calif., $4,865; Ballinger Wrecking Co., 24 California St., San Francisco, Calif., $5,645. Bids opened April 12. ZZ 4-17. Previous report 4-4

HOUSING— **Klamath Falls, Ore.**

Plans outlined by Harry Daum of Equitable Life Assurance Co., Anglo California Bank Bldg., Redding, Calif.; Robert Kennicott, 2285 Paris, Redding; Don Dysert, Macdoel, Calif., for a housing development in Klamath Falls. Construction to start April 15.

Project includes 200 homes in Lakeview Heights section of the Buena Vista Addition to Klamath Falls; two 20-unit apartment houses on Union St. between Mitchell and Washburn Way in Klamath Falls. Estimated cost $10,950 to $16,000. Ron Fisher, 111 S. 4th, and Andi Silane, 631 S. 6th, Klamath Falls, is in charge of real estate transactions. ZZ 4-17

● BUILDING ADDITIONS, ALTERATIONS— **Medford, Ore.**

Bids to be opened 2 p. m., May 9, by Pacific Telephone and Telegraph Co., G. F. Zolling, chief engineer, 509 S.W. Oak St., Portland, for additions and alterations to the North Central Avenue Exchange, Medford. Select list of bidders. Plans by Church, Newberry & Roehr, architects, Kurt P. Schuette, associate, 619 Builders Exchange Bldg., Portland. Plans on file at Builders Exchanges, Eugene and Portland.

Planholders: Guske Bros., 2610 Onyx St., Eugene; Waldo Hardie & Son, 858 Pearl St., Eugene; Smith-Phillips, 7402 S.W. Macadam Ave., Portland; H. Barnhart, 722 Dakota St., Medford.

Reinforced concrete construction; architectural concrete finish; some terra cotta; steel sash; insulated, built-up roof; mechanical suspension ceiling system; concrete masonry units and glazed blocks; most partitions movable steel; metal toilet partitions; ceramic tile flooring in toilets; continuation of existing heating with addition of air conditioning in some areas; owner to furnish lighting and floor covering. WB 4-17

● SCHOOL ADDITION— **Molalla, Ore.**

Bids to be opened 8 p. m., May 1, by School District No. 35-C, Clackamas County, K. R. Treadwell, clerk, New Grade School Building, Molalla, for addition and finishing work at the school. Plans with Freeman, Hayslip, Tuft & Hewlett, architects, 2040 S.W. 3rd Ave., Portland. $25 deposit. Certified check, cashier's check or bid bond 5%.

Addition of four classrooms, toilets, janitorial space and play porch, and finishing two framed-in classrooms in existing building. Concrete slab floors on grade; frame walls and siding; trussed rafter roof; composition roofing; glass block panels with metal insert sash; asphalt tile flooring; plywood wainscoting; fiberboard upper walls; acoustical tile ceilings; ceramic tile in toilets; incandescent lighting; attic ventilating units from low pressure steam. WB 4-14. Previous report 4-12

● HOSPITAL ADDITION— **Newport, Ore.**

Bids to be opened 3 p. m., May 3, by Pacific Communities Hospital, Ralph Wagy, chairman, City Hall, Newport, Ore., for addition to the hospital. Plans with Roald, Schmeer & Harrington' architects, 1104 Portland Trust Bldg., Portland. $30 deposit.

One-story addition, 41'x46', including two four-bed wards, two two-bed wards, two private rooms, toilet and shower room; Alternate No. 1, for new entrance, enlarging lobby and office; Alternate No. 2, for 24' x 30' storage facility on service end of building; Alternate No. 3, for installing piped oxygen system. Reinforced concrete construction; aluminum sash; built-up roof; plastered wood stud interior partitions; rubber tile and asphalt tile flooring; plaster or acoustical tile ceilings; extension of existing heating system. WB 4-14

PUD CONSTRUCTION PROGRAM— **Newport, Ore.**

Bond election will be held in May by PUD, Central Lincoln County, A. P. Naterlin, 712 S.W. Alder, Newport, for revenue bonds totaling $2,925,000 to help finance a four-year construction program in the district. Area involves coastal area from Lincoln Beach in Lincoln County to Coos Bay to the north. Remainder of construction cost will be paid from power sales. SC 4-17

VENEER PLANTS— **Oakridge, Ore.**
(Estimated cost $1,750,000)

Plans announced by Pope & Talbot, Inc., San Francisco, for the construction of green veneer plants and particle board plants at Oakridge. Construction to start in May and be completed sometime in February, 1957. SC 4-13

★ TELEPHONE BUILDING—Pendleton, Ore.

Bids opened April 11 by Pacific Telephone and Telegraph Co., G. F. Zolling, chief engineer, 509 S.W. Oak St., Portland, for a dial equipment building at Pendleton. Plans by Skidmore, Owings & Merrill, 2040 S.W. Jefferson St., Portland. AWARD: McCormack Construction Co., S.E. 3rd Ave. and Goodwin, Pendleton, $246,888. 2ND LOW: Mid-State Construction Co., P. O. Box 456, The Dalles, $252,553. 3RD LOW: Smith-Phillips Co., 7402 S.W. Macadam Ave., Portland, $264,789. WB 4-13. Previous report 3-23

★ HIGH SCHOOL— **Philomath, Ore.**

Award to Robert C. Wilson, Box 47, Corvallis, $286,486, by School District No. 17C, Benton County, Philomath, for a new high school at South and N Streets, Philomath. Plans by Freeman, Hayslip, Tuft & Hewlett, architects, 2040 S.W. 4th Ave., Portland. WB 4-17. Previous report 4-5

★ TOILET FACILITIES— **Portland, Ore.**

Award to Len Hufford, 6921 N. Haight Ave., Portland, $18,992, by Commission of Public Docks, Thomas P. Guerin, general manager, 3070 N.W. Front Ave., Portland, for construction of new toilet facilities at Terminal No. 2 and Terminal No. 4. Bids were opened March 30 and held under advisement. WB 4-13. Previous report 3-10

● ■ FACTORY-WAREHOUSE— **Portland, Ore.**
(Estimated cost $750,000)

Bids to be opened 2 p. m., April 24, in office of Dougan & Heims, architects, 401 Royal Bldg., Portland, for sportswear factory and warehouse for White Stag Manufacturing Co., Harold S. Hirsch, president, 67 W. Burnside St., Portland. Select list of bidders. Plans on file at Builders Exchange, Portland.

Planholders: Henry M. Mason Co., 2205 N.W. Thurman St.; George Moore & Associates, 923 S.W. 17th Ave.; Ross B. Hammond Co., 1241 N. Williams Ave.; A. D. Ford & Son, 2535 N.W. Upshur St.; Smith-Phillips Co., 7402 S.W. Macadam Ave.; Andersen & Westfall Co., Inc., 2470 N.W. Nicolai St.; The Austin Co., 1600 N.W. Savier St.; A. V. Petersen Co., P. O. Box 2368; George H. Buckler Co., 4235 S.E. 17th St.; Frank C. Ralph & Son, 2204 N.E. Alberta St.; Fred Juhr & Sons, 1339 S.E. Gideon St.; E. Carl Schiewe, 1024 N.E. Davis St. Of Portland.

One-story structure with approximately 130,000 sq. ft.; tilt-up concrete walls; roof of laminated beams, wood trusses and wood decking with bonded roofing; galvanized steel sash; painted exterior walls; plaster interior wall finish; exposed wood ceilings; concrete floors; gas-fired unit heaters. Outdoor lounge and terrace with concrete floor and some plastic roofing; cafeteria. WB 4-13. Previous report 4-4

● REMODELING— **Portland, Ore.**

Bids to be received 2:30 p. m., May 9, and opened 3:30 p. m., by Portland School District No. 1, L. J. Baker, business manager, 620 N.E. Halsey St., for alteration for cafeteria at Beaumont School, 4043 N.E. Fremont St., Portland. Plans with business office. $25 deposit. Certified check or bid bond 10%.

Remodeling inside of existing cafeteria, expanding kitchen, new stainless steel serving counters, walk-in refrigerator, storerooms and excavation in basement for new teachers' lunchroom, new heating and ventilating, new electric work, painting. Plastic tile flooring; acoustical ceilings; new walls of concrete block and plaster. WB 4-13

● PRIMARY SCHOOL— **Portland, Ore.**
(Estimated cost $268,000)

Bids to be received 2:30 p. m., May 23, and opened 3:30 p. m., by Portland School District No. 1, L. J. Baker, business manager, 631 N.E. Clackamas St., Portland, for Lent Primary School, S.E. 92nd Ave. and Bush St. Plans by Dukehart & Kinne, architects, 2311 N.W. Irving St., Portland. Plans with business office. $50 deposit. Certified check or bid bond 10%.

Building to include seven classrooms, kindergarten, teachers' lounge, workroom, playroom, heating plant and administration offices. Wood frame construction; brick veneer exterior finish; composition shingle roof; aluminum sash; plaster wall finish; birch wainscots and cabinets in classrooms; California rubber tile wainscots in corridors; asphalt tile flooring except vinyl tile in corridors; acoustical tile ceilings; fluorescent lighting in classrooms; oil-fired, hot water heating with fin pipe radiation; hot air floor in kindergarten. WB 4-13. Previous report 1-13

● CHURCH ADDITION— **Portland, Ore.**

Bids to be opened 8 p. m., May 1, by St. Johns Pioneer Methodist Church, Oscar V. Luchs, pastor, 7528 N. Charleston Ave., Portland, for an educational wing addition to the church. Plans available April 16 from Nelson A. Hodges, Jr., architect, Route 1, Box 228, Tigard, or 619 Builders Exchange Bldg., Portland. John Bonebrake, 513 Dekum Bldg., is mechanical engineer and Fritz Klawa, 1220 S.W. Stark St., electrical engineer.

Two-story wing with 400 sq. ft. on each floor; includes classrooms from first to eighth grades, minister's office, church office, work room and play corridor. Concrete and frame walls; some concrete block interior partitions; asphalt shingle roof; dry-wall interior; asphalt tile floor covering; acoustical tile ceilings; separate hot water heating plant and boiler room; baseboard convector heating. WB 4-13

● PAINTING— **Portland, Ore.**

Bids to be received 2:30 p. m., May 9, and opened 3:30 p. m., by Portland School District No. 1, L. J. Baker, business manager,

620 N.E. Halsey St., for exterior and interior painting of various schools. Specifications with business office. $15 deposit. Certified check or bid bond 10%. WB 4-14

●SCHOOL EQUIPMENT, FLOORING— Portland, Ore.

Bids to be received 2:30 p.m., April 25, and opened 3:30 p.m., by Portland School District No. 1, L. J. Baker, business manager, 620 N.E. Halsey St., for school supplies and equipment. Specifications with business office. Certified check or bid bond 10%.

Includes temperature controls for storeroom stock; air compressors for storeroom stock; miscellaneous hardware for various schools; equipment for kitchen and cafeteria department, and for homemaking department at Woodrow Wilson High School; installation of residient floors at various schools. WB 4-14

▲HEATING PLANT— Portland, Ore.

Bids opened April 11 by Portland School District No. 1, 620 N.E. Halsey St., Portland, for heating plant for Child Service Center, 220 N. Beech St., Portland. Plans by W. Bruce Morrison, consulting engineer, 1125 Cascade Bldg., Portland. LOW BIDS: Rowland Plumbing & Heating Co., 929 N. Lombard St., $50,900; J. O. Johnson Co., 1527 S.W. 1st Ave., $52,300; P. S. Lord, Mechanical Contractor, 4507 S.E. Milwaukie Ave., $52,787. Of Portland. WB 4-14. Previous report 3-30

● CHURCH ADDITION— Portland, Ore.

Bids to be opened 2 p.m., April 27, by Parkrose Community Congregational Church, Rev. Duane Nicol, pastor, in office of Warren Weber, architect, 610 Fenton Bldg., Portland, for educational unit addition to church at N.E. 105th Ave. and Wygant St., Portland. Select list of bidders.

New wing to face N.E. 106th Ave.; two-story structure, with covered passageway connecting to main building: 7,400 sq. ft. total area; includes classrooms, small kitchens, toilets. Basically frame construction; concrete slab floor; glued laminated beams supporting roof and 2nd floor; flat, built-up roof, with rigid insulation board; acoustical tile ceilings; asphalt tile flooring; aluminum sash; pre-cast concrete fins support 2nd floor and roof; built-in wood cabinets; sinks and drinking fountains; painted gypsum board and hemlock interior wall finish; two gas boilers with panel heating in first floor slab, and hot water wall convectors in second floor. WB 4-17. Previous report 3-7

★SANDBLASTING BUILDING FOUNDATION, BASEMENT— Portland, Ore.

Award to Gaylord Construction Co., 6432 N.E. 30th Ave., Portland, $19,494, by Corps of Engineers, 628 Pittock Block, Portland, for construction of foundation and basement for a sandblasting building at Bonneville Dam on the Columbia River; CIVENG-35-026-56-166. WB 4-17. Previous report 4-7

▲SCHOOL ADDITIONS— Portland, Ore.

Bids held under advisement by Russellville School District No. 40, Multnomah County, Frank C. Dempsey, clerk, 124 S.E. 102nd Ave., Portland, for additions to Cherry Park and Menlo Park schools. CHERRY PARK—LOW BIDS: A. R. Nieman Co., 20th and Main St., Vancouver, $121,777; E. E. Settergren, 3723 S.E. 21st Ave., Portland, $125,000; Weston Construction Co., 7415 N.E. Glisan St., Portland, $125,000. MENLO PARK—LOW BIDS: Weston Construction Co., $76,300; E. E. Settergren, $77,136; A. R. Nieman Co., $78,769. COMBINATION—LOW BIDS: Weston Construction Co., $200,000; E. E. Settergren, $201,600; Contractors, Inc., 1101 N.E. 21st Ave., $204,329. Bids opened April 12. WB 4-18. Preivous report 4-6

★HOTEL ADDITION— Roseburg, Ore.

Award by (bids opened April 9) Umpqua Hotel, Roseburg, for addition and remodeling at the hotel. Plans by Ralph C. Bonadurer, architect, 1111 S.E. Sandy Blvd., Portland. AWARD: Todd Building Co., P.O. Box 27, Roseburg, $52,255. 2ND LOW: Teller Construction Co., 845 N. Graham St., Portland, $65,100. Construction to start in two weeks. WB 4-13. Previous report 3-21

PAPER PLANT— Salem, Ore.

Ten-acre site purchased by Western Paper Converting Co., Front and D Streets, Salem, for construction of new plant in south Salem, according to C. A. Schaefer, general manager, 1310 Strong Road, Salem. Plant to be twice as large as present plant which is to be sold soon. SC 4-13

KITCHEN REMODELING— Salem, Ore.
(Estimated cost, $10,000)

Preliminary plans approved by Oregon State Board of Control, E. J. Ireland, secretary, 124 State Capitol Bdlg., Salem, for remodeling in kitchen at Oregon State School for the Deaf, 999 Locust St., Salem. Plans by Logan & Murtaugh, architects, 1940 S.W. 4th Ave., Portland. WB 4-17

▲SCHOOL ADDITION Salem, Ore.

Bids received by School District No. 24CJ, Marion County, at the School Administration Office, 1309 Ferry St., Salem, for constructino of an addition to Middle Grove School, Marion County. Plans by James L. Payne, architect, 725 S. Commercial St., Salem. LOW BIDS: Hampton C. Platt, 4435 Macleay Road, $48,500; Erwin E. Batterman, 147 N. Commercial St., $50,354; H. G. Carl Construction Co., Box 387, $52,000. All bidders of Salem. Bids opened April 12.
SP 4-17. Previous report 4-3

▲CHURCH— Salem, Ore.

Bids received by Westminster United Presbyterian Church, Salem, for construction of a new church and Sunday school building at 3734 Liberty Road, Salem. Plans by Clark, Groff & Cave, architects, 3240 Triangle Drive, Salem. LOW BIDS: Erwin E. Batterman, 147 Commercial, $42,385; C. W. & Willis A. Hill, 5045 Portland Road, $49,437; Mills Construction Co., 502 Kingwood Drive, $50,456. Bids opened April 16.
SP 4-18. Previous report 4-11

★OFFICE BUILDING— The Dalles, Ore.

Award to Mid-State Construction Co., 810 Union St., The Dalles, no amount announced, by First Federal Savings and Loan Association, The Dalles, for construction of an office building at Court St. and 4th St. in The Dalles. WB 4-14. Previous report 4-4

★SCHOOL ADDITION; GYMNASIUM— Waldport and Siletz, Ore.

Bids opened April 10 by Lincoln County School District, Marion C. Huff, clerk, superintendent's office, Courthouse, Newport, Ore., for addition to grade school at Waldport and a gymnasium at the grade-high school at Siletz. Plans by Marion Stokes, architect, 205 Hughes Bldg., Portland. SCHOOL ADDITION—AWARD: C. W. Willis A. Hill, P.O. Box 682, Salem, $33,939. 2ND LOW: Albert Stromberg, 6905 N.E. Sacramento St., Portland, $35,469. 3RD LOW: Marvin Johnson, 1325 W. 8th, Albany, $35,790. GYMNASIUM—LOW BIDS: C. W. & Willis A. Hill, $108,406; Grubb, Johnson & Rose, Crees Bldg., Corvallis, $108,650. Bids on the gymnasium were too high and owner is negotiating with two low bidders.
WB 4-13. Previous report 4-4

WASHINGTON

ELEMENTARY SCHOOL— Anacortes, Wash.
(Estimated cost $300,000)

Bond election will be held May 8 by Anacortes School District. Clarence Henning, superintendent, Anacortes, for $100,000 bond issue and 20-mill tax levy to finance construction of 12-room elementary school at 24th and J Streets, Anacortes. Plans by Don McKee, architect, Anacortes. Galen Bentley, architect, 1100 State, Bellingham, retained as advisor. JD 4-17

REFINERIES— Bellingham, Wash.

Tentative location selected by Straits Refining Co., Dallas, Texas, for new plant just north of Bellingham, in Whatcom County. Final determination of site will depend on land prices and availability of materials to be used in high grade manufacturing processes. JD 4-13. Previous report 3-16

● WEBHOUSE— Bellingham, Wash.

Bids will be opened 8 p.m., April 24, by Port of Bellingham, Peter Zuanich, chairman of port commission, Bellingham Dock, Bellingham, for construction of a webhouse at Squalicum Fill on port property. Specification with port manager, Walter Dailey, Port Dock, Bellingham. Completion time 60 calendar days. JD 4-14. Previous report 2-9

BUILDING ADDITION— Bellingham, Wash.
(Estimated cost $11,000)

Bids will be opened in May by Port of Bellingham, for construction of a 40'x80' two-story addition to Bellingham Engine & Equipment Co., Squalicum Fill, Bellingham. JD 4-17. Previous report 2-3

★CHURCH— Bremerton, Wash.
(Estimated $100,000)

Contracts let by Emmanuel Lutheran Church for construction of a new church in East Bremerton. Pastor is Stanley Gunsten, Perry Ave., Bremerton. GENERAL: Dan Solie, Illahee, Silverdale. MECHANICAL: Standard Plumbing and Heating, E. 10th and Shore Drive, Bremerton. DC 4-14

Specify MILCOR METAL for Fireproof Frames and Window Trim

ARCHITECTS AND BUILDERS, specify Milcor Metal Trim and Frames on your next job. Milcor meets highest national standards for schools, hospitals, hotels, and office buildings. Milcor Metal Window Trim is ready-to-install (mitered, welded, assembled). Or available in units to form any part of inside window opening. Conforms architecturally, takes any finish. Phone or write Pioneer for details. Prompt attention to orders or inquiries.

PIONEER SAND & GRAVEL CO.

901 Fairview North MAin 2900 910 West Spokane

★AAA FACILITIES— Camp Hanford, Wash.

Award to A. G. Patton, 612 W. Albany Ave., Kennewick, $206,101, by Corps of Engineers, Walla Walla District, Colonel Myron E. Page, Jr., district engineer, Building 602, City-County Airport, Walla Walla, for construction of additional AAA facilities at Camp Hanford; ENG-45-164-56-30.

SP 4-13. Previous report 3-7

▲SCHOOL ADDITIONS, ALTERATIONS— Chehalis, Wash.

Bids received by Chehalis School District No. 302, Chester V. Rhodes, superintendent, R. E. Bennett Building, Chehalis, for the construction of additions and alterations to Cascade Elementary School in Chehalis. Plans by Mallis & DeHart, architects, 631 Lyon Bldg., Seattle. The following are all combined bids. LOW BIDS: Noel Construction Co., 11014 Main St., Bellevue, $102,900; C. S. Seines Construction Co., Box 537, Chehalis, $119,678; Frank J. Pakar, Box 447, Chehalis, $128,000. Bids opened April 11.

GW 4-14. Previous report 3-31

AGRICULTURE SHOP— Colton, Wash.

Plans underway by McClure & Adkison, architects, American Legion Bldg., Spokane, for construction of a vocational agriculture shop building in Colton, for Colton School District No. 305, Colton. Bids may open in June.

MH 4-17. Previous report 4-5

▲SCHOOL ADDITIONS— Edmonds, Wash.

Bids received April 12 by Edmonds School District No. 15, Harold Silvernail, superintendent, Box 308, Edmonds, for construction of additions to Woodway Elementary School, 103rd Ave. W., and 239th S.W. Edmonds. Plans by Waldron & Dietz, architects, room 8, 208 Columbia, Seattle. The following are all basic bids. LOW BIDS — GENERAL: Venne Beauchamp & Co., 4000 Broadway, Everett, $118,895; Dahlgren Construction Co., 1700 21st Ave. S., Seattle, $124,903; Hedeen Construction Co., 1401 N. 143rd, Seattle, $127,300. MECHANICAL: Stoll & Freese Plumbing and Heating Co., 236 S. on Edmonds Highway, Edmonds, $21,700; Haskell Plumbing and Heating Co., 3014 Wetmore Ave., Everett, $22,835; Callahan Plumbing and Heating Co., 3211 Broadway, Everett, $23,445. ELECTRICAL: Ewing Electric Co., Box 885, Edmonds, $6,200; Beckstrom's Electric Co., 14058 Bothell Way, Seattle, $6,717; Rodgers Electric Co., 2805 Hoyt Ave., Everett, $7,254.

GW 4-14

▲RESIDENCES— Ephrata, Wash.

Bids received by Bureau of Reclamation, P. R. Nalder, project manager, Box 368, Ephrata, for construction of seven residences and other items of work at various sites, Block 89, 47 and 14 in Grant, Adams and Franklin counties, Columbia Basin Project, Wash.; Spec. No. 117C-368. LOW BIDS— SCHEDULE 1: Mast & Myers, Box 1132, Moses Lake, $76,869; Melvin R. Winter, 183 Crest Drive, Ephrata, $78,566; Tomlinson & Buckmaster, Box 12, Warden, $85,957. SCHEDULE 2: Tomlinson & Buckmaster, Warden, $56,126; Cherf Bros., Inc., & Sandkay Contractors, Inc., Box 938, Ephrata, $58,158. Bids opened April 12.

SP 4-17. Previous report 3-15

▲SCHOOL ADDITION— Finley, Wash.

Bids received by Riverview School District No. 53, Route 1, Kennewick, for additions and alterations to the existing Finley school building. LOW BIDS—GENERAL: E. C. Mardis, Title and Trust Bldg., Pasco, $186,735; Jensen-Rasmussen Co., Box 89, Sunnyside, $205,000; Murray Construction Co., 221 S. 3rd, Pasco, $206,998. MECHANICAL: W. R. O'Rourke, 339 S. 2nd, Walla Walla, $76,269; Randolph & Taylor, 419 W. Clark, Pasco, $82,767; Mokler Plumbing and Heating, 115 W. 1st, Kennewick, $82,779. ELECTRICAL: Creamer Electric Co., 119 S. 1st, Yakima; Empire Electric, Pasco, $22,756; Fadden's Electric Service, 7902 9th S.W., Seattle, $24,615. Bids opened April 12. Plans by John S. Villesvik, architect, 109 N. 3rd, Yakima.

IG 4-14. Previous report 4-10

★TENT FRAMES— Fort Lewis, Wash.

Award to R. G. Foster, 5324 S. 64th St., Tacoma, $12,220, by Department of the Army, Harry C. Ryan, contracting officer, Fort Lewis, for the installation of wooden tent frames on existing concrete slabs, for National Guard use, Northeast Fort Lewis; INV No. AVI-45-016-56-92.

MS 4-18. Previous report 3-13

● BUILDING REHABILITATION— Ford Ward, Wash.

Bids will be opened 11 a. m., April 30, by Department of the Army, Purchasing & Contracting Office, Building 320, Fort Lawton, for rehabilitation of Building 12 at Ford Ward on Bainbridge Island; Inv. No. AVI-45-012-56-54. Specifications with above office. $1 deposit. Bid bond 20%. Completion date September 1, 1956.

SP 4-14

■ HIGH SCHOOL ADDITIONS— Goldendale, Wash.

Planholders announced for additions to Goldendale High School. Bids to be opened 8 p. m., April 26, by Goldendale School District No. 404, Klickitat County, Beryl Spalding, clerk, superintendent's office, Goldendale, Wash. Plans with Wolff & Zimmer, architects, 509 Pearson Bldg., Portland. $50 deposit general; $25 deposit each for electrical and mechanical work. Certified check or bid bond 5%.

Planholders—GENERAL: Mid-State Construction Co., 810 Union St., The Dalles; E. "Chuck" Mardis, Suite 7, Title & Trust Bldg., Pasco; Cherf Bros. & Sandkay, Inc., P. O. Box 938, Euhrata, Wash.; Lewis Hopkins Co., 221 South 3rd St., Pasco; American Construction, Inc., 3238 37th Ave. S.W., Seattle; Nieman Construction Co., 2001 Main St., Vancouver. MECHANICAL, Plumbing & Heating Engineering Co., Inc., 2751 N. Williams Ave., Portland; Beaver Plumbing, Inc., 419 S.W. 1st St., Beaverton; Central Heating & Plumbing Co., 510 South 1st St., P. O. Box 153, Yakima; Vengelen & Vincent Co., Inc., 2400 E. Burnside St., Portland; R. A. Twiss, 506 E. 2nd St., The Dalles; P. S. Lord Mechanical Contractors, 4507 S.E. Milwaukie Ave., Portland. ELECTRICAL: Cecil L. Hire, 1230 E. 8th St., The Dalles; Mid-Columbia Electric Co., P. O. Box 33, The Dalles; Olson Electric Co., 710 W. 8th St., Vancouver; Valley Refrigeration and Electric Co., P. O. Box 422, Sunnyside, Wash.; Matthews Electric, P. O. Box 33, The Dalles.

WB 4-17. Previous report 4-4

★TELEPHONE BUILDING—LaCenter, Wash.

Award to George Pifer, R.F.D. 2, Battleground, $15,400, by LaCenter Telephone Co., J. B. Cerveny, manager, LaCenter, Wash., for a central office telephone building. Plans by Howard Zenier & Associates, 1311 Columbia St., Vancouver.

WB 4-17. Previous report 4-10

■ SCHOOL ADDITIONS— La Conner, Wash.

Planholders announced for the construction of a three-classroom addition at La Conner Elementary School. Bids to be opened 8 p.m., April 24, by La Conner School District No. 311, Jack Wittaker, superintendent, 1st St., La Conner. Plans with Grant, Copeland and Chervenak, architects, 420 E. Howell, Seattle. $30 deposit. Certified check, cashier's check or bid bond 5%.

Planholders: Sanford Wright Co., Clark Bldg., Everett; Winterburn Construction Co., 314 Polk St., Port Townsend; C.B.S. Construction Co., 11115 7th Ave. N.W., Seattle; Haskell Plumbing and Heating Co., 1509 Cornwall, Bellingham; Weldit Tank and Steel Co., 1806 Cornwall, Bellingham; Phil Anderson, 1110 Riverside, Mount Vernon; Leckenby Structural Steel Co., 2745 11th Ave. S.W., Seattle; Mount Vernon Plumbing and Heating Co., Mount Vernon; B & B Plumbing and Heating Co., 501 Commercial, Anacortes; Ewing Electric Co., 535 Main St., Edmonds.

GW 4-13. Previous report 4-7

PHYSICAL EDUCATION PLANT— Marysville, Wash.

Bond election will be held May 22 by School District No. 25, C. M. Butters, chairman, Marysville, for $85,000 tax levy to finance construction of a physical education plant in Marysville.

SC 4-13

LEGION POST HOME— Marysville, Wash.

Financing plans underway by American Legion, Charles Hutchinson, commander, Marysville, for construction of a Legion Post Home, 1408 8th St., Marysville. Plans include selling non-interest bonds to members who will do majority of work on the building. Materials will be purchased at lowest cost possible.

HH 4-14. Previous report 3-8

● SCHOOL ADDITION— Medina, Wash.

Bid opening extended from April 17 to 2 p. m., April 24, in the office of Naramore, Bain, Brady & Johanson, architects, 904 7th Ave., Seattle, by Bellevue School District No. 405, George B. Brain, superintendent, Box 67, Bellevue. Separate bids on general, mechanical, electrical.

GW 4-18. Previous report 4-6

★BANK— Millwood, Wash.

Award to Eric E. Plath, E. 3004 Garland, Spokane, $97,000, by Seattle-First National Bank, Millwood Branch, Millwood, for construction of a bank building in Millwood on Argonne St. north of Trent. Plans by Whitehouse, Price, Neff & Deeble, architects, Hutton Bldg., Spokane.

CE 4-18. Previous report 4-4

★HANGAR— Moses Lake, Wash.

Award to Howard S. Wright, Inc., Box 3165, Seattle, $7,356,360, by Boeing Airplane Co., 7752 E. Marignal Way, Seattle, for eight-place hangar and facilities at Moses Lake Flight Center, Larsen AFB., Grant County. Plans by Naramore, Bain, Brady & Johanson, 904 7th Ave., Seattle.

DM 4-17. Previous report 3-9

● ELEMENTARY SCHOOL—Mukilteo, Wash.

Bids will be opened 8 p.m., May 7, by Mukilteo School District No. 6, Walter Smith, secretary of the Board, Mukilteo, at the school offices, Rose Hill School, Mukilteo, for construction of Olivia Park Elementary School at Mukilteo. Plans with Harold W. Hall, architect, Commerce Bldg., Everett. $40 deposit.

SC 4-13

● HOUSING UNITS— Olympia, Wash.

Bids to be opened 10 a.m., May 1, by Washington State Highway Commission, W. A. Bugge, director, Transportation Bldg., Olympia, for construction of duplex housing units and maintenance facilities for District No. 3; a state project. Plans with highway commission. $2 deposit. Certified check, cashier's check or bid bond 5%.

Project consists of five base bids as follows: No. 1—Duplex housing units and/or maintenance facilities in Amanda Park, Kalaloch, Forks, Potlatch in Grays Harbor, Jefferson, Clallam, Mason counties. No. 2—Duplex housing unit and/or maintenance shed at Amanda Park, Grays Harbor County, and/or No. 3—Duplex housing unit and/or maintenance shed at Kalaloch, Jefferson County, and/or No. 4—Maintenance shed at Forks, Clallam County, and or No. 5—Maintenance Shed at Potlatch, Mason County.

DM 4-13

OLYMPIA BREWING PLANT— Olympia, Wash.

(Estimated $1,100,000)

Expansion program to be completed April 1957 by Olympia Brewing Co., Olympia. Plans call for extension of fermentation and storage facilities by constructing a five-story building adjacent to existing buildings. New structure to be structural steel and reinforced concrete. General contractor is A. G. Homann Co., Lacey.

DC 4-13

● CONTROL TOWER MODIFICATION— Paine AFB., Wash.

Bids will be opened 2 p. m., P.S.T., May 1, by Department of the Air Force, Purchasing and Contracting Office, contracting office, Paine AFB., for modification of control tower at Paine AFB.; Inv. No. 45-602-56-27. Specifications with above office. Bid bond 20%. Completion time 10 calendar days. Project includes installation of new thermopane, tinted glass windows.

SP 4-14

★AIRCRAFT SHOP— Paine Field, Wash.

Award by Snohomish County Commission-

ers, Courthouse, Everett, for an aircraft repair and overhaul shop and offices at Paine Field, near Everett. Bids opened April 16. AWARD: Shaffer Construction Co., Box 804, Everett, $87,459. 2ND LOW: Newland Construction Co., Box 230, Everett, $92,019. 3RD LOW: Odegard Construction Co., Box 735, Everett, $93,897.
HH 4-18. Previous report 4-10

●SOUND EQUIPMENT— Port Angeles, Wash.

Bids to be opened 5 p.m., May 10, by Port Angeles School District No. 17, Donald M. Sleeper, secretary, at the office of the superintendent, Roosevelt Bldg., Port Angeles, for furnishing and installing an intercommunication and sound system for Roosevelt Junior High School. Specifications at above office. Certified check 5%. DC 4-18

COLLEGE HOUSING— Pullman, Wash.

Announcement has been made by Howard Hollingsworth, contractor, Stadium Way Extension, Pullman, that he expected to present a proposal on housing to the State College of Washington board of regents at their Seattle meeting April 30. The contractor will petition the regents for the right to build 100 apartments for married students on college owned land. Plans are underway now by a Seattle architect. This proposal will be in lieu of a college project to build a 99-unit apartment group for married students that is now on the drawing boards of Walker, McGough & Trogdon, Spokane.
MH 4-14

NUCLEAR REACTOR Pullman, Wash.

Tentative location for the proposed nuclear reactor has been selected by State College of Washington, C. Clement French, president, Pullman, on a farm on an isolated section near the campus. The college has applied to the National Science Foundation for $142,000 toward construction. The Atomic Energy Commission has ruled that the college is eligible to receive assistance in construction after proper application is made for the license.
MH 4-14

●METAL SHOPS BUILDING— Pullman, Wash.

Bids will be opened 2 p.m., April 27, by Board of Regents, State College of Washington, Pullman, in the office of Carl Pettibone, business manager and comptroller, for a metal shops building on college agronomy farm near Pullman. Specifications with Philip Keene, college architect, Services Bldg., Washington State College, Pullman. Building to be Butler type; 40'x140'x14'.
MH 4-17

▲BUILDING REMODELING—Renton, Wash.

Planholders announced for the conversion of the existing gymnasium at the Junior-Senior High School in Renton into library, study hall, faculty room and other facilities. Bids to be opened 2 p.m., May 1, by Renton School District No. 403, H. R. Johnson, superintendent, Administration Bldg., 1525 4th Ave. N., Renton. Plans with Mallis & DeHart, architects, 631 Lyon Bldg., Seattle. Certified check, cashier's check or bid bond 5%. One combined bid.

Planholders: Ballard Contractors, Inc., 4601 6th Ave. N.W.; Leavitt-Chandler Co., Box 6, Bellevue; Hedeen Construction Co., 1404 N. 143rd; Norge Construction Co., 5008 Admiral Way; Poston Construction Co., 5619½ University Way, Seattle.
GW 4-14. Previous report 4-7

■SCHOOL ADDITION— Richland, Wash.

Planholders announced for construction of an addition to Carmichael Junior High School, Richland. Bids will be opened April 25 by Richland School District No. 400, Frank D. Avery, secretary, School Administration Bldg., 615 Snow Ave., Richland. Plans with John W. Maloney and John H. Whitney, architects, 1117 Larson Bldg., Yakima.

Planholders: Edward Mardis, Suite 7, Title & Trust Bldg., Pasco; Lewis Hopkins Co., 221 S. 3rd St., Pasco; Cherf Bros. & Sandkay, Inc., Box 938, Ephrata; Jensen-Rasmussen & Co., Box 89, Sunnyside.
IG 4-14

★ASPHALT TILE FLOORS— Seattle, Wash.

Award to Allied Floors Co., 302 W. Thomas, Seattle, $4,669, by Seattle Army Terminal, John A. Fountain, contracting officer, Procurement Division, room 300, Building No. 1, Army Terminal, 1519 S. Alaskan Way, Seattle, for asphalt tiling of floors at the Terminal; INV. No. TC-45-045-56-46.
GW 4-12. Previous report 3-17

★FILTER SCREENS, STEAM COIL— Seattle, Wash.

Award by General Services Administration, W. W. Southworth, chief of Construction Repair Division, room 126 Federal Office Bldg., 909 1st Ave., Seattle, for new filter screens and steam coil for U.S. Courthouse, Seattle. Project No. CR-10-402. AWARD: Ashwell Twist Co., 967 Thomas St., Seattle, $752. Bids were opened April 4.
GW 4-13. Previous report 3-16

★CLEANING PLANT— Seattle, Wash.

Award to Ray Solle, 900 Queen Anne Ave., Seattle, $28,539, by Lake City Cleaners, Roger Valleton and Mike Shea, 12025 Bothell Way, Seattle, for construction of a new cleaning plant. Plans by Jerry Gropp, 1416 Olive Way, Seattle. GW 4-13. Previous report 3-27

★INTERIOR PAINTING— Seattle, Wash.

Award to Earl E. Haight, 7321 56th Ave. N.E., Seattle, $4,838, by Seattle Army Terminal, John A. Fountain, contracting officer, Procurement Division, room 300, Building No. 1, Seattle Army Terminal, 1519 S. Alaskan Way, Seattle, for interior painting at the Army Terminal; Inv. TC-45-045-56-44.
GW 4-13. Previous report 3-17

★AIR CONDITIONING EQUIPMENT— Seattle, Wash.

Award to Western Engineering Co., Inc., 2027 5th Ave., Seattle, $980, by Alaska Communications System, U.S. Army Signal Corps, A. C. Muttart, contracting officer, 4735 E. Marginal Way, Seattle, for air conditioning equipment for Alaska Communications System, West Seattle Station; Inv. No. 45-041-sc-56-7; Spec. No. ACS No. 150.
GW 4-13. Previous report 3-31

★TELEPHONE BUILDING ADDITION— Seattle, Wash.

Mechanical and electrical awards by general, John H. Sellen Construction Co., 228 9th Ave. N., Seattle, for construction of three additional stories on the existing accounting building, 1915 Terry Ave. Plans by Jones and Bindon, architects, 715 Hoge Bldg., Seattle. Estimated cost on this project $1,000,000. GW 4-13. Previous report 3-23

★BUILDING DEMOLITION— Seattle, Wash.

Award to McFarland House Wrecking Co., 7611 45th Ave. S., Seattle, $9,173, by University Presbyterian Church, Rev. Dr. Davis L. Cowie, pastor, for demolition of the existing building at E. 47th and University Way, to make room for the construction of the proposed Acheson Memorial Christian Education Building, for which bids will be called soon. Bids were opened and held under advisement, March 29.
GW 4-14. Previous report 3-28

★PARISH SCHOOL AND CHURCH— Seattle, Wash.

Award by Catholic Archdiocese of Seattle, Most Rev. Thomas A. Connolly, archbishop, 907 Terry Ave., Seattle, for construction of a church and parish school for the Parish of St. Luke, at 17533 Dayton Ave., Seattle. Plans by Roger Gotteland, architect, 2nd and Cherry Bldg., Seattle. AWARD: Covey Hufeisen, Inc., 815 3rd Ave. N., Seattle, $328,383. OTHER LOW BIDS: Jentoft & Forbes, 927 W. 46th, Seattle, $332,583; Hainsworth Construction Co., 3028 Western Ave., Seattle, $332,851. Bids opened April 12.
GW 4-14. Previous report 3-31

APE HOUSE— Seattle, Wash.

Bid opening cancelled by City Council pending revision of specifications for construction of the great ape house at Woodland Park Zoo, Phinney Ave., Seattle; Req. No. 6825. Plans by Theo Damm, architect, 516 James St., Seattle. Bids were to have been opened April 17.
GW 4-14. Previous report 4-11

★OFFICE BUILDING— Seattle, Wash.

Award by Belmont Properties, Inc., owners, Petit-Morry, 1411 4th Ave. Bldg., Seattle, and Rankin & Stokes, certified public accountants, 1619 Terry Ave., for construction of a new office building to accommodate both owners at 120 Belmont N., Seattle. AWARD: Hainsworth Construction Co., 3028 Western Ave., Seattle, $46,380. OTHER LOW BIDS: Lee & Kieshbaugh, 3923 Morgan, Seattle, $46,954; Noble W. White, Pier 65, Seattle, $48,525. Bids were opened and held under advisement April 11. Plans by McClelland & Osterman, architects, 806 Skinner Bldg., Seattle.
GW 4-14. Previous report 4-7

■TEACHING HOSPITAL ADDITIONS— Seattle, Wash.

Planholders announced for the construction of additions to the teaching hospital at the University of Washington. Bids to be opened 2 p.m., May 3, by University of Washington, Nelson Walstrom, comptroller, Administration Bldg., University Campus, Seattle. Plans with Naramore, Bain, Brady & Johanson, architects, 904 7th Ave., Seattle. $200 deposit, general, mechanical, electrical; $50 elevator, conveyor and subcontractors. Certified check, cashier's check or bid bond 5%.

Planholders—GENERAL: Guy F. Atkinson Co., 341 Skinner Bldg.; James I. Barnes Construction Co., Central Bldg.; J. C. Boespflug Construction Co., 1912 4th Ave. S.; Diversified Buildiers, 250 Securities Bldg.; Sound Construction Co., 1300 Aloha; Henrik Valle Co., Inc., 413 3rd Ave. W.; all of Seattle. MECHANICAL: W. E. Beggs, Inc., 234 9th Ave. N.; W. A. Botting, 5625 University Way; Holaday Park Fabricators, Inc., 1725 Jackson; L. G. Massart Plumbing and Heating Co., 4501 9th Ave. N.W.; Navarre Plumbing and Heating Co., 3839 Stone Way; Rautman Plumbing and Heating Co., 115 Jackson; University Plumbing and Heating Co., 3941 University Way; Wenzler & Ward, 2109 Western Ave., all of Seattle; Bellevue Plumbing and Heating Co., 102nd and Main, Bellevue. ELECTRICAL: Agutter Electric Co., 5500 14th Ave. N.W.; O. A. Carlson Electric Co., 4025 Stone Way; City Electric & Fixture Co., 433 8th Ave. N.; Donald W. Close Co., 2921 31st Ave. S.W.; Fischbach & Moore, Inc., 3201 Fremont; Holert Electric Co., 2300 W. Spokane; Industrial Electric Co., 1828 Yale Ave.; Van S. McKenney Co., 104 Wall; Northwest Electric Co., 420 Yale Ave. N.; Salmon Bay Electric Co., 4728 Ballard; all of Seattle. GW 4-17. Previous report 3-7

●SWIMMING POOL ALTERATIONS— Seattle, Wash.

Bids to be opened 2 p.m., P.S.T., April 27, by 13th Naval District Bureau of Yards and Docks, Rear Admiral R. H. Meade, chief of Bureau, District Public Works Office, room 100, Building 232, U.S. Naval Station, Seattle, for renovation of mechanical installation for swimming pool, building No. 269, U.S. Naval Station, Seattle. Plans with Public Works Office, $25 deposit. Bid bond 20%. Work includes provision of a new flometer, relocation of existing chlorinator and provision of new chemical feed pumps and crocks, new partition walls, vent fan, electrical modifications, pump overhaul and filter rehabilitation; NBy-1010; Spec. No. 2010/56.
GW 4-17

●CHURCH— Seattle, Wash.
(Estimated cost $80,000)

Bids will be opened 8 p.m., April 26, in Southminster Presbyterian Church, 1456 S. 192nd St., Seattle, for construction of a new church at 19810 8th Ave. S., Seattle. Plans with Steinhart, Stanley, Theriault & Anderson, architects, 404 Medical Arts Bldg., Seattle.

One-story with full basement; reinforced concrete footings and foundation; concrete slab floors; glue laminated arches on steel beams; tongue-and-groove roof decking; stone veneer and siding exterior wall finish; hot water heat.
SP 4-17

▲CHIMNEY REPLACEMENT— Seattle, Wash.

Bids received by Seattle Army Terminal, procurement officer, 1519 S. Alaskan Way, Seattle, for replacement of chimney at Building 8, Seattle Army Terminal; Inv. No. TC-45-045-56-72. Bids opened April 16. LOW BIDS: Olson Boiler & Machinery Works, Inc., 1761 Airport Way, $785; Fraser's Boiler Service, 703 Dearborn Ave., $918; Seattle Boiler Works, Inc., 5237 E. Marginal Way, $1,365. All bidders of Seattle.

SP 4-18. Previous report 4-5

■ MUSIC BUILDING— Snohomish, Wash.

Planholders announced for the construction of a music building in the high school, 5th and D Streets, in Snohomish. Bids to be opened 8 p.m., April 24, by Snohomish School District No. 200, George A. Moore, superintendent, 5th and D Streets, Snohomish. Plans with James Klontz & Associates, architects, 784 Dexter Horton Bldg., Seattle. $15 deposit each set of plans. Separate bids on general, mechanical and electrical. Certified check, cashier's check or bid bond 5%.

Planholders—GENERAL: Sanford Wright, Box 809, Everett; Newland Construction Co., Box 230, Everett; Roy E. Rudd, 834 Grand, Everett; Noel Construction Co., 11014 Main St., Bellevue; Venne Beauchamp, Box 637, Everett; W. G. Clark Co., 408 Aurora, Seattle; Poston Construction Co., 5619½ University Way, Seattle. MECHANICAL: Haskell Plumbing and Heating Co., 3014 Wetmore, Everett; Callahan Plumbing and Heating Co., 2801 Hewitt Ave., Everett; Glantz Supply Co., 2732 Hoyt, Everett. ELECTRICAL: Rodgers Electric Co., 2805 Hoyt, Everett; Beckstrom's Electric Co., 14058 Bothell Way, Seattle. GC 4-17. Previous report 4-10

AMBULANCE, MORTUARY BUILDING— Spokane, Wash.

(Estimated cost $100,000)

Architects, Funk, Molander & Johnson, W. 524 4th, Spokane, have been retained by Spokane Services Corp., E. D. Purday, secretary-treasurer, Spokane, to draw plans for an ambulance, mortuary building. Building will contain garage, service area, offices and living quarters. Bids will be called soon.

GC 4-12

▲SENIOR HIGH SCHOOL—Spokane, Wash.

Bids received by Spokane School District No. 81, Spokane, for construction of the Shadle Park Senior High School. Plans by Culler, Gale & Martell and Kenneth P. Nor- Bldg., Spokane. LOW BIDS — GENERAL: Henry George Sons, Hutton Bldg., $1,837,613; Busboom & Raugh, N. 601 Cedar, Spokane, $1,928,768; Selkirk Construction Co., E 601 Trent, Spokane, $2,019,000. MECHANI- tion Co., E. 601 Trent, Spokane. MECHANICAL: James Smyth Plumbing and Heating, N. 216 Division, and Warren, Little & Lund, W. 120 2nd Ave., joint bid, $532,550; Peck & Gale, S. 211 Washington, Spokane, $544,330; Standard Plumbing & Heating, E. 1801 Sprague, $553,608. ELECTRICAL: Baldwin-Briggs, N. 1303 Monroe, $183,985; Brown-Johnston, 118 N. Lincoln, $184,683; Maxwell's, Inc., E. 14 Mission, $190,372. All of Spokane. Bids opened April 11.

DC 4-14. Previous report 3-21

● WAREHOUSE— Spokane, Wash.

(Estimated cost $250,000)

Bids to be opened 3 p.m., April 30, by Zellerbach Paper Co., C. Grover Wilson, division manager, W. 510 Railroad, Spokane, for construction of a one-story, concrete, warehouse at Freya and Ferry Streets in Spokane. Structure to contain 50,000 sq. ft. space.

PN 4-18

■ EDUCATIONAL UNIT— Sunnyside, Wash.

Planholders announced for construction of an education unit addition to existing church in Sunnyside. Bids will be opened 8 p.m., April 23, by Trinity Episcopal Church, Rev. George Ames, pastor, Sunnyside, at the Trinity Parish House in Sunnyside. Plans with Don Cochnour, architect, Miller Bldg., Yakima.

Planholders—GENERAL: W. J. Park & Son, 1904 Rudkin Road, Yakima; E. W. Lane, 800 Highway; V. K. Powell, Wapato; Jensen-Rasmussen, 6th and Blaine; Howard Martin, 404 13th St.; Joe E. Venne, 507 12th St.; H. C. Martin, 333 N. 14th St. MECHANICAL: Rawlings Plumbing & Heating, 214 W. 2nd, Grandview; Lentz-Interstate Plumbing & Heating, 12 S. 3rd Ave., Yakima; Valley Plumbing & Heating, 609 W. Yakima Ave., Yakima; Buren Sheet Metal Works, 501 W. Washington Ave., Yakima; Central Plumbing & Heating, 510 S. 1st St., Yakima; Sunnyside Plumbing & Heating; Sunnyside Sheet Metal, 7th 7t.; John's Tin Shop, 610 Decatur; Matheson Heating & Plumbing, 214 W. 2nd, Grandview. ELECTRICAL: Kingman Electric, 6th St.; Valley Refrigeration, 1401 Sunnyview; Electric Service, 911 Crescent; Creamer Electric, Nob Hill Blvd., Yakima; McLean Electric, 1121 Division St., Yakima. All planholders of Sunnyside unless otherwise noted. IG 4-14. Previous report 4-5

▲HEATING PLANT— Tacoma, Wash.

Bids received April 11 by 13th Naval District, Bureau of Yards and Docks, Rear Admiral R. H. Meade, chief of bureau, room 100, Building 232, U. S. Naval Station, Seattle, for conversion to automatic operation the central heating plant in Building No. 51, U. S. Naval Station, Tacoma; NOy 90480; Spec. No. 49159. LOW BID: S. M. Gilbert Co., 7100 E. Marginal Way, Seattle, $19,850.

GW 4-13. Previous report 4-5

● BUILDING ALTERATIONS— Tacoma, Wash.

Bids to be opened 2 p.m., April 27, by 13th Naval District, Bureau of Yards and Docks, Rear Admiral R. H. Meade, chief of bureau, room 100, Building 232, U. S. Naval Station, Seattle, for alterations to building No. 319, U. S. Naval Station, Tacoma; NBy-2003; Spec. No. 2003/56. Plans with Public Works Officer, Seattle. $25 deposit. Bid bond 20%. Work consists of replacing the existing interior finishes, raising ceiling of the main chapel, new concrete porch, mechanical and electrical alterations.

GW 4-17

● SCHOOL— Thorp, Wash.

Bids will be opened 7:30 p.m., May 15, by School District No. 400, Kittitas County, Thorp, for construction of senior high school in Thorp. Plans with Maloney & Whitner, architects, Larson Bldg., Yakima. $50 deposit. General, mechanical and electrical contracts to be bid separately. Bids rejected on same job March 6.

IG 4-18. Previous report 3-8

● BOWLING ALLEY— Tumwater, Wash.

Bids will be opened April 24, by The Bowl, Tumwater, for construction of a bowling alley at Tumwater. Plans with Wohleb & Wohleb, architects, 715 S. Washington, Olympia.

Planholder: E. Goettling & Son, 2921 S. J St., Tacoma. SP 4-18

● SCHOOL ADDITION— Vancouver, Wash.

Bids to be opened 8 p.m., May 10, by School District No. 81, Clark County, Orville Hammond, clerk, 6115 N.E. Jaggy Road, Vancouver, for additions to Walnut Grove School, on Jaggy Road, approximately 5 mi. northeast of Vancouver. Plans with McCoy and Bradbury, architects, 7007 Highway 99-N, Vancouver. $25 deposit. Certified check, cashier's check or bid bond 5%.

Includes razing old portion of building; addition to newer portion of building of four classrooms, office, health unit, storage and toilet rooms; alternates for kitchen and for stage on multipurpose room at other end of building, and for covered bus loading area. Frame construction with brick veneer; built-up roof; clerestory lighting; wood sash; concrete slab floor with asphalt tile; classroom walls prefinished fiberboard; acoustical ceilings; some plaster; mirowall wainscots and ceramic tile flooring in toilet rooms; incandescent lighting; extension of existing hot water heating system.

WB 4-17. Previous report 2-2

■ SENIOR HIGH SCHOOL— Wapato, Wash.

Planholders announced for construction of new senior high school at Wapato. Bids will be opened April 24 by School District No. 207, P. R. Sybar, superintendent, Wapato High School, 500 Wasco Ave., Wapato. Plans with Maloney & Whitney, architects, Larson Bldg., Yakima.

Planholders: A. Ritchie & Co., Box 516, Walla Walla; Jensen-Rasmussen & Co., Box 89, Sunnyside; Gilbert Moen, 516 S. 5th Ave., Yakima; Bickford Construction Co., 823 S.E. 28th Ave., Portland; Dahlgren Construction Co., 1700 21st Ave. S., Seattle; Chert Bros. & Sandkay, Inc., Box 577, Sunnyside. IG 4-14

MUSEUM— Yakima, Wash.

(Estimated cost $140,000)

Preliminary drawings underway by John S. Villesvik, architect, 109 N. 3rd St., Yakima, for construction of a museum in Franklin Park, Yakima, for Yakima Valley Pioneer Association, Yakima. IG 4-12

SCHOOL— Yakima, Wash.

Working drawings underway by Watler R. Rothe, architect, 807 W. Yakima, Yakima, for construction of three additional units to White Swan High School in Yakima, for White Swan School District No. 88, Frank Robertson, superintendent, Yakima. Bids were opened and rejected last fall; plans are being revised and new bid call will be issued soon.

The three units consist of the following: UNIT 1—Music room and dressing room added to existing gymnasium; two-story, brick veneer walls; wood (1st floor) and concrete slab (2nd floor) floors; glued laminated girders, beams, columns; built-up composition roof; frame partitions; wood stairways; steel windows; plaster and paint interior finish, wood-stain and varnish interior trim on walls; plaster wood lath partitions; asphalt tile flooring on 1st floor; wood doors; attachment to existing steam heating system. UNIT 2—Shop building, one-story including one large room with cabinets; concrete block walls; concrete slab floors; steel roof with built-up roofing; steel windows; exposed masonry walls; exposed ceilings; wood doors and cabinets; attachment to existing steam heating system. UNIT 3—Two-classroom addition to existing building; brick veneer walls; concrete slab floors; wood frame built-up roof; frame partitions; wood windows; painted plaster interior finish on walls; stained and varnished wood floor finish; plaster and drywall ceilings; wood doors; attachment to existing steam heating system. Construction of units should be complete by summer.

IG 4-12

RESTAURANT ADDITION— Yakima, Wash.

Project dropped by Champ Sanford, designer, 602 S. 5th Ave., Yakima, for a restaurant addition at Washington and 16th, Yakima, for Skyline Cafe, Yakima. Overbid approximately $6,000.

IG 4-11. Previous report 2-17

COMMERCIAL BUILDING— Yakima, Wash.

(Estimated cost $30,000)

Construction to start immediately for construction of a commercial building, 915-921 Summitview Ave., Yakima, for Stubbs Fruit & Storage Co., Frank Stubbs, owner, 111 N. 2nd Ave., Yakima. General contractor is Paul Cook, Crescent Drive, Yakima. Poured concrete footings and foundations; brick walls; built-up roof, asbestos shakes; oil heat.

IG 4-14

APARTMENT HOUSE— Yakima, Wash.

(Estimated cost $80,000)

Sub-contract bids being taken by John Morken, 111 S. Naches Ave., Yakima, for construction of a nine-unit apartment house, 213-219 N. 38th Ave., Glenview Addition, Yakima. General contractor is Paul Cook, Crescent Drive, Yakima. Poured concrete footings and foundation; brick veneer walls; pitched roof, asbestos shakes; radiant ceiling heat.

IG 4-14

● FLOOR REPAIRS— Yakima, Wash.

Bids to be opened 1 p.m., April 30, by Department of Army, Harry C. Ryan, contracting officer, Fort Lewis, for repair of floor in Building No. T-1910, Yakima Training Center, Yakima; Inv. No. AVI-45-016-56-107.

GW 4-11

Up to the minute news on all types of building and engineering construction in the states of Oregon, Washington, Idaho, Montana, Wyoming, Utah and in Alaska, will be found in these columns.

IDAHO

MAUSOLEUM— **Boise, Idaho**
(Estimated cost $250,000)

Plans will be completed May or June by Harold G. Thompson, architect, 6001 Fairview Ave., Boise, for a combined mausoleum and crematorium to be constructed on a 12-acre site ½ mile west of Cole School in Boise, for Mountain View Memorial Park, Inc., Boise. Sub-contract bids will be taken by the general contractor, Reynolds & Louis Construction Co., c/o architects.

One-story; no basement; concrete footings, foundation; poured concrete walls; concrete floors, girders, beams; steel windows; concrete finish on exterior and interior walls; marble trim; hot water heat, oil fired.
SP 4-12. Previous report 3114

SCOUT SERVICE CENTER— **Boise, Idaho**
(Estimated cost $21,000)

Plans approved by Mountainview Scout Council, Alva Greene, president, Boise, for the construction of a Scout service center on property purchased from the former Boise barracks grounds. SC 4-12

★WAREHOUSE— **Buhl, Idaho**

Awards to Reynolds & Walker, 1155 Highland Ave., Twin Falls, Idaho, $145,800, by Green Giant Co., City Hall, Buhl, for construction of a warehouse for the present plant at Buhl. Plans by Bettenburg, Townsend, Stolte & Comb, architects, 1437 Marshall Ave., St. Paul, Minn.
SP 4-14. Previous report 4-10

● SPERT AREA ADDITIONS— **Idaho Falls, Idaho**

Bids to be opened 2 p.m., M.S.T., May 3 by Atomic Energy Commission, Idaho Operations Office, Box 1221, Idaho Falls on constructions of additions to SPERT area control building at the National Reactor Testing Station, Idaho; Inv. No. AT(10-1)-819. Specifications with above office. Bid bond 10%.

Construct 40' x 120' prefabricated steel building; 40'x32' extension to existing building; relocate partitions in existing building; construct roadway, water main and parking area at SPERT 3 area; construct road and aprons within SPERT control area; remove old and install new booster pump in pump house; conduct all appurtenant and related construction in the SPERT control area and the CFA communications building.

Planholders: Peter Keweit Sons' Co., Box 253, Idaho Falls; Wadsworth Construction Co., 255 Broadway, Idaho Falls; C. H. Elle Construction Co., Box 1190, Pocatello; J. H. Wise & Son, Inc., Box 267, Boise; Arrington Construction Co., Box 881, Idaho Falls; Bickford Construction Co., 823 S.E. 28th, Portland, Ore.; Teller Construction Co., 845 N. Graham, Portland. DM 4-18

★TELEPHONE OFFICE— **Kamiah, Idaho**

Award to Grangeville Lumber Co., Inc., Grangeville, about $160,000, by Pacific Telephone and Telegraph Co., G. C. Davenport, manager, Lewiston, for construction of a dial telephone office on the southwest corner of Oak and 6th Streets, in Kamiah.
GW 4-13. Previous report 12-8

● BANK— **Lewiston, Idaho**
(Estimated cost $200,000)

Bids will be opened 2 p.m., May 4, by Idaho First National Bank, John A. Schoonover, president, Boise, for construction of a new branch bank in Lewiston. Plans with architects Hugh Richardson 416 Weisgerber Bldg., Lewiston, and Hummel, Hummel & Jones, 1324 Idaho, Boise.

One-story; 8,000 sq. ft. area; steel and concrete construction; terrazzo cork flooring; oil heat; air conditioning; other materials include granite, aluminum and glass.
SP 4-18. Previous report 2-3

● SCHOOLS— **Nampa, Idaho**
(Estimated cost $562,000)

Bids will be opened 3 p. m., May 1, Class A School District No. 131, Nampa, for construction of additional classroom unit at the high school site in Nampa. Plans with Anton E. Dropping, architect, 2504 Kootenai, Boise. $25 deposit. Bid bond 5%.
SP 4-18. Previous report 4-3

★TELEPHONE OFFICE— **Nezperce, Idaho**

Award to Bert Conklin, 817 3rd, Lewiston, for about $100,000, by Pacific Telephone and Telegraph Co., G. C. Davenport, manager, Lewiston, for a dial telephone office on the southwest corner of Maple St. and 3rd Ave., in Nezperce. GW 4-13. Previous report 12-8

● SCHOOL ADDITION— **Sandpoint, Idaho**

Bids to be opened 8 p. m., May 7, by Class A School District No. 82, Bonner County, Charles E. Selle, business manager, District Administrative Office, McFarland Bldg., Sandpoint, for construction of a new addition to Kootenai School. Plans with administrative office and with G. A. Pehrson & Associates, architects, Old National Bank Bldg., Spokane. $10 deposit. Certified check, cashier's check or bid bond 5% Separate bids on general, electrical, heating and ventilating, plumbing and drainage. Addition to consist of multipurpose room, kitchen, toilets, showers, dressing rooms. CE 4-18

OFFICE, MILK PLANT ADDITION— **Twin Falls, Idaho**
(Estimated cost $50,000)

Preliminary plans underway by Harold Gerber, architect, 203 Shoshone N., Twin Falls, for construction of an office and milk plant addition at 159 4th Ave. W., Twin Falls. Bids will be called by Youngs Dairy, Alton B. Young, owner, Twin Falls.
FJ-G 4-12

Our news covers the six Pacific Northwest states and Alaska.





HARDWARE MUTUAL INSURANCE CO.
Los Angeles, California
Architect: Stiles and Robert Clements, Architects-Engineers
Contractor: Architectural & Mechanical Products Co.

SPANDREL AREAS are given life-time protection and attractive symmetrical treatment by use of *Porcelain Enamel* laminated panels ...*adding strength where it's needed and beauty where it shows.*

Write for detailed information and color chart

ARCHITECTURAL DIVISION
PORCELAIN ENAMEL PUBLICITY BUREAU
P. O. BOX 186 • EAST PASADENA STATION • PASADENA 8, CALIFORNIA
1444 WEBSTER STREET • ROOM 4 • OAKLAND 12, CALIFORNIA

COMFORT with ECONOMY in
PORTLAND
OREGON
Portland's fine home-like hotel in the center of the city—Unsurpassed service and fine cuisine makes your visit one of happiness and comfort.

Campbell Court Hotel
ELEVENTH AND MAIN STREETS
Our rates are especially reasonable. All rooms with private bath. Singles from $3.50. Doubles from $4.50

MONTANA

MILL, SMELTER— Anaconda, Mont.

Approximately $9,000,000 will be spent by Anaconda Copper Mining Co., Quartz and Main Streets, Butte, for mill and smelter changes at Anaconda, and for railroad rolling stock for the Butte, Anaconda and Pacific Railway. Another $7,000,000 is marked for equipment at the Berkley pit. DC 4-14

MEN'S DORMITORY— Billings, Mont.

Additional description on men's dormitory on campus of Eastern Montana College of Education in Billings. Bids will be opened 10 a. m., May 10, by State Board of Education, Capitol Bldg., Helena. Plans with Cushing, Terrell & Associates, architects, 1333 Airport Road, Billings. $50 deposit. Certified check 5%. Completion time 360 calendar days.

Three-story; no basment; 38'x178'; concrete footings and foundation; brick block walls; concrete floor, girders, beams, columns, stairways; flat roof; block partitions; aluminum windows; brick exterior, painted block interior wall finish; exposed block partitions; asphalt tile floor finish; acoustical ceilings; wood doors and cabinets; rigid insulation in roof; conduit lighting.

SP 4-18. Previous report 3-16

● SCHOOL ADDITIONS— Billings, Mont.

Bids will be opened 8 p. m., May 10, by Yellowstone County School District No. 2, superintendent, 3201 4th Ave. N., Billings, for 6-classroom addition to Orchard School, 120 Jackson St., Billings. Plans with Chandler C. Cohagen, architect, Hedden Bldg., Billings.

One-story addition to be L-shaped with no basement; concrete footings and foundation; solid masonry brick walls; concrete beam and girder floors; steel girders, beams, columns over windows; glue laminated flat roof; concrete block partitions; aluminum windows; brick exterior wall finish; concrete block exposed masonry partitions; asphalt tile floor finish; acoustical ceilings; folding doors on closets, blackboards; rigid insulation in roof; forced warm air heat with gas fuel; furnace in each room.

EE 4-18. Previous report 11-16

SAVE MONEY
when pouring concrete
RENT ECONOMY STEEL FORMS
•
Easily and quickly assembled
•
Complete supervisory service
•
Adaptable to wide use
•
Save time and material
•
Other forms available on a purchase basis

Write for catalog to
ECONOMY FORMS CORP.
HOME OFFICE • DES MOINES, IOWA
DISTRICT SALES OFFICES: St. Louis, Mo. • Kansas City, Mo. • Lincoln, Neb. • Minneapolis, Minn. • Ft. Wayne, Ind. • Milwaukee, Wisc. • Cincinnati, Ohio • Cleveland, Ohio • Metuchen, N. J. • Rochester, N. Y. • Springfield, Mass. • Washington, D. C. • Decatur, Ga. • Dallas, Texas • Los Angeles, Calif. • Oakland, Calif. • Denver, Colo.

● SCHOOL ADDITION— Billings, Mont.

Bids will be opened 8 p. m., May 10, by Yellowstone County School District No. 2, superintendent, 3201 4th Ave. N., Billings, for multipurpose room addition to North Park School, 615 N. 19th, Billings. Plans with Gene E. Trotter, architect, 219½ N. Broadway, Billings. $25 deposit.

One-story addition to include multipurpose room, kitchen, storeroom, office, nurses room; no basement; 3,750 sq. ft. area; concrete footings and foundation; solid masonry, frame with brick veneer walls; concrete slab floors; glue laminated girders, beams, columns; glue laminated beam roof, Tectum deck; frame partitions; concrete stairways; wood windows; brick and cement-asbestos exterior, hardwood and plaster interior wall finish; wood exterior and interior wall trim; exposed masonry, drywall, gypsum lath plaster partitions; asphalt and vinyl tile floor finish; Tectum ceilings; wood doors and cabinets; corrugated plastic panels; blanket insulation in walls, rigid insulation in roof; steam heat with natural gas fuel; heating and ventilating unit in multipurpose room; one unit ventilator.

EE 4-18. Previous report 11-16

■ SCHOOL ADDITIONS— Billings, Mont.

Planholders announced for construction of additions to two schools in Billings. Bids will be opened 7:30 p. m., April 24, by Yellowstone County School District No. 2, Edward Lacklan, business manager, 3201 4th Ave. N., Billings. Plans for addition to Broadwater School, 415 Broadwater Ave., Billings, are with Harry Loners, architect, 418 N. 25th, Billings; plans for Taft School, 515 S. 26th, Billings, with Vernon L. Drake, architect, Empire Bldg., Billings.

Planholders — BROADWATER SCHOOL (additional)—GENERAL: Hitz Construction Co., 2111 4th Ave. N.; Wells Brose Construction Co., 704 Dunham Ave. MECHANICAL: Christensen Plumbing & Heating, 3615 Montana Ave.; Big Horn Plumbing & Heating, 115 N. 27th St.; John's Plumbing & Heating, 1144 Grand Ave. ELECTRICAL: Dahlstrom Electric, 233 N. 15th St.; Billings Electric Supply, 214 N. 30th St.; Empire Electric, 2412 4th Ave. N.; Curley-Naylor Electric, 123 N. 16th St.; Yellowstone Electric, 520 N. 32nd St. All of Billings. TAFT SCHOOL—GENERAL: Pogue Construction Co., 1715 2nd St. W.; Frates Construction Co., 424 Rimrock Road; Pederson Construction Co., 2925 Ronan Drive; Hardy Construction Co., 420 N. 25th St.; Wells Bros. Construction Co.; Lowe Construction Co., 2325 9th Ave. N.; Cop Construction Co., 617 Central Ave. MECHANICAL—PLUMBING: Big Horn Plumbing & Heating; Midland Plumbing & Heating, 425 N. 19th St.; Christensen Plumbing & Heating; Wagner's Plumbing & Heating, 1043 Miles Ave. HEATING: Big Horn Plumbing & Heating; Central Sheet Metal, 407 N. 24th; Empire Heating & Cooling, 1309 Division. ELECTRICAL: Billings Electric Supply; Empire Electric; Sterling Electric, 1231 Central Ave.; Dahlstrom Electric; Curley-Naylor Electric. All of Billings.

EE 4-18. Previous report 4-12

CHURCH— Butte, Mont.
(Estimated cost $175,000)

Oswald Berg, architect, 1119 N. 7th, Bozeman, has been retained to draw the plans for the Emmanuel Evangelical Lutheran Church, to be located at Florence, Massachusetts and "B" Sts., Butte. The new brick and frame building will be built in two phases. First stage is for Sunday School rooms at an estimated cost of $70,000. Main Church building will be contracted later at a cost of about $100,000. Rev. John Nesstron, is pastor of the church. EE-M 4-12

● SWIMMING POOL— Butte, Mont.

Bids will be received until 5 p. m. and opened 7:30 p. m., April 25, by City Council, City Hall, Butte, for furnishing materials for construction of an outdoor swimming pool north of Civic Center in Butte. Specifications with James P. Egan, commissioner of public works, City Hall, Butte. $10 deposit. Bidders to include the following in bids: 1—necessary steel for construction of pool, 41'x82'x11', and alternate; 2—reinforced concrete for complete construction of pool.

SP 4-17. Previous report 2-4

■ PUBLIC LIBRARY— Cut Bank, Mont.

Planholders announced for construction of a public library in Cut Bank. Bids will be opened April 25 by Glacier County Library Association, Ruth O. Longworth, librarian, Cut Bank. Plans with Page & Werner, architects, Box 500, Great Falls.

Planholders—GENERAL: Ehlert Construction Co., Cut Bank; Roy Shelby, Jr., Cut Bank; Gyrion Construction Co., 94 5th Ave. W. N., Kalispell; Farrier Construction Co., 2200 N. Benton Ave., Helena; John A. Bergum, 915 Poplar, Helena.

SP 4-13. Previous report 4-[illegible]

COLLEGE BUILDINGS— Dillon, Mont.
(Estimated cost $400,000)

Bids will be opened in May or June by Western Montana College of Education, Russ Jordan, president, Dillon, Mont., for construction of two apartment dormitories of 16 units each and a student union building. Plans by Norman J. Hamill, architect, 122 W. Granite St., Butte.

Structure to be of concrete block; central heating; tile flooring.

SP 4-6. Previous report 3-2[illegible]

★ HIGH SCHOOL— Drummond, Mont.

Award to Cahill-Mooney, 1220 E. Front St., Butte, $229,000, by High School District No. 2, N. W. Morse, clerk, Granite County, Drummond, for construction of a high school in Drummond. Plans by Balzhiser & Seder, architects, 1920 Franklin Blvd., Eugene, Ore.

SP 4-18. Previous report 3-[illegible]

SCHOOL BUILDINGS— Forsyth, Mont.

Bond issues defeated by voters of Forsyth High School District and School District No. 4, Forsyth, in April 7 election. Bonds of $225,000 would have financed construction of and alterations to school buildings in the two districts.

SP 4-18. Previous report 3-2[illegible]

HOSPITAL ADDITION— Helena, Mont.

Bids will be opened May by St. Peter's Hospital Board, Norman J. Holter, president, 631 Poiver St., Helena, for a 25-bed addition to St. Peter's Hospital, 35 11th Ave., Helena. Plans by Sigvald L. Berg, 711 Monroe Ave., Helena.

LS 4-18. Previous report 6-23-[illegible]

COURTHOUSE, JAIL— Kalispell, Mont.
(Estimated cost $1,200,000)

Preliminary plans completed by Richard Taylor, architect, Ford Block, Kalispell, for construction of a new Flathead County courthouse and jail adjacent to existing courthouse on S. Main St., Kalispell. Project contingent on $1,200,000 bond election to be held in November. New two-story building will cover 56,700 sq. ft. area. RB 4-17

● SCHOOL— Kevin, Mont.

Bids to be opened 7 p. m., April 30, by School District No. 8, Toole County, Kevin, for a new grade school in Kevin. Plans with Weed & Fehlberg, Sundelius Bldg., Kalispell. $25 deposit. Plans call for steel beams and poists, cedar siding, aluminm sash, plasterboard walls, vinyl-asbestos flooring, gas fired vacuum steam heating. DC 4-13

▲ NORTH SIDE SCHOOL ADDITION— Shelby, Mont.

Bids received by School District No. 14, Toole County, Shelby, for construction of an addition to North Side Elementary School in Shelby. Plans by Brinkman & Lenon, architects, Strand Theater Bldg., Kalispell. LOW BIDS—GENERAL: Frates Construction Co., 424 Rimrock Road, Billings, $87,000; John Bergum, 915 Poplar St., Helena, $88,500; Gyrion Construction Co., 94 5th Ave. W., Kalispell, $94,563. MECHANICAL: Johnson Plumbing & Heating, 527 1st Ave. S., Glasgow, $22,150; Eaton Plumbing & Heating, Eaton, $22,896; Cut Bank Plumbing & Heating, 27 W. Main, Cut Bank, $24,876. ELEC-

TRICAL: Frank's Electric Supply, Shelby, $4,533; Oil City Electric, 428 Main, Shelby, $5,260; M & M Electric, 615 Oilfield Ave., Shelby, $5,321. Bids opened April 3.
SC 4-14. Previous report 3-27

▲WEST SIDE SCHOOL ADDITION— Shelby, Mont.

Bids received by School District No. 14, Toole County, Shelby, for construction of West Side Elementary School addition. Plans by Brinkman & Lenon, architects, Strand Theater Bldg., Kalispell. LOW BIDS—GENERAL: Palmer Construction Co., 1324 Central Ave., Great Falls, $143,999; Frates Construction Co., 424 Rimrock Road, Billings, $147,380; Gyrion Construction Co., 94 5th Ave. W., Kalispell, $147,509. MECHANICAL: Al's Plumbing & Heating, Box 1267, Conrad, $35,579; Kalispell Plumbing & Heating, 333 1st Ave. E., Kalispell; Johnson Plumbing & Heating, 527 1st Ave. S., Glasgow, $42,080. ELECTRICAL: Pollock Electric, Kalispell, $7,482; Electric Supply, 255 W. 1st, Havre, $8,484; Oil City Electric, 428 Main, Shelby, $8,570. Bids opened April 3.
SC 4-14. Previous report 3-27

●■HIGH SCHOOL ADDITION— Westby, Mont.

Bid opening extended from April 18 to April 25 by High School District No. 3, Sheridan County, Westby, for construction of a high school addition. Plans with McIver, Hess & Haugsjaa, 603 Strain Bldg., Great Falls.

Planholders—GENERAL: Boundary Construction Co., Plentywood, Mont.; Morgan & Oswood Construction Co., Box 225, Glasgow; Sterhan Construction Co., Box 1247, Glendive; Gens Construction Co., Seabay, Mont.; Smitt Construction, Box 1234, Williston, N. Dak.; Stahl & Rhea, Box 185, Chinook; Hugo T. Schellin Construction, 201 New York St., Chinook. MECHANICAL: Robert Gibb & Sons, Box 620, Willison; Cummings Plumbing & Heating, Box 527, Glendive; Elmer Johnson Plumbing & Heating, Glasgow. ELECTRICAL: Benson Electric Service, Sidney; Gate City Electric, Box 1008, Glendive; Triangle Electric, Box 1317, Williston.
SP 4-17. Previous report 4-13

SCHOOL— Whitehall, Mont.

Ten-mill levy rejected by Whitehall School Board, Whitehall. Levy would have provided $17,000 for remodeling an old grade school into a junior high school in Whitehall.
SC 4-14

WYOMING

■SCHOOL ADDITION— Buffalo, Wyo.

Planholders announced for construction of an addition, including new gymnasium and alterations at the high school in Buffalo. Bids will be opened 4 p. m., May 1, by Johnson County School District, High School Building, Buffalo. Plans with Vernon Drake, architect, Empire Bldg., Billings.

Planholders—GENERAL: Lowe Construction Co., 2324 9th Ave. N., Billings; Riedesel-Lowe Construction Co., 501 E. 15th, Cheyene; William E. Burkes, Box 732, Casper; Max Dudley Construction Co., Box 668, Riverton; Hitz Construction Co., 2111 4th Ave. N., Billings; Julian Construction Co., Newcastle; Husman Bros., Inc., Big Horn Ave., Sheridan; Garton & Garton Construction Engineers, 1939 E. 18th, Cheyenne. MECHANICAL: Columbus Plumbing & Heating, 756 Broadway, Sheridan; Poole Plumbing & Heating, 124 E. 21st, Torrington; Mills Plumbing & Heating, Buffalo; Prill Bros. Sheet Metal Works, 40 E. 5th, Sheridan; Denny Plumbing & Heating, 619 Coburn Ave., Worland; Roush Plumbing & Heating, 1055 N. Custer, Sheridan; Frickey Sheet Metal Co., Inc., 545 N. Main, Sheridan. ELECTRICAL: Caldwell Electric, Box 877, Powell; Knepper Electric, Buffalo; Central Electric, 1260 Marion, Sheridan; Mike's Electric Service, 45 E. Alger, Sheridan.
EE 4-18. Previous report 4-10

★POST OFFICE, COURTHOUSE ALTERATIONS— Cheyenne, Wyo.

Award to W. G. Dale Electric & Appliance, 114 E. 20th, Cheyenne, $11,229, by General Services Administration, Otto G. Klein, regional director, Bldg. 41, Denver Federal Center, Denver, Colo., for lighting and electrical changes at the U. S. Post Office and Courthouse, Cheyenne.
SP 4-17. Previous report 3-27

SCHOOL ADDITION— Glendo, Wyo.

Plans are in progress for addition to grade and high school building, School District No. 8, Glendo. Plans with Goodrich & Wilking, architects, Casper. The new addition, estimated to cost $90,000, will be one-story, brick and concrete, containing five new classrooms. Alterations to existing buildings included in the estimated cost.
LY 4-13

●GEOLOGY BUILDING— Laramie, Wyo.
(Estimated cost $250,000)

Bids will be opened 2 p.m., May 4, by University of Wyoming, Laramie, for alterations to the existing Geology building on University of Wyoming campus in Laramie. Plans with Porter & Bradley, architects, 1009 E. Lincolnway, Cheyenne. $100 deposit. Bid bond 5%.
LY 4-13

●SERVICE BUILDING UNIT— Laramie, Wyo.
(Estimated cost $75,000)

Bids will be opened 2 p.m., May 1, by University of Wyoming, Laramie, for construction of a third unit to the existing building. Plans with Porter & Bradley, architects, 1009 E. Lincolnway, Cheyenne, and Holzinger & Schropfer, architects, 328 E. 2nd St., Box 625, Casper. $100 deposit. Bid bond 5%. Added unit to provide for carpenter's shop.
LY 4-13

★OFFICE BUILDING— Lovell, Wyo.

Award to Louis B. Welch, Cowley, Wyo., $29,900, by Mountain States Telephone & Telegraph Co., 1919 Capitol Ave., Cheyenne, for the construction of office building at Lovell. Bids opened April 3.
SP 4-14. Previous report 3-30

★SCHOOL— Manderson, Wyo.

Award announced by Manderson-Hyattville High School District, Big Horn County, Manderson, for construction of high school and gymnasium building at Manderson. Plans by Tresler & McCall, architects, 1276 Sheridan Ave., Cody. AWARD: Max Dudley Construction Co., Box 668, Riverton, $511,752. 2ND LOW: J. C. Boespflug Construction Co., Inc., Box 1237, Billings, $542,700. 3RD LOW: Louis B. Welch Construction Co., Box 176, Cowley, $545,000 (same amount bid by W. D. Ellis, Contractors, Cody, and C. H. Elle Construction Co., Box 845, Pocatello, Idaho—joint bid). Bids opened April 12.
SP 4-17. Previous report 4-4

★HOME ECONOMICS DEPARTMENT— Sheridan, Wyo.

Award announced by Sheridan School District, Sheridan, for remodeling home economics room at Sheridan High School in Sheridan. Plans by Harrison L. Cook, Associates, architects, 119 N. Main St., Sheridan. AWARD: Williams Construction Co., 1020 S. Thurmond St., $6,652. Bids opened April 12.
LY 4-18

SCHOOL ALTERATIONS— Sheridan, Wyo

Plans will be complete soon by Harrison L. Cook & Associates, architects, 119 N. Main St., Sheridan, for alterations to Coffeen School, Sheridan, for School District No. 7, Karl D. Bell, superintendent, Adair Ave., Sheridan.

Project includes alterations to three residences for primary school use, including removal of partitions, installation of rest rooms, and general repairs to building. Specifications: frame partitions, walls and floors; steel girders, beams, columns; wood windows; plaster metal lath partitions asphalt tile; plaster acoustical ceilings; wood doors and wardrobes; blackboards; blanket insulation in walls.
LY 4-18

★AIRMEN'S DORMITORIES, DINING HALL— Warren AFB., Wyo.

Award to Riedesel-Lowe Co., 501 E. 15th, Cheyenne, $1,282,719, by Corps of Engineers, Building 297, Warren AFB., Cheyenne, for construction of airmen's dormitories and dining hall at Warren AFB.; ENG-25-066-56-75. Plans by Porter & Bradley, architects, 1009 E. Lincolnway, Cheyenne.
SP 4-14. Previous report 4-5

UTAH

GIRL'S DORMITORY— Ephraim, Utah
(Estimated cost $149,000)

Plans underway by Erick Sandstrom, 290 N. University Ave., Provo, for a new girls'

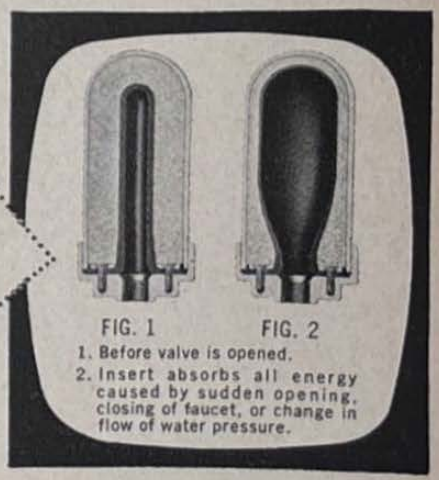
To Control WATER HAMMER
specify
JOSAM SHOCK ABSORBER



Josam PRODUCTS STANDARD OF THE WORLD

JOSAM PACIFIC CO.
765 FOLSOM ST. • EXbrook 2-3143
SAN FRANCISCO 7, CALIFORNIA

Los Angeles - Seattle - Portland - Spokane - Salt Lake - Phoenix - El Paso - Hawaii - Alaska - Philippines



dormitory for Snow College, 150 College Ave., Ephraim. SP 4-18. Previous report 1-11

GYMNASIUM, SCHOOL REMODELING— Fillmore, Utah
(Estimated cost $330,000)
Additional description for construction of a new gymnasium at Millard High School and remodeling of Millard Junior High School in Fillmore. Bids will be opened April 27 by Millard County School District, Fillmore. Plans with Woods & Woods, architects, 19 W. S. Temple, Salt Lake City.
One- (gymnasium) and two- (existing building) story with basement; 127'x100' (gymnasium); concrete footings and foundation; solid masonry walls; concrete slab floors; precast concrete girders, beams, columns; flat roof; steel windows; masonry exterior, brick wainscot interior wall finish; cinderblock interior wall trim; maple floor finish; acoustical ceilings; wood and steel doors; 1½" insulation in roof; incandescent lighting; steam heat with coal fuel.
GH 4-13 . Previous report 4-11

●LIGHTING MODIFICATIONS— Hill AFB, Utah
Bids will be opened 2:30 p.m., April 30, by Commander, Ogden Air Material Area, Attn. OOPPCS-4, Hill AFB., Utah, for modifications to lighting in Bldg. 1 at Hill AFB.; IFB 42-600-45-333. Bid bond 20%. GH 4-18

DOCTORS' CLINIC— Murray, Utah
Plans cancelled by Dr. Eldin W. Boggess, owner, 142 E. 4800 S., Murray, for new doctors' clinic at Murray.
GH 4-17. Previous report 1-20

★TECHNICAL BUILDING— Ogden, Utah
Award to J. L. Aikens Construction Co., 545 2nd St., Ogden, $455,800 (base bid plus two alternates), by Utah State Building Board, J. G. King, superintendent of construction, 419 State Capitol, Salt Lake City, for construction of a technical building on the campus of Weber College in Ogden. Plans by William Rowe Smity, architect, 1555 E. 37th St., Salt Lake City.
GH 4-13. Previous report 4-7

SCHOOLS— Ogden, Utah
Bond election will be held April 24 by Ogden School Board, Dr. T. O. Smith, superintendent, Ogden, for $2,500,000 bond issue for construction of new schools in Ogden. Funds would finance building of new junior high school, three elementary schools, and purchase of new building sites. SC 4-14

HOSPITAL— Provo, Utah
(Estimated cost $1,500,000)
Bids are tentatively slated to be opened June 30 for construction of a 200-bed hospital in Provo. Location of project is ¼ mile north of present infirmary. F. R. Nicholes, is commissioner in charge of the infirmary. Plans are being drawn by architects, Fred L. Markham & Associates, 45 N. University Ave., Provo, and Williard C. Nelson, 170 S. 1st East, Provo. This will be a chronic disease hospital financed partly by the county, partly by the Eldred Sunset Manor Foundation, Inc., and it is hoped, by $150,000 from the Hill-Burton Act fund. Bids will be called by Utah County Commissioners, Courthouse, Provo. MG 4-18

SHOPPING CENTER—Salt Lake City, Utah
(Estimated cost $250,000)
Plans announced by Alan E. Brockban, 428 E. 2nd South, Salt Lake City, for construction of a new shopping center at 11th W. and 4th N. in Rose Park Area in Salt Lake City. Plans by John N. Clawson, architect, 2410 Stringham Ave., Salt Lake City. Project includes expansion of Stimson's Rose Park AG Market from 6,000 sq. ft. to 16,000 sq. ft.; expansion of Buy Wise Pharmacy 50%.
GH 4-18

OUT-PATIENT BUILDING— Salt Lake City, Utah
(Estimated cost $500,000)
Plans announced by Salt Lake County Commission, Abram Barker, commissioner, City-County Bldg., Salt Lake City, for construction of a new two-story, brick outpatient building north of the existing outpatient facility. Plans by Scott & Beecher, architects, 617 Dooly Bldg., Salt Lake City.
GH 4-18

ALASKA

★MILITARY BUILDINGS— Alaska
Award to Macri Construction Co., Box 938, Anchorage, $174,468 by Corps of Engineers, Alaska District, D-E Bldg., Anchorage for improvements to 145 family housing dwellings in Fort Richardson. The contract was on Schedule C of ENG-95-507-56-13 which covered military construction at Ladd AFB, Fort Richardson and Elmendorf AFB. Contracts have already been awarded on schedules B-1, B-2, G I, E and H.
DM 4-18. Previous report 4-7

SCHOOL— Anchorage, Alaska
(Estimated cost $955,000)
Plans completed by Manley & Mayer, architects, Loussac-Sogn Bldg., Anchorage, for remodeling Talkeetna Elementary School, Mountain View, Alaska. Building includes 20 classrooms and multipurpose room. Plans now awaiting territorial approval.
SC 4-13. Previous report 2-2

▲ELKS LODGE— Anchorage, Alaska
Bids received by B.P.O.E. in the secretary's office, 3rd and G Streets, Anchorage, for construction of the first unit of the proposed new Elks Lodge building in Anchorage. Plans by Edwin B. Crittenden, architect, Box 358, Anchorage. LOW BIDS: J. B. Warrack Co., 400 2nd Ave. W., Seattle, $316,900; Denali Engineering Co., Anchorage, $354,151; E. M. Peterson Construction, Box 1116, Spenard, $379,859. Bids opened April 12.
SP 4-17. Previous report 4-11

WAREHOUSE— Anchorage, Alaska
(Estimated cost $300,000)
Plans announced by Fuller Paint & Glass Co., Max Curtis, manager, Anchorage, for construction of a new plant on the corner of 7th Ave. and Gambell St., in Anchorage. Plans submitted for reference to Manley & Mayer, architects, Loussac-Sogn Bldg., Anchorage by Fuller's engineers in States. Completion time fall of 1956. Building will cover 30,000 sq. ft. area, and house total operation of the company including warehouse and offices.
SC 4-18

●SCHOOL ADDITION— Anchorage, Alaska
Bids to be opened 8 p. m., A.T., May 15, by Anchorage Independent School District at office of superintendent of schools, Box 80, Anchorage, for construction of a six-classroom addition to the North Star Elementary School in Anchorage. Plans with Manley & Mayer, architects, 210 Loussac-Sogn Bldg., Anchorage, and with C. A. Pangborn, consulting engineer, 5130 Arcade Bldg., Seattle. $25 deposit.
DC 4-18

■MILITARY BUILDINGS— Fort Greeley, Alaska
Planholders announced for the construction of civilian bachelor quarters, family quarters, and N C open mess at Fort Greely; ENG-95-507-56-41. Bids to be opened 11 a. m., P.S.T., April 24, by Corps of Engineers, Alaska District, Seattle Branch office, J. P. Byrne, manager, 4735 E. Marginal Way, Seattle. Plans and specifications with Seattle Branch office. Bid bond 20%.
Planholders: Solomon & Solomon, 2821 13th Ave. W., Seattle; Robinson-Roedell, 2115 N. 34th, Seattle; Burgess Construction Co., Box 652, Fairbanks; U. S. Flexible Metallic Tubing, 2425 6th Ave. S., Seattle; City Electric of Anchorage, 2921 13th Ave. S.W., Seattle; Schwabacher Hardware Co., 401 1st Ave. S., Seattle; General Electric Co., 303 W. Hudson, Seattle; Alaskan Plumbing Supply Co., Inc., 907 Arctic Bldg., Seattle; United Fabricators, 1440 W. 45th, Seattle; Ernst Hardware Co., 333 Westlake N., Seattle; R. M. Wade Co., 532 1st Ave. S., Seattle; Pacific Alaska Contractors, Inc., 2907 A St., Tacoma; Earl B. Stearns, Route 6, Box 943, Tacoma; Pacific Floors, 6550 Ravenna Ave., Seattle; G. W. Gustafson, 6415 Greenwood Ave., Seattle. GW 4-14. Previous report 3-21

●MILITARY BUILDINGS— Fort Greeley, Alaska
(Estimated cost $2,500,000)
Bid opening has been changed from April 24 to May 3 at 11 a. m., in the Seattle office of the Alaska District Corps of Engineers, 4735 E. Marginal Way, for construction of civilian bachelor quarters, family quarters and NC open mess at Fort Greeley; ENG-95-507-56-41. Plans with Seattle Branch office, 4735 E. Marginal Way, Seattle.
DM 4-18. Previous report 4-11

●FACILITIES— Homer, Alaska
Bids will be opened 11 a. m., A.S.T., May 10, by Corps of Engineers, Alaska District, Anchorage, for construction of White Alice Facility and TACAN Facility at Homer; Inv. No. ENG-95-507-56-50. Specifications with district engineer in Alaska; Officer-in-Charge, Seattle Branch Office, Alaska District, Corps of Engineers, 4735 E. Marginal Way, Seattle. Bid bond 20.%
White Alice Facility consists of tower foundations and erection, equipment building, water and sewer facilities, including pumphouse and well, area grading and access road. Completion date November 1. TACAN Facility consists of Type 3 Naval Building with road, parking area and turnaround. Completion date October 30.

▲HEATING SYSTEM— Ketchikan, Alaska
Bids received April 13 by Alaska Communication System, 4735 E. Marginal Way, Seattle, for modification and extension of the heating system, transmitter building, Ketchikan, Alaska; DA-45-041-sc-56-10. LOW BID: King Heating, Plumbing and Sheet Metal Shop, 1426 Tongass, Ketchikan, $3,267. ONLY OTHER BID: Hamilton Plumbing Co., 1016 Water, Ketchikan, $3,515.
GW 4-14. Previous report 3-1

ENGINEERING NEWS

Washington, Oregon, Idaho, Montana, Wyoming, Utah, Alaska

OREGON

●TANK PAINTING— Astoria, Ore.
Bids to be opened 2 p. m., P.S.T., April 27, by 13th Naval District, Bureau of Yards and Docks, Rear Admiral R. H. Meade, chief of bureau, room 100, Building 232, U. S. Naval Station Seattle; for cleaning, painting and provision for cathodic protection, main water tanks, at U. S. Naval Station, Tongue Point, Astoria, Ore. Plans obtainable from Public Works Office, U. S. Naval Station, Seattle. $25 deposit. Bid bond 20%.

- ● Bids Called
- ★ Contract Awards
- ▲ Low Bids—Bid Received
- ■ Planholders—Prospective Bidders

★STREET IMPROVEMENTS— Banks, Ore.
Award to Asphalt Paving Co. of Forest Grove, Cornelius, $4,132, by City Council, City Hall, Banks, for widening and improving Park St. Plans by H. A. Mohr & Associ-

ates, civil engineers, room 6, Peterson Bldg., Hillsboro. Bids were opened April 10.
WB 4-17. Previous report 3-28

■ **DIVERSION TUNNEL— Blue River, Ore.**

Planholders announced for construction of diversion tunnel at Cougar Reservoir dam site, South Fork McKenzie River near Blue River; CIVENG-35-026-56-178. Bids to be opened 2 p.m., P.S.T., May 4, by Corps of Engineers, 628 Pittock Block, Portland. Bid bond 20%.

Planholders: Southwest Welding & Manufacturing Co., 912 S. 10th St., P. O. Box 1128, Richmond, Calif.; Commercial Shearing & Stamping Co., P. O. Box 719, Youngstown, O.; Goslin Birmingham Manufacturing Co., Inc., 3521-10th Ave. N., Birmingham, Ala.; F. H. McEwen, 1673 Villard St., Eugene; U. S. Fidelity & Guaranty Co., Baltimore; John W. Stang Corp., 8221 Atlantic Ave., Bell, Calif.; W. H. Reller Co., Box 2149, Boise; Ideal Cement Co., 309 Lumbermens Bldg., Portland; Aetna Casualty & Surety Co., 300 Yeon Bldg., Portland; The Eimco Corp., 208 Hoge Bldg., Seattle; Guy F. Atkinson Co., 10 W. Orange Ave., South San Francisco; Harbert Bros., Estacada, Ore.; M & K Corp., 405 Montgomery St., San Francisco; The Shea Co., 2801 W. Mission Road, Alhambra, Calif.; Johnson Machine Works, Inc., Chariton, Iowa; Natt McDougall Co., 824 Pittock Block, Portland; Norman I. Fadel, P. O. Box 206, North Hollywood, Calif.; L. E. Dixon Co., 409 S. California St., San Gabriel, Calif.; Wooldridge Manufacturing Division, Continental Copper & Steel Industries, Inc., P. O. Box 127, Sunnyvale, Calif.; Lord Bros. Contractors, 9233 N. Calvert, Portland; A. J. Cheff Construction Co., 10054 West Marginal Way, Seattle; Morrison-Knudsen Co., Inc., 603 Hoge Bldg., Seattle; Lewis Hopkins Co., 221 S. 3rd St., Pasco; Consolidated Western Steel, 1729 Exchange Bldg., Seattle; Northern Enterprises, Inc., 12556 Bothell Way, Seattle; George Chicha Co., E. 2917 Sharp, Spokane; J. A. Jones Construction Co., 432 Medical Arts Bldg., Seattle; Carl M. Halvorson, P. O. Box 1449, Portland; Elte Construction Co., Boring, Ore.; Clyde W. Wood & Sons, Inc., P. O. Box 620, N. Hollywood, Calif.; Spence & Sullivan, Inc., 342 E. Carson St., Torrance, Calif.; Peter Kiewit Sons Co., 1024 Omaha National Bank Bldg., Omaha; Timber Structures, Inc., P. O. Box 3782; Fought & Co., Inc., P. O. Box 4297, Portland; Miller & Strong, Inc., Box 366, Eugene; Eugene Truck & Machine Co., 375 E. 5th, Eugene; Gates & Fox Co., 329 Primrose Road, Burlingame, Calif.; Kirk H. Fox, Route 2, Box 428, Grants Pass; Gibson & Roberts, Inc., P. O. Box 200, Yardley, Wash.; C. J. Eldon, P. O. Box 5686, Portland; Kuckenberg Construction Co., P. O. Box 7407, Parkrose Station, Portland; Schmitt Steel Co., Inc., 2765 N.W. Nicolai, Portland; Oregon Portland Cement Co., 111 S.E. Madison, Portland; Kemper Construction Co., 3701 Overland Ave., Los Angeles; A. A. Mathews, 117 E. Colorado St., Pasadena, Calif.; G. T. Tarlton Contracting Co., 5500 W. Park Ave., St. Louis, Mo.; Atlas Powder Co., 3485 Donald St., Eugene; Oregon Iron Works, 508 N. Tillamook St., Portland; Osberg Construction Co., 1132 N. 128th St., Seattle; Star Iron & Steel Co., 435 E. 11th, Tacoma; Atkinson Ostrander Co., P. O. Box 833, The Dalles; Peter Kiewit Sons Co., Box 531, Vancouver, Wash.; J. N. Conley, 4332 N.E. Royal Court, Portland.
WB 4-17. Previous report 4-10

■ **PUMPHOUSES— Celilo, Ore.**

Planholders announced for construction of pumphouses at Celilo, Ore.; CIVENG-35-026-56-173. Bids to be opened 2 p.m., April 26, by Corps of Engineers, Colonel Jackson Graham, district engineer, 628 Pittock Block, Portland. Bid bond 20%.

Planholders: Long Port Construction Co., 3607 S.W. Corbett Ave., Portland; Mid-State Construction Co., The Dalles; Tice Electric Co., 2139 S.E. Belmont St., Portland; Northwest Buildings, Inc., 14324 S.E. Stark St., Portland; Rose City Pre-Cut Buildings, Inc., 8836 N.E. Sandy Blvd., Portland; Hire Electric, P. O. Box 174, The Dalles; Plumbers Supply, 0618 S.W. Gibbs, Portland; Pacific Pumping, 526 N.W. Broadway, Portland; Ed G. Byrd, R.F.D. 1, Box 290, Prineville; William Wyatt, 74 S.E. 57th Ave., Portland; Tokheim Pump Agency, 616 N.E. 22nd Ave., Portland; Albina Pipe Bending Co., 225 N. Russell, Portland; Pettijohn Engineering Co., 4145 N.E. Cully Blvd., Portland; Merrell Steel Buildings, 2207 N.W. Front St., Portland; Marden & Hagist, 1705 N.W. 14th Ave., Portland; United Builders, P. O. Box 211, Beaverton; Wayne Construction Co., 3810 Stoneway, Seattle; Richard N. Miller, 905 N.W. 20th, Portland; Matthew Electric, P. O. Box 33, The Dalles; R. M. Wade & Co., 1919 N.W. Thurman St., Portland; Enoch I. Maerz, 3936 Hayesville Drive, Salem; Packard Pipe & Pump Co., 554-14th Ave., Longview; Adams Electric Co., 1800 S.E. Union, Portland; J. N. Conley, 4332 N.E. Royal Court, Portland; Johnston Pump Co., P. O. Bin K, Pasadena, Calif.; Pump, Pipe & Power, 265 N. Hancock, Portland; P. S. Lord Mechanical Contractors, 4507 S.E. Milwaukie Ave., Portland; Beall Pipe & Tank Corp., 12005 N. Burgard, Portland; Fairbanks Morse, 105 S.E. Taylor St., Portland; Allis Chalmers Manufacturing Co., 1215 Cascade Bldg., Portland; R. H. Blower, 5510 N.E. Stanton St., Portland; L. P. Sowles, 8755 S.W. White Pine Lane; Plan Bureau, 2413 Western Ave., Seattle; Consolidated Supply Co., P. O. Box 1771, Portland; Montgomery Electric, 2375 N.W. Thurman, Portland; Northern Steel & Supply Co., 567 A Northwest; Mann Construction Co., Redmond.
WB 4-17. Previous report 3-24

★**CRUSHED ROCK— Dallas, Ore.**

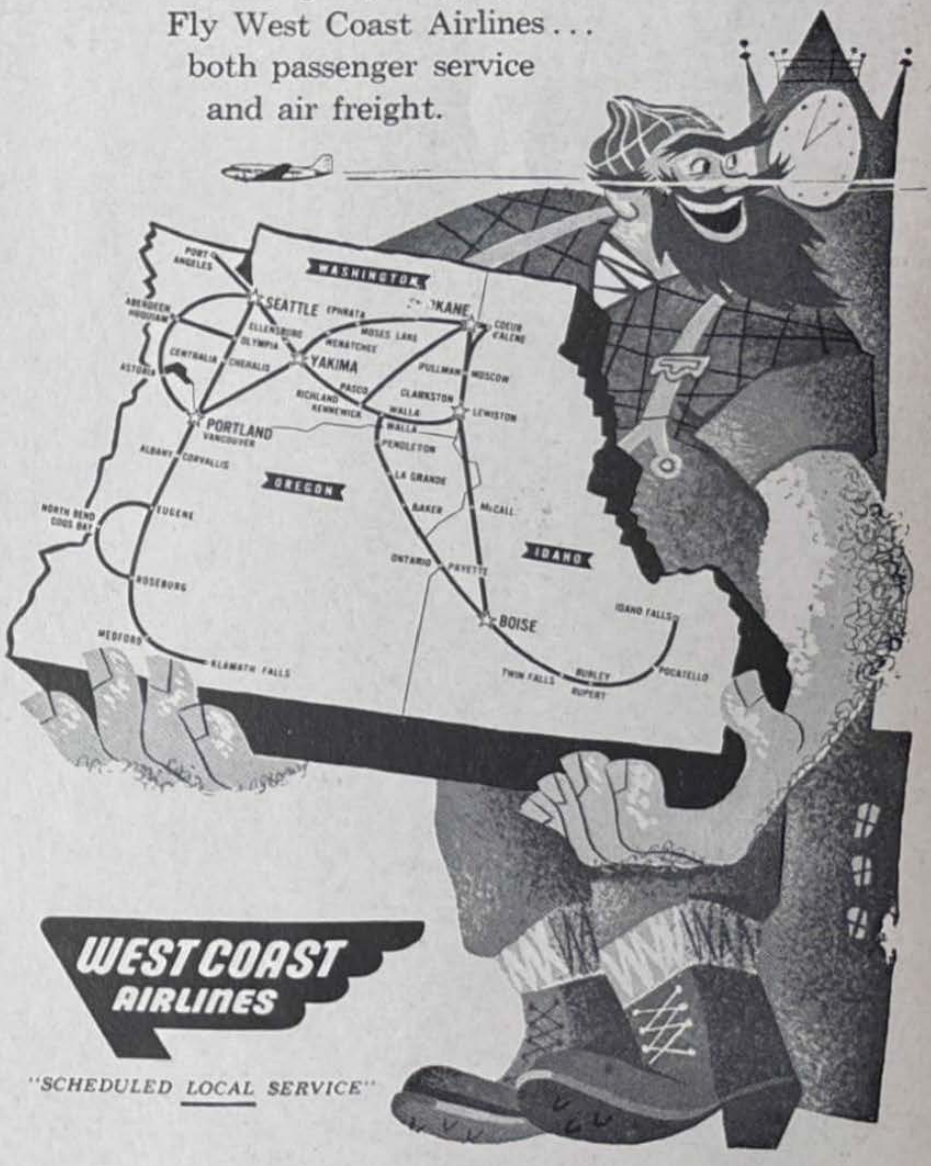
Award to Central Paving, Dallas, $38,850, by Polk County Court, C. M. Barnhart, county judge, for furnishing crushed rock or crushed gravel in stockpiles at the county shops in Dallas. SP 4-17. Previous report 4-12

● **PIPELINE ADDITION— Enterprise, Ore.**

Bids to be opened 10 a.m., May 10, by Oregon State Game Commission, P. W.

Cut hours of travel time to minutes...FLY WCA!

Serving Paul Bunyan's Empire. Fast, frequent service to 44 communities in Washington, Oregon, and Idaho. Fly West Coast Airlines... both passenger service and air freight.



WEST COAST AIRLINES

"SCHEDULED LOCAL SERVICE"

Schneider, director, 1634 S.W. Alder St., P. O. Box 4136, Portland, for pipeline addition and other work at Wallowa Hatchery, Enterprie, Ore. Plans with commission office. Includes pouring 4" slab in six 20'x50' ponds, installing three new piers, new intake blocks, and furnishing, installing 140' of 6" pipe. WB 4-18

▲ANTENNA POLES, RADAR PLATFORMS— Grants Pass, Ore.

Bids received April 11 by 13th Naval District, Bureau of Yards and Docks, Rear Admiral R. H. Meade, chief of bureau, room 100, Building 232, U. S. Naval Station, Seattle, for antenna poles and radar platform at U. S. Naval Reserve electronics facility, Grants Pass, Ore., Spec. No. 1929/56. LOW BIDS: Mattoon Co., 17950 S.W. River Road, Oswego, $1,752; Crowbridge & Plant Electric Co., Medford, $3,118; Wayne Construction Co., 3810 Stone Way, Seattle, $3,291. GW 4-13. Previous report 3-22

■ DIVERSION TUNNEL, DETOUR ROAD— Hills Creek Reservoir, Ore.

Planholders announced on construction of a diversion tunnel and Kitson Spring detour road, including a timber bridge, at Hills Creek Reservoir on the Middle Fork Willamette River, three miles southeast of Oakridge in Lane County; CIVENG-35-026-56-171. Bids to be opened 2 p.m., May 1, by Corps of Engineers, Portland District, Colonel Jackson Graham, district engineer, 628 Pittock Block, Portland.

Planholders: At Aitken, 1244½ Jackson, Denver; Atkinson-Ostrander Co., P. O. Box 833, The Dalles, Ore.; Alberts Logging Co., 500 N. 58th, Springfield, Ore.; Atlas Powder Co., 3485 Donald St., Eugene; The Arundel Corp., Pier 2, Pratt St., Baltimore; Aetna Casualty & Surety Co., 300 Yeon Bldg., Portland; Armco Drainage & Metal Products, 2321 S.E. Gladstone, Portland; J. Bacaloff Co., 6009 N.E. 60th Ave., Portland; Boyle Bros., 1321 S. Main, Salt Lake City; Blaw-Knox Equipment Division, P. O. Box 1198, Pittsburgh, Pa.; J. N. Conley, 4332 N.E. Royal Court, Portland; Colonial Construction, W. 615 Mansfield, Spokane; A. J. Cheff Construction Co., 10054 W. Marginal Way, Seattle; George Chicha Co., E. 2917 Sharp Ave., Spokane; Columbia Powder Co., 115 S.W. 4th Ave., Portland; G. D. Dennis & Sons, 7355 S.E. Johnson Creek Blvd., Portland; C. J. Eldon, P. O. Box 5686, Portland; Erland & Blickle, 8265 N. Borthwick, Portland; E-W Construction Co., 3170 W. 11th Ave., Eugene; Elmco Corp., 634-666 S. 4th West St., Salt Lake City; Elnco Corp., 208 Hoge Bldg., Seattle; Eugene Truck & Machine, 375 E. 5th, Eugene; Fought & Co., P. O. Box 4297, Portland; Gibson & Roberts, P. O. Box 200, Yardley, Wash.; Gates & Fox Co., 329 Primrose Road, Burlingame, Calif.; Goodman Manufacturing Co., 4834 S. Halsted St., Chicago; Gunderson Bros. Engineering Corp., 4700 N.W. Front Ave., Portland; Lewis Hopkins Co., 221 S. 3rd St., Pasco; Carl M. Halvorson, Inc., Box 1449, Portland; Intrusion-Prepakt, Inc., 300 12th Ave., Seattle; Vernie Jarl, Box 507, Gresham, Ore.; Kemper Construction Co., 3701 Overland Ave., Los Angeles; Peter Kiewit Sons' Co., Box 531, Vancouver; Peter Kiewit Sons' Co., 1024 Omaha National Bank Bldg., Omaha; Kuckenberg Construction Co., Box 7407, Koppers Co., Inc., 808 White-Henry-Stuart Bldg., Seattle; Lord Bros., 9233 N. Calvert St., Portland; A. A. Matthews, 117 E. Colorado St., Pasadena, Calif.; Morrison-Knudsen Co., Inc., 411 W. 5th St., Los Angeles; Morrison-Knudsen Co., 603 Hoge Bldg., Seattle; Miller & Strong, Inc., Box 366, Eugene; Natt McDougall Co., 824 Pittock Block, Portland; M. & K. Corp., 405 Montgomery St., San Francisco; Macco Corp., 14409 S. Paramount Blvd., Paramount, Calif.; Manu Mine Research & Development Co., P. O. Box 167, Reading, Pa.; F. H. McEwen, 1673 Villard, Eugene; Northwood, Inc., 1768 E. Hastings St., Vancouver, B. C.; Northern Enterprises, Inc., 12556 Bothell Way, Seattle; Oregon-Portland Cement Co., 111 S.E. Madison St., Portland; Osberg Construction Co., 1132 N. 128th St., Seattle; Oregon Iron Works, 508 N. Tillamook St., Portland; The Purdy Co., Harbor Way, South San Francisco, Calif.; Pacific Bridge Co., 256 Montgomery St., San Francisco; Posey Iron Works, Inc., Lancaster, Pa.; B. Perini & Sons, Inc., Framingham, Mass.; Poole, McGonigle & Dick, 6330 N.E. Halsey Co., Portland; The Shea Co., 2801 W. Mission Road, Alhambra, Calif.; Lawrence P. Sowles, 8725 S.W. White Pine Lane, Portland; Schmitt Steel, 2765 N.W. Nicolai, Portland; John W. Stang Corp., 2123 S. 56th St., Omaha, Neb.; G. L. Tarlton Contracting Co., 5500 W. Park Ave., St. Louis, Mo.; Timber Structures, Inc., P. O. Box 3782, Portland; United Builders, Inc., P. O. Box 211, Beaverton; U. S. Fidelity & Guaranty Co., Baltimore; D. W. Vories, 475 E. Clarendon St., Gladstone, Ore.; Valley Iron Works, 123 S. Front, Yakima. SP 4-14. Previous report 3-14

★STREET LIGHTING— La Grande, Ore.

Awards announced by City Council, F. C. McShane, recorder, City Hall, La Grande, for street lighting equipment and construction of a municipal street lighting system. AWARDS — EQUIPMENT: General Electric Supply Co., E. 1805 Trent Ave., Spokane, $24,516. INSTALLATION: John L. Nichols Construction Co., Box 336, Grandview, $12,538. SP 4-17. Previous report 4-3

WATER SYSTEM— Lyons, Ore.
(Estimated cost $110,00)

Bids will be called early in May by the Lyons Water District in Lyons, for construction of water system in the district. Plans with Cornell, Howland, Haye & Merryfield, engineers, 1600 Western Ave., Corvallis.

Quantities: 25,000, of 4", 6" and 8" welded steel pipe; fittings, valves, hydrants and services; pump station and reservoir foundation. SP 4-6. Previous report 3-22

● SEWERAGE FACILITIES— Myrtle Point, Ore.

Bids will be opened 8 p.m., April 23, by Ben Nichols, city manager, City Hall, Myrtle Point, for construction of sewerage facilities in Myrtle Point. Project includes trunk sewer and lateral system to serve the south end of city; pumping station; section of lateral sewers and small pumping station to serve Fairgrounds area. Bids for construction of sewer will be received until 5 p.m., and for pumping stations until 7:30 p.m., April 23. Specifications with R. H. Erichsen, consulting engineer, 409 4th Court, Coos Bay. $25 deposit.

Planholders—SEWER SYSTEM: Coos Bay Dredging Co., Coos Bay; E. & W. Construction Co., 3170 W. 11th, Eugene; P. S. Lord Construction Co., 4507 S.E. Milwaukie, Portland; Sig Andersson, 1371 Bayview, North Bend. PUMP STATIONS: P. S. Lord Construction Co., Portland; E & W Construction Co., Eugene; DenHerder, Box 307, Lebanon; Sig Andersson, North Bend; Don Thompson, 391 Newmark, North Bend.

Quantities for sewers: 13,320 c.y. trench excavation and backfill; 36' of 18", 4,640' of 15", 1,345' of 12", 15' of 10", 8,960' of 8", 3,600' of 6" concrete pipe; 119 8"x6" concrete pipe wyes; 135 of 6" ⅛ concrete pipe bends; 59 manholes; extra manhole depth, 72.3'. Alternate calls for cement-asbestos sewer pipe. Quantities for pumping stations: one 150-gallon and 250-gallon per minute pump at main station; two 75-gallon per minute pumps at small station at Fairgrounds area. SC 4-13

▲PUMPING PLANT— Nyssa, Ore.

Bids received by Bureau of Reclamation, Box 944, Boise, for rehabilitation of Ontario-Nyssa Pumping Plant, Owyee Project; Oregon-Idaho, near Nyssa; Spec. No. DC-4647. LOW BIDS: Utility Construction Co., Box 538, Ontario, Ore., $157,530; Jon Noy & Son Construction Co., 84 N.E. 3rd St., Ontario, $175,575; Vernon Bros. Co., Box 1787, Boise, Idoha, $214,432. Bids opened April 11. SP 4-13. Preivous report 3-2

CLEARING, ROAD CONSTRUCTION— Portland, Ore.

Bids will be opened 2 p.m., P.S.T., April 25, by Bonneville Power Administration, procurement officer, 1001 N.E. Lloyd Blvd., Portland, for clearing right-of-way and construction of access roads for the Alvey-Reston 230 KV transmission line, Drain Tap Point-Umpqua River Section, Lane and Douglas Counties, Ore.; Inv. No. 7958. Specifications in BPA office in Portland. $5 deposit. Bid bond 25%. Completion time 240 calendar days.

Project includes clearing right-of-way, construction of access roads to a 12-foot width plus ditches; installation of culverts on existing roads, access routes not requiring grading, road crossings; removal and disposal of existing bridge on Access Road AR-410 and replacing with new decking; removal and disposal of fencing and installation of new fencing on opposite side of access road AR-52-3. SP -13

★SUBSTATION ADDITIONS— Portland, Ore.

Award to Western Electrical Construction Co., 1639 N.W. Raleigh St., Portland, $54,688, by Bonneville Power Administration, L. C. Stewart, procurement officer, 1001 N.E. Lloyd Blvd., Portland, for construction of additions for Bank No. 2 and Shelton Line No. 3, Terminal at Olympia Substation, approximately two miles southwest of the town of Tumwater, Thurston County, Wash., Inv. No. 7924. WB 4-13. Previous report 3-28

★BOLTS, WASHERS— Portland, Ore.

Award to Bethlehem Pacific Coast Steel Corp., San Francisco, $1,605, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for tower bolts and filler washers, fob. Eavan Spur, Vancouver, Wash.; Inv. No. 7939. WB 4-13. Previous report 4-

★SWAMP ANCHORS— Portland, Ore.

Award to Utilities Service Co., Allentown, Pa., $3,222, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for swamp anchors fob. South Bend, Wash.; Inv. No. 7931. Bids opened April 5. WB 4-13. Previous report 3-2

★STEEL PIPE— Portland, Ore.

Award to Plumbers Supply Co., 0618 S.W. Gibbs St., Portland, $4,498, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for pipe and couplings, fob. Eavan Spur, Vancouver, Wash.; Inv. No. 7933. WB 4-13. Previous report 4-

▲VIBRATION DAMPERS— Portland, Ore.

Bids opened April 3 and held under advisement by Bonneville Power Administration, L. C. Stewart, procurement officer, 1001 N.E. Lloyd Blvd., Portland, for vibration dampers, fob. various destinations; Inv. No. 7932. LOW BIDS: Graybar Electric Co., 308 N.W. Flanders St., Portland, $3,555 (downward escalation); General Electric Supply Co., 300 N.W. 14th Ave., Portland, $3,555. WB 4-13. Previous report 3-2

★TRANSMISSION LINE— Portland, Ore.

Award to F. E. Wilder, Route 11, Box 147, Olympia, $146,450, by Bonneville Power Administration, L. C. Stewart, procurement officer, 1001 N.E. Lloyd Blvd., Portland, for construction of Olympia-Shelton No. 3, 230 kv. transmission line, Thurston and Mason counties, Wash.; Inv. No. 7922. WB 4-13. Previous report 4-

● CLEARING— Portland, Ore.

Bids will be opened 10 a.m., April 25, by Bureau of Public Roads, 753 Morgan Bldg., Portland, for 5.899 miles clearing, North Umpqua Highway, Umpqua National Forest, Douglas County, Oregon Forest Highway Project: 47-F. Specifications with BPR in Portland. Bid bond 5%. SP 4-

● SCHOOL IMPROVEMENTS— Portland, Ore.

Bids to be received 2:30 p.m., April 25, and opened 3:30 p.m., by Portland School District No. 1, L. J. Baker, business manager, 620 N.E. Halsey St., for school improvements. $15 deposit each project. Certified check or bid bond 10%. Construction of mowing strips at various schools; parking lot at Lane School; chain link fences at Fernwood School and Buckman School. WB 4-

▲TRANSMISSION LINE— Portland, Ore.

Bids opened April 12 by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for construction and clearing of the Alvey-Reston 230 kv. transmission line, Alvey-Drain Tap Point section, Lane County.

Ore.; Inv. No. 7936. LOW BIDS: Power Line Erectors, Inc., 2018 Waterworks, Spokane, $239,473; Sierra Electric Co., 1269 N. Russett St., Portland, $260,954; North Idaho Construction Co., Box 190, Coeur d'Alene, Idaho, and Pierce & Pierce, Toppenish, Wash., $263,764. WB 4-14. Previous report 3-30

▲TRANSMISSION LINE— Portland, Ore.

Bids received by Bonneville Power Administration, L. C. Stewart, procurement officer, 1001 N.E. Lloyd Blvd., Portland, for construction of schedules 1 and 3 of the Reston-Fairview 230 kv. transmission line No. 1, Coos and Douglas Counties, Ore.; Inv. No. 7930. LOW BIDS: North Idaho Construction Co., Coeur d'Alene, $155,638; Power Line Erectors, Inc., 2018 Waterworks, Spokane, Wash., $201,257; Wismer & Becker, Redding, and Kimball Construction Co., Box 772, Redding, Calif., $204,599 (joint bid). Bids opened April 13.
WB 4-17. Previous report 4-5

■RESERVOIR CLEANUP— Portland, Ore.

Planholders announced for debris cleanup at Lookout Point Rserevoir, Middle Fork Willamette River, Willamette River Basin in Ore.; CIVENG-35-026-56-193. Bids to be opened 2 p.m., P.S.T., April 24, by Corps of Engineers, Portland District, Colonel Jackson Graham, district engineer, 628 Pittock Block, Portland. Bid bond 20%.

Planholders: C. Vern White, Box 153, Lowell, Ore.; R. H. Blower, 5510 N.E. Stanton St., Portland; Wilber Peterson, Route 2, Box 435, Creswell; Pettijohn Engineering Co., 4145 N.E. Cully Blvd., Portland; Donald Kenney, Cheshire, Ore.; Violet Bros. Logging Co., 305 Jefferson Ave., Cottage Grove; O. R. Simmons, Box 423, Creswell; W. G. Humphrey, Lowell, Ore.; Ed Kenney, Route 1, Box 595, Toledo; J. Burgard, 2945 Mill St., Eugene; Frank A. Moody, 1485 Polk St., Eugene; George Eastham, 1358 W. 4th St., Eugene; J. G. Bradley, 775 Harlow Road, Eugene; Hanly Salvage Co., 3912 Pacific Way, Longview; Buchanan Excavating Co., Box 187, Junction City; John Kovtynovich, 395 Skyline Loop, Eugene; Mack Slate, Jr., 632 Washington St., Albany; Everett W. Jones, Star Route, Box 102, Oakridge; L. C. Daniel, 745 E. 20th, Eugene; Mid States Construction Co., P. O. Box 549, Chisholm, Minn.; Wade Labar, P. O. Box 7, Mountain Home, Ark.
WB 4-17. Previous report 4-10

★ASPHALT SPREADER— Portland, Ore.

Award to Cramer Machinery Co., 1005 S.E. Stark St., Portland, $1,300, by city purchasing agent, Gentry W. Yates, room 208, City Hall, Portland, for one asphalt spreader.
WB 4-17. Previous report 3-30

●STEEL POLES— Portland, Ore.

Bids to be opened 2 p.m., April 24, by city purchasing agent, Gentry W. Yates, city hall, Portland, for furnishing eight floodlight steel poles or steel towers for lighting the baseball field in Lent Park, S.E. 82nd Ave. and Holgate St. (readvertisement).
WB 4-17. Previous report 4-7

▲SUBSTATION ADDITIONS— Portland, Ore.

Bids opened April 13 by Bonneville Power Administration, L. C. Stewart, procurement officer, 1001 N.E. Lloyd Blvd., Portland, for construction of additions to Tillamook Substation, Tillamook County; Inv. No. 7949. LOW BIDS: Loftin & Robinson, Gresham, $47,000; Sierra Electric, 1269 N. Russett St., Portland, $49,120; Western Electrical Construction Co., 1639 N.W. Raleigh St., Portland, $49,165. WB 4-17. Previous report 4-5

●VIADUCT— Portland, Ore.

Bids to be received May 8 by Oregon State Board of Higher Education, University of Oregon Medical School, A. J. Clemons, superintendent of physical plant, room 117, Administration Building 3,181 S.W. Sam Jackson Park Road, Portland, for construction of a 275' reinforced concrete half viaduct on steel pilings at the medical school. Plans with superintendent, 3310 S.W. Veterans Road. $2 deposit. Certified check or bid bond 10%.

Includes 600 c.y. excavation; 1,300' of 10" BP 42 lb. steel piling; drive 36 steel piling; 265 c.y. class A concrete; 72,000 lb. metal reinforcement; 3,300 lbs. structural steel; 267' metal handrail; 60', 8" corrugated metal pipe. WB 4-17

●TRUCK BODY— Portland, Ore.

Bids to be opened 11 a.m., P.S.T., April 26, by U.S. Forest Service, Frank Walisch, regional supply officer, 729 N.E. Oregon St., room 18, Portland, for truck body, crew type, for 1½-ton chassis; Inv. No. 200. Specifications with supply officer. WB 4-18

★POWER CIRCUIT BREAKERS— Portland, Ore.

Award to General Electric Corp., Public Service Bldg., Portland, $44,876, by Bonneville Power Administration, L. C. Stewart, procurement officer, 1001 N.E. Lloyd Blvd., Portland, for two power circuit breakers fob. The Dalles, Ore.; Inv. No. 7916.
WB 4-18. Previous report 3-22

★STATE HIGHWAY PROJECT— Portland, Ore.

Award announced by Oregon State Highway Commission for highway construction on which bids were opened March 2.

ORGEON COAST HIGHWAY — Grading and oiling 0.56 mile Davis Creek - Bethel Creek section of Oregon Coast Highway about 10 miles south of Bandon, Coos County, a state project. AWARD: Q. L. Rufener, Inc., 4729 S.E. Ash St., Portland, $40,240.
SP 4-18. Previous report 3-6

●SITE PREPARATION—Port Orford, Ore.

Bids to be opened 8 p.m., April 30, by School District No. 1J, Curry County, Mrs. Helen Clocum, clerk, Port Orford High School, Port Orford, Ore., for rough grading of site for new high school. Plans with Freeman, Hayslip, Tuft & Hewlett, architects, 2040 S.W. 3rd Ave., Portland. $10 deposit. Certified check, cashier's check or bid bond 5%.

Bid call for school to be issued in about 60 days. WB 4-17

●REVETMENT REPAIR—Springfield, Ore.

Bids will be opened 2 p.m., P.S.T., April 23, by Corps of Engineers, Portland District Engineer, 628 Pittock Block, Portland, for clearing and repair of revetment at Conley Place along the left bank of McKenzie River approximately two miles north of Springfield, Lane County; CIVENG-35-026-56-183. Specifications with above office. Bid bond 20%. Completion time 45 calendar days.
SP 4-14

WASHINGTON

★CONCRETE GRAVITY DAM— Aberdeen, Wash.

Award to Manson Construction Co., 5209 E. Marginal Way, Seattle, $305,295 (total bid), less dike), by City Council, Victor Lindberg, comptroller, City Hall, Aberdeen, for the construction of a concrete gravity dam across the Wynooche River and reconstruction of the existing intake. Plans by John W. Cunningham, consulting engineer, 1112 Portland Trust Bldg., Portland.
WB 4-17. Previous report 4-12

●POWER MOWER— Anacortes, Wash.

Bids will be opened 7:30 p.m., May 1, by City Council, Frank Kimsey, Jr., city clerk, City Hall, Anacortes, for one Triplex power mower, 70" cut, powered with air cooled motor, forward and reverse gears, brakes, lock tractor rolls, flexible side cutters for elevation; equipped with sulkey fittings.
JD 4-18

●ROAD IMPROVEMENT— Bellingham, Wash.

Bids will be opened 8 p.m., April 24, by Port of Bellingham, Walter S. Dailey, manager, Port Offices, Port Dock, Bellingham, for road improvements in Bellingham. Specifications with above office. Bids rejected April 10 because low bidder failed to submit performance bond with bid.

Project includes construction of road bed and paving from Fisherman's Way to Webhouse No. 4, on west side of Webhouse No. 3.
JD 4-17. Previous report 4-6

★DUMP TRUCK— Bellingham, Wash.

Award to Diehl Motor Co., Cornwall and Champion Streets, Bellingham, $2,896, by Bellingham City Council, Alfred B. Loop, comptroller, City Hall, Bellingham, for purchase of one new 1956 1½-ton dump truck and trade-in of one 1936 GMC 1½-ton dump truck. JD 4-18. Previous report 3-29

●SANITARY SEWER, PUMP— Bellingham, Wash.

Bids to be opened 7:30 p.m., April 23, by Bellingham School District No. 501, Roeder School, Bellingham, for the construction of a sanitary sewer and pump at Northwest Ave. from E. Maplewood. Plans with city engineer, City Hall, Bellingham. $5 deposit. Certified check, cashier's check or bid bond 5%. DC 4-18

★TANK PAINTING— Bremerton, Wash.

Award to A. G. Hebb, 510 Sheldon Blvd., Bremerton, $8,532, by Department of Navy, U.S. Naval Base, Bremerton, for painting interior of tank No. 35, Puget Sound Naval Shipyard, Bremerton; NBy 1964; Spec. No. 1964-56. Bids opened April 5.
SP 4-13. Previous report 3-28

●SEWER SYSTEM— Bremerton, Wash.

Bids to be opened 2 p.m., P.S.T., May 10, by 13th Naval District, Bureau of Yards and Docks, Rear Admiral R. H. Meade, chief of burea, room 100, Bldg. 232, U.S. Naval Station, Seattle, for interceptor sewer system, at Puget Sound Naval Shipyard, Bremerton; NOy90545; Spec. No. 49224. Specifications with Navy Department, Seattle. $100 deposit. Bid bond 20%. Work involves sewage pumping stations, pressure sewers, gravity sewer, connections to existing facilities.
GW 4-13

●ROAD IMPROVEMENTS— Davenport, Wash.

Bids will be opened 10 a.m., May 8, by Board of Lincoln County Commissioners, Charles A. Ramm, clerk, County Court House, Davenport, for construction of surface treatment and non-skid single seal on Lincoln County roads; CRP G-425. Specifications with Lincoln County Engineer, Davenport; specifications may be inspected at the office of the Association of General Contractors of America, Spokane, Wash. $2 deposit. Bid bond 5%.

Project includes construction of a light bituminous surface treatment, Method A, on 35.7 miles, and construction of a non-skid single seal Schedule C on 1.8 miles of Lincoln County Roads. Quantities: 2,600 c.y. sand filler; 35.7 miles preparation, construction, and finishing; 1,117 tons asphalt cement MC3, 9,340 c.y. crushed cover stone.
SC 4-14

SEWAGE TREATMENT PLANT— Dayton, Wash.

Working drawings nearly complete by Gray & Osborne, engineers, 228 2nd St., Yakima, for construction of a reinforced concrete tank and connecting piping at sewage treatment plant for City of Dayton, H. M. Willsandt, mayor, City Hall, Dayton.
IG 4-18

●SEWER, WATER LINES, PIPE— Edmonds, Wash.

Bids to be opened 8 p.m., May 1, by City Council, City Hall, Edmonds, for sewer and water lines and supplies. Specifications with James H. Reid & Associates, consulting engineers, 420 Bell St., Edmonds. $20 deposit. Certified check, cashier's check or bid bond 5%.

Bids will be received for 1—installation of 4,400' of 10" and 8" sanitary sewer and appurtenances, 2,200' of 4" and 6" cast iron water line and appurtenances, and 2,900' of graveled roadway; 2—furnishing 2,700' of 6" cast iron waer pipe, 20 fire hydrants, miscellaneous valves and fittings. DC 4-17

★PUMPING PLANT— Ephrata, Wash.

Award to Big Bend, Inc., 712 Randolph Place, Seattle, $361,744, by Bureau of Reclamation, P. R. Nalder, project manager, Box 368, Ephrata, for construction of Evergreen pumping plant, Block 77, Columbia Basin Project, near Quincy, Wash.; Spec. No. DC-4630. SP 4-13. Previous report 3-8

★EARTHWORK— Ephrata, Wash.

Award to West Coast Construction Co., Inc., 835 W. 48th, Seattle, $484,347, by Bureau of Reclamation, P. R. Nalder, project manager, Box 368, Ephrata, for earthwork and structures for Royal Branch Canal, Station 1+17 to Station 451+58, Wasteway and laterals, Columbia Basin Project, near Othello, Wash.; Spec. No. DC-4607.
SP 4-13. Previous report 2-29

★STRUCTURES, WASTEWAYS— Ephrata, Wash.

Award to Harold T. Mast, Moses Lake, $6,593, by Bureau of Reclamation, P. R. Nalder, project manager, Box 368, Ephrata, for construction and alteration of structures and wasteways EL29ZC and EL29ZCCWW, Block 42, and EL61 and EL61WW, Block 44, about two miles north and 11 miles west of Warden, Wash.; Spec. No. 117C-364.
SP 4-13. Previous report 3-22

★DRAINAGE OBSERVATION WELLS— Ephrata, Wash.

Award to Henry Bach, 5411 Terrace Drive, Yakima, $5,995, by Bureau of Reclamation, P. R. Nalder, project manager, Box 368, Ephrata, for drainage observation wells, Blocks 89, 421, 44, 47, 18 and 14 in Grant, Adams and Franklin Counties, Wash.; Spec. No. 117C-365. SP 4-13. Previous report 3-27

●STEEL BARS— Ephrata, Wash.

Bids to be opened 2 p. m., May 3, by Bureau of Reclamation, Box 368, Ephrata, for the purchase and removal of an estimated 138 ton of reinforcing steel bars from ½" to 1¼", round and square, various lengths and grades, all located at Coulee Dam, Wash. A Columbia River Basin Project. Papers and information with G. M. Plymale at above address. DM 4-14

●SURFACING, STOCKPILING— Ephrata, Wash.

Bids to be opened 10 a. m., P.S.T., May 1, by Bureau of Reclamation, Division and C St. N.W., Ephrata, for gravel surfacing on operating roads and stockpiling gravel at Block 87, Columbia Basin Project, 10 to 20 mile north and west of Othello, Grant and Adams counties, Wash.; Spec. No. 117C-374. Specifications with P. R. Nalder, project manager, Box 368, Ephrata.

Principal items: 17 mile preparing subgrade for operating roads, 17 mile furnishing, placing 9,300 c.y. gravel surfacing for operating roads, stockpiling at six sites.
DM 4-18

●TRAILER COACH— Hoodsport, Wash.

Bids to be opened 11 a. m., P.S.T., May 3, by U. S. Forest Service, Frank Walisch, regional supply officer, 729 N.E. Oregon St., room 18, Portland, for trailer coach fob. Hoodsport, Wash.; Inv. No. 201. Specifications with supply officer. WB 4-18

▲HYDRAULIC TURBINES— Ice Harbor Dam, Wash.

Bids received by Corps of Engineers, Walla Walla, for three, 143,000 hp. hydraulic turbines for Ice Harbor Dam site located on Snake River about 10 miles upstream from the confluence of Columbia and Snake Rivers at government siding at Ash, Wash.; CIVENG-45-164-56-50. LOW BIDS: S. Morgan Smith Co., York, Pa., $4,258,430; Baldwin-Lima-Hamilton, $4,568,165; Allis-Chalmers Manufacturing Co., $4,784,160. Bids opened April 12.
DC 4-14. Previous report 3-21

STREET, DRAINAGE IMPROVEMENTS— Kelso, Wash.

(Estimated cost $37,000)

Local improvement district in 12-block area formed by City Council, City Hall, Kelso, for street and drainage improvements in an area bounded by 3rd and 9th Avenues and Columbia St. and Cowlitz Way in Kelso.
SC 4-18

★BRIDGE SUPERSTRUCTURE— Kennewick, Wash.

Award to Verlon Garvin, 817 S. Fruitland, Kennewick, $5,891, by City Council, William E. Hansen, city manager, City Hall, Kennewick, for construction of the superstructure for West First Avenue Extension Bridge over the Columbia Irrigation District Canal. Award negotiated on precast concrete alternate with lowest bidder.
SP 4-13. Previous report 4-6

★PUMPERS, EQUIPMENT— Kennydale, Wash.

Awards announced by King County Fire District No. 25, Royal C. Loomis, secretary, Box 129, Kennydale, for two, 500-gallon per min. triple combination pumpers; one 750-gallon per min. triple combination pumper; 50 fire hydrants, genuine Corey or equivalent. AWARDS—PUMPERS: Howard Cooper Corp., 5055 4th St., $33,207. HYDRANTS: Pacific Waterworks Supply Co., 2900 1st Ave. S., $6,780. Both of Seattle.
SP 4-18. Previous report 4-14

●SEWERAGE SYSTEM—Long Beach, Wash.

Bids to be opened 8 p. m., April 30, (readvertisement) by Town Council, Florence L. Rine, clerk, Town Hall, Long Beach, for construction of sewers and sewage plant. Plans with N. W. Haner & Associates, consulting engineers, 220 S.W. Alder St., Portland. $35 deposit, or $30 for Schedule 1; $5 Schedule 2, and $10 Schedule 3. Certified check, cashier's check or bid bond 5%.

Schedule 1, Pipiline; Schedule 2, Lift and Pumping Stations; Schedule 3, Sewage treatment facilities, including lagoon, frame laboratory and chlorinator building. Plans have been revised to reduce size of lagoon and raise elevation of bottom; modifications in lift and pumping stations design and in sewer line. Pumping equipment to operate at site until bid opening date.
WB 4-17. Previous report 4-4

★SUBSTATION— McChord AFB, Wash.

Award to Electric Construction Co., 1605 Center St., Tacoma, $5,088, by Department of Air Force, purchasing and contracting officer, McChord AFB, for installation of a 300 kva., 13.8 kv. 120/208 substation at McChord AFB; Inv. No. 45-603-56-49. Bids opened April 4. Sp 4-17. Previous report 3-22

▲STONE REVETMENTS— McNary Dam Reservoir, Wash.

Bids received April 17 by Corps of Engineers, Walla Walla District, Colonel Myron E. Page, Jr., district engineer, Bldg 602, City-County Airport, Walla, Walla, for repair of stone revetments along shore McNary Dam Reservoir, Columbia and Snake Rivers, Ore. and Wash.; CIVENG-45-164-56-55. LOW BID: Manson-Osberg Co., 1132 N. 128th, Seattle, $1,241,025. ONLY OTHER BID: General Construction Co., 3840 Iowa St., Seattle $1,390,415. Government estimate $778,091.
GW 4-18. Previous report 3-20

■SEWAGE TREATMENT PLANT— Medical Lake, Wash.

Planholders announced for construction of a sewage treatment plant for the hospital at Medical Lake. Bids will be opened April 26 by John G. Firmin, supervising engineer, department of institutions at Eastern State Hospital, Medical Lake. Specifications with Walter L. Woodward, consulting engineer, Empire State Bldg., Spokane.

Planholders: Max J. Kuney Co., N. 120 Ralph St.; Ruud Construction Co., 305 Realty Bldg.; Henry George & Sons, 417-419 Hutton Bldg.; S. G. Morin & Sons, W. 411 2nd Ave.; Sceva Construction Co., N. 2928 Madelia St.; G. R. Leischner Construction Co., 1201 W. 92nd St., Seattle; Dick Roberts Plumbing & Heating Co., N. 1418 Division St.; Rainier Mechanical Contractors, 2702 E. 112th, Tacoma. All planholders of Spokane unless otherwise noted.
CE 4-14. Previous report 4-6

●GRADING, SURFACING— Mesa, Wash.

Bids will be opened April 24, by Bureau of Reclamation, P. R. Nalder, project manager, Division and C Street N.W., Ephrata for grading and surfacing roads in Franklin County, five miles southwest of Mesa; Spec. No. 117C-373. Specifications with project manager, Box 368, Ephrata. Bid bond 10%.

Project includes preparing subgrade for operating roads for 6 miles; furnishing and placing gravel surfacing for operating roads for 6 miles.
SP 4-18

INSTALLATION WATER DISTRIBUTION SYSTEM PIPE— Montesano, Wash.

Additional description on installation of the water pipe for the distribution system in Montesano. Bids to be opened 8 p. m., April 24, by City Council, Bertha Satterstrom, city clerk, City Hall, Montesano. Plans with Howard T. Harstad & Associates, consulting engineers, 1000 Lenora, Seattle. $15 deposit. Certified check, cashier's check or bid bond 5%.

Install 1,500' of 12" cast iron mechanical joint; 29,500' of 10" to 4" asbestos-cement pipe; fittings and appurtenances. Pipe only to be furnished by city.
GW 4-14. Previous report 3-28

★WATER PIPE— Montesano, Wash.

Awards by City Council, Bertha Satterstrom, city clerk, City Hall, Montesano, for furnishing waterworks materials. Plans by Howard T. Harstad & Associates, consulting engineers, 1000 Lenora, Seattle. AWARDS: H. D. Fowler Co., 901 Lane, Seattle, $5,960 (10" asbestos-cement) $25,080 (8"); $25,600 (6"); $680 (4"); U. S. Pipe and Foundry, Colman Bldg., Seattle, $6,307 (12"). Bids were opened and held under advisement April 16.
GW 4-17. Previous report 3-28

●ANTENNA SUPPORT AND PLATFORM— Naselle AFB., Wash.

Bids to be opened 1:30 p. m., May 2, by Department of Air Force, Purchasing and Contracting, Captain P. C. Hisken, Jr., contracting officer, McChord AFB., Wash., for erecting an antenna support tower and platform at Naselle AFB., Wash.; INV No. NR-45-603-56-50.
GW 4-18

★REVETMENT REPAIR, EXTENSION— Neah Bay, Wash.

Award to Strong and Macdonald, 4045 Ruston Way, Tacoma, $112,160, by Corps of Engineers, Seattle District, Colonel N. A. Matthias, district engineer, 4735 E. Marginal Way, Seattle, for revetment repair and extension at Neah Bay, Wash.; CIVENG-45-108-56-43. GW 4-13. Previous report 4-4

★STATE HIGHWAY PROJECTS— Olympia, Wash.

Awards announced by Washington State Highway Commission, W. A. Bugge, director, Transportation Bldg., Olympia, for highway construction. Bids opened April 10.

BEAR RIVER TO GREENHEAD SLOUGH—Clearing, draining, grading, surfacing, paving with type I-1 asphaltic concrete, stockpiling crushed materials, constructing reinforced concrete flat slab bridge on 1.519 mile PSH No. 12, Pacific County; FAP No. F-003-1(3).

Project held for consideration.

LOW BIDS: N. Fiorito Co., 844 W. 48th, Seattle, $424,818; Strong & Macdonald, Tacoma, $429,091; J. N. Conley, 4332 N.E. Royal Court, Portland, $430,218.

EASTON TO CLE ELUM—Grading, surfacing with light bituminous surface treatment, construction cement treated base, paving with type I-1 asphaltic concrete on 10.205 mile PSH No. 2, Kittitas County; FAP No. FI-002-2(5) and State Project.

AWARD: Washington Asphalt Co., 309 W. 39th, Seattle, $199,799.

SIMMS CORNER SOUTH—Clearing, draining, grading, surfacing with light bituminous surface treatment on 2.416 mile PSH No. 10, Douglas County; FAS No. S-0438(4).

AWARD: J. W. Hardison, Box 48, Yardley, $101,679.

CHEHALIS RIVER BRIDGE REMOVAL—Removing portions of existing steel girder bridge on PSH No. 13, Grays Harbor County; FAP No. U-006-1(8).

AWARD: Don L. Cooney, Inc., 300 Spokane, Seattle, $91,976.

JCT. PSH No. 6 TO SACHEEN LAKE—

Resurfacing with selected roadway borrow and crushed stone and constructing light bituminous surface treatment on 5.53 mile SSH No. 6-B, Pend Oreille County; state project.

AWARD: Materne Bros., Box 1052, Parkwater Station, Spokane, $98,037.

TUMWATER CANYON UNDERCROSSING APPROACHES—Clearing, draining, grading, surfacing and paving with type I-1 asphaltic concrete on PSH No. 9 and a county road, Clallam County; a state project.

AWARD: Consolidated Construction Co., 924 Capitol Way, Olympia, $66,711.

NEWAUKUM RIVER TO CHEHALIS, ET AL—Clearing, draining, grading, surfacing and paving with type I-1 asphaltic concrete on 1.409 mile State Highways Nos. 1 (old route) and 12-E, Lewis County; a state project.

AWARD: Pacific Sand and Gravel Co., Box 628, Centralia, $38,551.

LACROSSE VICINITY — Stockpiling crushed stone surfacing, maintenance rock, sand and mineral aggregates on SSH No. 11-B, Whitman County; a state project.

AWARD: L. F. Konen Construction Co., 1048 11th, Lewiston, Idaho, $23,180.

DE 4-14. Previous report 4-11

▲STATE HIGHWAY PROJECTS— Olympia, Wash.

Bids received April 17 by Washington State Highway Commission, Olympia, for highway construction.

MAPLE STREET BRIDGE—Substructure and superstructure of the Maple Street Bridge across the Spokane River in Spokane. Project involves the following: SUBSTRUCTURE—20 reinforced concrete bridge piers and abutments; alternate A which will provide for use of steel H piles for pile footings, and alternate B which will provide for cast-in-place concrete piles for pile footings. SUPERSTRUCTURE: 1,713' steel plate girder deck spans; 377' of welded steel beam deck spans.

Following are low combinations on the substructure and superstructure. LOW—SUBSTRUCTURE: Morrison Knudsen Co., Inc., Hoge Bldg., Seattle, $674,552. SUPERSTRUCTURE: U. S. Steel Corp., 309 S.W. 6th, Portland, $1,596,152. 2ND LOW—SUB: Paul Jarvis, Prosser, $687,562. SUPER: Judson-Pacific-Murphy Corp., Box 355, Post Office Annex, Oakland, Calif., $1,637,452. 3RD LOW—SUB: Green Construction Co., Securities Bldg., Seattle, $766,227. SUPER: M. P. Butler, 3419 13th S.W., Seattle, $1,666,464. Following are the low bids including both sub and superstructure. LOW: Peter Kiewit Sons' Co., Box 531, Vancouver, $2,420,306; Montag-Halvorson-Austin, Box 4, The Dalles, Ore., $2,425,099.

NORTH BEND TO TANNER — Clearing, draining, grading, surfacing, constructing cement treated base, paving with type I-1 asphaltic concrete, installing an illumination system on 3.654 mile PSH No. 2, King County; FAP No. BIN-002-1(10).

LOW BIDS: Thomas Scalzo Co., 3211 Airport Way, Seattle, $352,616; N. Fiorito Co., 844 W. 48th, Seattle, $358,602; Northwest Construction Co., 3950 6th N.W., Seattle, $359,743.

GRASS CREEK AND CHENOIS CREEK BRIDGES, APPROACHES—Clearing, draining, grading, surfacing, constructing type F bituminous plantmix, two reinforced concrete flat slab bridges on 0.565 mile SSH No. 9-C, Grays Harbor County; FAS No. S-0335(7).

LOW BIDS: Quigg Bros. and McDonald, Inc., 1500 Riverside, Hoquiam, $239,205; Grays Harbor Construction Co., 412 S. Park, Aberdeen, $241,094; N. Fiorito Co., Seattle, $251,652.

COULEE CITY WEST, JUNCTION PSH No. 18 TO LARSON AIR BASE—Surfacing with light bituminous surface treatment and paving with type I-1 asphaltic concrete on 10.141 mile State Highway Nos. 2 and 11-G, Douglas and Grant counties; FAP No. F-028-2(4) and F-045-2(6).

LOW BIDS: McAtee & Heathe, Inc., Box 4187, Station B, Spokane, $164,448; L. W. Vail, Box 847, Pasco, $165,465; Mac J. Kuney, N. 120 Rowe, Spokane, $165,605.

WAUCONDA STORE WESTERLY—Draining, grading, surfacing with light bituminous surface treatment on 8.523 mile PSH No. 4, Okanogan County; FAP No. F-035-2(2).

ONLY BIDS: Goodfellow Bros., Inc., Box 1337, Wenatchee, $153,122; Murphy Bros., Inc., E. 3728 Broadway, Spokane, $173,865.

MILBURN CREEK BRIDGE No. 9/408—Reinforced concrete flat slab bridge on 0.021 mile of PSH No. 9, Grays Harbor County; FAP No. F-007-2(3).

LOW BIDS: Wilson & Simpson, Box 1070, Port Angeles, $34,836; Roger E. Holmes, Route 10, Box 493, Olympia, $37,171; Grays Harbor Construction Co., Aberdeen, $39,073.

MORRISON ROAD — Draining, grading, surfacing with light bituminous surface treatment on 14.031 mile Grant County road; FAS No. S-1217(1).

LOW BIDS: C. J. Painter, 947 W. Court, Pasco, $192,314; Frank G. Baulne, Box 84, Yardley, $232,517; Ray Weist, Box 191, Yakiha, $233,729.

CAMP MASON TO UPPER CROSSING SNOQUALMIE RIVER—Surfacing and paving with type I-1 asphaltic concrete on 4.886 mile PSH No. 2, King County; a state project.

LOW BIDS: Washington Asphalt Co., 309 W. 39th, Seattle, $163,217; Acme Construction Co., Redmond, $163,843; Asphalt Paving and Engineering Co., Box 356, Tacoma, $175,336.

CHEWELAH NORTH—Draining, grading, surfacing with light bituminous surface treatment on 1.184 mile PSH No. 3, Stevens County; a state project.

ONLY BID: Carl Hohner, W. 730 Chelan, Spokane, $29,374.

EVANS, BARSTOW, CHINA BEND VICINITIES—Stockpiling crushed stone surfacing, maintenance rock, mineral aggregates and sand on PSH Nos. 3 and 22, Ferry and Stevens counties; a state project.

ONLY BID: J. Arlie Bryant, Hutton Bldg., Spokane, $94,000.

DE 4-18. Previous report 4-12

●DRAINS— Othello, Wash.

Bids received by Bureau of Reclamation, P. R. Nalder, project manager, Box 368, Ephrata, for construction of DPE224A drains, Block 11, in Franklin County, approximately 9 miles southeast of Othello; Spec. No. 117C-367. LOW BIDS: Twin City Construction Co., 404 N. 7th St., Pasco, $18,433; Anderson & Herman, R.F.D. No. 3, Walla Walla, $21,794; Lester N. Johnson Co., N. 1318 Fancher Road, Yardley, $23,875. Bids opened April 3.

SP 4-14. Previous report 3-14

★STREETS, CURBS, GUTTERS— Othello, Wash.

Awards to George V. Nolte Co., Box 1446, Moses Lake, $138,573 (Schedule 1) and Central Paving Co., Box 127, Independence, Ore., $330,970 (schedule 2), by Town Council, Town Hall, Othello, for asphaltic concrete paving, curbs, gutters, storm drains for Othello.

IG 4-14. Previous report 4-7

★FENCING SUPPLIES—Port Angeles, Wash.

Award to Colorado Fuel and Iron, 3434 2nd Ave., Seattle, $2,521, by G. S. Vergeer, city manager, 140 W. Front St., Port Angeles, on furnishing the cemetery department 650' of 6' chain link fencing and the park department with 250' of 5' fence. Bids opened April 2,.

SP 4-13. Previous report 3-17

▲CLEARING, GRUBBING, SURFACING— Port Townsend, Wash.

Bid received by Jefferson County Commissioners, Helen J. Eads, clerk, Courthouse, Port Townsend, for clearing, grubbing, surfacing and draining .89 mi. of Jefferson County Road, No. 28. ONLY BIDDER: J. P. Surace Construction Co., 3238 Seaview Ave., Seattle, $33,788. Bids opened April 16.

SP 4-18. Previous report 4-7

★WATER PIPE— Prosser, Wash.

Award to United States Pipe and Foundry, Colman Bldg., Seattle, $1.975 per ft. on pipe, $31.15 each on tees, by City Council, City Building, Prosser.

DM 4-18. Previous report 4-17

★RELOCATION OF SAND TRAPS— Richland, Wash.

Award to Cecil C. Hill, Kennewick, $4,712, by Atomic Energy Commission, J. I. Thomas, chief engineer, engineering and supply division, Building 703, Richland, for relocation of sand traps on water supply mains at Hanford Works. Bids opened April 2.

SP 4-17. Previous report 3-24

●SEWER— Richland, Wash.

Bids will be opened 2 p. m., May 15, by Atomic Energy Commission, Engineering and Supply Division, Richland, for construction of an effluent line, sewer outfall and raw water line at two plant areaes inside the Hanford barricades. Specifications with above office. Completion time 110 calendar days.

Quantities: 600' of 60" steel pipe; 70' of 72" extra strength reinforced concrete pipe; 130' concrete flume; 60 s.y. riprap. Raw water line: 2,200' of 42" steel pipe; 170' of 48" galvanized corrugated metal pipe; smaller pipe, fittings and concrete. All 42" and 60" steel pipe will be furnished by Atomic Energy Commission.

SP 4-17

●SUBSTATION— Seattle, Wash.

Bids to be opened 2 p. m., May 2, by Board of Public Works, E. G. Henry, secretary, room 512, County-City Bldg., Seattle, for City Light 1956 extensions for Shoreline substation, also site preparation for distribution substations and incidental work on existing substations. Plans with City Light, Engineering Division, H. G. Silliman, chief electrical engineer, 4th Floor, Galland Bldg., 1217 2nd Ave., Seattle.

GW 4-13

▲YARD ENLARGEMENT— Seattle, Wash.

Bids received April 11 by Board of Public Works, E. G. Henry, secretary, room 512 County-City Bldg., Seattle, for enlargement of the yard areas at the south warehouse and sub-station on 4th Ave. and Spokane St., Seattle; Ord. No. 84609; Spec. No. 1422. LOW

Classified Advertising

★

CLASSIFIED RATES

Regular Classified: $6 per column inch.

Classified Display: (Based upon number of insertions during any 12 month period.)

	1 time	6 times	12 times
Per Column Inch:	$9.00	$8.00	$7.00

FOR SALE

Will consider any reasonable offer

1—A-C Motor Grader, 1948 AD4, good condition.

1—1947 Insley Backhoe, ½-yd. on crawlers, Cummins Diesel engine.

3—Tournapulls, 1950 Mod. B, w/ E 35 ton scrapers.

JAMES S. TRUMMEL

Box 221 Heyburn, Idaho

FOR SALE

WASHED SAND, GRAVEL AND CRUSHED STONE BUSINESS IN OPERATION FOR PAST 15 YEARS IN EXCELLENT LOCATION. All equipment and land free and clear.

WRITE 3201 LINCOLN AVENUE YAKIMA, WASHINGTON

POSITION WANTED

A position requiring thorough knowledge of lumber, sash, doors and millwork, plus a fair knowledge of frame and block construction, electrical and plumbing.

Box D-25, Pacific Builder & Engineer 2418 3rd Ave., Seattle 1, Washington

BID: L. L. Newburn Construction Co., 6262 14th Ave. S., Seattle, $25,950.
GW 4-13. Previous report 4-5

● **DOLPHINS—** **Seattle, Wash.**

Bids to be opened 2 p. m., P.S.T., April 25, by Corps of Engineers, Seattle District, Colonel N. A. Matthias, district engineer, 4735 E. Marignal Way, Seattle, for construction of dolphins, Sand Island Shoal and Crossover Channels at Grays Harbor and Chehalis River; CIVENG-45-108-56-47. Specifications with district engineer, Seattle. Bid bond 20%. Completion time 90 calendar days. GW 4-13. Previous report 4-5

★ **GRADING, WATER MAINS, SURFACING—** **Seattle, Wash.**

Award to Paduano Bulldozing Co., Route 2, Box 529, Bothell, $37,140, by Board of Public Works, E. G. Henry, secretary, room 512, County-City Bldg., Seattle, for grading, water mains and surfacing at Ashworth Ave. on the north end of City Light warehouse; Spec. No. 1416. Plans by City Light, Engineering Division, H. G. Silliman, chief electrical engineer, 4th Floor, Galland Bldg., 1217 2nd Ave., Seattle.
GW 4-13. Previous report 3-30

★ **REPAIRS TO SEAWALL—** **Seattle, Wash.**

Award to Larsen Construction Co., 468 Colman Bldg., Seattle, $70,407, by Seattle Army Terminal, 1519 South Alaskan Way, Seattle, for repairs to seawall at Seattle Army Terminal; Inv. No. TC-45-045-56.
GW 4-14. Previous report 3-6

★ **DOLPHIN REPAIR—** **Seattle, Wash.**

Award to Larsen Construction Co., 468 Colman Bldg., Seattle, $2,198, by Seattle Army Terminal, 1519 S. Alaskan Way, Seattle, for repairs to dolphin and rail piers 37 and 39, Seattle; Inv. No. TC-45-045-56-63.
GW 4-14. Previous report 4-3

● **LOADER BUCKET—** **Seattle, Wash.**

Bids to be opened 10 a. m., April 24, by City Council, Paul R. Hendricks, city purchasing agent, room 511, County-City Bldg., Seattle, for furnishing one truck self loader bucket. Specifications with purchasing department. GW 4-14

● **WATER MAIN REPLACEMENT—** **Seattle, Wash.**

Bids to be opened 2 p. m., April 27, by 13th Naval District, Bureau of Yards and Docks, Rear Admiral R. H. Meade, chief of bureau, room 100, Building 232, U. S. Naval Station, Seattle, for replacement of water mains, Pier 90, Seattle; NBy 2009; Spec. No. 2009/56. Plans with Public Works office. $25 deposit. Bid bond 20%. Replace portion of water main, provide additional piping, valves, hand holes, manholes and miscellaneous supports and anchors; some earthwork, and paving with asphaltic concrete and portland cement. GW 4-14

● **RIGGING EQUIPMENT—** **Seattle, Wash.**

Bids to be opened 10 a. m., April 26, by City Council, Paul R. Hendricks, city purchasing agent, room 511, County-City Bldg., Seattle, for rigging equipment for Diablo manlift; Specifications with purchasing department. GW 4-17

● **TRANSFORMERS—** **Seattle, Wash.**

Bids to be opened 10 a. m., May 8, by City Council, Paul R. Hendricks, city purchasing agent, room 511, County-City Bldg., Seattle, for two 7500-kva 26.4/13.8, 3-phase transformers. Specifications with purchasing department. Re. No. 62707. GW 4-17

▲ **PUMPING STATION EQUIPMENT—** **Seattle, Wash.**

Bids received by City Council, Paul R. Hendricks, city purchasing agent, room 511, County-City Bldg., Seattle, for control equipment for three pumping stations. Bids opened April 16. LOW BIDS: Instrument Laboratory, 934 Elliott W., $11,800; Control Corp., 2603 Western Ave., $12,760. Both bidders of Seattle.
SP 4-17. Previous report 4-5

▲ **PAVING, RESURFACING— Seattle, Wash.**

Bids received April 17 by Seattle Army Terminal, Procurement Division, John A. Fountain, contracting officer, room 300, Building No. 1, Seattle Army Terminal, 1519 S. Alaskan Way, Seattle, for asphalt paving, resurfacing, and seal coating at Seattle Army Terminal; INV. No. PT-45-045-56-70. Completion time 120 calendar days. LOW BIDS: Larsen Constructoin Co., Colman Bldg., Seattle, $45,245; Washington Asphalt Co., 309 W. 39th, Seattle, $47,290; Northwest Asphalt Co., 7343 E. Marginal Way, Seattle, $49,414. GW 4-18. Previous report 3-31

● **SEWERS—** **Seattle, Wash.**

Bids to be opened 8 p. m., April 25, in the offices of the Lake City Sewer District, 3206 E. 125th, Seattle, for construction of miscellaneous sewer extensions within ULID No. 1. Plans with Hill & Ingman, consulting engineers, 1728 E. Madison, Seattle. $2 deposit. Certified check 5%.

Work is divided into four contracts, each at a separate location within King County and the north city limits of Seattle. Approximate quantities—No. 1, E. 113th St. and Sand Point Way: 402' of 8" pipe sewer, 3 manholes; No. 2, E. 125th St. and 42nd Ave. N.E.; 480' of 8" pipe sewer, 3 manholes; No. 3, Lakeside Place N.E. and E. 119th; 170' of 8" pipe sewer, 1 standard manhole; No. 4, 32nd Ave. N.E. and E. 143rd; 165' of 8" pipe sewer, 2 standard manholes. DC 4-18

● **MANHOLE COVERS, FRAMES—** **Seattle, Wash.**

Bids to be opened 10 a. m., April 23, by City Council, Paul R. Hendricks, city purchasing agent, room 511, County-City Bldg., Seattue, for ten, 36" street type manhole covers and frames. Specifications with purchasing department. GW 4-18

● **GATE STOPLOGS—** **Seattle, Wash.**

Bids to be opened 10 a. m., May 10, by City Council, Paul R. Hendricks, city purchasing agent, room 511 County-City Bldg., Seattle, for furnishing fabricated wheel gates, outlet stoplogs and stoplog lifting beam; Specification No. 1428. Specifications with purchasing department. GW 4-18

■ **WATER MAIN—** **Selah, Wash.**

Planholders announced for installation of steel water mains, valves and hydrants in Selah. Bids will be opened April 23 by City Council, Mabel Darby, clerk, City Hall, Selah. Specifications with Gray & Osborne, consulting engineers, 228 S. 2nd, Yakima.

Planholders: G. G. Teskey, 303 S. 10th Ave., Spokane; Tolley & Anderson, 1423 Pleasant, Yakima; De Blasio Bros., Route 4, Yakima. IG 4-14. Previous report 4-6

▲ **SWITCHYARD ADDITIONS—** **Snohomish, Wash.**

Bids opened April 16 by Bonneville Power Administration, L. C. Stewart, procurement officer, 1001 N.E. Lloyd Blvd., Portland, for construction of 115 KV switchyard additions at Snohomish substation about ½ mi. north of Snohomish, Wash.; Inv. No. 7950. LOW BIDS: George S. Smith, Route 7, Box 19a, Bothell, Wash., $21,629; H. B. Nesheim, 6714 36th Ave. S.W., Seattle, $21,705; Western Electrical Construction Co., 1639 N.W. Raleigh St., Portland, $23,202.
WB 4-18. Previous report 4-6

★ **ASPHALTIC CONCRETE PAVING, TRUNK SEWER—** **Spokane, Wash.**

Award announced by City Council, Arthur Meehan, commissioner of Public Works, City Hall, Spokane, for asphaltic concrete paving on Columbia Ave. from Market St. to Crestline St. in Spokane; Ord. No. C14349. AWARD: S. & F. Construction Co., Route 2, Box 188, Spokane, $21,300. Bids on subtrunk sewer were opened at the same time, April 12, and referred to public works department, as they were over estimate.
EM 4-18. Previous report 3-28

★ **WATER PIPE—** **Tacoma, Wash.**

Award to Paine-Gallucci, Inc., 1521 S. Grant, Tacoma, $4,696, by Lakewood Water District, 11900 Gravelly Lake Drive S.W., Tacoma, for furnishing and installing water pipe and fittings. Bids opened April 5.
SP 4-13. Previous report 3-2

▲ **POWERHOUSE DRAFT TUBE GATE FRAMES, GUIDES—** **Tacoma, Wash.**

Bids received by Board of Contracts and Awards, Clarence Boyle, chairman, room 404, City Hall, Tacoma, for furnishing Mayfield powerhouse draft tube gate frames guides and appurtenances; Ord. No. 15196. LOW BID: Pacific Car and Foundry, 120 W. Hudson, Seattle, $7,536. Bids opened April 5.
GW 4-13. Previous report 3-2

■ **WATER MAIN—** **Tacoma, Wash.**

Planholders announced for installation of approximately 2,200' of 8", 5,300' of 6", 1,200' of 4", class 150 asbestos-cement pipe, fire hydrants, gate valves, appurtenances. Bids will be opened 10 a. m., April 23, by North Points Mutual Water Co., Tacoma, in the office of George R. Marvin Co., 1601 Taylor Way, Tacoma.

Planholders: Pipeline Excavators, 11520 20th Ave. N.E., Seattle; J & W Co., 1918 E. 107th St., Seattle; O. R. Alia, 2532 32nd S., Seattle; S. C. Bard Co., Vashon; R. W. Putnam, 316 Boren Ave. N., Seattle; Eltrich Construction Co., 1002 S. Monroe, Tacoma; Seifert Construction Co., Inc., 1323 S. K St., Tacoma; Milone & Tucci, Inc., 3115 S. M St., Paine & Gallucci, Inc., 1521 S. Grant, Tacoma; Bona Fide Builders, Inc., 2430 E. 11th, Tacoma; Utility Construction Co., 3113 S. Pine St., Tacoma.
SP 4-18. Previous report 4-13

★ **GRAIN UNLOADER—** **Tacoma, Wash.**

Award announced by Port of Tacoma, M. S. Erdahl, secretary, Pier No. 2, Port of Tacoma Terminal, for furnishing one pit-type bulk brain boxcar unloader. AWARD: Straight Engineering Co., Adel, Iowa, $79,100. ONLY OTHER BID: Air-o-Flex Equipment Co., 3030 E. Hennepin Ave., Minneapolis, Minn., $64,500. Bids opened April 10.
SP 4-18. Previous report 3-30

★ **GRADERS—** **Vancouver, Wash.**

Award to Howard Cooper Corp., 5821 N.E. Glisan St., Portland, $11,623, by Clark County, Bruce Worthington, auditor, Courthouse, 1200 Franklin St., Vancouver, for two tandem drive motor graders.
WB 4-14. Previous report 3-30

★ **STEEL WIRE STRAND—Vancouver, Wash.**

Awards to Graybar Electric Co., 309 N.W. Flanders St., Portland, $11,571 (Item 1); American Chain & Cable Co., Inc., Monessen, Pa., $8,691 (Items 2 and 3, and Pacific Wire Rope Co., 3615 N.W. St. Helens Road, Portland, $1,832 (Item 4), by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for steel wire strand for Vancouver, Wash.; Inv. No. 7920.
WB 4-14. Previous report 4-5

● **STREET IMPROVEMENTS—** **Vancouver, Wash.**

Bids to be opened 1:30 p. m., April 30, by city purchasing agent, Robert Moisant, 712 Washington St., Vancouver, for street improvements. Plans with public works department. $15 deposit.

LID 233—W. 10th St. from Franklin to Grant; LID 235—W. 45th St. from Daniels to Lincoln, and Kauffman from 45th St. northerly; 2,160 c.y. excavation; 4,300' concrete curb; 1,455 c.y. crushed rock; 10,460 sq. yd. bituminous surfacing; LID 234—27th St. from Fruit Valley Road to Home Ave., 3,600 sq. ft. sidewalks. WB 4-14

● **STREET IMPROVEMENTS—** **Vancouver, Wash.**

Correction: Bids to be opened 1:30 p. m., April 23, by city purchasing agent, Robert Moisant, 712 Washington St., Vancouver, for LID 234. Sidewalks on 27th St. Previous report gave bid date as April 30.
WB 4-18. Previous report 4-14

★ **STEEL CUT-OFF WALL—** **Woodland, Wash.**

Award to Hanly Salvage Co., 39192 Pacific Way, Longview, $5,091, by Corps of Engineers, Colonel Jackson Graham, district

engineer, 628 Pittock Block, Portland, for construction of a steel sheet-pile cut-off wall 60' long at Cowlitz County Consolidated Diking Improvement District No. 2, Woodland; CIVENG-35-026-56-190.
WB 4-18. Previous report 4-10

▲**IRRIGATION SYSTEM— Yakima, Wash.**

Bids received by City of Yakima, Grant Huey, commission of public works, City Hall, Yakima, for construction of an irrigation system for King Street in Yakima. Plans by A. B. Collins, city engineer, City Hall, Yakima. Following bids are for steel pipe and asbestos - cement, respectively. Route 4, $14,022, $14,830; Carroll & Sanislo Co., E. Lenox Ave., $15,042, $15,573; Buck-Edinger, 501 W. North Ave., $17,376, $18,124. Bids opened April 9.
IG 4-13. Previous report 4-3

●**SEWER SYSTEM— Yakima, Wash.**

Bids will be opened 10 a.m., April 23, by City of Yakima, Pearl Benjamin, City Hall, Yakima, for construction of a sewer system for the new Junior-Senior High School, Zazet and Chekola Avenues, Yakima. Plans with A. B. Collins, city engineer, City Hall, Yakima. Project includes construction of 8" concrete pipe gravity line, 6" concrete pipe overflow line; installation of an ejector unit in special manhole; installation of 6" asbestos-cement pipe pressure line discharging into existing sewer on north side of Nob Hill Blvd.
IG 4-14

★**SEWERS— Yakima, Wash.**

Award to C & S Construction Co., Union Gap, $20,694, by City of Yakima, Grant Huey, commissioner of Public Works, City Hall, Yakima, for sewer pipe line on S. 5th Ave. in Yakima. Bids opened April 2.
IG 4-18. Previous report 4-5

●**SURFACING— Yakima, Wash.**

Bids to be opened 11 a.m., May 2, by Yakima County Commissioners, Courthouse, Yakima, for two road construction projects. Plans with county engineer, Courthouse. $2 deposit. Certified check, cashier's check or bid bond 5%.

County Road Project No. 618: Surfacing about six mile of county roads west of Yakima, and stockpiling 12,500 ton material, involving 36,950 c.y. excavation, 72.4 stations roadway preparation, 31,919 station finish roadway, 3,140 c.y. pit run ballast in place, 40,460 ton ballast in place, 7,710 ton top course and same for base course, 1,740' concrete pipe, 12,500 ton material in stockpile. Local County Road Project No. 612: Surfacing 2.6 mile county roads northwest of Selah and stockpiling 6,600 ton material, involving 14,450 c.y. excavation, 134.2 station finish roadway, 16,350 ton ballast in place, 3,260 ton top course, 3,680 ton base course, 1,389' concrete culvert pipe.
IG 4-18

INDUSTRIAL SEWAGE DISPOSAL— Yakima, Wash.

(Estimated cost $334,000)

Survey completed by Stevens & Thompson, engineers, 732 S.W. 3rd Ave., Portland, Ore., for construction of an industrial waste plant in Yakima for City of Yakima, Grant Huey, commissioner of Public Works, City Hall, Yakima. Project includes improvements to existing plant equipment, chlorine contact tank, pumping unit and plant piping, sprinkler system.
IG 4-18. Previous report 3-27

IDAHO

▲**BANK REPAIR AND PROTECTION— Albeni Falls, Idaho**

Bids received April 13 by Corps of Engineers, Seattle District Colonel N. A. Matthias, district engineer, 4735 E. Marginal Way, Seattle, for bank repair and protection, lots 13 to 24, block 6, Lakeside Place, Lake Pend Oreille, Albeni Falls Project, Pend Oreille River, Idaho; CIVENG-45-108-56-51. This project includes 500 c.y. gravel fill and 800 c.y. rock riprap. LOW BIDS: Colonial Construction Co., E. 1702 Broadway, Spokane, $7,940; Deshon & Haugse, Sandpoint, Idaho, $15,364; Freesh Construction, Sandpoint, $22,100. Government estimate $5,440.
GW 4-17

▲**TRANSFORMER American Falls, Idaho**

Bids received by Bureau of Reclamation, L. N. McClellan, chief engineer, Bldg. 53, Denver Federal Center, Denver, Colo., for on outdoor power transformer, for American Falls Pumping Plant Switchyard, Michaud Flats Project, Idaho; Inv. No. DS-4641. LOW BIDS: R. E. Uptegraff Manufacturing Co., Scottdale, Pa., $18,400; Electro - Machinery Corp., New York, $20,821; Central Transformer Corp., Pine Bluff, Ark., $21,500.
SP 4-18. Previous report 2-23

▲**STATE HIGHWAY PROJECTS— Boise, Idaho**

Bids to be opened 2 p.m., April 24, by Department of Highways, E. V. Miller, state highway engineer, 603 Main St., Boise, for highway construction. Plans with highway department. $5 deposit. Certified check, cashier's check or bid bond 5%.

REXBURG—Roadway, plantmix bituminous surfaicng, extensions of 25.7' bridge on 0.966 mile U. S. Highway 20 and 191 in Rexburg; FAP No. F-6471(4). Furnishing crushed gravel, cover coat material in stockpiles in Madison and Bonneville counties; Stockpile Projects 118 and 159. Involves 18,910 c.y. excavation; 4,800 Y.U. haul.

BLAIN COUNTY LINE EAST TO U.S. 93—Roadway and 236.9' concrete bridge on 12.981 mile SH No. 68, Blaine County; FAP No. S-2809(2). Involves 897,700 c.y. excavation; 257,200 c.y. borrow; 212,300 Y.U. haul.

CEDAR HOLLOW ROAD—Roadway, drainage, crushed gravel surfacing on 5.741 mile road, Caribou County; FAP No. S-1770(1). Involves 32,200 c.y. excavation; 44,700 c.y. borrow; 21,100 ton select borrow; 13,300 Y.U. haul.

NEAR WILDER AND HUSTON—Crushed gravel and cover coat material, about 20,000 ton, Canyon County; Stockpile Project No. 135.
DM 4-13

▲**STATE HIGHWAY PROJECTS— Boise, Idaho**

Bids received by Department of Highways, 603 Main St., Boise, on highway construction. Bids opened April 10.

SQUAW CREEK BRIDGE, APPROACHES—Construct roadway, roadmix bituminous surface 120' concrete bridge, crushed gravel stockpile on 1.218 mile SH 52, Gem County; FAP No. F-3261(1) and Stockpile Proj. No. 136.

LOW BIDS: Quinn Bros. & Robbins, 703 S. 16th, Boise, $124,970; J. O. Young & Sons, Nampa, $130,599; MacGregor Triangle Co., Boise, $136,998.

CAREY-NORTHWEST—Construct roadway, roadmix bituminous surface and 25.2' concrete bridge on 3.712 mi. from Carey northwest, Blaine County; FAP No. S-2814(1).

LOW BIDS: Western Construction Co., Box 628, Pocatello, $86,439; Twin Falls Constuction Co., Twin Falls, $94,852; Duffy Reed Construction Co., Twin Falls, $106,256.

MONROE CREEK CULVERT, RUSH CREEK BRIDGE—Construct 20' concrete culvert over Monroe Creek and a 32' concrete bridge over Rush Creek on Highway U. S. 95, Washington County; FAP No. F-3112(3) and enclosing pile bents on Weiser River Bridge at Cambridge, Idaho in Highway U. S. 95; ST-3112(508), Washington County.

LOW BIDS: Vernon Bros. Co., 8th and Orchard, Boise, $23,409; J. Vear Van Ney, Ontario, Ore., $23,515; J. O. Young & Sons, Nampa, $26,877.
DM 4-14. Previous report 3-24

▲**STATE HIGHWAY PROJECT—Boise, Idaho**

Bids received April 13 by Department of Highways, 603 Main St., Boise, for highway construction.

SANDPOINT APPROACHES, STOCKPILING—Constructing base course and roadmix bituminous surface on 1.452 mile of Highway U. S. 95 and 0.322 mile connection on the approaches to the Sandpoint Bridge, FAP No. F-5116(4); and cover coat material in stockpiles and constructing maintenance projects at various locations in Benewah, Kootenai, Bonner, Boundary and Shoshone counties.

BIDS RECEIVED: Carbon Bros., N. 3430 Cook, Spokane, $799,519 (Alt. 1, steel beam type guard rail, $805,669 (Alt. 2, steel cable guard rail); Max J. Kuney Co., N. 120 Ralph, Spokane, $816,965, $825,575; Peter Kiewit Sons' Co., Box 253, Idaho Falls, $841,746, $854,046.
DM 4-17. Previous report 3-31

★**REFLECTIVE SHEETING— Boise, Idaho**

Award to Minnesota Mining & Milling, St. Paul, Minn., $7,286, by Ted Cramer, purchasing agent, room 225, State House, Boise, for reflective sheeting for highway department.
SP 4-18. Previous report 3-24

★**RESERVOIR— Craigmont, Idaho**

Award to Howard W. Snyder, 202 5th, Lewiston, Idaho, $18,481, by City Council, Village Hall, Craigmont, for new water supply reservoir. Plans by Wealey H. Grow & Associates, consulting engineers, Weisgerber Bldg., Lewiston.
SP 4-18. Previous report 3-28

SEWAGE TREATMENT PLANT— Lewiston Orchards, Idaho

Preliminary plans underway by Walter L. Woodward, consulting engineer, 206 Empire State Bldg., Spokane, Wash., for a complete sewerage system and sewage treatment plant including pumps and pumphouse for the Lewiston Orchards Sewer District, Walter Schnabel, chairman of the board, Lewiston Orchards.
CE 4-18

●**IMPROVEMENTS— Lucky Peak Dam, Idaho**

Bids will be opened 2 p.m., P.S.T., May 10, by Corps of Engineers, Walla Walla District Engineer, Building 602, City-County Airport, Walla Walla, for cleaning, treating and painting intake emergency gates, intake bulkhead and trashrack panels at Lucky Peak Dam, Ada County; CIVENG-45-164-56-61. Specifications with above office. Bid bond 20%. Completion times: Trashrack panels, 60 calendar days; Intake gates, 90 calendar days; Intake bulkhead, 45 calendar days.
SP 4-14

SEWER— Marsing, Idaho

Engineers, Melvin Davenport & Associates, Caldwell, Idaho, have been retained by City Council, City Hall, Marsing, for construction of a sewer system in Marsing.
SP 4-18. Previous report 3-10

●**STREET IMPROVEMENTS— Sandpoint, Idaho**

Bids will be opened 8 p.m., May 8, by City Council, City Hall, Sandpoint, for street improvements at Sandpoint. Specifications with Superintendent of Public Works. $10 deposit. Bid bond 5%.

Project includes grading, gravel backfilling, curbing and plantmix bituminous surfacing concrete or machine mixed road oil surfacing. Bids taken on one or all of the following sections. SECTION 1: grading, gravel backfilling, adjusting manhole and catch basin tops. SECTION 2: construction of all curbs. SECTION 3: placing cushion and wearing course. Paving includes installation of reinforced concrete curbs, catch basins and connections to storm sewers.

Quantities: 40,000 c.y. excavation, 21,565 c.y. gravel backfill; 3,300 c.y. 2" cushion of ¾" minus crushed rock or gravel; 25,500' of 6"x12"x16" reinforced concrete curb; 340 sq. yd. 2", 30,313 sq. yd. 1½" bituminous concrete surfacing; 29,135 sq. yd. 2½", 30,313 sq. yd. 2½", machine mix road oil surface (alternate); 40 tons bituminous concrete for leveling; 40 tons machine mix road oil surfacing for leveling; 250,000 sq. yd. rolling; 200,000 gal. sprinkling.
SC 4-17

MONTANA

●**PARK IMPROVEMENTS—Billings, Mont.**

(Estimated cost $4,173)

Bids will be opened 10:30 a.m., April 24, by Yellowstone County Commissioners, Courthouse, Billings, for improvements in the area of Hawthorne Park, Billings Bench, northeast of Billings; SID No. 328. Specifications with county engineer.

Plans may be inspected at office of Sage Engineers & Land Planners, Inc., 1010 Poly Drive, Billings. Bid bond 10%.

Project includes construction of curbs and gutters along northerly and southerly boundaries of Hawthorne Park; outdoor fireplace; picnic tables; storage building; 900 sq. ft. paving for basketball court. EE 4-14

▲SANITARY SEWERS— Billings, Mont.

Bids received by City Council, William J. Fry, city clerk, City Hall, Billings, for sanitary sewer. LOW BIDS: Long Construction Co., Lockwood Flats, and Studer Construction Co., west of Billings, $173,089 (joint bid); Barry O'Leary, Inc., 215 N. 16th St., $190,155; Cop Construction Co., 617 Central Ave., $190,365. Bids opened April 10 and are under advisement.

EE 4-17. Previous report 3-28

●STORM SEWER MAINS, DRAINAGE— Billings, Mont.

Bids will be opened 10:30 a. m., May 7, by Yellowstone County Commissioners, City Hall, Billings, for installation of storm sewer mains and draining surface waters in RSID No. 301. Specifications with L. R. Sampson, county surveyor, City Hall, Billings. Certified check 10%.

Quantities: 4,200' of 8", 1,422' of 10", 380' of 12", 410' of 15", 355' of 18", 1,655' of 24", 488' of 27" and 910' of 30" concrete pipe.

★WATER MAINS— Billings, Mont.

Award announced by Yellowstone County Commissioners, Courthouse, Billings, for construction of water mains in rural SID No. 323 in Billings. AWARD: Sparboe Construction Co., 1032 N. Broadway, Billings, $6,845. Bids opened April 9.

EE 4-18. Previous report 3-24

TELEPHONE FACILITIES— Circle, Mont.
(Estimated cost, $75,000)

R.E. A. loan for $75,000 approved for Mid-Rivers Telephone Cooperative, G. R. Thiessen, president, and Ellis Jones, manager, Circle, Mont. Funds to be used to provide 82 mi. of new line and other facilities to serve 76 additional subscribers adjacent to the Crane Exchange in Richland County.

WB 4-17

★PAVING, CURBS, GUTTERS— Fort Benton, Mont.

Award to Hilde Construction Co., Box 1910, Great Falls, $338,000, by City Council, City Hall, Fort Benton, for street paving, curbs and gutters. Plans by Philip L. Lux & Associates, engineers, 215 Lake St., Kirkland. Project involves 188,331 gal. 100-120 asphaltic concrete in plantmix; 20,200 ton plantmix bituminous surfacing; 57,200' integral curb and gutter. DM 4-13

★FIRING-IN BUTT, TAXIWAY— Great Falls, Mont.

Award to George Chicha Co., E. 2917 Sharp, Wash., $247,664, by Corps of Engineers, Walla Walla District, Colonel Myron E. Page, Jr., district engineer, Bldg. 602, City-County Airport, Walla Walla, for construction of firing-in butt and taxiway, Malmstrom AFB., Cascade County, Great Falls; ENG-45-164-56-27. Bids opened February 21.

SP 4-17. Previous report 2-28

●WATER STORAGE— Miles City, Mont.

Bids will be opened 2 p. m., May 7, by Corps of Engineers, Office of Seattle District Engineer, 4735 E. Marginal Way, Seattle, for construction of additional water storage, Miles City installation; ENG-45-108-56-162. Specifications with Seattle District. Completion time 90 calendar days. Bid bond 20%. Quantities: 35,000-gallon concrete water storage tank; piping. SP 4-13

WYOMING

SEWAGE SYSTEM— Buffalo, Woy.
(Estimated cost $49,000)

Bids will be opened soon by Town Council, City Hall, Buffalo, for a sewage outfall line and oxidation pond east of Buffalo. Plans with Fred Brady, Engineer, Spearfish, South Dakota. SP 4-18. Previous report 4-3

●ACCESS ROAD TUNNEL— Casper, Wyo.

Bids will be opened 10 a. m., May 22, by Bureau of Reclamation, L. N. McClellan, Chief Engineer, Building 53, Denver Federal Center, Denver, Colo., for construction of access road tunnel, Fremont Canyon Power Plant, near Casper, in Natrona County; Spec. No. DC-4679. Specifications with above office. Bid bond 10%. Completion time 330 calendar days.

Quantities: 51,000 c.y. excavation; 44,000 lb. structural supports; 2 Mbm timber lagging and struts; 31' of 13"x22" No. 6 gauge corrugated metal pipe; 160 c.y. concrete; 230 bbl. cement; 16,000 lb. reinforcement bars; 550 c.y. gravel or crushed rock surfacing.

★PIPELINE MATERIALS—Cheyenne, Wyo.

Award to Waterworks Sales Co., 600 W. 48th Ave., Denver, Colo., $91,960, by Board of Public Utilities, 311 W. 19th St., Box 257, Cheyenne, for furnishing and delivering well collecting pipeline materials. Bids opened April 12. SP 4-18. Previous report 4-5

▲CIRCUIT BREAKERS— Glendo, Wyo.

Bids received by Bureau of Reclamation, L. N. McClellan, chief engineer, Bldg. 53, Denver Federal Center, Denver, Colo., for furnishing and delivering fob Glendo, six 115 kv, 800 ampere, power circuit breakers for Glendo Switchyard, Transmission Division, Wyo., Missouri River Basin Project; Inv. No. DS-4631. LOW BIDS: General Electric Co., 1429 18th, Denver, Colo., $177,038; Federal Pacific Electric Co., 5815 3rd, San Francisco, Calif., $177,100; Brown Boveri Corp., New York, $200,670. Bids opened March 27. SP 4-13. Previous report 2-3

●BULKHEAD GATES, LIFTING FRAME— Glendo, Wyo.

Bids will be opened 2 p. m., M.S.T., May 24, by Bureau of Reclamation, L. N. McClellan, chief engineer, Building 53, Denver Federal Center, Denver, Colo., for furnishing and delivering six 8'4"x11'8" bulkhead gates and one lifting frame fob. Glendo Power Plant, Oregon Train Division, Missouri River Basin Project, Glendo; Inv. No. DS-4680. Specifications with above office. Completion time 90 calendar days. SP 4-17

●RIPRAP PROTECTION, TAILRACE REPAIR— Riverton, Wyo.

Bids will be opened 10 a. m., M.S.T., May 17, by Bureau of Reclamation, Project Manager, Box 839, Cody, for riprap protection and tailrace repair at Pilot Butte Power Plant, 27 miles northwest of Riverton; Spec. No. 601C-47. Specifications with Project Manager Cody. Completion time 180 calendar days. Bid bond 10%.

Quantities: 85 c.y. excavation; 40 c.y. gravel bedding; 4 c.y. tamped gravel; 65 c.y. hand-placed riprap; 185 c.y. dumped riprap; 2 c.y. excavation of concrete; 11 c.y. concrete. SP 4-13

WATER SYSTEM— Shoshone, Wyo.

Bond issue approved by voters at Shoshone, Wyo. Bond issue provides $100,000 to improve and expand municipal water system in Shoshone. EE 4-14

UTAH

●ELECTRICAL POWER SERVICE— Hill AFB, Utah

Bids will be opened 3 p.m., April 30, by Commander, Ogden Air Material Area, Attn. OOPPCS-4, Hill AFB, for installation of new electrical power service at Hill AFB.; IFB 42-600-45-331. Bid bond 20%. GH 4-18

●■SEWAGE TREATMENT PLANT— Moab, Utah

Bids will be opened 1 p.m., April 24, by Moab City Corp., J. W. Corbin, mayor, City Hall, Moab, for construction of a sewage treatment plant in Moab. Specifications with Hugo Price, city engineer, 1567 Locust Lane, Provo.

Planholders: Davis & Butler, 422 Dooly Bldg., Salt Lake City; Lynn A. Cree, 42 E. 7th West, Provo; Mountain States Construction Co., 36 E. 4th South, Bountiful; Nielsen-Dougan Construction Co., 110 W. 13th Ave., Denver, Colo. GH 4-18

★SEWAGE TREATMENT PLANT— Moab, Utah

Award to W. J. Pray, 1520 White Ave., Grand Junction, Colo., $18,969, by Moab City Corp., J. W. Corbin, mayor, Moab, for construction of 18" outfall lines. Bids were opened April 10. Sewer treatment plant bid opening has been postponed.

MS 4-18. Previous report 4-6

▲PUMPING PLANTS— Ogden, Utah

Bids received by Bureau of Reclamation, C. D. Woods, project manager, Box 387, Ogden, for East Bountiful Pumping Plant, and South Davis Pumping Plant near Bountiful City, Davis County, Utah; Spec. No. DC-4616. LOW BIDS: Nelson Bros. Construction Co., 415 S. 2nd East, $147,529; Quinney & Winburn Construction Co., Beason Bldg., $152,285; Jacobsen Construction Co., Box 954, $153,503. All bidders of Salt Lake City. Bids opened March 15.

SP 4-13. Previous report 2-3

▲EARTHWORK, PIPELINES— Ogden, Utah

Bids received by Bureau of Reclamation, L. N. McClellan, chief engineer, Bldg. 53, Denver Federal Center, Denver, Colo., for earthwork, concrete, pipelines and structured for trunk lines, station 934+60 Davis Aqueduct, near Ogden, in Davis County; Spec. No. DC-4458. LOW BIDS: W. W. Clyde & Co., N. Main St., Springville, $894,575; Tiago Construction C., 3399 S. 2nd West, Salt Lake City, $923,756; Thayn Construction Co., 2021 E. 27th S., Salt Lake City, $935,793. Bids opened April 3. SP 4-13. Previous report 2-28

●PAVING— Ogden, Utah

Bids will be opened 10:30 a. m., May 1, by Ogden City Corporation, James R. Eide, purchasing agent, Municipal Bldg., Ogden, for construction of paving district No. 174 in Ogden. Specifications with City Engineer, City Hall, Ogden. SC 4-17

★CONCRETE RESERVOIR—Redmond, Utah

Award to Max Jones Construction Co., 356 N. 9th East, Provo, $6,722, by Town Council, Town Clerk, Redmond, for construction of a 111,000 - gallon culinary water reservoir of reinforced concrete.

GH 4-14. Previous report 3-21

SUBSTATION— Riverdale, Utah
(Estimated cost $500,000)

Construction to start late in April or early May by Utah Power & Light Co., Kearns Bldg., Ogden, on expansion of the firm's substation in Riverdale. The expansion will meet future power needs in this area plus expanded demands from developments at Marquardt Aircraft Co. sites, and construction on Lucin Cutoff fill project. Substation work involves installation of a 33,000 kw transformer. DC 4-18

★STATE HIGHWAY PROJECTS— Salt Lake City, Utah

Awards by Utah State Road Commission, Salt Lake City, on two highway construction projects on which bids were opened April 3.

STATE ROAD No. 70—A 2" roadmix bituminous surface on 16.107 mile State Road No. 70 from junction of U. S. 30-S and State Road No. 70, southwesterly toward Park Valley, Box Elder County; FASP No. S-0501(1). AWARD: L. A. Young Construction Co., Richfield, $221,313.

WANSHIP VICINITY—Gravel and cover material stockpile about 2 mile northeast of Wanship, Summit County; State Project No. 1565. AWARD: Vernal Sand and Gravel, Vernal, $18,850. DM 4-17. Previous report 4-10

ALASKA

●BRIDGE PAINTING— Anchorage, Alaska

Bids to be opened 2 p. m., A.S.T., April 26.

by Alaska Railroad, Irving P. Cook, chief engineer, Anchorage, for painting three Matanuska River bridges, Nos. 147.1, 147.4 and 147.5. Specifications with chief engineer in Anchorage, or with A. R. Sessions, special representative of General Manager, Alaska Railroad, room 225, Federal Office Bldg., 909 1st Ave., Seattle. $25 deposit. GW 4-14

★PAVING— Anchorage, Alaska

Awards announced by City Council, George C Shannon, city manager, City Hall, Anchorage, for paving sidewalks, curbs, gutters and drains on 79 city blocks involving the down town area in the eastern part of the city. AWARDS: Doughty Construction Co., Box 1167, Spenard, $646,386 (Schedule A, including alt. 1, Schedules C and D); Patti-MacDonald Construction Co., Pouch 6, Anchorage, $472,688 (Schedule B, including alt. 2 and Schedule E, including priority 2 and alt. 2, priority 3 and alt. 2).
AN 4-17. Previous report 4-10

★MILITARY FACILITY— Fort Richardson, Alaska

Award to S. Patti-MacDonald, Wyatt & Kipper and Thorgaard Plumbing and Heating, 1310 S. Grand Ave., Kansas City, Mo., $606,733, by Corps of Engineers, Alaska District, D-E Bldg., Anchorage, for improvements to the central heat and power plant at Fort Richardson; ENG-95-507-56-32. The bids were on four schedules: coal handling equipment, security fencing, steam generator accessory and railroad spurs and unloading docks. Eleven firms submitted bids. Only three firms submitted figures on all schedules: the winning firms listed above; Northern Corporation, Anchorage, $627,562; Morrison-Knudsen Co., Inc., Anchorage, $778,000. Government estimated $587,123.
DM 4-17. Previous report 4-7

● POWER SYSTEM— Juneau, Alaska

Bids will be opened 1 p.m., April 27, by Alaska Communications System, Office of Contracting Engineer, 4735 E. Marginal Way, Seattle, for modifications and additions to the existing power distribution system in the Alaska Communications System Repeater Station in Juneau; DA 45-041-sc-56-17. Specifications with contracting officer in Seattle. Completion time 30 calendar days. SP 4-13

★BRIDGES— Juneau, Alaska

Award to Denali Engineering Co., Anchorage, $48,042, by Alaska Road Commission, A. F. Ghiglione, commissioner, room 311, Federal Bldg., Juneau, for bridge repairs on Tazlina and Gulkana River bridges, Miles 110.4, 127.0 Richardson Highway, Alaska.
JU 4-14. Previous report 2-29

● HIGHWAY— Juneau, Alaska

Bids will be opened 11 a.m., May 15, by Alaska Road Commission, Department of the Interior, room 319, Federal Bldg., Juneau, for highway construction, section D1, located between Paxson and Black Rapids about Mile 189 to Mile 229 on the Richardson Highway, Alaska. Specifications with above office, Box 1961, Juneau. Bid bond 5%. Completion time 500 calendar days.

Quantities: 20,000 c.y. excavation for borhow; 164,000 tons crushed gravel base course; 52,000 tons class F plant mix mituminous pavement; 2,565' bituminous curb. Construction covers length of 40.92 mi. SP 4-17

● STREET, SEWER IMPROVEMENTS— Juneau, Alaska

Bids will be opened 10 a.m., P.S.T., May 23, by Alaska Public Works, John D. Argetsinger, acting director, 123 W. 3rd St., Box 1181, Juneau, for street and sewer improvements in Juneau; Project No. Aaa, 50-A-146, Section V. Specifications with above office. $25 deposit. Bid bond 5%.

Quantities: 10 concrete manholes; 10 concrete catch basins; 186' of 6", 340' of 8", 608' of 10", 253' of 12", 519' of 16" sewer pipe; 24' of 8" BITCMP; 10 c.y. concrete encasement; 600 c.y. excavation; 1,176 sq. ft. concrete sidewalks; 616 sq. ft. concrete stairs; 419' of 1½" pipe handrail; 565' concrete curb; 35 c.y. concrete footing; 43 c.y. concrete retaining walls; 228 sq. ft. concrete cribbing. SP 4-17

■ AIRPORT FACILITIES— Ladd and Eielson AFB., Alaska

Planholders announced for airport paving at Ladd and Eielson air bases; ENG-95-507-56-48. Bids to be opened 11 a.m., April 25, by Corps of Engineers, in the Seattle Branch Office, J. P. Byrne, manager, 4735 E. Marginal Way, Seattle. Bid bond 20%.

Planholders: Babler Bros., Inc., 3617 S.E. Milwaukie Ave., Portland; Century Metal Works, 7126 W. Marginal Way, Seattle; Rogers Construction Co. and Babler Bros., 11760 N.E. Glisan St., Portland; B-E-C-K Constructors, 3647 Stone Way, Seattle; Morrison-Knudsen Co., Inc., 603 Hoge Bldg., Seattle; S. Birch and Sons Construction Co., 208 Central Bldg., Seattle; Green Construction Co., 928 Securities Bldg., Seattle; City Electric of Anchorage, 2921 13th Ave. S.W., Seattle; S. S. Mullen, Inc., 621 9th Ave. N., Seattle; Peter Kiewit Sons' Co., 1300 Aloha, Seattle. GW 4-18. Previous report 4-4

● POWER SYSTEM— Lena Point, Alaska

Bids will be opened 2 p.m., April 27, by Alaska Communications System, Contracting Office, 4735 E. Marginal Way, Seattle, for modifications and additions to the existing power distribution system in the Alaska Communications System Repeater Station at Lena Point; DA-45-041-sc-56-18. Completion time 30 calendar days. SP 4-13

● POWER SYSTEM— Skagway, Alaska

Bids will be opened 2 p.m., May 7, by Alaska Communications System, Office of Contracting Engineer, 4735 Marginal Way, Seattle, for modifications and additions to the existing power distribution system in the Alaska Communications System Repeater Station in Skagway; DA 45-041-sc-56-16. Specifications with contracting officer in Seattle. Completion time 30 calendar days. SP 4-13

● STEEL TOWER, TOWER LIGHTING— Tok Junction, Alaska

Bids to be opened 1 p.m., P.S.T., May 10, by Alaska Communications System, Army Signal Corps, Captain Wilkins, contracting officer, 4735 E. Marginal Way, Seattle, for installation of 100' vertical steel tower, ground system and tower lighting at Tok Junction, Alaska; DA 45-041-sc-56-19. Specification No. 164 obtainable from contracting officer, Seattle. GW 4-13

Advertisements for Bids

Advertisements reaching us not later than Wednesday noon will appear the same week.

THE RATE for Advertisements for Bids is 35 cents per line for the first insertion; 25 cents per line for each insertion thereafter.

STATE HIGHWAY CONSTRUCTION
BIDS CLOSE 10 A.M., MAY 8
Olympia, Washington
NOTICE TO CONTRACTORS

Sealed bids will be received by the Washington State Highway Commission at Olympia, Washington, on Tuesday, May 8, 1956, until 10:00 A.M., for the construction of the following improvements and will then and there be opened and publicly read:

1. Clearing, Draining, Grading, Surfacing, Constructing a Cement Treated Base, Paving with Type I-1 Asphaltic Concrete, Stockpiling Ballast, Crushed Stone Surfacing, Maintenance Rock, Crushed Cover Stone and Mineral Aggregates and Constructing a Reinforced Concrete T-Beam Bridge on 4.101 miles of Primary State Highway No. 8 in Klickitat County, GOLDENDALE NORTH, FAP No. F-014-3(3), involving about 10,920 cubic yards of Unclassified Excavation, 40,470 cubic yards of Common Excavation, 68,190 cubic yards of Solid Rock Excavation, 6,000 cubic yards of Selected Roadway Borrow, 101,510 tons of Crushed Stone Surfacing Ballast, Maintenance Rock, Crushed Cover Stone and Mineral Aggregates, 11,160 tons of Asphaltic Concrete, 100 tons of Asphalt Cement, 750 cubic yards of Mineral Aggregate, 26,400 tons of CTB Aggregate, 3,500 barrels of Portland Cement, 3,885 linear feet of Cement Concrete Curb and Gutter, 2,023 linear feet of Cement Concrete Curb, 1,584 linear feet of Concrete Pipe, 134 linear feet of Corrugated Metal Pipe, 640 linear feet of Galvanized Iron Pipe, 1,750 linear feet of Beam Guard Rail, 410 Guide Posts, 7 cubic yards of Riprap, 27 square yards of Cement Concrete Driveway, 842 cubic yards of Concrete, 149,480 pounds of Steel Reinforcing Bars, a lump sum bid for Construction of a Detour Bridge and other items.

2. Draining, Grading and Surfacing with Crushed Stone on 2.321 miles of a Whitman County Road, PULLMAN - BUSBY ROAD, FAS No. S-0669(1), involving about 17,540 cubic yards of Common Excavation, 26,770 cubic yards of Solid Rock Excavation, 41,760 tons of Crushed Stone Surfacing, 906 linear feet of Corrugated Metal Pipe and other items.

3. Constructing a Reinforced Concrete Slab Bridge on 0.011 mile of a Whatcom County Road, AUSTIN CREEK BRIDGE, FAS No. S-0766(3), involving about 76 cubic yards of Concrete, 15,287 pounds of Steel Reinforcing Bars, 120 linear feet of Beam Guard Rail, 640 linear feet of Concrete Piling and other items.

4. Draining, Grading, Surfacing and Paving with Type I-1 Asphaltic Concrete on 4.931 miles of Primary State Highway No. 8 in Clark and Skamania Counties, TOWN OF WASHOUGAL AND CAPE HORN VICINITY, a State Project, involving about 1,730 cubic yards of Unclassified Excavation, 2,220 cubic yards of Crushed Stone Surfacing, Ballast and Mineral Aggregate, 5,980 tons of Asphaltic Concrete, 17 tons of Asphalt Cement, 1,270 linear feet of Asphaltic Concrete Gutter, 3,359 linear feet of Cement Concrete Curb and Gutter, 36 linear feet of Concrete Pipe and other items.

5. Reconstructing Roadway Ditches and Surfacing with Light Bituminous Surface Treatment on 7.52 miles of Secondary State Highway No. 11-F in Lincoln County, CRAB CREEK TO JCT. SSH No. 2-G, a State Project, involving about 14,585 linear feet of Reconstructing Roadway Ditches, 2,150 linear feet of Reconstructing Roadway Ditches in Solid Rock, 44,500 tons of Selected Roadway Borrow, 26,200 tons of Crushed Stone Surfacing, Crushed Cover Stone and Mineral Aggregates, 293 tons of Asphalt Cement, 1,124 linear feet of Corrugated Metal Pipe and other items.

6. Surfacing with Light Bituminous Surface Treatment and Constructing Non-Skid Single Seal Treatment on 83.733 miles of Primary State Highway No. 1 in Clark, Cowlitz and Lewis Counties, INTERSTATE BRIDGE TO THURSTON COUNTY LINE, a State Project, involving about 3,000 cubic yards of Top Soil, 1,390 tons of Asphalt Cement, 9,490 cubic yards of Crushed Cover Stone and Mineral Aggregate from Stockpile, 3,625 cubic yards of Crushed Cover Stone and Crushed Screenings, 3,257 Guide Posts and other items.

7. Stockpiling Maintenance Rock, Sand and

Mineral Aggregates on State Highways Nos. 1, 1-A and 1-H in Skagit County, CONWAY VICINITY, a State Project, involving about 1,790 cubic yards of Common Excavation, 700 cubic yards of Selected Roadway Borrow, 50 linear feet of Corrugated Metal Pipe, 29,000 tons of Crushed Materials and other items.

Federal funds have been allocated for items Nos. 1 to 3, inclusive.

All bid proposals shall be accompanied by a bid proposal deposit in cash, certified check, cashier's check or surety bond in an amount equal to five per cent (5%) of the amount of such bid proposal. Should the successful bidder fail to enter into such contract and furnish satisfactory performance bond within the time stated in the specifications, the bid proposal deposit shall be forfeited to the State of Washington.

Prequalification of bidders is required. Maps, plans and specifications may be obtained from this office upon written request therefor and payment to the Director of Highways by cash, certified check, cashier's check or money order in the sum of two dollars ($2.00) for each copy of such maps, plans and specifications as a rental for the use of them. Plans will be forwarded by First Class Mail.

Informational copies of maps, plans and specifications are on file in the office of the County Engineer of the County in which the work is situated, the Chapter offices of the Associated General Contractors of America in Seattle, Spokane, Tacoma and Portland, and the offices of the District Engineers of the Department of Highways where they may be inspected.

E. C. HUNTLEY, Chairman
W. A. BUGGE, Director of Highways.
5433—4-21, 28

PURCHASE OF REINFORCING STEEL BARS

BIDS CLOSE 2 P.M., MAY 3

Ephrata, Washington

ADVERTISEMENT FOR BIDS

FOR SALE BY U. S. DEPARTMENT OF THE INTERIOR, BUREAU OF RECLAMATION. Sealed bids will be received by the Bureau of Reclamation, Columbia Basin Project, Box 368, Ephrata, Washington, until 2 p.m., PST May 3, 1956, for purchase and removal of estimated 138 tons of reinforcing steel bars from ½" to 1½" in size, round and square, various lengths and grades, all located at Coulee Dam, Washington. Bidding papers and information may be obtained from Mr. G. M. Plymale at above address, or telephone SKyline 4-4611.
5429—4-21

STATE HIGHWAY PROJECTS

BIDS CLOSE 9 A.M., APRIL 26 AND 27

Portland, Oregon

NOTICE TO CONTRACTORS

Sealed bids on the following projects will be received by the Oregon State Highway Commission in the Queens Room of the Imperial Hotel in Portland, Oregon, at 9:00 a.m. on Thursday, April 26, and at 9:00 a.m., Friday, April 27, 1956.

BIDS TO BE OPENED AT 9:00 A.M. ON THURSDAY, APRIL 26

CLACKAMAS COUNTY: Clackamas River Park Interchange Section of the Pacific Highway East, about 1 mi. north of Oregon City. State Project. Grading and oiling of connecting roads and approaches. Requires approx 4,400 cu. yds. embankment in place; 10 metal sight posts; 2,110 cu. yds crushed base materials; 650 cu. yds. pit-run surfacing materials. 8 tons RC-3 asphalt; 16 tons 150-200 asphalt; and 6 tons RS-1 asphalt. (Completion date 7-31-56).

CLACKAMAS COUNTY: Bridge, grading and paving on the Molalla River (Meadowbrook) Bridge Section of the Woodburn-Estacada Highway, approx 2 mi. northeast of Molalla. FAP No. S-264(4). Construction of a 343' reinforced concrete bridge and 0.41 mi. of roadway. Involves following approx. quantities: 23,000 cu. yds. general excavation; 6,800 cu. yds. crushed material in base; 1,200 tons asphaltic concrete mixture; 650 cu. yds. struc. excavation; 440 lin. ft. treated timber piling (16 piling); 600 lin. ft. 10"-42# steel piling (20 piling); 900 cu. yds. Class "A" concrete; 205,000 lbs. metal reinforcement; 690 lin. ft. metal rail; 50 lin. ft. 60" corr. metal pipe; and 80 lin. ft. 8" metal pipe. (Completion date 3-31-57.)

CLACKAMAS AND MULTNOMAH COUNTIES: Bridge painting. State Project. Clean and paint all structural steel (estimated 450 tons) in the Columbia Slough Bridge on the Pacific Highway in north Portland, and clean and paint the interior surfaces of all arch ribs on the bridge over the Willamette River at Oregon City. (Completion date 8-31-56).

CLACKAMAS AND YAMHILL COUNTIES: Divisions No. 1 and 2 Oiling Project on four highways, near Molalla, Newberg, and Sheridan. State Project. 27.40 mi. of oiling. Requires approx. 400 cu. yds. contractor-furnished aggregates; hauling and placing 9,000 cu. yds. State-furnished aggregates; 550 tons 150-200 asphalt; and 350 tons RS-2 asphalt. (Completion date 8-31-56.)
This project may be bid in combination with the Division No. 2 Oiling Project in Marion County.

CLATSOP AND 3 OTHER COUNTIES: Elsie-Sunset Camp Rock Production Project on the Sunset Highway, easterly of Elsie. State Project. Requires approx. 13,000 cu. yds. crushed rock in stock piles. (Completion date 7-31-56).

COLUMBIA COUNTY: North Fork Scappoose Creek Bridges on the Pittsburg-Scappoose Highway, 3 mi. and 6 mi. northwest of Scappoose. FAP No. S-77(5). Construct one 120' (3 spans, 36'-48'-36') reinf. concrete deck girder bridge, and one 84' reinf. concrete deck girder (52' span with 16' cantilever spans) over the No. Fork of Scappoose Creek. Involves following approx. quantities: 400 cu. yds. struc. excavation; 440 cu. yds. Class "A" concrete; 105,000 lbs metal reinf., and 120 lin. ft. 8" metal drain pipe. (Completion date 10-31-56.)

COOS COUNTY: Empire (Michigan Ave. & Morrison St.) Paving. City Project. 0.29 mi. of paving. Requires approx. 530 cu. yds. crushed base material; 1,200 tons asphaltic concrete mixture; and 70 tons 85-100 asphalt. (Completion date 9-15-56.)

COOS AND LANE COUNTIES: Bridge painting, State Project. Clean and paint all steel and machinery which has been painted previously in the following bridges: (1) Coal Bank Slough Bridge on Oregon Coast Highway in the City of Coos Bay, Coos County. (Estimated weight 80 tons). (2) Coquille River Bridge on Oregon Coast Highway in the City of Coquille in Coos County. (Estimated weight 147 tons); (3) Hoffman Bridge over Middle Fork Coquille River on Powers Highway near its junction with Coos-Bay-Roseburg Highway in Coos County. (Estimated weight 114 tons); (4) Siuslaw River Bridge on Oregon Coast Highway in the City of Florence in Lane County. (Estimated weight 285 tons.) Completion date 9-30-56).

CROOK COUNTY: Barnes Butte Road Section of the Barnes Butte Road, about 1.5 mi. north of Prineville. FAP No. S-312(1). 4.58 mi. of grading and base. Requires approx. 56,000 cu. yds. excavation; and 24,000 cu. yds. pit-run or crushed material in base. (Completion date 7-31-56).

CURRY COUNTY: North Brookings Section of the Oregon Coast Highway, at Brookings. FAP No. 119(4). 1.23 mi. grading and paving. Requires approx. 60,300 cu. yds. excavation; 390 cu. yds. concrete in box culverts and curbs; 32,000 lbs. metal reinforcement; 660 lin. ft. metal guardrail; 70 metal sight posts; 14,700 cu. yds. crushed base materials; 50 tons RC-3 asphalt; 9,100 tons asphaltic concrete mixture; 550 tons 85-100 asphalt in paving; and 50 tons RS-2 asphalt. (Completion date 9-30-56.)

CURRY COUNTY: Brookings (Pioneer Rd. & Easy St.) Paving. City Project. 0.20 mi. of grading and paving. Requires approx. 3,650 cu. yds. excavation; 100 cu. yds. concrete in curbs and walks; 280 lbs. metal reinforcement; 3,400 cu. yds. crushed base materials; 1,000 tons asphaltic concrete mixture; and 60 tons 85-100 asphalt. (Completion date 9-15-56).

DOUGLAS COUNTY: Shady-Booth Ranch Slide Correction Project on the Pacific Highway, about 7.6 mi. south of Roseburg. FAP No. ER-17(1). 0.29 mi. of slide correction. Requires approx. 109,000 cu. yds. excavation; 550 lin. ft. 6-inch perf. metal drain pipe; and 600 cu. yds. pit-run gravel backfill. (Completion date 7-31-56).

DOUGLAS COUNTY: Oakland (5th St.) Paving. City Project. 0.26 mi. of paving. Requires approx. 32 hrs. blade grading; 1,790 cu. yds. crushed base materials; 530 tons asphaltic concrete mixture; and 32 tons 85-100 asphalt. (Completion date 9-15-56).

DOUGLAS COUNTY: Sutherlin (State St. & Central Ave.) Grading and Paving. City Project. 0.07 mi. of grading and paving. Requires approx. 430 cu. yds. excavation; 440 cu. yds. crushed base materials; 650 tons of asphaltic concrete mixture; 38 tons of 85-100 asphalt in paving; and 16 cu. yds. concrete in curbs. (Completion date, 9-15-56.)

KLAMATH COUNTY: Klamath Agency Rock Production Project on 3 highways near Klamath Agency and Fort Klamath. State Project. Requires approx. 8,000 cu. yds. crushed rock or crushed gravel in stock piles. (Completion date 7-15-56.)

KLAMATH COUNTY: Spencer Bridge Rail Replacement on the Spencer Bridge over the Klamath River on the Ashland-Klamath Falls Highway. State Project. Remove the existing concrete curbs and rails and replace them with new concrete curbs and galvanized steel rails. (Completion date 10-31-56).

LINCOLN COUNTY: Bridge painting. State Project. Clean and paint all structural steel and metal handrail in the Ojalla and Fuller Bridges over the Siletz River on the Siletz Highway near the town of Siletz. Each bridge contains approx. 175 tons of structural steel. (Completion date 8-31-56.)

LINCOLN COUNTY: Taft (W. Pacific Ave.) Paving. City Project. 0.33 mi. of paving. Requires approx. 40 hrs. blade grading; 220 cu. yds. crushed base materials; 1,400 tons asphaltic concrete mixture; and 80 tons 85-100 asphalt. (Completion date 9-15-56.)

MARION COUNTY: Hayesville Interchange Unit, Willamette River-Hayesville Section of the Portland-Salem Expressway, about 1 mi. north of Salem. State Project. Requires the furnishing and planting of approx. 30 trees, 1,400 shrubs and 18,600 vines; planting approx. 12,600 State-furnished vines; seeding 0.34 acre; requiring approx. 6 cwt. organic fertilizer; 40 cwt. bonemeal; 200 units sawdust; and 16 lbs. grass seed. (Completion date 12-31-56.)

MARION COUNTY: Detroit Reservoir Guardrail Project on the North Santiam Highway, west and east of Detroit. State Project. Requires approx. 8,000 lin. ft. metal guardrail. (Completion date 9-30-56).

MARION AND LINN COUNTIES: Bridge painting. State project. Clean and paint all structural steel and metal handrail on the bridge over the Santiam River on the Pacific Highway East, approx. 15 mi. south of Salem. Estimated weight of structural steel 910 tons. (Completion date 8-31-56).

MARION AND 3 OTHER COUNTIES: Division No. 2 Oiling Project on 4 highways near Alsea, Eddyville, Sweet Home and Mill City. State project. 20.63 mi. of oiling. Requires approx. 750 cu. yds. contractor-furnished aggregates; hauling and placing 1,000 cu. yds. State-furnished base material and 2,690 cu. yds. State-furnished aggregates; 200 tons 150-200 asphalt; and 190 tons RS-2 asphalt. (Completion date 8-31-56.)
(This project may be bid in combination with the Divisions Nos. 1 and 2 Oiling Project in Clackamas and Yamhill Counties.)

TILLAMOOK COUNTY: Rockaway (Pacific St.) Paving. City Project. 0.21 mi. of paving. Requires approx. 24 hrs. blade grading; 1,320 cu. yds. crushed base materials; 430 tons asphaltic concrete mixture; and 20 tons 85-100 asphalt. (Completion date 9-15-56).

TILLAMOOK AND WASHINGTON COUNTIES: South Fork Gales Creek Bridge and 5th and 6th Crossing of Wilson River on the Wilson River Highway, approx. 24 mi. west of Forest Grove. State Project. Construct a 168' and a 152' RCDG bridge over the Wilson River, and a 20' slab bridge over the South Fork of Gales Creek. Involves following approx quantities: Provide detours; 400 cu. yds., struc. excavation; 730 cu. yds. Class "A" concrete; 173,000 lbs. metal reinf.; 110 lin. ft. of 8" metal drain pipe; and placing of 420 cu. yds. of State-furnished rock in embankment. (Completion date 5-31-57).

UNION AND BAKER COUNTIES: La Grande-North Powder Pavement Sealing and Rock Production Project on the Old Oregon Trail Highway, south from La Grande. State Project. 23.89 mi. pavement sealing; also furnishing crushed materials

in stock piles. Requires approx. 21,900 cu. yds. crushed rock or crushed gravel; and 380 tons RS-2 asphalt. (Completion date 8-31-56).

UNION COUNTY: Glover Sand Shed. State Project. Construct a 60'x96' frame shed adjacent to the Old Oregon Trail Highway at Glover, approx. 12 mi. northwest of LaGrande. (Completion date 8-30-56.)

WASHINGTON COUNTY: Cornelius (N. Main St.) Paving. City Project. 0.22 mi. of paving. Requires approx 40 hrs. blade grading; 1,730 cu. yds crushed base materials; 570 tons asphaltic concrete mixture; and 34 tons 85-100 asphalt. (Completion date 9-15-56).

BIDS TO BE OPENED AT 9:00 A.M. ON FRIDAY, APRIL 27

CLATSOP COUNTY: Bridge, grading and stone base on the Nehalem River (Vine Maple) Bridge Section of the Jewell-Elsie (Fishhawk Falls) Highway, approx. 5 mi. north of its junction with the Sunset Highway in Clatsop County. State Project. Construct one bridge pier, 374' of reinf. concrete bridge superstructure, and 0.40 mi. of roadway. Involves following approx. quantities: 15,000 cu. yds. general excavation; 1,300 cu. yds. quarry-run rock in base; 600 cu. yds. loose riprap; 230 cu. yds. structural excavation; 320 lin. ft. cast-in-place concrete piling (8 piling); 770 cu. yds. Class "A" concrete; 175,000 lbs. metal reinf.; and 30 lin. ft. 8" metal drain pipe. (Completion date 3-31-57).

CLATSOP COUNTY: Klaskanine River Bridge on the Youngs River Loop Road, 8 mi. southeast of Astoria. FAP No. S-134(3). 182' timber and reinf. concrete bridge (seven 26' precast beam spans on treated pile bents). Involves following approx. quantities: 1,920 lin. ft. treated timber piling (48 piling); 230 cu. yds. Class "A" concrete; 62,000 lbs. metal reinf. and 9 M-FBM treated timber in place. (Completion date 9-30-56).

CLATSOP COUNTY: Humbug Summit Section of the Sunset Highway, about 4.4 mi. west of Elsie. State Project. 1.59 mi. grade widening. Requires approx. 48,000 cu. yds. excavation. (Completion date 8-31-56).

CLATSOP AND 2 OTHER COUNTIES: Divisions Nos. 1 and 2 Guardrail Project on 4 highways, near Astoria, Vernonia and Tillamook. State Project. Requires 3,400 lin. ft. metal guardrail. (Completion date 8-31-56).

COOS COUNTY: Coquille (Knott St.) Paving. City project. 0.29 mi. paving. Requires approx. 200 cu. yds. excavation; 790 cu. yds crushed base materials; 1,100 tons asphaltic concrete mixture; and 66 tons 85-100 asphalt. (Completion date 9-15-56).

DOUGLAS COUNTY: Reedsport (Winchester Ave.) Paving. City project. 0.54 mi. paving. Requires approx. 150 cu. yds crushed material in shoulders; 1,150 tons asphaltic concrete mixture; and 70 tons 85-100 asphalt. (Completion date 9-30-56.)

GRANT COUNTY: Beech Creek-Mt. Vernon Rock Production on the Pendleton-John Day and Beech Creek Highways, north from Mt. Vernon. State project. Requires approx 9,000 cu. yds. crushed rock or crushed gravel in stock piles. (Completion date 8-31-56).

HOOD RIVER COUNTY: Illumination installation. State Project. Involves the installation of 11 mercury-vapor luminaires on the Second Street connection to Columbia River Highway. (Completion date 7-31-56).

LAKE AND 5 OTHER COUNTIES: Division No. 4 Oiling Project on 7 highways, near Sisters, Madras, Prineville, Hampton, Wagontire and Lapine. State project. 37.30 mi. of shoulder oiling; and 40.72 mi. travelway oiling. Requires approx. 2,700 cu. yds. contractor-furnished aggregates; hauling and placing 8,400 cu. yds. State-furnished aggregates; 960 tons 150-200 asphalt; and 200 tons RS-1 asphalt. (Completion date 8-31-56).

LANE COUNTY: Florence (Gallagher St.) Grading and Paving. City Project. 0.32 mi. grading and paving. Requires approx. 2,100 cu. yds. excavation; 800 cu. yds. crushed base materials; 700 tons asphaltic concrete mixture; and 42 tons 85-100 asphalt. (Completion date 9-15-56).

LINN COUNTY: Albany and Sweet Home Traffic Signal Installation. State project. Involves one intersection in each city. Completion date 7-31-56).

MULTNOMAH COUNTY: Barbur Boulevard Junction Interchange Illumination on Pacific Highway. State project. Install highway lighting system, involving 23 mercury-vapor luminaires. (Completion date 7-31-56).

MULTNOMAH COUNTY: Median Fence on Harbor Drive in Portland. State project. Involves installation of 1,380 lin. ft. of woven wire fence and an electrically operated gate. (Completion date July 31, 1956).

MULTNOMAH COUNTY: 122nd Ave.-Sundial Fencing Project on the T. H. Banfield Expressway, east of Portland. State project. Requires approx. 2,000 rods 26" V-mesh fencing on median area. (Completion date 7-31-56).

MULTNOMAH COUNTY: Banfield Expressway Undercrossing of N.E. 28th Ave. in the city of Portland. Bridge, grading and paving. FAP No. UI-323(18). Construction of section of roadbed passing beneath the structure and surfacing of approach to the structure. Removal of 105' of existing viaduct and replacing it with 160' section of new viaduct (2-30' simple RCDG spans and a 100' prestressed concrete box girder span). Involves following aprox. quantities: 4,200 cu. yds. general excavation, 2,050 cu. yds. crushed material; 650 cu. yds. structural excavation; 525 cu. yds. Class "A" concrete; 380 cu. yds. Class "A-A" concrete; 110,000 lbs. metal reinf.; and 340 lin. ft. metal rail. (Completion date 2-28-57.)

MORROW COUNTY: Lexington (Arcade St.) Grading and Paving. City project. 0.22 mi. grading and paving. Requires approx. 1,030 cu. yds. quarry-run base rock; 300 cu. yds. State-furnished base material; 570 tons asphaltic concrete mixture; and 34 tons 85-100 asphalt. (Completion date 9-15-56).

MORROW AND WHEELER: Rock Creek-Summit Rock Production Project on the Heppner-Spray Highway, about 6 mi. south of Hardman. State project. Requires approx. 10,000 cu. yds. crushed rock or crushed gravel in stock piles. (Completion date 8-31-56).

SHERMAN COUNTY: Grass Valley-Kent Rock Production Project on the Sherman Highway. State project. Requires approx. 10,000 cu. yds. crushed rock or crushed gravel in stock piles. (Completion date 7-31-56).

TILLAMOOK COUNTY Nehalem Draw Bridge, Dolphin and Drawrest Replacement. State project. Remove the existing timber and pile drawrest and replace it with a new 50 pile drawrest. Remove and replace 30 piling in the dolphins and shear boom. Involves following approx quantities: Remove 119 existing timber piling; furnish and drive 80 treated timber piling (4,320 lin. ft. of piling); and 7.0 M-FBM treated timber. (Completion date 8-31-56).

UMATILLA COUNTY: Van Sycle - Helix Section of the Helix Van Sycle County Road, north from Helix and about 24 mi. northeast of Pendleton. FAP No. S-304(1). 7.40 mi. grading and oiling. Requires approx. 79,000 cu. yds. excavation; 51,300 cu. yds. crushed base materials and aggregates; 150 tons MC-2 asphalt; 330 tons 150-200 asphalt; and 100 tons RS-1 asphalt. (Completion date 8-31-56).

WASCO COUNTY: Beaver Butte Cr. & Butte Cr. Guardrail Project on the Warm Springs Highway, from 34 to 40 mi. northwest of Madras. State Project. Requires approx. 3,300 lin. ft. metal guardrail. (Completion date 7-31-56).

WASHINGTON COUNTY: Banks Section of the Nehalem Highway, at Banks. State project. 0.26 mi. grading and paving. Requires approx. 1,060 cu. yds. excavation; 76 cu. yds. concrete curbs; 1,010 cu. yds. crushed base material; 650 tons asphaltic concrete mixture; 40 tons 85-100 asphalt in paving; and 4 tons RS-2 asphalt. (Completion date 7-31-56).

WASHINGTON COUNTY: Hillsboro (Tenth Ave.-Dennis Ave. Traffic Signal Installation. State project. Install traffic signals at 9 intersections. (Completion date 7-31-56).

WASHINGTON COUNTY: Rock Creek Bridge and Beaverton Creek Bridges on the Base Line Road near Hillsboro. FAP No. S-310(1). Construct a 125' and a 150' timber and reinf. concrete bridge over Beaverton Creek; and a 75' timber and reinf. concrete bridge over Rock Creek. Span arrangement on all three bridges is 25' precast beam spans on 6 pile treated timber bents. Involves following approx. quantities: 4,980 lin. ft. treated timber piling (102 piling); 455 cu. yds. Class "A" concrete; 117,120 lbs. metal reinf.; 9.0 M-FBM treated timber in place; and 94 lin. ft. 8"-metal drain pipe. (Completion date 12-31-56).

WASHINGTON COUNTY: Dairy Creek Bridge Widening on the Tualatin Valley Highway, approx. 1 mi. west of Hillsboro. FAP No. F-183(10). Widen the existing bridge by constructing a 24' additional roadway and new curb and rail. Involves following approx. quantities: 270 cu. yds. structural excavation; 980 lin. ft. cast-in-place concrete piling (14 piling); 1,665 lin. ft. untreated timber piling (40 piling); 2,655 lin. ft. composite timber piling (47 piling); 530 cu. yds. "Class "A" concrete; 130,000 lbs. metal reinf. (Completion date 12-31-56).

YAMHILL AND 2 OTHER COUNTIES: Division No. 2 Bridge Replacement Project on 4 highways, near Astoria, Tillamook and Siletz. State project. 6 units, 0.13 mi. in aggregate length, involving replacement of bridges with corrugated metal pipe, roadway construction and stone base. Requires approx. 19,200 cu. yds. excavation; 390 lin. ft. riveted corr. metal pipe; 128 lin. ft. struct. plate pipe; 72 lin. ft. struct. plate pipe arch; and 1,270 cu. yds. crushed base materials. (Completion date 9-30-56).

Unskilled labor employed for the Federal projects shall be obtained from lists prepared by agencies designated by the Oregon State Employment Service. The minimum wage paid to all labor employed in Federal projects shall be as follows: Skilled labor, $2.25 per hour; intermediate labor, $2.00 per hour; unskilled labor, $1.75 per hour.

Prequalifications of bidders will be required in accordance with the provisions of ORS 279.010 to 279.024, inclusive. Full information for bidders may be obtained at the office of the Oregon State Highway Commission, State Highway Building, Salem, Oregon. Plans and specifications may be inspected at the same place and may be obtained by eligible bidders upon payment of $2.00 per each set.

Plans and specifications may also be inspected at the office of the Associated General Contractors in Portland, Seattle, Spokane, and Boise; and at the Builders Exchange Cooperative, Portland.

The right is reserved to reject any and all proposals or to accept the proposal deemed best for the State of Oregon.

OREGON STATE HIGHWAY COMMISSION
H. B. Glaisyer, Secty

5423—PCD 4-11

SCHOOL ADDITION

BIDS CLOSE 8 P.M., MAY 7

Sandpoint, Idaho

NOTICE TO CONTRACTORS

Notice is hereby given that Class "A" School District No. 82, Bonner County, Idaho, herein referred to as the "Owner" will receive up but not later than 8 P.M., May 7, 1956, Sealed Proposals for the General Construction, Electric Wiring & Electric Fixtures, Heating & Ventilating, and Plumbing & Drainage for New Addition to Kootenai School, consisting of New Multipurpose Room, Kitchen, and Toilets, Showers & Dressing Room for Boys and Girls.

Bids will be received by Chas. E. Selle, Clerk and Business Manager for Class "A" School District No. 82, at the District Administrative Office, McFarland Building, Sandpoint, Idaho.

Bids will be opened by the Board of Trustees for Class "A" School District No. 82 at the Administrative Office on the date and hour stipulated herein and shall be publicly read aloud.

Sets of Drawings and Specifications will be on file for public inspection in the above named Administrative Office, and at the Office of G. A. Pehrson & Associates, Architects, Old National Bank Building, Spokane, Washington.

One set of Drawings and Specifications will be issued to each Bidder upon written request together with a deposit of $10.00. The deposit will be refunded to the Bidder if the Drawings and Specifications held by the Bidder, except the Bidders submitting the three lowest Bids, are delivered to the Architect in good order and without markings, two days after the opening of the Bids.

Refunds to the three lowest Bidders shall be made under conditions stipulated above, if the Drawings are delivered to the Architect six days after the Contract is awarded. Should any Bidder require additional sets of Drawings and Specifications same will be furnished for a reproduction cost of $20.00 for each set.

Each Bid shall be accompanied by a Certified Check or Cashier's Check in the amount of 5% of the Base Bid or a Bid Bond in the amount of 5% of the Base Bid.

Certified Checks or Cashier's Checks, or the amount stipulated in the Bid Bonds shall be made payable to Class "A" School District No. 82, Bonner County, Idaho.

The Owner reserves the right to reject any or all Bids when such rejection is in the interest of the Owner, and to reject Bids of a Bidder, which in the Owner's opinion is not in position to perform the Contract or not holding License in the State of Idaho.

CHAS. E. SELLE
Clerk and Business Manager
Class A School District No. 82
Sandpoint, Idaho

5430—4-21, 28

STATE HIGHWAY PROJECTS

BIDS CLOSE 9:30 A.M., APRIL 26

Helena, Montana

NOTICE TO CONTRACTORS

Sealed bids on the following projects will be received by the Montana Highway Commission at the offices of said Commission in the City of Helena until 9:30 A.M., on April 26, 1956. The proposals will be publicly opened and read immediately thereafter.

F 2(12) Grading, sand surfacing, plant mix oiling and drain 8.893 miles on the Baker-Wibaux Road in Fallon County, involving about 184,802 cu. yds. unclassified excavation; 7,190 mi. yds. overhaul; 1,004 tons crushed gravel; 41,642 tons sand asphalt; 58,579 tons sand base; 2,980 tons shoulder gravel; 467,674 gals. asphalt cement; 3,435 M gals. watering; 748 units rolling; 800 lin. ft. corrugated metal pipe culverts; 666 lin. ft. reinforced concrete pipe culverts, and other items. Project to be completed by September 15, 1957.

F 23(4)U1, F 81(5)U1, F 101(6)U1 Plant mix oiling of 9.927 miles on the Chinook-East, Zurich-East and the Chinook-Harlem Roads in Blaine County involving about 22,410 tons plant mix bituminous surfacing; 290,004 gals. asphaltic cement; 34,861 gals. liquid asphalt and 2,027 tons crushed gravel. Project is to be completed by September 15, 1956.

F 84(21)U1 Grading, gravel surfacing, bituminous surface treatment and drain 9.308 miles on the West of Wolf Point-North Dakota Line Road in Roosevelt County, involving about 509,920 cu. yds. unclassified excavation; 15,900 mi. yds. overhaul; 139,941 tons crushed gravel; 34,550 cu. yds. sand base; 63,070 gals. liquid asphalt; 62,912 gals. emulsified asphalt; 10,440 M gals. watering; 1,879 units rolling; 4,008 lin. ft. corrugated metal pipe culverts; 78 lin. ft. structural plate pipe culverts, and other items. Project to be completed in 280 calendar days.

F 84(21)U2 Construction of one 57.0' treated timber bridge and one 152.0' steel and concrete bridge on the West of Wolf Point-North Dakota Line Road in Roosevelt County, involving about 1,250 cu. yds. unclassified excavation; 31.026 MBM treated timber; 0.872 MBM untreated timber; 1,410 lin. ft. treated timber piles; 80,893 lbs. reinforcing steel; 170 cu. yds. class "A" concrete; 236.0 cu. yds. class "AD" concrete; 301.50 lin. ft. steel bridge rail; 505 cu. yds. structure excavation; 3,230 lin. ft. furnishing treated timber foundation piles; 3,155 lin. ft. driving treated timber foundation piles, and other items. Project to be completed by September 30, 1956.

surfacing, bituminous surface treatment and

F 203 (5)U1 and F 222(12) Grading, gravel drain of 6.958 miles on the Gallatin Gateway-Bozeman Road and 0.122 miles on the Bozeman-East Road in Gallatin County, involving about 231,064 cu. yds. excavation; 131,098 mi. yds. overhaul; 73,482 tons crushed material; 78,778 cu. yds. designated borrow; 145,757 mi. yds. overhaul on designated borrow; 50,988 gals. liquid asphalt; 51,019 gals. emulsified asphalt; 55.9 cu. yds concrete driveways; 12 corr. metal catch basins; 2,001.4 linear feet integral curb and gutter; 1,552.9 linear feet concrete curb to be removed; 14,225 linear feet corrugated metal pipe culverts; 192 linear feet structural plate pipe culverts; 2,872 linear feet rein. concrete pipe culverts; 6,385 M gals. watering; 1,400 units rolling, and other items. Project is to be completed in 280 calendar days.

F 203(5) U2 Construction of one 30.0' steel and concrete bridge over Middle Creek on the Gallatin Gateway-Bozeman Road in Gallatin County, involving about 19,830 lbs. reinforcing steel; 104 cu. yds. class "A" concrete; 57.1 cu. yds. class "AD" concrete; 67.0 lin. ft. steel beam bridge rail, and other items. Project to be completed by September 30, 1956.

F 235(24) Grading, gravel surfacing, bituminius surface treatment and drain 3.967 miles on the Armington-Lewistown Road in Judith Basin County, involving about 487,321 cu. yds. unclassified excavation; 45.917 mi. yds. overhaul; 11,009 tons crushed gravel; 69,275 tons sand base; 52,388 gals. liquid asphalt; 1,400 units rolling; 8,900 M Gal. watering; 1,076 lin. ft. reinforced concrete pipe culverts; 336 lin. ft. structural plate pipe culverts; 214 lin. ft. asbestos bonded corrugated metal pipe culverts, and other items. Project to be completed in 240 calendar days.

F 270(7)U2 Widening of a 155' steel and concrete bridge over the Stillwater River on the Kalispell-Whitefish Road in Flathead County, involving about 30,399 lbs. reinforcing steel; 107 cu. yds. class "A" concrete; 113.4 cu. yds. class "AD" concrete; 317.17 lin. ft. steel beam bridge rail; 2,204 lin. ft. furnishing untreated timber piles; 2,076 lin. ft. driving untreated timber piles, and other items. Project to be completed by October 31, 1956.

S 50(2) Grading, gravel surfacing, and drain 6.055 miles on the Hysham-Southeast Road in Treasure County, involving about 241,138 cu. yds. unclassified excavation; 7,716 mi. yds. overhaul; 27,552 tons top course; 4,140 M gal. watering; 3,134 lin. ft. reinforced concrete pipe culverts; 216 lin. ft. structural plate pipe culverts, and other items. Project to be completed by October 31, 1956.

S 194(1) Reshaping, gravel surfacing and drain 9.236 miles on the Ekalaka-Mill Iron Road in Carter County, involving about 122,022 cu. yds. unclassified excavation; 2,479 mi. yds. overhaul; 32,139 tons top course; 121 hours scraping work; 81 hours blading work; 2,440 M gal. watering; 1,307 lin. ft. corrugated metal pipe culverts, and other items. Project to be completed by October 31, 1956.

S 208(1)U2 Construction of one 110' reinforced concrete bridge over Sweetgrass Creek on the Melville East and West Road in Sweet Grass County, involving about 42,084 lbs. reinforcing steel; 179.6 cu. yds. class "AD" concrete; 41 cu. yds. class "AD" concrete; 217.5 lin. ft. steel bridge rail and other items. Project to be completed by September 30, 1956.

S 332(6) Grading, gravel surfacing, road mix oiling and drain 2.429 miles on the Fort Peck-Nashua Road in Valley County, involving about 142,240 cu. yds. unclassified excavation; 70,942 mi. yds. overhaul; 14,378 tons crushed gravel; 40,206 tons selected borrow base course; 78,990 gals. liquid asphalt; 2,359 miles processing; 3,191 sq. yds. processing; 3,130 M gal. watering; 500 units rolling; 1,064 lin. ft. corrugated metal pipe culverts; 2,725 cu. yds. random rip rap and other items. Project to be completed by August 31, 1957.

S 362(3) Grading, gravel surfacing, and drain 9.069 miles on the Lame Deer-Colstrip Road in Rosebud County, involving about 236,599 cu. yds unclassified excavation; 8,566 mi. yds. overhaul; 46,876 tons crushed gravel; 4,450 m gals. watering; 141 units rolling; 3,167 lin. ft. corrugated metal pipe culverts; 726 lin. ft. structural plate pipe culverts, and other items. Project to be completed by October 31, 1956.

The above listed quantities are approximate only.

All bid proposals shall be accompanied by a certified or cashiers check, cash, postal money order, bank money order, or bid bond in the amount of at least 5% of the bid. Should the successful bidder fail to enter into his contract and furnish a satisfactory performance bond within the time stated in his proposal, the bid deposit shall be forfeited to the State Highway Commission of Montana.

Prequalification of bidders at least 72 hours prior to the opening of bids is required.

Plans, specifications, forms of contract and bond, proposal blanks, and full instructions are on file for examination and may be obtained at the offices of the State Highway Commission in Helena, Montana. Plans and specifications for all Federal Aid Projects are also on file and may be examined in the office of the Bureau of Public Roads at Missoula.

Frank G. Connelly, Chairman
Scott P. Hart, State Highway Engineer

5422—4-14, 21

WATER WORKS CONSTRUCTION

BIDS CLOSE 8 P.M., APRIL 24

Montesano, Washington

NOTICE TO CONTRACTORS

Sealed proposals will be received by the undersigned at the City Hall, Montesano, Washington, until 8:00 P.M., April 24, 1956 for the following Water Works Construction:

1. Furnish all material, except pipe, and installation of approximately 1,500 linear feet of 12" Cast Iron Mechanical Joint, 21/45 metal "U.S." pipe, fittings and necessary appurtenances.
2. Furnish all material, except pipe, and installation of approximately 29,500 linear feet of 10" to 4" Asbestos Cement, "Fluid Tite" joint "Century" Pipe, fittings and necessary appurtenances.

The improvements shall be in accordance with plans on file at the City Hall and at the office of Howard T. Harstad & Associates, 1000 Lenora Street, Seattle 1, Washington. Copies of said plans and specifications are available at the offices of the Engineers. A deposit of $15.00 per set will be required.

Each bid shall be accompanied by a bid bond or certified check payable to the order of City Treasurer, City of Montesano, for a sum not less than 5% of the amount of the bid, and no bid will be considered unless accompanied by such bid bond or check.

At the time and place named, such bids shall be publicly opened and read and the Council will proceed to canvass the bids and may let a contract to the successful bidder. The Council reserves the right to reject any or all bids.

BERTHA SATTERSTROM
Clerk, City of Montesano

5428—4-17

HOUSING UNITS, MAINTENANCE FACILITIES

BIDS CLOSE 10 A.M., MAY 1

Olympia, Washington

NOTICE TO CONTRACTORS

Sealed bids will be received by the Washington State Highway Commission at Olympia, Washington, on Tuesday, May 1, 1956, until 10:00 A.M., for the construction of the following improvement and will then and there be opened and publicly read:

Constructing Duplex Housing Units and Maintenance Facilities for District No. 3, a State Project, consisting of five base bids as follows:

BASE BID NO. 1
Constructing Duplex Housing Units and/or Maintenance Facilities in AMANDA PARK, KALALOCH, FORKS and POTLATCH in Grays Harbor, Jefferson, Clallam and Mason Counties, respectively.

BASE BID NO. 2
Constructing a Duplex Housing Unit and/or Maintenance Shed at AMANDA PARK in Grays Harbor County, and/or

BASE BID NO. 3
Constructing a Duplex Housing Unit and/or Maintenance Shed at KALALOCH in Jefferson County, and/or

BASE BID NO. 4
Constructing a Maintenance Shed at FORKS in Clallam County, and/or

BASE BID NO. 5
Constructing a Maintenance Shed at POTLATCH in Mason County.

All work for this improvement is combined into one set of plans and specifications which contains a common proposal.

Bidders who are satisfactorily prequali-

fied shall have the option of submitting proposals on any one or all of the base bids, except that when submitting a proposal on Base Bid No. 1 a bidder may also submit proposals on Base Bids Nos. 2 to 5 inclusive. The Director of Highways reserves the right to accept or reject the lowest bid on each base bid which gives the lowest total to the State.

Prequalifications of bidders is required. Plans and specifications may be obtained from this office upon written request therefor and payment to the Director of Highways by cash, certified check, cashier's check or money order in the sum of two dollars ($2.00) for each such set of plans and specifications as a rental for the use of them. Plans will be forwarded by first class mail.

Bidders who may not be prequalified in sufficient amount to bid on the entire improvement, namely Base Bid No. 1, shall indicate in their application for plans and specifications the particular section or sections upon which they desire to bid.

Each bid proposal shall be accompanied by a bid proposal deposit in cash, certified check, cashier's check or surety bond in an amount equal to five percent (5%) of the total of Base Bid No. 1 or of any combination of Base Bids Nos. 2 to 5, whichever is the greater. Should a successful bidder fail to enter into such contract and furnish a satisfactory performance bond within the time stated in the specifications, the bid proposal deposit shall be forfeited to the State of Washington.

Informational copies of plans and specifications are on file in the Chapter Offices of the Associated General Contractors of America in Seattle, Tacoma and Portland, Oregon and the office of the District Engineer of the Department of Highways in Olympia where they may be inspected.

E. C. HUNTLEY, Chairman
W. A. BUGGE, Director

5427—4-14, 21

STATE HIGHWAY PROJECTS
BIDS CLOSE 10 A.M., MAY 1
Olympia, Washington
NOTICE TO CONTRACTORS

Sealed bids will be received by the Washington State Highway Commission at Olympia, Washington, on Tuesday, May 1, 1956, until 10:00 A.M. for the construction of the following improvements and will then and there be opened and publicly read:

Clearing, Draining, Grading and Constructing Two Reinforced Concrete Rigid Frame Slab Bridges and One Reinforced Concrete Slab Bridge on 2.535 miles of Primary State Highway No. 2 in Kittitas County, HYAK TO SUNSET LODGE, FAP No. IN-002-2(4) involving about 60 acres of Clearing, 444,400 cubic yards of Common Excavation and Borrow, 46,600 cubic yards of Solid Rock Excavation, 130,940 units of Overhaul, 200 cubic yards of Pit Run Gravel, 560 tons of Asphaltic Concrete, 1,328 linear feet of Concrete Pipe, 2,300 cubic yards of Riprap, 1,078 cubic yards of Concrete, 195,820 pounds of Steel Reinforcing Bars and other items.

Draining, Grading and Surfacing with Light Bituminous Surface Treatment on 6.571 miles of Secondary State Highway No. 11-G in Adams County, FRANKLIN COUNTY LINE TO JCT. SSH NO. 7-C, FAP No. F-045-1(3), involving about 99,250 cubic yards of Common Excavation and Class A Excavation, 90,160 tons of Crushed Stone Surfacing, Ballast, Crushed Cover Stone and Crushed Screenings, 260 tons of Asphalt Cement, 62 cubic yards of Concrete, 4,234 pounds of Steel Reinforcing Bars, 2,868 linear feet of Concrete Pipe, 406 linear feet of Beam Guard Rail, 55 cubic yards of Riprap and other items.

Draining, Grading, Surfacing with Light Bituminius Surface Treatment and Constructing a Reinforced Concrete Rigid Frame Bridge on 0.994 mile of Primary State Highway No. 2 in Chelan County, SLEEPY HOLLOW NORTH, FAP No. F-028-1(9), involving about 45,670 cubic yards of Common Excavation, 6,180 cubic yards of Solid Rock Excavation, 19,245 tons of Crushed Stone Surfacing, Ballast, Crushed Cover Stone and Mineral Aggregates, 36 tons of Asphalt Cement, 300 linear feet of Iron and Steel Pipe, 685 linear feet of Concrete Pipe, 86 linear feet of Corrugated Metal Cattle Pass, 225 linear feet of Beam Guard Rail, 29 Guide Posts, 514 cubic yards of Concrete, 92,320 pounds of Steel Reinforcing Bars and other items.

Surfacing with Light Bituminous Surface Treatment, Constructing Non-Skid Single Seal Leveling Treatment and Type C Bituminous Surface Treatment Road Mix and Paving with Type I-1 Asphaltic Concrete on 18.912 miles of Primary State Highway No. 7 in Grant County, QUINCY TO NAYLOR AND VANTAGE TO SEVEN MILES EAST, FAP No. F-031-1(4) and State Project, involving about 22,150 tons of Crushed Stone Surfacing, Crushed Cover Stone and Mineral Aggregate, 745 tons of Asphalt Cement, 15,740 tons of Asphaltic Concrete and other items.

Surfacing with Light Bituminous Surface Treatment and Paving with Type I-1 Asphaltic Concrete on 7.494 miles of Secondary State Highway No. 3-A in Yakima County, ALFALFA TO SATUS, FAS No. S-0268(7), involving about 4,810 cubic yards of Maintenance Rock and Crushed Cover Stone, 316 tons of Asphalt Cement, 19,515 tons of Asphaltic Concrete, 815 cubic yards of Mineral Aggregate and other items.

Surfacing with Light Bituminous Surface Treatment and Paving with Type I-1 Asphaltic Concrete on 17.194 miles of Primary State Highways Nos. 10 and 2 in Douglas and Okanogan Counties, TONASKET TO ELLISFORD, ET AL, FAP Nos. F-029-2(11), F-028-2(5), F-030-1(11) and State Project, involving about 12,970 tons of Crushed Stone Surfacing and Crushed Cover Stone, 526 tons of Asphalt Cement, 12,290 tons of Asphaltic Concrete and other items.

Clearing, Draining, Grading and Surfacing with Screened Gravel on 2.500 miles of a Jefferson County Road, QUILCENE-CENTER ROAD, FAS No. S-0497(4), involving about 17 acres of Clearing, 55,130 cubic yards of Unclassified Excavation, 20,960 cubic yards of Selected Roadway Borrow, 3,500 cubic yards of Screened Gravel Surfacing, 804 linear feet of Concrete Pipe, 60 linear feet of Galvanized Iron Pipe and other items.

Draining, Grading, Surfacing, Paving with Type I-1 Asphaltic Concrete and Installing Traffic Signals on 0.429 mile of a Pierce County Road, JCT. GRAVELLY LAKE DRIVE AND BRIDGEPORT WAY, FAS No. S-0547(1), involving about 3,840 cubic yards of Unclassified Excavation, 4,250 cubic yards of Ballast and Crushed Stone Surfacing, 3,180 tons of Asphaltic Concrete, 1,040 linear feet of Cement Concrete Curb and Gutter, 2,450 linear feet of Precast White Reflecting Curb, 6 cubic yards of Concrete, 1,536 linear feet of Concrete Pipe, 2.5 miles of Traffic Line Painting, a lump sum bid for Installation of Traffic Signals and other items.

Clearing, Draining, Grading and Surfacing with Selected Roadway Borrow on 0.862 mile of a Pend Oreille County Road, IONE-SULLIVAN LAKE ROAD, FAS No. S-0547(6), involving about 43,390 cubic yards of Unclassified Excavation,, 1,840 cubic yards of Selected Roadway Borrow, 156 linear feet of Corrugated Metal Pipe and other items.

Surfacing with Light Bituminous Surface Treatment on 6.390 miles of a Douglas County Road, LEAHY NORTH ROAD, FAS No. S-1125(1), involving about 10,400 cubic yards of Selected Roadway Borrow, 8,500 cubic yards of Crushed Stone Surfacing and Crushed Cover Stone, 260 tons of Asphalt Cement and other items.

Constructing Type F Bituminous Surface Treatment Plant Mix on 3.918 miles of a Snohomish County Road, WOODS CREEK-LAKE ROESIGER ROAD, FAS No. S-0321(1), involving about 5,250 tons of Plant Mix, 700 cubic yards of Crushed Stone Surfacing and other items.

Grading, Surfacing with Light Bituminous Surface Treatment and Paving with Type I-1 Asphaltic Concrete on 4.292 miles of Primary State Highway No. 1 in Whatcom County, BELLINGHAM TO FERNDALE, a State Project, involving about 11,000 cubic yards of Common Excavation, 5,000 cubic yards of Sand Borrow, 22,660 linear feet of Reconstructing Roadway Ditches, 22,530 tons of Selected Roadway Borrow, 7,820 tons of Crushed Stone Surfacing, 103 tons of Asphalt Cement, 870 cubic yards of Crushed Cover Stone and Mineral Aggregate, 9,470 tons of Asphaltic Concrete and other items.

Surfacing with Light Bituminous Surface Treatment and Paving with Type I-1 Asphaltic Concrete on 5.586 miles of Secondary State Highway No. 1-I in Snohomish County, JUNCTION PSH NO. 1 TO MUKILTEO, a State Project, involving about 4,630 tons of Crushed Stone Surfacing, 122 tons of Asphalt Cement, 955 cubic yards of Crushed Cover Stone and Mineral Aggregate, 7,390 tons of Asphaltic Concrete, 1,500 linear feet of Asphaltic Shoulder Curb and other items.

Surfacing with Light Bituminous Surface Treatment and Constructing Non-Skid Single Seal Treatment on 113.42 miles of State Highways Nos. 7-C, 2, 7, 10-C and 11-G in Adams, Chelan, Douglas and Grant Counties, VANTAGE TO OTHELLO, ET AL, a State Project, involving about, 1,801 tons of Asphalt Cement, 23,145 cubic yards of Mineral Aggregates and Crushed Cover Stone and other items.

Constructing Non-Skid Single Seal Treatment on 55.98 miles of State Highways Nos. 11, 11-F, and 2-G and 3-H in Lincoln, Adams and Spokane Counties, FRANKLIN COUNTY LINE TO HATTON COULEE, ET AL, a State Project, involving about 790 tons of Asphalt Cement, 9,650 cubic yards of Mineral Aggregates and 45 M gallons of Water.

Stockpiling Maintenance Rock, Sand and Mineral Aggregates on Primary State Highway No. 15 in King and Snohomish Counties, GROTTO AND GOLD BAR VICINITIES, a State Project, involving about 38,000 tons of Crushed Materials, 15,000 tons of Sand and other items.

Federal funds have been allocated for items nos. 1 to 11, inclusive.

All bid proposals shall be accompanied by a bid proposal deposit in cash, certified check, cashier's check or surety bond in an amount equal to five per cent (5%) of the amount of such bid proposal. Should the successful bidder fail to enter into such contract and furnish satisfactory performance bond within the time stated in the specifications, the bid proposal deposit shall be forfeited to the State of Washington.

Prequalification of bidders is required. Maps, plans and specifications may be obtained from this office upon written request therefor and payment to the Director of Highways by cash, certified check, cashier's check or money order in the sum of two dollars ($2.00) for each copy of such maps, plans and specifications as a rental for the use of them. Plans will be forwarded by First Class Mail.

Informational copies of maps, plans and specifications are on file in the office of the County Engineer of the County in which the work is situated, the Chapter offices of the Associated General Contractors of America in Seattle, Spokane, Tacoma and Portland and the offices of the District Engineers of the Department of Highways where they may be inspected.

E. C. HUNTLEY, Chairman
W. A. BUGGE, Director of Highways

5426—4-14, 21

HIGH SCHOOL
BIDS CLOSE 5:30 P. M., MAY 2
Longview, Washington
ADVERTISEMENTS FOR BIDS

NOTICE TO CONTRACTORS:

Sealed bids will be received by Longview School District No. 122 at the District's Administration Offices, Longview, Washington, until 5:30 p. m., Wednesday, May 2, 1956, for (a) the General Contract, (b) the Mechanical Contract, (c) the Electrical Contract, separately, for the construction of a High School Building for Longview School District No. 122.

BID OPENING:

Bids will be opened publicly at the above stated time and place, and read aloud. Bids received after the time set for opening cannot be considered. Bidders and others properly interested are invited to be present at the bid opening.

BID DOCUMENTS:

Specifications, including bid and contract documents, and drawings, may be examined at the office of the Architect, McGuire & Muri, 231 Broadway, Tacoma, Washington, and at offices of the Associated General

Contractors, Seattle, Washington, and Portland, Oregon, and may be obtained at the Architect's office upon deposit of $50.00 for each general contract set and $25.00 for each mechanical or electrical set.

REFUND OF DEPOSITS:

The full amount of deposit for one set of documents will be refunded to bona fide bidders upon return of the documents in good condition to the Architect's office at or before the time set for opening bids. Other deposits will be refunded with deductions for the actual cost of reproducing the documents, under the same conditions.

BID GUARANTEE:

Each bid must be accompanied by a certified check, a bank cashier's check, or a bid bond issued by a bonding company licensed to do business in the locality of the project, in form furnished by the Architect, in an amount not less than five percent of the Base Bid, plus additive alternates.

WITHDRAWAL OF BIDS:

No bid may be withdrawn after the time set for the opening thereof unless and until award of contract is delayed for a period exceeding thirty days.

OWNER'S RIGHT TO REJECT BIDS:

The right is reserved to reject any or all bids, and to waive informalities.

BY ORDER OF LONGVIEW SCHOOL DISTRICT No. 122,
By Corrine Miles,
Clerk.

5421—4-4, 11, 18

LATERALS
BIDS CLOSE MAY 8
Lindsay, California
NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-4663) will be received at Lindsay, California, until May 8, 1956, for furnishing labor and materials for Shafter - Wasco Laterals and Sublaterals, Unit 1, Lateral 134.4 Station 249/54 to Station 573/19, Shafter-Wasco Irrigation District, Friant-Kern Canal Distribution System, Central Valley Project, California. Location near Wasco, California. Principal items are earthwork for and furnishing and installing about 48 miles of precast concrete pipe lines. Pipe diameters vary from 12 to 66 inches with option for installation of asbestos-cement pipe for pipe diameters of 24 inches or less; furnishing and installing 335 gate valves, 50 linemeters, and 184 vertical flowmeters; and other work. Completion time 600 days. For particulars, address Bureau of Reclamation, P. O. Box 525, Lindsay, California; or Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.

5415—4-7

STREET AND SEWER IMPROVEMENTS
BIDS CLOSE 10 A. M., P.S.T., MAY 23
Juneau, Alaska
NOTICE TO CONTRACTORS

Project Aaa. 50-A-146-V, Street and Sewer Improvements, Juneau, Alaska, April 12, 1956. Name and Location of Project: Street and Sewer Improvements, Project Aaa. 50-A-146, Section V, Juneau, Alaska. Department or Agency: Alaska Public Works, Office of Territories, Department of the Interior. By (Issuing office): John D. Argetsinger, Acting Director, Alaska Public Works, Office of Territories, Department of the Interior, Post Office Box 1181, Juneau, Alaska. Sealed bids in single copy for furnishing all labor, equipment, and materials and performing all work for the project described herein will be received until 10:00 A. M., Pacific Standard Time, May 23, 1956, in the mailroom of the Office of the Acting Director, Alaska Public Works, Office of Territories, Department of the Interior, 123 West Third Street, P. O. Box 1181, Juneau, Alaska, and then publicly opened, and read aloud. Information regarding bidding material, bid guarantee, and bonds follows: Plans and specifications and other proposed contract documents are open for public inspection at the Acting Director's office, Juneau, Alaska; at Room 2723 Interior Building, Washington 25, D. C., and Associated General Contractors of America offices as follows: Seattle Chapter, Construction Center, 215 West Harrison St., Seattle, Wash.; Mountain Chapter, 220 West Harrison St., Seattle, Wash.; Tacoma Chapter, 452 St. Helens Ave., Tacoma, Wash., Portland Chapter, Suite 112, Multnomah Hotel, Portland, Oregon; and the Alaska Chapter, 306 Central Bldg., Anchorage, Alaska; at the Plan Bureau, 2413 Western Ave., Seattle, Wash.; and Builders Exchange Cooperative, 317 Builders Exchange Bldg., Portland, Oregon. A set of such documents may be procured from the office of the Director at Juneau, Alaska, upon deposit of $25.00, all of which will be refunded upon the return of the plans and specifications in good condition within twenty (20) days from date of bid opening. Each bid must be accompanied by a satisfactory bid security (certified check or bid bond) in an amount not less than 5 percent of the total bid in dollars and cents. No bid will be withdrawn until thirty days after the scheduled closing date for the receipt of bids. The successful bidder will be required to furnish a performance bond and payment bond, each in the amount of 100 per cent of the contract price. The Government reserves the right to award a contract for the project on the basis of the acceptance of any or all of the alternates, whichever course is in the best interest of the Government. DESCRIPTION: Project Aaa. 50-A-146, Section V, Street and Sewer Improvements, Juneau, Alaska. The project consists of the following items of work: Removing existing structures—Lump Sum, concrete manholes—10 each, concrete catch basins—10 each, 6" sewer pipe—186 l.f., 8" sewer pipe—340 l.f., 10" sewer pipe—608 l.f., 12" sewer pipe—253 l.f., 16" sewer pipe—519 l.f., 8" BTCMP—24 l.f., concrete encasement, 10 c.y. borrow excavation — 550 c.y., unclassified excavation — 50 c.y., concrete sidewalks — 1,176 s.f., concrete stairs—616 s.f., 1½" pipe handrail—419 l.f., concrete curb—565 l.f., concrete footing—35 c.y., concrete retaining walls 43 c.y., concrete cribbing—228 s.f. Six priorities are involved in the above mentioned quantities and only that portion of the work will be awarded which is within the funds available at the time of award.

5432—4-21, 28; 5-5

SCHOOL ADDITION, ALTERATIONS
BIDS CLOSE 2 P. M., APRIL 24
Millwood, Washington
NOTICE TO CONTRACTORS

Sealed bids will be received by the undersigned at the office of George M. Rasque and Son, Architects, in the Washington Trust Building at Spokane, Washington, up to 2:00 P. M., April 24, 1956, for construction of an addition and alterations to the Orchard Center Elementary School, School District No. 143, Millwood, Washington, and will then and there be opened and publicly read aloud in his office. Bids received after the time for opening will not be considered.

Plans and Specifications may be obtained from the office of George M. Rasque & Son, Washington Trust Building, Spokane, Washington, upon deposit of $25.00, which sum will be returned to the bidder provided plans are returned in good condition with submitted bid, or provided plans are returned within 6 days after issued if no bid is to be submitted.

The character and amount of security to be furnished by each bidder is stated in the specifications.

The Board of Directors reserves the right to reject any or all bids or to accept the proposal deemed best for the District and to waive informalities.

Board of Directors,
School District No. 143
Millwood, Washington

5431—4-19, 20, 21

PIPELINES, STORAGE TANK
BIDS CLOSE MAY 3
Bridgeport, Washington
NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-4671) will be received at Bridgeport, Washington, until May 3, 1956, for furnishing labor and materials for Bridgeport Bar Pumping Plants and Distribution System, Bridgeport Bar Irrigation District, Foster Creek Division, Chief Joseph Dam Project, Washington. Location near Bridgeport, Washington. Principal items are 5,5[illegible] cu. yds excavation and backfill of pipe trenches; 7,500 cu. yds. excavation for Bar Area Pumping Plant; 23,050 lin. ft. furnishing and installing 4-inch to 24-inch diameter steel pipe in distribution system; furnishing and erecting steel water storage tank; and other work. Completion time 320 days. For particulars, address Bureau of Reclamation, P. O. Box 937, Boise, Idaho; or Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.

5412—4-7

POST OFFICE, COURTHOUSE
BIDS CLOSE 3 P.M., P.S.T., MAY 8
Nome, Alaska
NOTICE TO CONTRACTORS

Sealed bids for construction of the U. S. Post Office & Court House, Nome, Alaska, will be received until 3:00 P.M., Pacific Standard Time, May 8, 1956 in Rm. 12[illegible] Federal Office Bldg., 909 First Ave., Seattle 4, Washington. Three sets of bidding material may be obtained without deposit; additional sets require $50.00 deposit each. Request should be made to the Deputy Regional Director, P.B.S., General Services Administration at the above address or Public Building Service, Rm. 1304 General Services Bldg., 19th & F Sts., N.W., Washington 25, D. C. Fred S. Poorman, Deputy Commissioner of Public Buildings, General Services Administration.

5418—4-7

SEWAGE TREATMENT PLANT
BIDS CLOSE 2 P. M., APRIL 26
Medical Lake, Washington
NOTICE TO CONTRACTORS

Sealed bids will be received by John B. Firmin, Supervising Engineer, Department of Institutions, at the Superintendent's office at Eastern State Hospital, Medical Lake, Washington, up to 2 p. m., April 26, 1956, for the furnishing materials and equipment for and the construction of a Sewage Treatment Plant for Eastern State Hospital.

Plans and Specifications including Contract Documents, Information to Bidders and Bid Forms may be examined at the office of Walter L. Woodward, Consulting Engineer, Empire State Building Spokane, Washington, and may be obtained there upon deposit of $25.00 per set. Plans and Specifications are on file at the following places:

Construction Council, W. 933 Third Ave., Spokane, Wash.; AGC Builders Chapter, N. 1207 Washington St., Spokane, Wash.; Associated General Contractors, N. 18[illegible] Stevens, Spokane, Wash.; Associated General Contractors, 215 W. Harrison St., Seattle, Wash.; Plan Bureau, 2413 Western Ave., Seattle, Wash.

The full amount of the deposit will be refunded to actual bidders upon return, in good condition, unmarked, within 10 days after opening date. Other deposits will be refunded under the same conditions, deducting $10.00 to cover reproduction costs.

The Department of Institutions reserves the right to reject any or all bids or parts thereof and to waive informalities.

Department of Institutions.
John B. Firmin,
Supervising Engineer.

5420—4-7, 14

PUMPING UNITS
BIDS CLOSE MAY 15
Denver, Colorado
NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Invitation No. DS-4672) will be received at Denver, Colorado, until May 15, 1956, for furnishing motor-driven, horizontal, centrifugal-type pumping units as follows: two units each with capacity of 33.5 cfs at 57 foot head; two units each with capacity of 24 cfs at 131 foot head; and four units each with capacity of 20.5 cfs at 264 foot head for Frenchman Springs Pumping Plant, West Canal Laterals, Block 79, Columbia Basin Project, Washington. Delivery is desired within 330 days. For particulars, address Bureau of Reclamation, Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.

5414—4-14

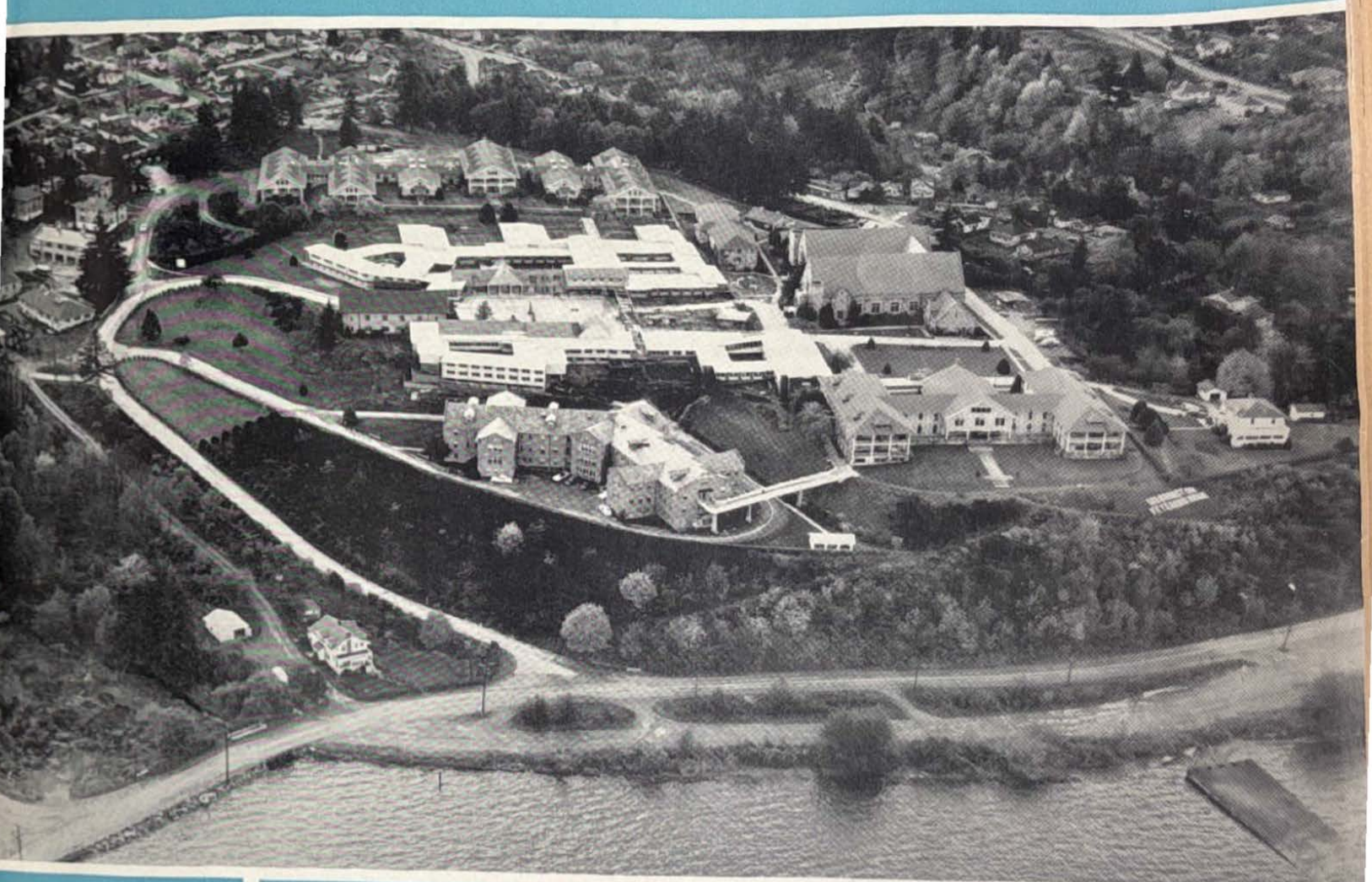
UNIVERSITY OF OREGON
DEC 6 1961
LIBRARY

Pacific Architect and Builder

May BPA 1956

50¢

WITH CONSTRUCTION NEWS BULLETIN



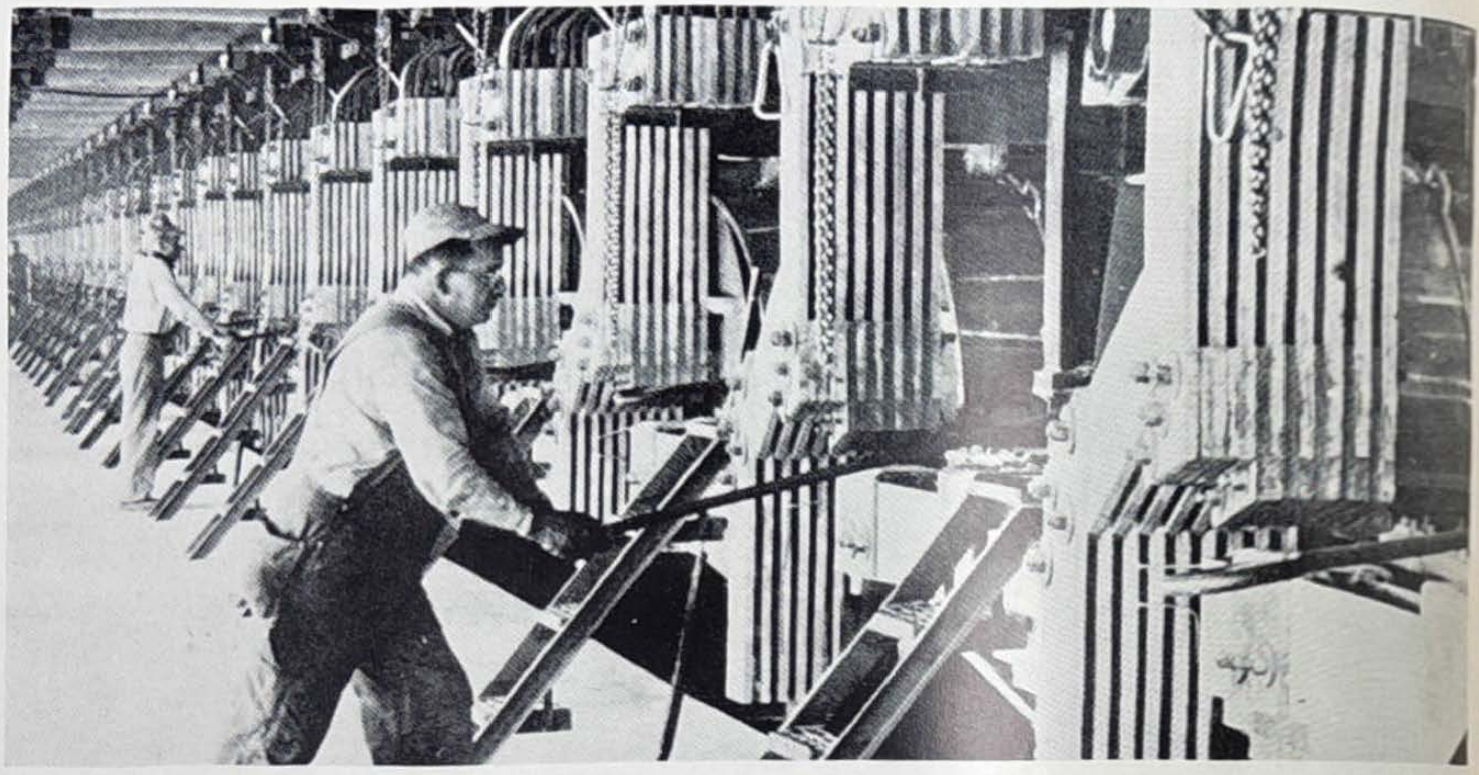
Published by
PACIFIC BUILDER
ND ENGINEER, Inc.
Established 1902

Village living for veterans' twilight years

Washington State Veterans' Home, Retsil, Wash.: aerial view shows new quarters in center of tract on Sinclair Inlet (p. 16). Victor N. Jones & Associates, architects.

Also in this issue: police headquarters, small bank, homelike medical building

ANOTHER EXAMPLE OF CARCO "One Stop" STEEL SERVICE



CARCO FABRICATED POTS AND POT CRADLES HELP ALCOA SMELT ALUMINUM

At Wenatchee, Washington, near low cost electric power, the Aluminum Company of America has invested millions of dollars in a large aluminum smelter.

The production of aluminum begins with the mining of bauxite, the only substance that, to date, has proved economical as a commercial source of this metal. After preliminary processing, the next major step occurs in alumina plants. Here, Alcoa removes the impurities from the ore, leaving a fine white powder which is a combination of aluminum and oxygen.

Alcoa separates the aluminum from the oxygen by an electrolytic smelting process. A direct electric current is passed through large smelting pots filled with molten cryolite in which alumina is dissolved. The passage of electricity through the solution causes aluminum to be deposited at the bottom of the pot while the oxygen is released as carbon dioxide gas.

The pots are deep rectangular shells of fabricated steel lined with carbon to serve as the cathode or negative pole. A row of the smelting pots, which are connected electrically in series, is called a potline.

Pure aluminum represents about one-fourth the weight of its basic ore, bauxite. It takes four pounds of bauxite to make two pounds of alumina. Likewise, the smelting of two pounds of alumina results in one pound of aluminum. Accordingly, Alcoa's large Wenatchee smelter must process over 400,000,000 pounds of alumina annually in order to produce the installed yearly capacity of 217,000,000 pounds of primary aluminum.

Pacific Car has fabricated steel not only for Alcoa's smelter at Wenatchee but also for their smelter and fabricating division at Vancouver, Washington. At Wenatchee, Carco fabricated the pots and pot cradles for Alcoa's recent $2,000,000 expansion of this smelter as well as hundreds of pot cradles for the older potlines. At Vancouver, Carco fabricated the structural steel for several of the buildings incorporated in Alcoa's large plant.

Whether your needs are small or large, let Carco help you solve your structural steel problems. Remember, Pacific Car offers not only the largest fabrication facilities in the Northwest but also a "one stop" steel service. This means money-saving ideas and suggestions, prompt engineering detail and estimates, fabrication and erection.

PACIFIC CAR AND FOUNDRY COMPANY

STRUCTURAL STEEL FABRICATION AND ERECTION, STEEL CASTINGS, FORGING, HEAT TREATING, MACHINING, HOT DIP GALVANIZING, TRACTOR EQUIPMENT: Winches, Hoists, Arches, Log Carts, Rigging.

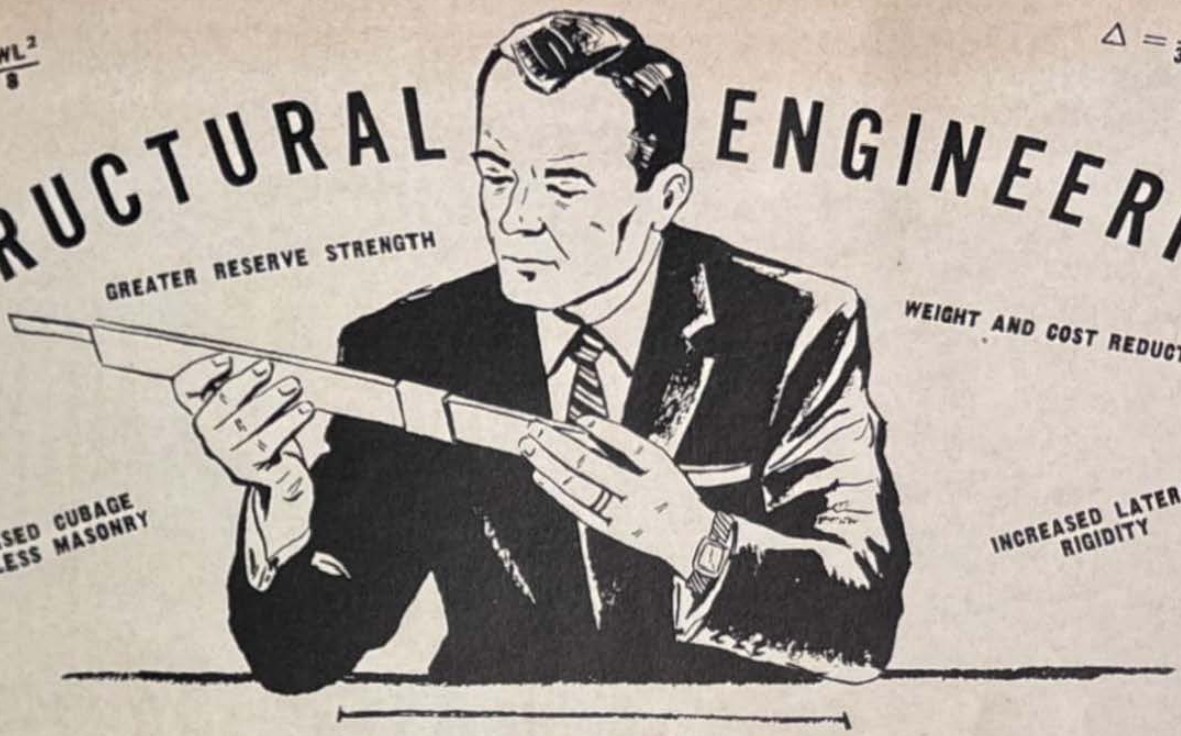
CARCO®

STRUCTURAL STEEL DIVISION—120 W. HUDSON—SEATTLE 4—RAinier 5355 MAIN PLANT AND OFFICES—RENTON, WASHINGTON—OLive 4511

$M = \frac{WL^2}{8}$

$\Delta = \frac{5WL^4}{384\,EI}$

STRUCTURAL ENGINEERING



HAS A NEW STANDARD OF PERFORMANCE

IN THE STRONGER, LIGHTER, MORE RUGGED

MACOMBER V-BEAM



JUST WRITE V-BEAM ACROSS YOUR LETTERHEAD

PRODUCT ACCEPTANCE in structural engineering is based upon FACT.

1. WHO makes it? 2. WHAT will it do? 3. What are its STRUCTURAL advantages? 4. WILL it actually lower construction costs? 5. What is your performance PROOF?

HERE ARE YOUR ANSWERS: This MACOMBER product is the culmination of 40 years of structural product engineering. It was designed to support floors and roofs with a lighter, shallower structural member whose ultimate strength is over twice its published carrying capacity. In addition to the fact this member weighs less and costs less, it has the time and labor saving NAILABLE feature in both top and bottom chords. And lastly—every size in the various spans was load tested by Pittsburgh Testing Laboratory. YES! The phenomenal success of V-BEAMS is based upon fact. You can specify this structural member with complete confidence.

STANDARDIZED STEEL BUILDING PRODUCTS

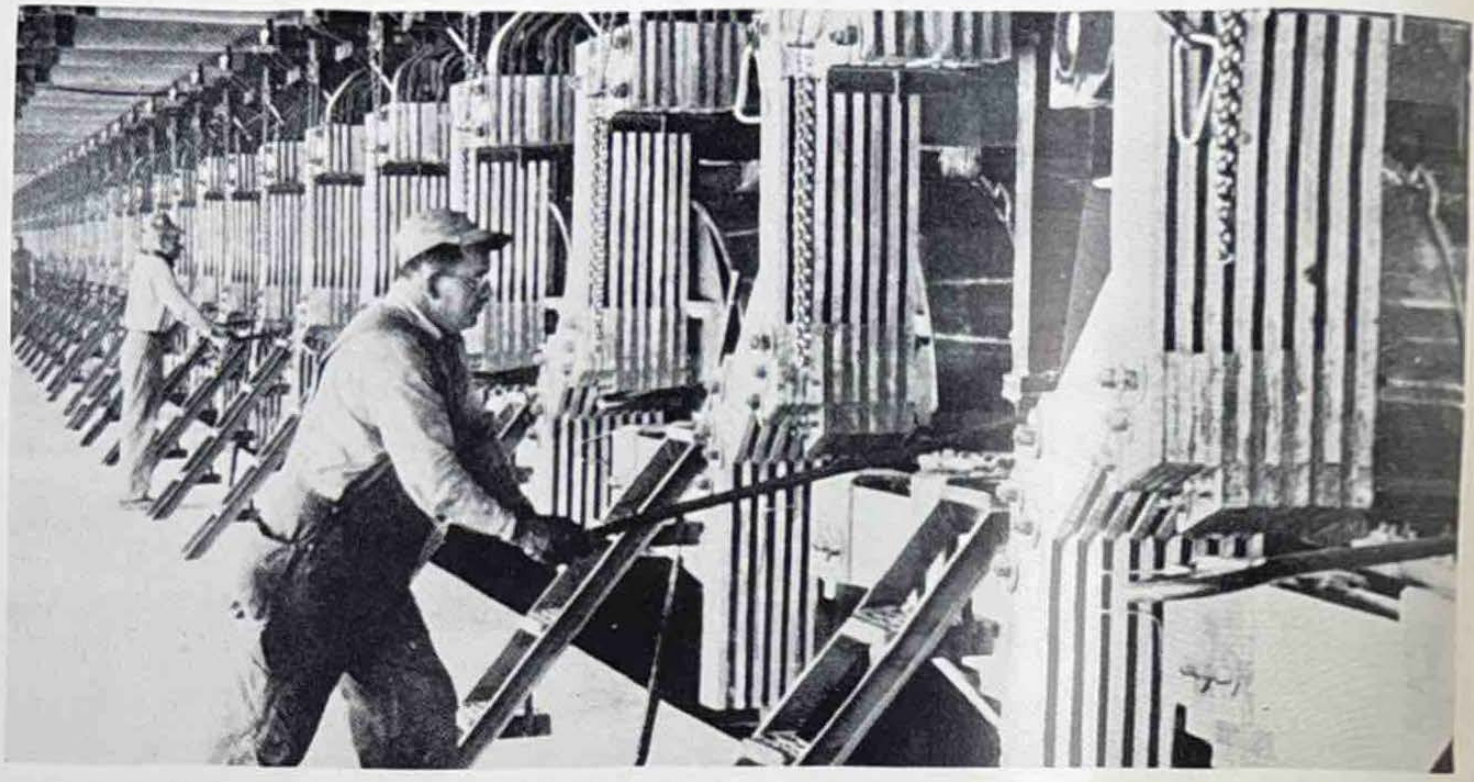
MACOMBER INCORPORATED

CANTON 1, OHIO

• ENGINEERING • FABRICATING AND ERECTING •

NAILABLE STEEL JOISTS
•
LONGSPANS
•
BOWSTRING ROOF TRUSSES
•
METAL DECK
•
V-LOK STEEL FRAMING
•
STRUCTURALS

ANOTHER EXAMPLE OF CARCO "One Stop" STEEL SERVICE



CARCO FABRICATED POTS AND POT CRADLES HELP ALCOA SMELT ALUMINUM

At Wenatchee, Washington, near low cost electric power, the Aluminum Company of America has invested millions of dollars in a large aluminum smelter.

The production of aluminum begins with the mining of bauxite, the only substance that, to date, has proved economical as a commercial source of this metal. After preliminary processing, the next major step occurs in alumina plants. Here, Alcoa removes the impurities from the ore, leaving a fine white powder which is a combination of aluminum and oxygen.

Alcoa separates the aluminum from the oxygen by an electrolytic smelting process. A direct electric current is passed through large smelting pots filled with molten cryolite in which alumina is dissolved. The passage of electricity through the solution causes aluminum to be deposited at the bottom of the pot while the oxygen is released as carbon dioxide gas.

The pots are deep rectangular shells of fabricated steel lined with carbon to serve as the cathode or negative pole. A row of the smelting pots, which are connected electrically in series, is called a potline.

Pure aluminum represents about one-fourth the weight of its basic ore, bauxite. It takes four pounds of bauxite to make two pounds of alumina. Likewise, the smelting of two pounds of alumina results in one pound of aluminum. Accordingly, Alcoa's large Wenatchee smelter must process over 400,000,000 pounds of alumina annually in order to produce the installed yearly capacity of 217,000,000 pounds of primary aluminum.

Pacific Car has fabricated steel not only for Alcoa's smelter at Wenatchee but also for their smelter and fabricating division at Vancouver, Washington. At Wenatchee, Carco fabricated the pots and pot cradles for Alcoa's recent $2,000,000 expansion of this smelter as well as hundreds of pot cradles for the older potlines. At Vancouver, Carco fabricated the structural steel for several of the buildings incorporated in Alcoa's large plant.

Whether your needs are small or large, let Carco help you solve your structural steel problems. Remember, Pacific Car offers not only the largest fabrication facilities in the Northwest but also a "one stop" steel service. This means money-saving ideas and suggestions, prompt engineering detail and estimates, fabrication and erection.

PACIFIC CAR AND FOUNDRY COMPANY

STRUCTURAL STEEL FABRICATION AND ERECTION, STEEL CASTINGS, FORGING, HEAT TREATING, MACHINING, HOT DIP GALVANIZING, TRACTOR EQUIPMENT: Winches, Hoists, Arches, Log Carts, Rigging.

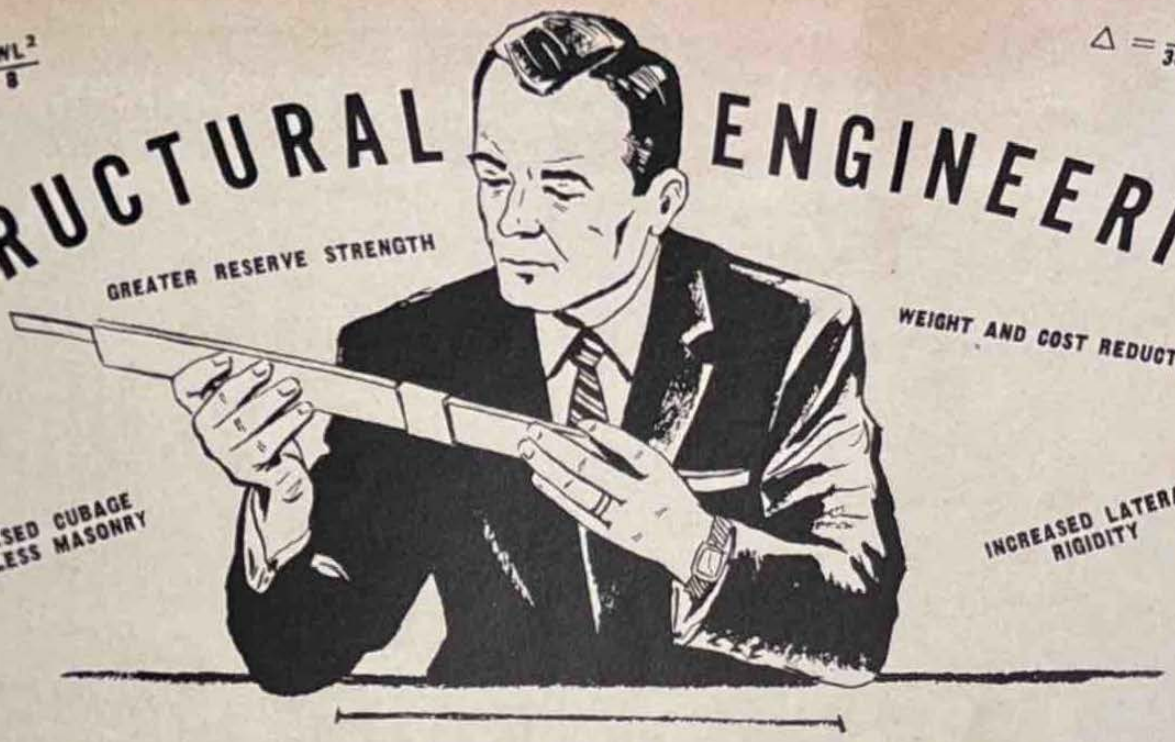
CARCO®

STRUCTURAL STEEL DIVISION—120 W. HUDSON—SEATTLE 4—RAinier 5355 MAIN PLANT AND OFFICES—RENTON, WASHINGTON—OLive 4511

$M = \frac{WL^2}{8}$

$\Delta = \frac{5WL^4}{384\,EI}$

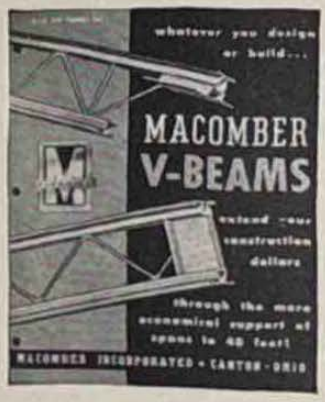
STRUCTURAL ENGINEERING



HAS A NEW STANDARD OF PERFORMANCE

IN THE STRONGER, LIGHTER, MORE RUGGED

MACOMBER V-BEAM



JUST WRITE V-BEAM ACROSS YOUR LETTERHEAD

PRODUCT ACCEPTANCE in structural engineering is based upon FACT.

1. WHO makes it? 2. WHAT will it do? 3. What are its STRUCTURAL advantages? 4. WILL it actually lower construction costs? 5. What is your performance PROOF?

HERE ARE YOUR ANSWERS: This MACOMBER product is the culmination of 40 years of structural product engineering. It was designed to support floors and roofs with a lighter, shallower structural member whose ultimate strength is over twice its published carrying capacity. In addition to the fact this member weighs less and costs less, it has the time and labor saving NAILABLE feature in both top and bottom chords. And lastly—every size in the various spans was load tested by Pittsburgh Testing Laboratory. YES! The phenomenal success of V-BEAMS is based upon fact. You can specify this structural member with complete confidence.

STANDARDIZED STEEL BUILDING PRODUCTS

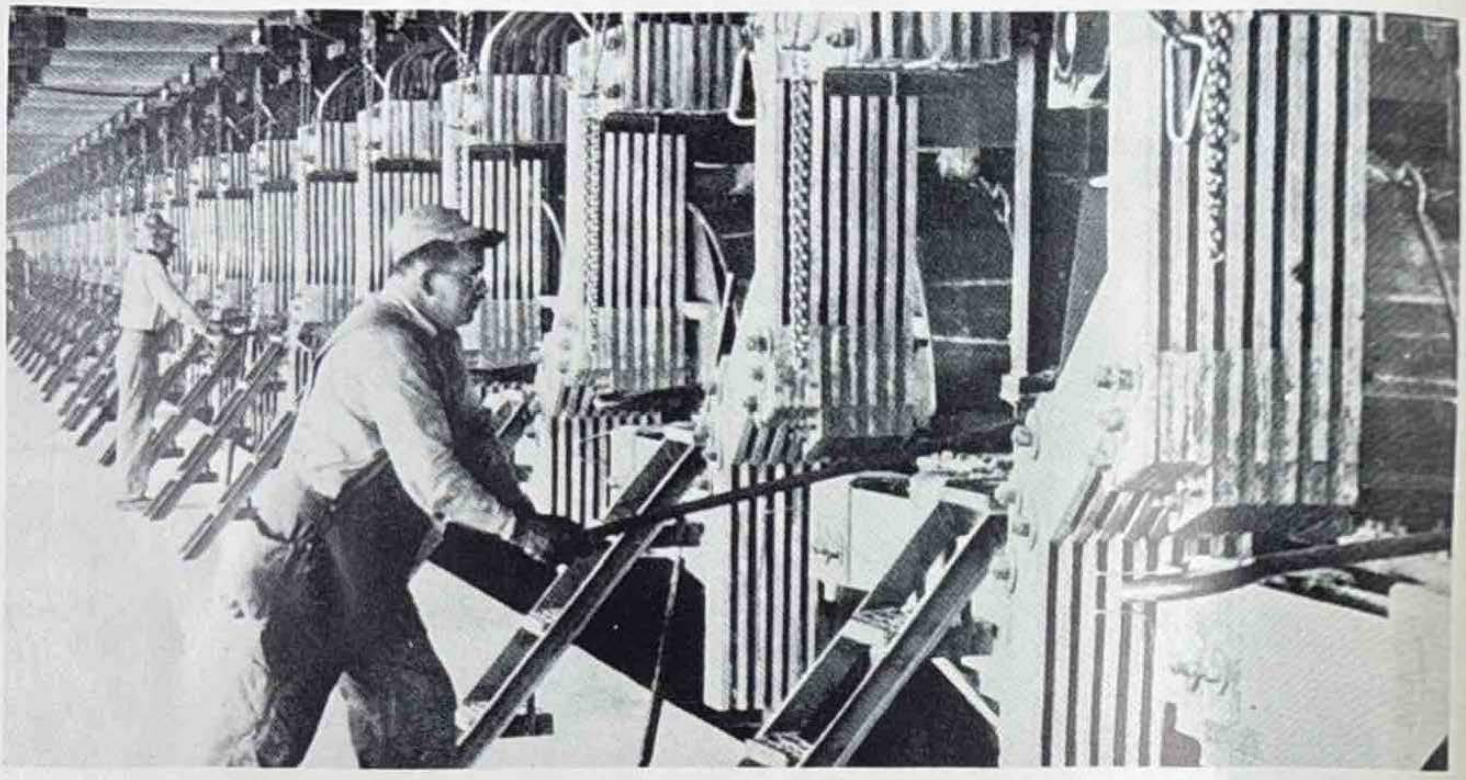
MACOMBER INCORPORATED

CANTON 1, OHIO

• ENGINEERING • FABRICATING AND ERECTING •

NAILABLE STEEL JOISTS
•
LONGSPANS
•
BOWSTRING ROOF TRUSSES
•
METAL DECK
•
V-LOK STEEL FRAMING
•
STRUCTURALS

ANOTHER EXAMPLE OF CARCO "One Stop" STEEL SERVICE



CARCO FABRICATED POTS AND POT CRADLES HELP ALCOA SMELT ALUMINUM

At Wenatchee, Washington, near low cost electric power, the Aluminum Company of America has invested millions of dollars in a large aluminum smelter.

The production of aluminum begins with the mining of bauxite, the only substance that, to date, has proved economical as a commercial source of this metal. After preliminary processing, the next major step occurs in alumina plants. Here, Alcoa removes the impurities from the ore, leaving a fine white powder which is a combination of aluminum and oxygen.

Alcoa separates the aluminum from the oxygen by an electrolytic smelting process. A direct electric current is passed through large smelting pots filled with molten cryolite in which alumina is dissolved. The passage of electricity through the solution causes aluminum to be deposited at the bottom of the pot while the oxygen is released as carbon dioxide gas.

The pots are deep rectangular shells of fabricated steel lined with carbon to serve as the cathode or negative pole. A row of the smelting pots, which are connected electrically in series, is called a potline.

Pure aluminum represents about one-fourth the weight of its basic ore, bauxite. It takes four pounds of bauxite to make two pounds of alumina. Likewise, the smelting of two pounds of alumina results in one pound of aluminum. Accordingly, Alcoa's large Wenatchee smelter must process over 400,000,000 pounds of alumina annually in order to produce the installed yearly capacity of 217,000,000 pounds of primary aluminum.

Pacific Car has fabricated steel not only for Alcoa's smelter at Wenatchee but also for their smelter and fabricating division at Vancouver, Washington. At Wenatchee, Carco fabricated the pots and pot cradles for Alcoa's recent $2,000,000 expansion of this smelter as well as hundreds of pot cradles for the older potlines. At Vancouver, Carco fabricated the structural steel for several of the buildings incorporated in Alcoa's large plant.

Whether your needs are small or large, let Carco help you solve your structural steel problems. Remember, Pacific Car offers not only the largest fabrication facilities in the Northwest but also a "one stop" steel service. This means money-saving ideas and suggestions, prompt engineering detail and estimates, fabrication and erection.

PACIFIC CAR AND FOUNDRY COMPANY

STRUCTURAL STEEL FABRICATION AND ERECTION, STEEL CASTINGS, FORGING, HEAT TREATING, MACHINING, HOT DIP GALVANIZING, TRACTOR EQUIPMENT: Winches, Hoists, Arches, Log Carts, Rigging.

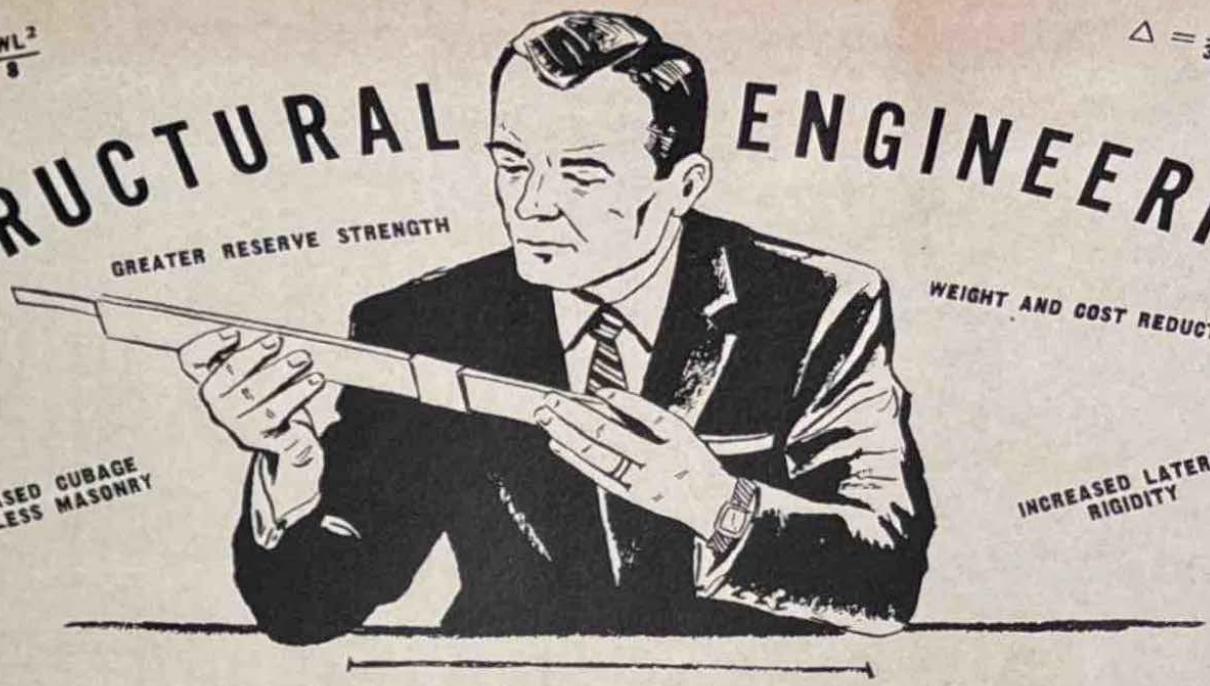
CARCO®

STRUCTURAL STEEL DIVISION—120 W. HUDSON—SEATTLE 4—RAinier 5355 MAIN PLANT AND OFFICES—RENTON, WASHINGTON—OLive 4511

$M = \frac{WL^2}{8}$

$\Delta = \frac{5WL^4}{384\,EI}$

STRUCTURAL ENGINEERING



HAS A NEW STANDARD OF PERFORMANCE

IN THE STRONGER, LIGHTER, MORE RUGGED

MACOMBER V-BEAM



JUST WRITE V-BEAM ACROSS YOUR LETTERHEAD

PRODUCT ACCEPTANCE in structural engineering is based upon FACT.

1. WHO makes it? 2. WHAT will it do? 3. What are its STRUCTURAL advantages? 4. WILL it actually lower construction costs? 5. What is your performance PROOF?

HERE ARE YOUR ANSWERS: This MACOMBER product is the culmination of 40 years of structural product engineering. It was designed to support floors and roofs with a lighter, shallower structural member whose ultimate strength is over twice its published carrying capacity. In addition to the fact this member weighs less and costs less, it has the time and labor saving NAILABLE feature in both top and bottom chords. And lastly—every size in the various spans was load tested by Pittsburgh Testing Laboratory. YES! The phenomenal success of V-BEAMS is based upon fact. You can specify this structural member with complete confidence.

STANDARDIZED STEEL BUILDING PRODUCTS

MACOMBER INCORPORATED

CANTON 1, OHIO

• ENGINEERING • FABRICATING AND ERECTING •

NAILABLE STEEL JOISTS
•
LONGSPANS
•
BOWSTRING ROOF TRUSSES
•
METAL DECK
•
V-LOK STEEL FRAMING
•
STRUCTURALS

IF IT'S A KAISER PRODUCT...YOU KNOW IT'S THE BEST

a famous name
for finest quality



KAISER GYPSUM PRODUCTS

are manufactured in accordance with all existing Federal and ASTM specifications, under strict laboratory control. Our technical consultants are always available to suggest or recommend construction techniques, new methods of application, or specific job requirements involving any Kaiser Gypsum Product.

integrity | economy | service

KAISER GYPSUM
COMPANY, INC.
LOS ANGELES · OAKLAND · SEATTLE

Pacific Architect and Builder

MAY EPA 1956

WITH CONSTRUCTION NEWS BULLETIN

VOLUME 62 NUMBER 5

Published by
Pacific Builder and Engineer, Inc.
Established 1902

MAIN EDITORIAL AND BUSINESS OFFICE
2418 Third Ave., Seattle 1, Wash.
Phone MAin 0285

N. B. Chapin — President
John E. Miller — General Manager
Phyllis E. Forth — Production Manager
Robert G. Hitchens — Director of Business Services and Circulation
Frances Eggan — Circulation Manager
Alice Malloy — Asst. Circulation Manager

ADVERTISING
Main Office — Seattle
L. C. McDowell

MIDWEST ADVERTISING OFFICE
18300 James Couzens
Detroit 35, Mich. — Phone: Diamond 1-3333
Charles W. Crandall — Representative

CALIFORNIA EDITORIAL OFFICE
24 White St., San Francisco 9, Calif.
Phone GRaystone 4-8532
Ken MacDonald — Contributing Editor

PORTLAND EDITORIAL OFFICE
1109 S.W. Fourth Ave.—Phone CApitol 3-1229
Win Romtvedt — Portland News Manager



PA&B's Area

a Four Billion Dollar Building Market

Roscoe E. Laing — Editor Bob Koehler — Associate Editor
Anne Hecker, editorial assistant; Joan Storey, research assistant
D. F. McCormick, editor, Construction News Bulletin

CONTENTS

California: Architectural Grab Bag—*a guest editorial by Donald Beach Kirby, AIA* 8

Police Headquarters: All Facilities Under One Roof—Los Angeles 10

Integration of the Arts in Architecture—*by Joe Young* 15

Veterans' Home: Village Living for Their Twilight Years—Retsil, Wash. 16

Medical Office Building. Architectural Prescription—Homey Treatment—San Francisco 25

Bank of Apple Valley: Security, Dignity and Beauty—Apple Valley, Calif. 27

Building Methods: Corrugated Aluminum Sheeting Applied on Steel Frame Without Scaffolding 33

DEPARTMENTS

Perspectives 6

Trends—News—Views 7

Architectural Preview: Oregon's Architecture School 28

Building Permit Tabulation 30

T-square Talk 34

Materials, Products, Tools and Latest Literature 36

Builders and Suppliers Headlining the News 38

CONSTRUCTION NEWS BULLETIN

Building and Engineering News of the Pacific Northwest and Alaska 41

SUBSCRIPTION RATES—Payable in Advance

PACIFIC ARCHITECT AND BUILDER—3rd Saturday each month $4 one year; $6 two years; $7 three years. Canadian $5, $8, $10. Foreign $6, $10, $13. Single copies 50c. With CONSTRUCTION NEWS BULLETIN (2nd, 4th, 5th Sat.) $16, $24, $31, in U.S. and Alaska.

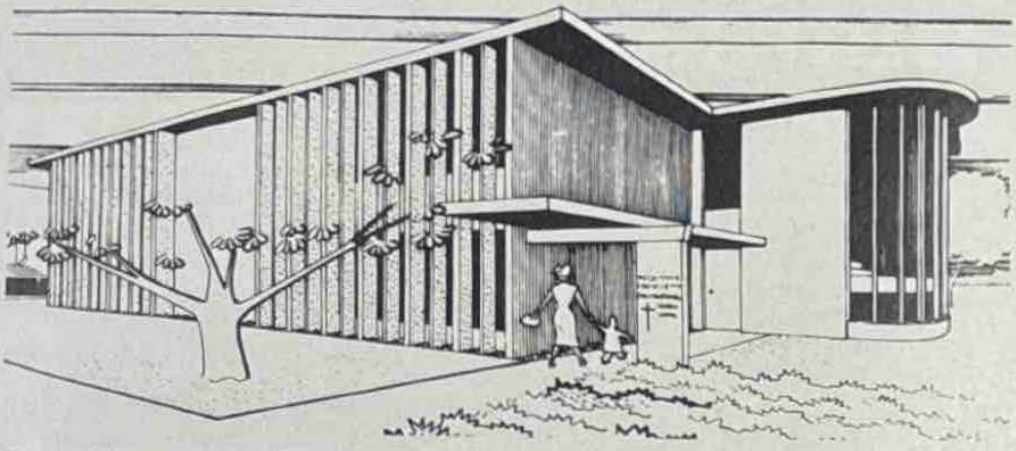
PACIFIC BUILDER AND ENGINEER—1st Saturday each month, $4 one year; $6 two years; $7 three years. Canadian $5, $8, $10. Foreign $6, $10, $13. Single copies 50c.

FOR NORTHWEST BUILDING AND ENGINEERING NEWS EVERY WEEK subscribe to all three (PA&B, PB&E, CNB) $20 one year; $30 two years; $38 three years. FOR FLASH ADVANCE DAILY SERVICE, read Pacific Construction Daily, $75 per year. Rates for U.S. and Alaska.

PACIFIC ARCHITECT AND BUILDER is published monthly by Pacific Builder and Engineer, Inc., 2418 Third Ave., Seattle 1, Wash., and is mailed on the third Saturday of each month. Price: $4, per year. Acceptance under P.L.&R. 34.64 authorized.

PERSPECTIVES

by Pacific architects

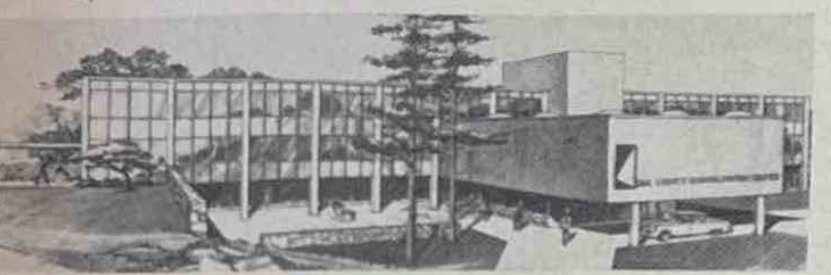


EDUCATIONAL UNIT ADDITION for Parkrose Community Congregational Church in Portland will be two-story structure with covered passageway to main building. Half of precast concrete fins, which will serve to shield light, will support second floor and roof. Building also will have some wood frame structural members, cedar siding, aluminum sash and flat, built-up roof. Warren Weber, AIA, has designed project.

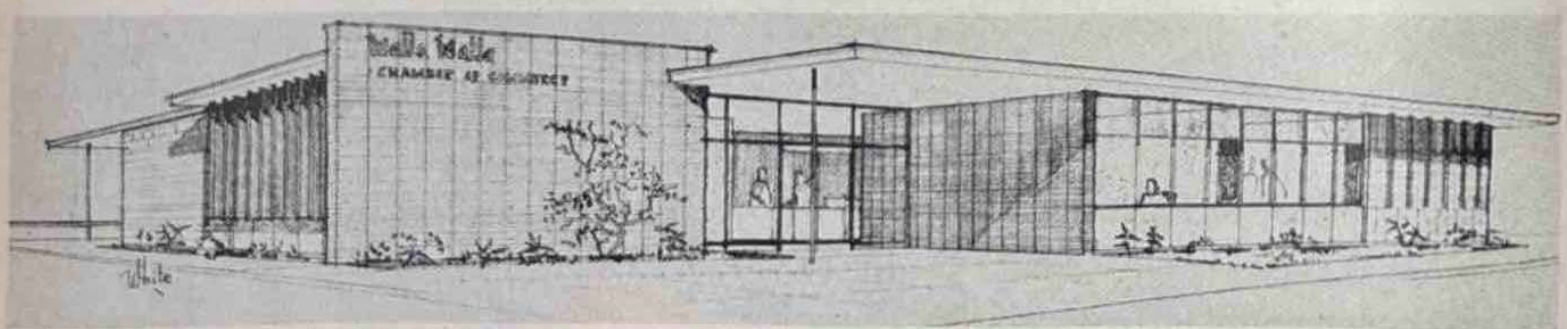


MULTIMILLION DOLLAR PLANT of Insley Manufacturing Corp. and its subsidiary, The Maxi Corp., is now under construction on 35-acre site in Puente, Calif. Adjacent to and south of Union Pacific main line, it is located on Turnbull Canyon Road. George Vernon Russell & Associates are architects for plant, where self-propelled cranes and shovel carriers will be made.

PROPOSED REHABILITATION CENTER planned by King County (Wash.) Society for Crippled Children. Several Seattle sites are being considered for building, for which preliminary plans have been prepared by Decker, Christenson & Kitchin, architects-engineers.



UPON COMPLETION of this $85,000 one-story building next October, Walla Walla (Wash.) Chamber of Commerce will move from leased quarters on top of city hall. To be built of expanded shale blocks, it will have brick exterior and 3,750 sq. ft. Architects are Harold Crawford, H. Brandt Gessel and Thomas O. Williams.



Building News - Trends - Views

A SAN FRANCISCO ARCHITECT, Arthur Brown Jr., AIA, has been named one of three chief advisers for the proposed multimillion dollar remodeling of the U.S. Capitol. The designer of San Francisco's City Hall, buildings at Stanford University and at the University of California and the Labor Department and Interstate Commerce buildings in Washington, D.C., will serve with architects John F. Harbeson of Philadelphia and Henry R. Shepley of Boston.

The proposed remodeling will extend the center of the Capitol forward under the dome and improve its proportions relative to the Senate and House wings, according to the project's proponents.

THE BEST LOCATION for Portland's $8 million exposition-recreation center is the South Auditorium site, its architects have declared. Skidmore, Owings & Merrill made their recommendation to the E-R Commission early this month after studying two other centrally located sites termed "feasible"—the Broadway-Steel Bridge and Buckman Field.

A PRIVATE BATH FOR EVERY BEDROOM someday may be commonplace for homes at every level of construction. Paul J. Doyle, president of the Associated Plumbing and Heating Contractors of Montana, told the annual convention in Butte last month that every member of a family should have the enjoyment and benefit of a bath of his own—even the children, with junior-sized fixtures that can be replaced at a later date with those of regulation size. "No one wants a single-bath home any more," Doyle declared. "That's one very good reason why so many older homes are hard to sell."

THE LOS ANGELES BOARD OF EDUCATION has voted to revise agreements with architects concerning re-use of construction drawings. Area school architectural fees formerly were 8% on projects costing up to $1.5 million and 6% for anything exceeding that amount. Where the school district furnished services, the percentages were reduced to 7 and 5%.

Under the new schedule, adopted in an effort to streamline the city's school building program, the compensation to architects will be at the rate of 8% on the first $1 million, 7% beyond that figure to $3 million and 6% for more than $3 million; school services will reduce the fees to 7, 6 and 5% respectively. Where drawings and the same architect are used to rebuild other structures, the fees will be 4, 3½ and 3%.

AIR FORCE ACADEMY BUILDING PLANS, with the exception of the controversial chapel, have been approved by Air Force Secretary Donald A. Quarles. The project will be built near Colrado Springs, Colo.

OREGON'S 1957 LEGISLATURE is expected to give considerable attention to a long-term construction program involving state institutions and higher education centers. The plan would provide a priority schedule so that buildings most needed would be given right of way over other work. Presently construction of state institution buildings is under jurisdiction of the State Board of Control, higher education buildings under the State Board of Education. The State Emergency Board has to approve construction before it can start.

At a recent meeting of the State Board of Control, Gov. Elmo Smith warned that he does not sanction approval of architects' plans for state buildings where the cost exceeds legislative appropriations.

SLUGGISH HOME BUILDING is expected to get a new shot in the arm from federal lawmakers as this year's major housing legislation starts on the bumpy road through Congress. A housing program for elderly persons is the only really new aspect anticipated in a catch-all bill, with stepped-up loans for servicemen and college dormitories thrown in for good measure.

A WORLD CONFERENCE on earthquake engineering will be held on the University of California campus at Berkeley June 12-16 to commemorate the 50th anniversary of the 1906 San Francisco disaster. The five-day meeting will be devoted to the presentation of technical papers on the latest design and construction practices in all the major seismic areas of the world.

A NEW METHOD OF CENTRAL SUMMER COOLING has proved to be economical and highly practical for homes heated by hot water or steam. Research at the University of Illinois shows that a cooling system split from the hot water heating system and operating on the so-called "liquid" or chilled water principle of cooling offers year-round conditioning at low cost. It does not interfere with or detract from heating quality and avoids the need for sheet metal duct work.

In the new cooling system a circuit of small piping is used to hook up a water chiller to a heavy duty forced convector, consisting of fan, coils and filter. The water chiller is placed in the basement, utility closet, outdoors or any other out-of-the-way location.

NORTHERN CALIFORNIA HOME BUILDERS played host last month to a visiting group of 13 Japanese home builders, contractors, engineers and architects who are touring the U.S. on a trip sponsored by the International Cooperation Administration. While in the Bay area they visited Marinwood and were shown some of the 4,000 homes now going up in the tract near San Rafael. Being built by Gerald G. Hoyt, the project is a $70 million investment and includes three schools, two shopping centers and parks.

The Japanese also will visit Phoenix, Kansas City, Chicago, Washington, D.C., and New York.



"HOMES FOR BETTER LIVING" AWARDS JURY meet to select best home designs from 343 entries in first annual AIA contest. Seated (l. t r.): Clarence Stein, FAIA, New York; L. Morgan Yost, AIA, Chicago; Joseph Haverstick, Dayton, Ohio, NAHB president; Neil Connor, director, Architectural Standards Division, FHA, Washington, D.C.; Earl Smith, NAHB past president, El Cerrito, Calif.; Miss Mary Hamman, modern living editor, Life magazine, New York. Standing: Peter Blake, architectural editor, House and Home, New York; Charles Goodman, AIA, Washington, D.C.; Pietro Belluschi, FAIA, dean, MIT School of Architecture and Planning; Worley R. Wong, AIA, San Francisco; P. I. Prentice, editor and publisher, House and Home, New York (jury chairman for merchant built houses); Paul Groesse, director of art and architecture for M-G-M, Culver City, Calif.; Proctor Mellquist, editor, Sunset magazine (jury chairman for custom built homes); Prof. H. L. Vaughn, chairman, department of landscape design, University of California at Berkeley.

CALIFORNIA: ARCHITECTURAL GRAB BAG



Guest Editor

DONALD BEACH KIRBY, AIA
San Francisco, California

This timely evaluation of California architecture has been written by a man who started his professional career in New York City, then moved to Los Angeles and now practices in San Francisco under the firm name of Donald Beach Kirby & Associates, architects-engineers. Long active in AIA affairs, his term as director of the California-Nevada-Hawaii Regional Council expires in 1957.

ARCHITECTS who live in California are lucky—no Gothic, no Cape Cod tradition to haunt them. With all architectural eyes on California at this moment of the national AIA convention in Los Angeles, it is timely to review this product of our creation.

California living is envied by thousands of persons who come here to see whether we do actually produce "Architecture for the Good Life" as advertised in the convention theme.

In general, California architecture has progressed. Design is being more thoroughly studied. We see less self-consciousness. There are examples of open planning, free design elements and inventiveness in structural form. Some structural solutions for large buildings have been translated into smaller work. But the cliches are still with us.

One encouraging trend is the increased use of fine arts in conjunction with architecture. Some architects are beginning to be aware of the advantages of integrating fine arts in their design, particularly in liturgical work. It will take a long time, however, before either architect or layman understands that integration of art and architecture is not just a building with frosting.

Why has design improved in California? There are signs around us to indicate that some laymen appreciate better design. A few home builders are merchandising design by registered architects. The AIA nationwide public relations program has brought slightly more acceptance of the architect. Material producers have encouraged the employment of the architect.

There is ample evidence of recognition of good work done in California. Our colleagues have selected for First Honor Awards in the national AIA program two California architects in a total of five; six out of the 14 awards of Merit also came to California.

California has won a lot of awards, this year, last year, and the year before; however, let us not be **SMUG.** Actually, they represent the creme de la creme: the top off the top. The fantastic volume of building in California is not **all** well designed. Much of it is ghastly, some mediocre, a mere handful distinguished. What is the truth?

The truth is that very few merchant builders are actually working with architects. Lots of tracts are going up based on carpenter-draftsman's rehash of design and well worn floor plans. It is still a seller's market. If you can finance it and build it, you can sell it. Community planning, city planning are largely conversation. Tiresome rows of monotonous white houses march up and over the lovely hills of San Francisco—up and over with no regard for contours, in fact, contrary to contour. Houses with no side yards, built tight together—nothing learned from the fire of '06. Up and down the coast—from Oregon to Mexico—our cities have fallen into similar traps. Mistakes made in old eastern cities have been repeated out here.

Where are the garden apartments with light and air for everyone; with group garbage disposal; group lawn care; central heating; close-in location? No, we go out to suburban lots—too big for the average homeowner to care for; so far out that he must commute for hours. Central heat? No, each owner wrestles his own furnace and water heater. Trash disposal? No, you burn it in the backyard and add to the smog.

Our cities stretch out in straggling, growing tracts so that you drive from San Francisco to San Jose or from Los Angeles to Capistrano without ever being in the country. Decentralization, yes; dispersal, yes. But what are the benefits?

The architect is indicted who gives his client the first thing he asks for, rather than argue for what he needs.

California, with the biggest building boom in its history, is indicted; it has scarcely recognized community living or growth problems and has done little or nothing to solve them.

It is an indictment against both architect and client that neither has faced the fact that buildings, like automobiles, outlive their usefulness. Outmoded buildings are like hand-me-down clothing, makeshift and inconvenient.

We indict the public demand for cheapness in construction which they dignify as economy. The public also seeks so-called permanent construction that is not permanent and has no right to be. To patch a building after it has outlived its economic life is contrary to public interest.

These indictments are true all over the USA, not just California. They are really community growing pains. We can be very proud of our awards. We shouldn't be smug because our sites and climate are spectacular and we have a relatively advanced clientele. We ought to do good work and yet we have relatively few distinguished jobs to point to. We have all the advantages but we've muffed most of them. I'm as guilty as anyone.



THE WINDOWS YOU WANT

made and installed on time by Soulé

Soulé Intermediate Window Wall and Windows in
Hamilton Recreation Center, San Francisco.
W. G. Merchant, A.I.A., M & K Corp., Contractor.

Soulé Intermediate steel windows impose no limit to stock sizes. When you design a window or window wall job, specify the opening sizes you want. Soulé sales engineers will work with you, help assure you the exact window you design at the price you want to pay. All Soulé metal windows are made in the West, for fast transmission of details and delivery to your job on time. A big plus advantage is installation by our own crews, guaranteeing you a workmanlike job. You deal with one responsible Company for the manufacture and the installation of your intermediate steel windows.

Soulé
LEADER IN METAL WINDOWS

SOULÉ STEEL COMPANY

San Francisco 1750 Army St., VAlencia 4-4141 • **Los Angeels** 6200 Wilmington Ave., LUdlow 5-0911
San Diego 3741 Fifth Ave., CYpress 5-6289 • **Portland** 2630 N.W. St. Helens Rd., CApitol 3-5154
Seattle 4100 W. Marginal Way, HOlly 3600 • **Spokane** 405 American Legion Bldg., MAdison 6000
Phoenix 2026 S. Eleventh Ave., ALpine 3-3178 • **Salt Lake City** 200 Greyhound Bldg., EMpire 3-7601
Dallas 528 Interurban Bldg., RIverside 5225

CATALOGS IN SWEET'S

3739

Police headquarters: all facilities under one roof

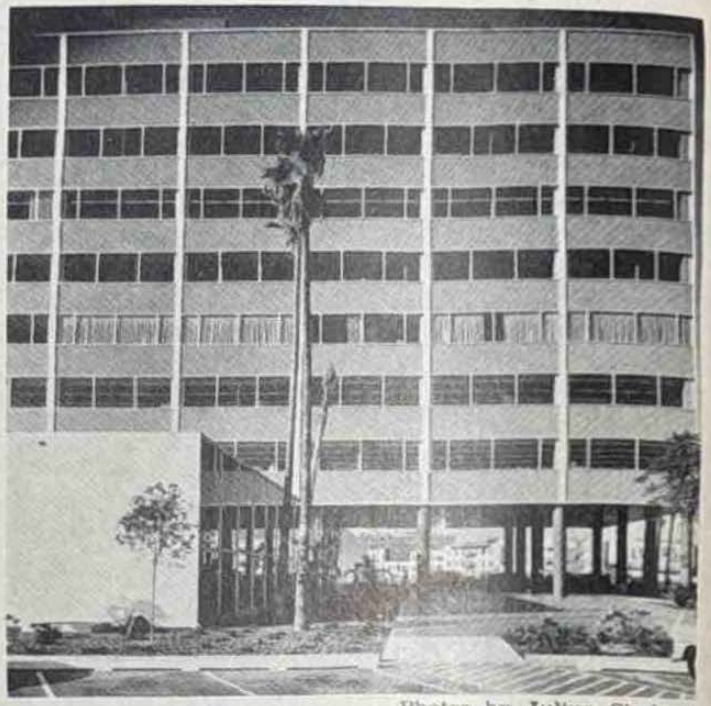
Police Administration Building
Los Angeles, California

WELTON BECKET & ASSOCIATES
and J. E. STANTON, AIA
Associated Architects

MURRAY ERICK and PAUL E. JEFFERS
Associated Structural Engineers

RALPH E. PHILLIPS, INC.
Mechanical-Electrical Engineers

FORD J. TWAITS CO.
and MORRISON-KNUDSEN CO., INC.
Associated General Contractors



Photos by Julius Shulman

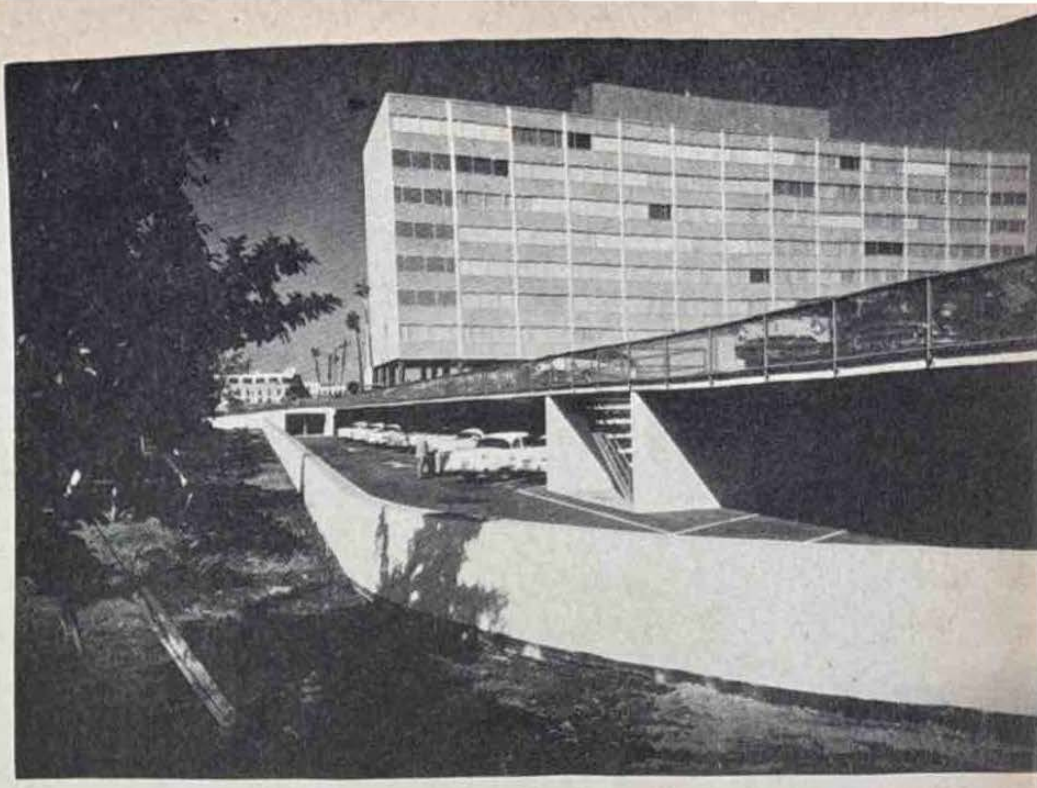
EXTERIOR MATERIALS: mosaic tile spandrels and columns, rigid aluminum sash, ceramic tile windowless wall areas.

COVERING a full city block in the downtown civic center, the eight-story police headquarters with basement represents the first entirely functional approach to the physical problems of police administration and is expected to establish precedents for the planning of similar buildings. And while such projects seldom are worthy of architectural recognition, this one has been selected for a 1956 AIA Award of Merit.

The building is noteworthy too for the incorporation of two unusual pieces of art: Joe Young's glass mosaic mural which hangs in the lobby (see p. 14) and Bernard Rosenthal's controversial sculpture of a family group, mounted on the wall beside the main public entrance.

All of the various units of the municipal police department, formerly scattered among half a dozen different buildings, are brought together under one roof, with the overall plan permitting a closer integration than ever before attained. Related police activities are found on the same floor. This centralization provides better service to citizens visiting the department for informa-





SLOPING SITE provides two-level parking area for more than 850 police cars. Parking also is available for public in separate lot.

tion, advice or assistance; and with all records and report-taking facilities in one place, both officers and public save time and effort.

The $6 million reinforced concrete structure has precast concrete partitions in many cases to cut costs. Rigid sash windows have been installed throughout, ventilation being provided by air conditioning—except in the jail. Windowless wall areas are surfaced with glazed ceramic tile; spandrels and columns with mosaic tile.

To form the multitude of offices needed, the architects specified movable wood partitions wherever possible, allowing flexibility and reorganization at minimum expense. In the jail areas unbreakable glass partitions were frequently used instead of solid wall or bars to afford more supervision of prisoners with less personnel.

An extensive pneumatic tube system for sending messages and reports speeds up administrative operations. The sender merely dials the desired destination on an electronic device and deposits the papers in the tube. Automatic controls route the material to the indicated office outlet.

One of the economy measures designed into the building is the piping of steam from the heating plant of the health building which is directly across the street.

A combination ground and deck area provides parking facilities for more than 850 police cars. Space also is available for public parking. Underground squad rooms and lockers for officers can be easily reached from the lower level parking area. The basement contains assembly rooms for the officers.

The ground floor also houses the property division where a vault and refrigerator guarantee that articles ranging from jewelry to perishables will be stored safely while in custody of the department.

On the first floor are the business offices, information center, communications, traffic division, police commission offices, jail for initial booking procedures and a completely equipped auditorium and stage for "show-ups." Seating 400 persons, the auditorium has a huge screen permitting the victims to identify suspects while the prisoners cannot see the audience. With electric controls it is possible to reproduce the lighting conditions under which victims may have seen the suspects during the commission of a crime.

The felon prison and the record and identification bureaus are on the second floor; the detective bureau on the third floor; various police bureaus and business offices on the remaining five. The eighth floor has an employee cafeteria and lounge.

The typical upper-floor plan consists of a central core of specialized rooms, surrounded by a corridor and perimeter of offices.

The nine levels of the building contain 407,826 sq. ft.: administration, 273,148; jail, 39,930; parking, 95,748.

Cost of construction was $6,142,548, more than $2 million under the proposed city budget for the structure, which was made possible by a bond issue passed by the citizens of Los Angeles in 1947.

In May 1949 preliminary plans for a police building were approved but recommended alterations caused a delay in construction. During 1950-51 rapidly spiraling building costs and material shortages resulting from the Korean War forced a redesign of the building to conform to funds available. Revised plans were approved in March 1952 and construction started the following January.

A total of 2,500 police officers and civilian employees work in or out of the building.

OUTLINE SPECIFICATIONS

Type of Construction: Bethlehem Pacific steel frame and reinforced concrete.

Exterior Walls: Reinforced concrete with Gladding, McBean Ceramic Veneer and mosaic tile spandrels.

Roof: Reinforced concrete.

Floors: Asphalt, rubber and ceramic tile over concrete slab.

Windows: Rigid aluminum sash with aluminum louvers on east and west walls of jail wing.

Interior Partitions: Precast concrete, movable wood and unbreakable glass (jail).

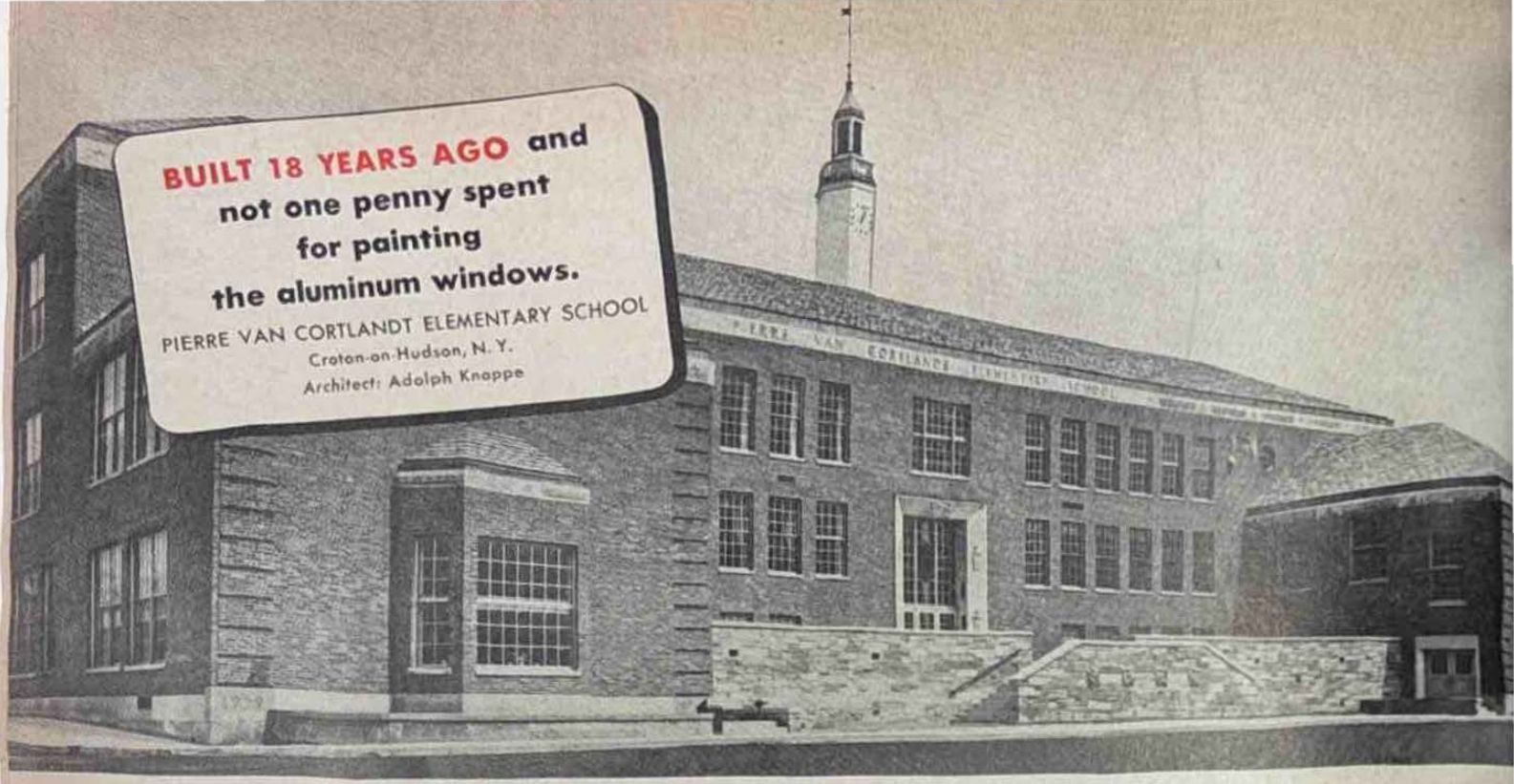
Lighting: Fluorescent and incandescent.

Heating: Steam piped from health building across street.

Total Area: 407,826 sq. ft.

Total Cost: $6,142,548.

Date of Completion: October 1955.



YOU DON'T HAVE TO TAKE OUR WORD FOR IT!

EXPERIENCE PROVES..

YOU CAN... *save money*

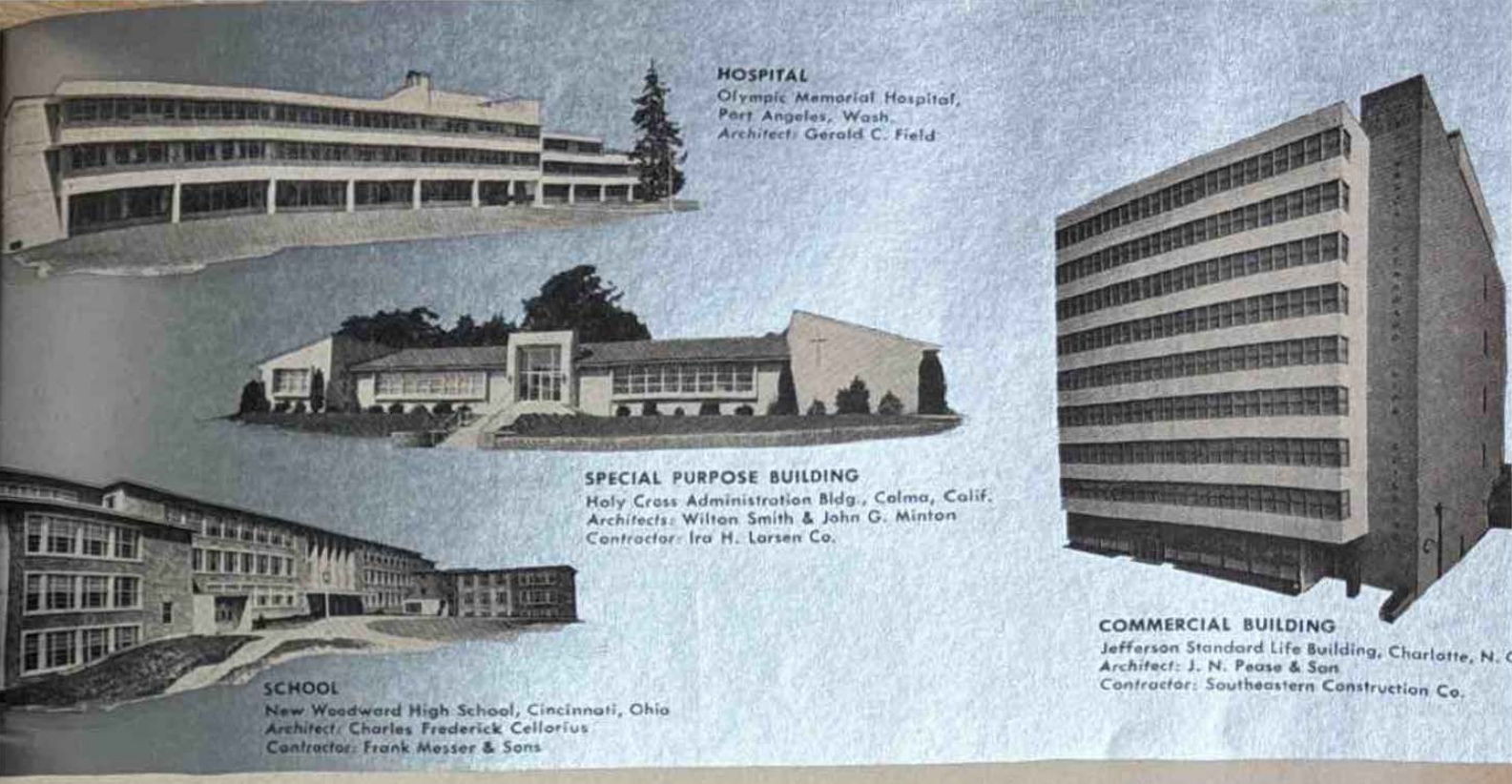
WITH WINDOWS THA

never need painting!

QUALITY APPROVED
(TYPE)
A.W.M.A. Quality Specifications—Materials, Construction, Strength of sections and Air infiltration requirements—confirmed by Pittsburgh Testing Laboratory
MEMBER—ALUMINUM WINDOW MANUFACTURERS ASSOCIATION

Quality Approved

ALUMINUM



HOSPITAL
Olympic Memorial Hospital,
Port Angeles, Wash.
Architect: Gerald C. Field

SPECIAL PURPOSE BUILDING
Holy Cross Administration Bldg., Colma, Calif.
Architects: Wilton Smith & John G. Minton
Contractor: Ira H. Larsen Co.

COMMERCIAL BUILDING
Jefferson Standard Life Building, Charlotte, N. C
Architect: J. N. Pease & Son
Contractor: Southeastern Construction Co.

SCHOOL
New Woodward High School, Cincinnati, Ohio
Architect: Charles Frederick Cellorius
Contractor: Frank Messer & Sons

ALUMINUM WINDOWS KEEP MAINTENANCE EXPENSE AT A MINIMUM

If you're interested in keeping maintenance expense at a minimum you can profit from the experience of many schools (like the one pictured on the opposite page), hospitals and other buildings erected 15 to 25 years ago with aluminum windows.

School officials, hospital superintendents and others responsible for the maintenance of these buildings are unanimous in their praise of the aluminum windows. They all report that not one penny of expense has ever been required for painting them.

Now, just think what this means to the annual school budget. Think of the money that will be saved—extra money that can be well used for salaries, for books and for other necessary items. Certainly, the selection of aluminum windows for any type building is a wise choice that will pay handsome dividends.

As you plan new schools, hospitals, apartments or commercial buildings be sure you, too, include "Quality-Approved" aluminum windows. They are the only practical, reasonably-priced windows that *never* require painting . . . that cannot rust or rot, warp or swell . . . that retain their trim, modern looking appearance for the life of the building.

"Quality-Approved" aluminum windows are available in all types — double-hung, casement, awning, projected, sliding and jalousies — to fit any exterior design.

They are made by many manufacturers (see list below) to rigid quality standards established by the Aluminum Window Manufacturers Association. For your protection and complete satisfaction be sure to insist on the "Quality-Approved" Seal when you specify or OK specifications for aluminum windows.

A WORD OF CAUTION—Remember that only aluminum is rustproof through and through. Mere surface protection against rust is not enough. Wear, unintentional scratches in delivery or installation may nullify any protective coating and soon require painting.

For additional information consult Sweet's (Architectural File, Section 16a/ALU) or any of the approved manufacturers listed below, or write for our latest "Window Specification Book". Address, Dept. PAB-65.

Aluminum Window Manufacturers Association

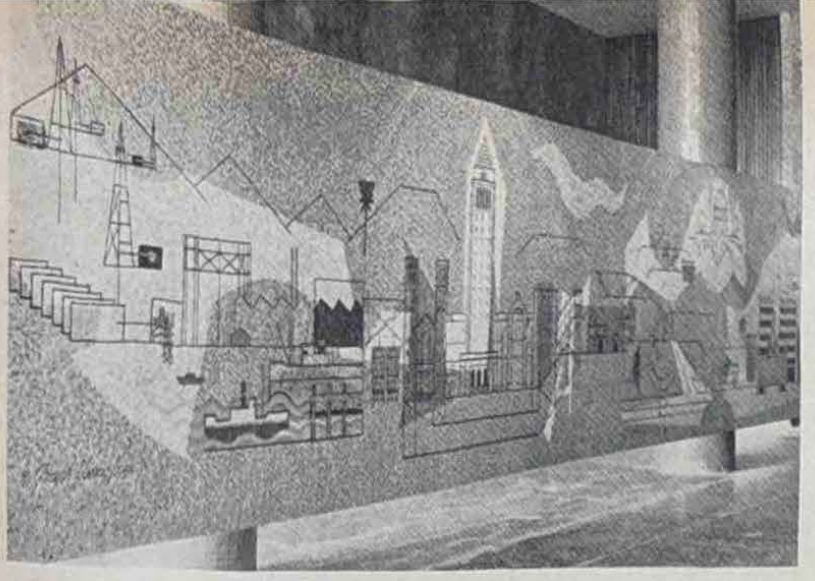
75 WEST STREET, NEW YORK 6, N. Y.

MEMBERS: Alcasco Products, Inc., Detroit, Mich. • The Wm. Bayley Co., Springfield, Ohio • Bourne Products, Inc., El Cajon, Calif. • Ceco Steel Products Corp., (Sterling Aluminum Window Division), Chicago, Ill. • Cupples Products Corp., St. Louis, Mo. • Duralite Window Corp., Knoxville, Tenn. • Fentron Industries, Inc., Seattle, Wash. • Michael Flynn Mfg. Co., Philadelphia, Pa. • General Bronze Corp., Garden City, N. Y. • Luria Building Products, Inc., Bristol, Pa. • Metal Arts Mfg. Co., Inc., Atlanta, Ga. • Reynolds Metals Co. (Parts Division), Louisville, Ky. • J. S. Thorn Co., Philadelphia, Pa. • Universal Window Co., Berkeley, Calif. • Ware Laboratories, Inc., Miami, Fla. • Windalume Corp., Kenvil, N. J.

WINDOWS

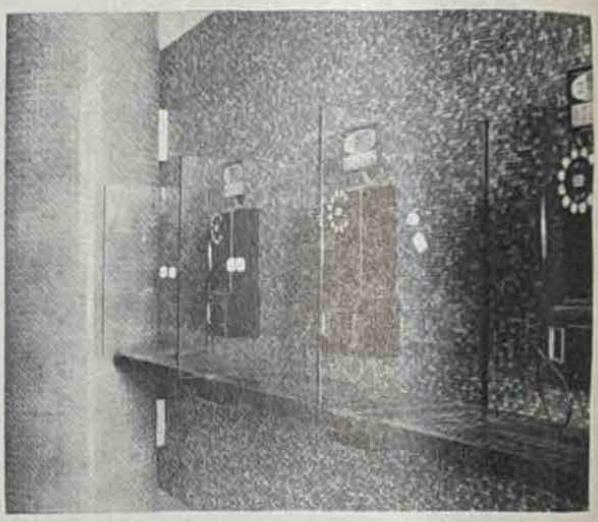
Police Administration Building

Joe Young's Mural



SIX TONS OF MOSAIC MURAL hang from structural columns in lobby. Back of panel supports public telephones.

"This was an unusual opportunity wherein architect and artist were able to collaborate freely. Perhaps in this sense the end result might be described as a 'transitional' mural, i.e., a situation that required the mural to come down from its traditional position on the wall and be employed as the contemporary space modulator it should be. If this turns out to be a contribution to the historical evolution of art integrated within architecture, then much of the credit should go to the planning of Maynard Woodward, AIA, as head designer for Welton Becket & Associates."—*Joe Young.*



CERTAINLY one of the high points of interest in the Police Administration Building is the hanging mosaic mural, first major work of this type to depart from a conventional wall installation and the largest ever executed in the United States.

Seeming to float in the air in the building's lobby, the six-ton monumental mosaic by Joe Young consists of more than 250,000 tiny glass stones, each one set by hand in 50 diverse colors. The mural, 36 ft. long and 6 ft. high, is cantilevered from two structural columns and serves as a divider partition between the lobby and the public telephone area.

The 436 sq. ft. of mosaic surface presents a panoramic theme of Los Angeles and its architectural growth. The city skyline seems to move with the spectator as he walks through the lobby. The rear of the mural, finished in monotone colors of hand-set glass stones, acts as a panel to support the telephones which are installed in the panel itself.

Young took two years to create the mural, using steel, aluminum, copper, concrete and glass. Copper lathing was reinforced with concrete for the basis of the panel structure.

The tiny pieces of glass were set in the artist's studio, mounted on paper sections and then installed on the cantilevered wall. Seams from one section to another are invisible. The mural will last hundreds of years and can be cleaned with a hose.

Briefly, here is the step-by-step process in executing the mural as outlined in the American Artist magazine:

1. Once the design of the mural was decided upon, the first step in making the mosaic was the enlarging of the cartoon to full scale.

2. When this full-scale cartoon was completed, it was cut into sections for working convenience. The size and areas of these sections had been determined in the planning stages of the project. Then, like a huge jigsaw puzzle, the parts were carefully assembled in reverse since, during installation, the face of the mosaic was pressed into the concrete.

3. Mosaic pieces (Italian glass tesserae) had to be cut by hand to assure the right size and color for each space in the design.

4. To set the tesserae in place, mastic was first brushed on the cartoon, which served as a backing for the tesserae as well as a guide to the exact placement of pieces in the design. Tesserae of the proper size and color were selected from small bins of sorted pieces and set in place on the cartoon.

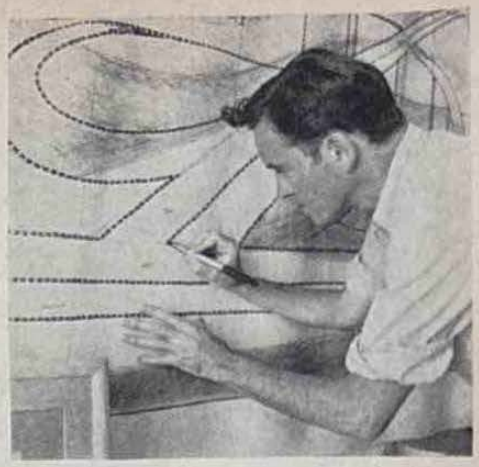
5. As the work progressed, small mosaics were held in position with neighboring sections of the original cartoon to check the accuracy of the linear mosaic design.

6. Small sections of mosaics were stacked on top of each other for packing.

7. The mosaic sections were set into a special brown grouting cement.

8. When all sections were in place and the cement had dried, the paper cartoon — which had served as backing for the tesserae — was removed, revealing the finished mosaic mural.

Integration of the arts in architecture



by JOE YOUNG

Reprinted from the Southern California Chapter, AIA, Bulletin

IN THE PAST 10 YEARS, many panel forums have discussed "integration of the allied arts within contemporary architecture."

In most of these sessions, the invited speakers generally admit that a synthesis of the arts is the unsolved problem of our culture. Some experts explain the lack by pointing to the diversity of our society and say, as long as decentralization is a goal, integration will progress slowly. A few refuse to admit any problem exists and in one instance I actually heard an architect, who never commissioned an artist, argue vociferously with an artist, who had never executed a commission.

Whatever the opinions, these discussions have evoked recognition of a serious shortcoming, often the first step to a solution. If what has been stirring on the West Coast since the war is a portent of the future, then we certainly are no longer in the academic stage of discussion, but beginning to work out an answer.

It is well known that architects in this area are no longer completely oriented by what occurs in the East. This regional self-sufficiency, which had to happen on many levels all over the country before it influenced local building concepts, helped this particular area to lead a significant break-through on some of the important design accomplishments of our time. This leadership meant new responsibilities and how these weights were to be carried became the challenge.

In the Southland alone, the number of architects who have awarded commissions to artists has begun to bridge that vast gap that divides architecture in America from its natural allies. We must admit some planners still haven't learned that art didn't commence with Mattise or Mondrian, any more than it ended with the Renaissance. It is just as urgent that artists come down out of their ivory towers and apply themselves to learning the practical nature of the building profession.

If we are edging out of this period, when suspicion among the arts impeded all coordination, then it is in part due to the architects who first achieved a wider freedom of design and realized that endless facades of textures were not the answer. Glass and stone combined with brick and tile may create a required simplicity, but for the want of an artist's contribution, the essential purpose of the building often goes unexpressed. Everything in our past indicates we are a nation ready to utter dynamic images and yet, in one of America's important decades, how many structures reflect a Spartan purity that underestimates our needs? If the enlargement of our environment into a wider meaning is the mission of the architect, then to succeed, the breadth of this ambition must encompass every activity. Our best schools have accepted this premise, but in getting down to cases, just how does an architect with an opportunity go about selecting an artist for commission?

First, experience shows that following the AIA regulation on providing free sketches works out best when architect, artist and client all agree on this as a guide. Second, in seeking an artist to perform a commission it is also best to encourage mutual confidence by entrusting the problem to one artist as versus running a competition. The ability to make a building speak requires high qualifications and so the artist who can organize a project **with** the architect is the ideal. Admittedly these artists are rare, but it is also important to remember development in this direction by an artist can only come if he is awarded commissions.

An obvious precaution is to avoid the artist who mistakenly believes, simply because he works large, that he is qualified to collaborate. A developed sense of structural scale is more important than mock-heroics. The contemporary architect cannot afford to entrust his building to those artists who abort the architectural medium itself because they have no sense of continuity with the past; men who can only think in terms of obscure allegories or sterile illustrations of sentimental ideas—and this exists in the most advanced forms of cubism as well as in the more representative forms of art!

Generally the commissioning architect wants his buildings to feel human and the imaginative artist has much to offer. His knowledge of color-form has developed his sense of imaginary space and controlled illusory space can be an indispensible foil when integrating actual planes. Since the artist's direct language of visual imagery is of ancient and almost magic potency, then great care must go into every stage of the planning.

This artist can't be the sort of fellow you telephone if the finishing-up budget will permit, nor is he of any value if his work is arbitrarily added like a patch to conceal the haste of hurried planning. Successful integration cannot afford such luxurious crutches. Synthesis depends on the architect's willingness to persuade the client that his own best interests are at stake and that art integrated within a structure is essential to the function of a building.

Today a creative architectural artist knows the optics of wall perspectives, how to utilize color in a unified sense and the infinite possibilities of acoustical and mobile structures coordinated with light engineering. The tasteful use of plastics as transparent or translucent planes is understood. Photo-murals, collages, stereoptic walls and sculpture—all have departed from the genre to become contemporary architectonic means.

The contemporary artist with a thorough knowledge of the architect's spatial problems will accept all op-

Continued on page 32



Photos by William Ladner

FIRE STATION AND SNACK BAR with tree preserved to add to homey, small town touch.

Washington State Veterans' Home
Retsil, Washington

Village living keynote

Victor N. Jones & Associates
Architects

Peter H. Hostmark
Structural Engineer

E. W. Weber
Mechanical Engineer

Beverly A. Travis & Associates
Electrical Engineers

Dahlgren Construction Co.
General Contractor

HOW FAR CAN architectural design go toward improving the living patterns within a state institution?

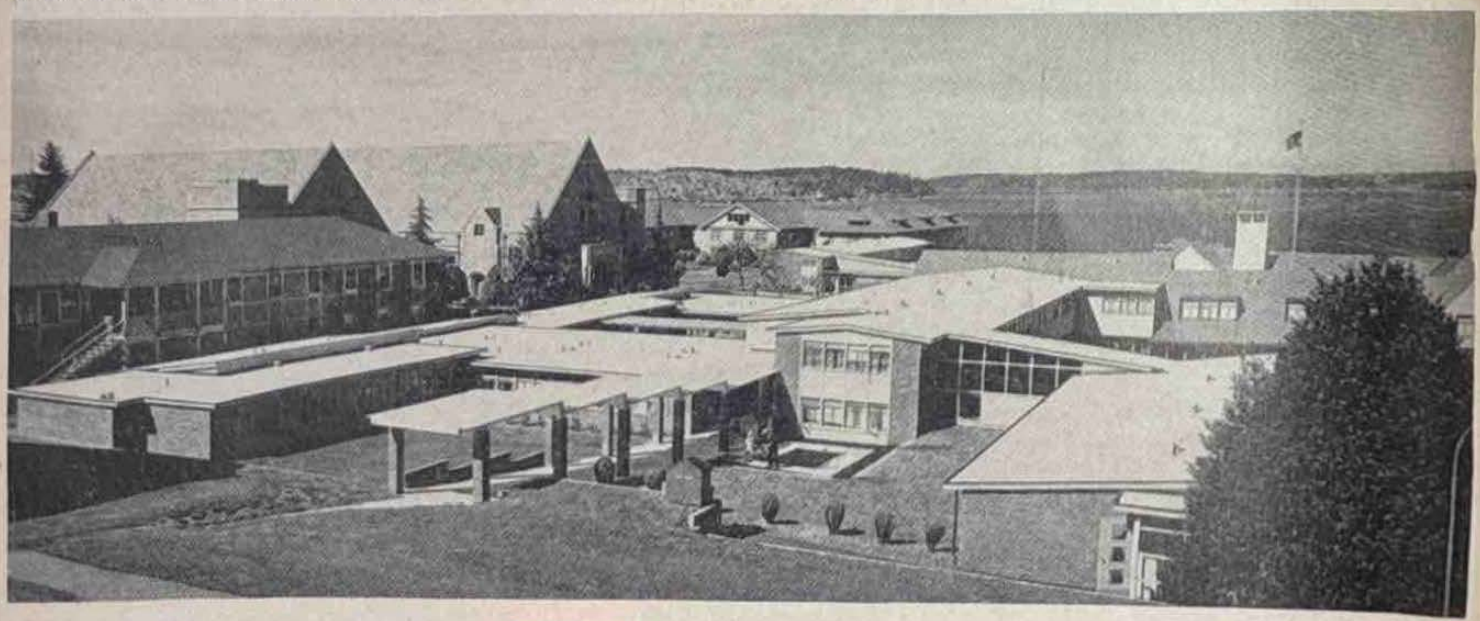
Can mere sketches off a drawing board hope to change age-old concepts of life within the confines of a government-operated "home?"

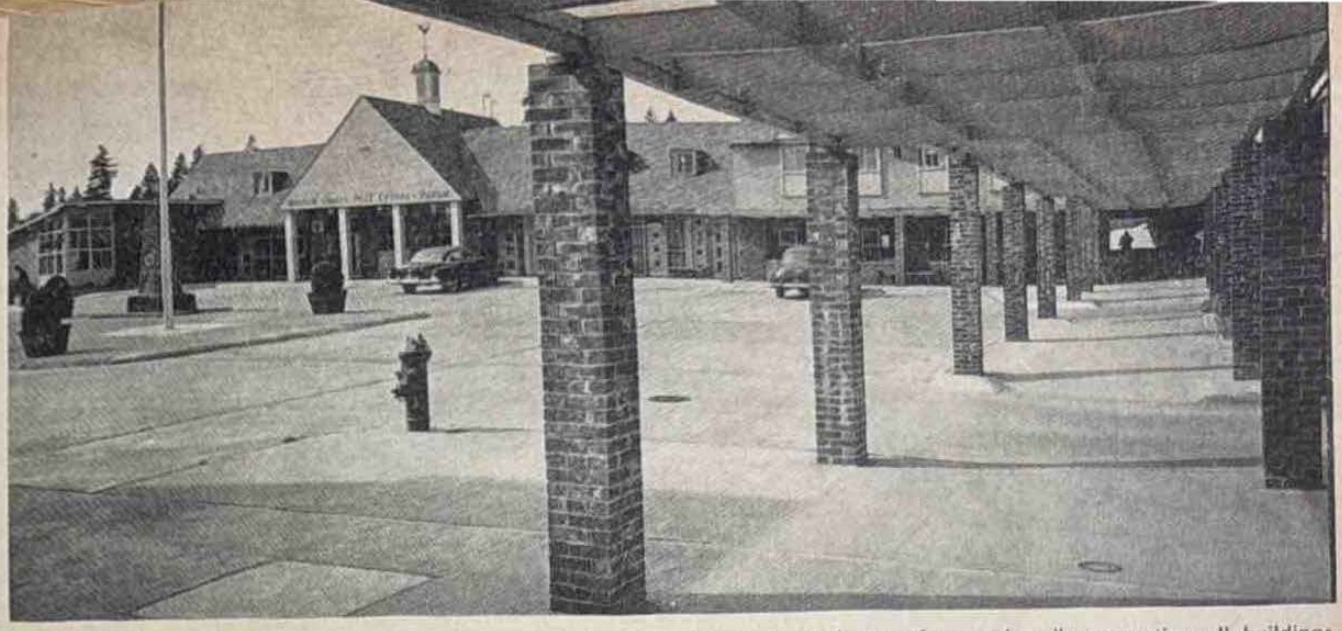
Answers to these queries can be found quite readily at the Washington State Veterans' Home in Retsil where a program of expansion has also included a new approach to institution living.

Here's the background of the story:

In 1910 the State of Washington dedicated a home for needy war veterans, their wives and widows. It was located on a 10-acre tract at Retsil, overlooking Sinclair Inlet and with a sweeping view of the Olympic Mountains.

SINCLAIR INLET AND OLYMPIC PENINSULA form backdrop for some new construction at veterans' home.





SQUARE AS SEEN from beneath one of covered walks connecting all buildings.

veterans' home expansion

by BOB KAROLEVITZ

That, of course, was three wars ago. Since then the population of the home has increased considerably until now it is on a waiting-list basis. The original living quarters became more and more crowded and, because of the increasingly older age-average of the inhabitants, some of the early facilities were proving hazardous, especially to the wheel chair portion of the population.

With those conditions existing, the State Department of Public Institutions under its director, H. D. Van Eaton, launched in 1951 a long-term program of additions, modernization and rehabilitation of the Retsil establishment.

The program afforded these prime considerations:

1. The addition of sufficient living quarters to eliminate the overcrowding, to permit the housing of more eligible veterans and to anticipate as far as possible the future needs of an ever-growing veterans' population in the state.

2. To provide further community facilities such as lounges, a post office, a fire station, administration offices and even a snack bar.

3. To confine this development to the original tract since property limitations precluded any expansions.

4. To locate the new living quarters close to the existing dining hall and hospital.

Faced with these problems, plus the generally accepted principle of designing institutional buildings to facilitate maintenance to the highest degree possible, the architects could immediately visualize a practical solution. Fireproof, multistory elevator buildings would make the most economical use of limited ground area, would allow for more apartment-like units and would provide off-the-ground views of the Olympic Peninsula's beautiful mountains. At the same time such buildings would cause minimum dislocation of established day-to-day operations of the home.

But there was another consideration much more important than any of these cold, practical, dollars-and-cents views. That was the human element: the requirements and the niceties which would make life more livable for the elderly inhabitants.

The first move then was to make a considerable study of the habits and desires of those who would be most affected by the new construction, the veterans themselves.

It was readily ascertained that the majority of inhabitants were Spanish-American War veterans whose average age exceeded 70 years. Many were confined to wheel chairs, and none were very active physically. The study just as readily indicated that these men, their wives and their widows would never be happy in a big-city apartment atmosphere; neither would the people of the World War I era now seeking entry into the home in ever-increasing numbers.

To them home is something informal, neighborly and intimate. The bigger the building, the more they feared the idea of becoming inmates rather than free-to-come-and-go citizens forced by circumstances into government facilities.

The first conclusion the architects arrived at was that living quarters must fit the veterans' concept of home. They must be tied to the earth and have an intimate scale. Only in such dwellings could fighting men of another generation live out their final years happily and in comfort—the ultimate reason for building such an institution in the first place.

These were the factors which forced the architects' thinking beyond mere walls, roofs and patios and into the realm of social considerations. The result was a new village type approach to institution living, featuring a village square, a semi-colonial style of architecture and the friendly, informal atmosphere so definitely hoped for by the Retsil veterans.

The final solution called for seven buildings of one and two stories grouped almost casually around the village square, which itself was developed on the site without changing the existing road pattern or displacing any important buildings.

Most of the buildings have been developed around



RAMPS used throughout new construction in place of stairs make walking easier for elderly members of home and facilitate wheel chair transportation.



OFF-THE-SQUARE VIEW shows rockeries and flower beds which offer recreational opportunities for oldsters who sport green thumbs. Ramps also are used outside buildings.

quiet interior courts, large enough to afford not only light and air but landscaping and sitting areas. The landscaping was planned to include flower beds and small rockery areas where veterans themselves can work at growing things.

The community facilities—the post office, the fire station, two large lounges, TV room, card room and snack bar, post exchange, beauty shop, barber shop and the administrative offices—face the village square.

The basic housing unit is a single bedroom of 136 sq. ft. with wash basin and 8 sq. ft. additional for wardrobe. Each pair of such bedrooms has a shared toilet. There are eight community bathrooms with showers, tubs, toilets and basins to serve the 228 rooms of this type.

A secondary type consists of 18 bedrooms and wardrobe with shared baths consisting of toilet, shower and basin. These rooms have individual exterior entrances independent of main buildings. They are for the use of members (as home inhabitants are called) whose physical conditions make desirable an adjacent bathroom. They are also used by single employees of the home.

Finally, there are seven suites with living room, bedroom and semi-private or private bath. These suites, on second floors, are assigned to married members and married employees.

All of the new buildings are connected by covered walks which lead eventually to the dining hall in an existing building. Covered walks also lead to the chapel and hospital facilities.

Throughout the new development, the physical inabilities of members are considered. Ramps have replaced stairways, lighting has been designed to make seeing easier for failing eyes and bathtubs have been equipped with handrails to prevent falling accidents. In the event of any emergency requiring evacuation of the buildings, the ramps and numerous outside entrances will facilitate such an exodus.

Many public institutions are built to house those who are paying a debt to society. However, those like the Washington State Veterans' Home have a direct opposite goal: to make a final installment on society's debt to old soldiers, sailors and marines who long ago defended their country in battle but who now are in the twilight years of their lives. Without a doubt the designers of the new facilities at Retsil organized the true purpose of the home.

Outline Specifications

Type of Construction: Masonry and wood frame combinations on reinforced concrete foundations.

Exterior Walls: Select common brick veneer backed with 4-in. concrete block; finished with ¼-in. cement asbestos board and fir siding, painted.

Roof: 3x6 t&g, supported by wood beams located about 11 ft. apart; 1-in. insulation board on top of deck, covered with built-up asphalt roofing and white marble chips.

Floors: Asphalt tile on concrete slab and on some wood second floors.

Windows: Aluminum sash.

Doors: Flush solid core fir cut for three glass panels, painted finish, exterior; hollow metal for all corridor doors to bedrooms; flush panel fir to private toilets and for sliding wardrobe closets.

Corridor Walls: 4-in. concrete block.

Room Partitions: 2-in. t&g solid wood, covered either side with ⅝-in. gypsum wallboard, taped joints.

Interior Trim: Fir base, chair rail and all trim, painted finish.

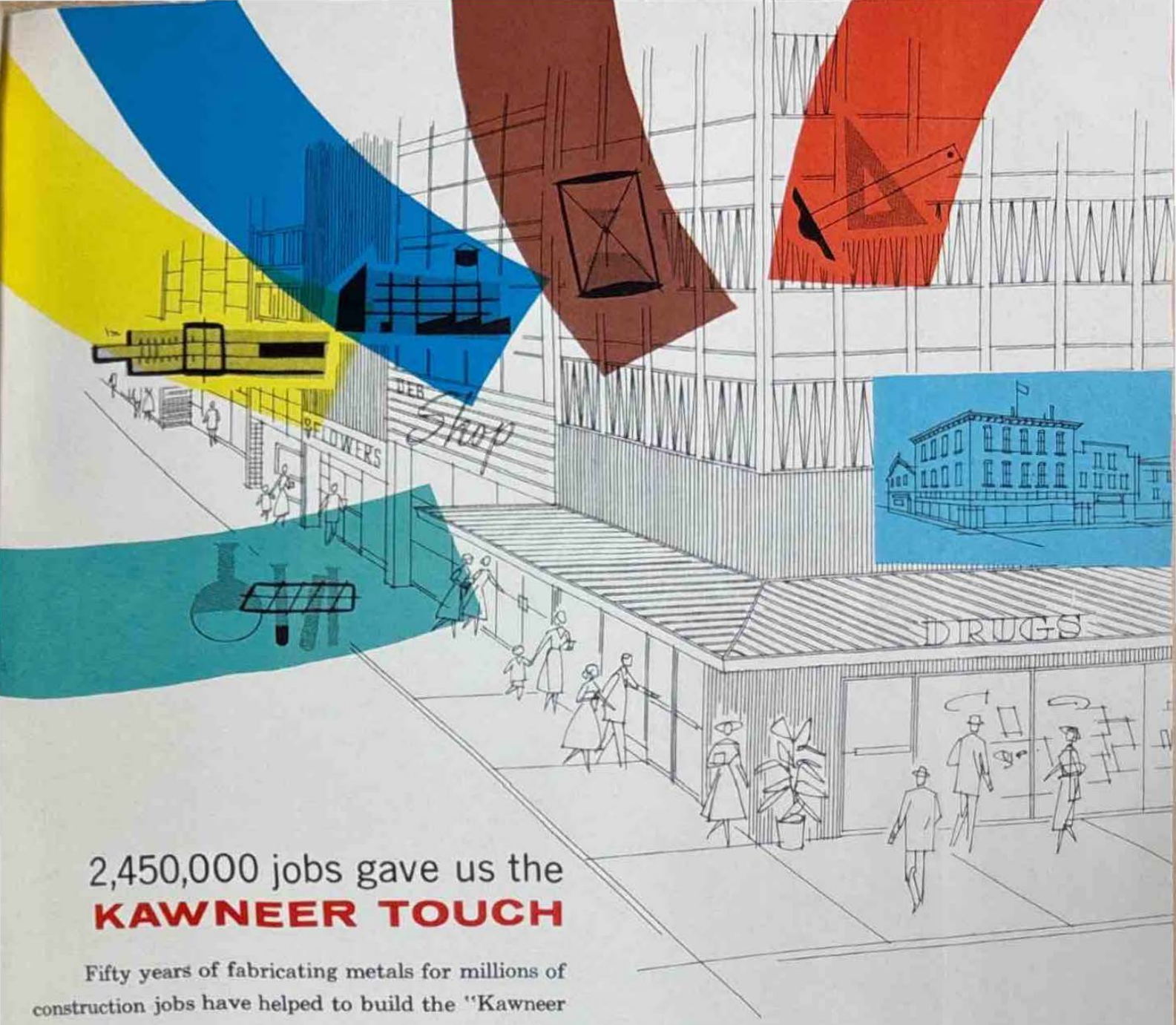
Ceilings: ⅝-in. gypsum wallboard nailed to bottom of wood roof deck and to wood furring on suspended ceilings.

Equipment and Specialties: Medicine cabinet and lavatory in each room; toilet room between each pair of rooms with grab bar on wall facing water closet; wide wood window stool (6 to 12 in. wide) covered with linoleum; built-in wood desk in corner of each bedroom; wood shelf (8 in. by 5 ft.) on wall side of each bed location; wardrobe closet (2x4 ft.) in each bedroom.

Lighting: Swing lights at head of bed, at end of desk and over medicine cabinet in each bedroom, bracketed to wall and provided with metal shade and indirect reflectors; bracket light in toilet rooms; no ceiling lights; corridor lights of dense boxes specially designed to mount in wall, with face of box at angle to throw main beam at 45 deg., about 20 ft. on centers.

Electrical: Service and distribution 440-volt, three-phase; dry type transformers located in each building; additions to main switchboard in boiler house with new feeder through existing tunnel to distribution center in village; all panels Westinghouse circuit breaker type.

Fire Alarm: Coded, supervised system providing continuous ringing bells in each building and setting off code box to give coded signal at fire station; break-glass stations at rear of each door.



2,450,000 jobs gave us the **KAWNEER TOUCH**

Fifty years of fabricating metals for millions of construction jobs have helped to build the "Kawneer Touch". All the new construction and modernization jobs from small store fronts to steamships have given us *our* skills . . . a "touch" that makes your job sparkle with finesse. On top of design and finish we offer construction "sense" that brings you metals that are easy to assemble on the job. You enjoy the benefits of *factory-controlled construction labor*. See your Kawneer representative and dealer. Their job is to serve you—to help you with information, details and specifications.

50TH ANNIVERSARY

Kawneer

General Offices
NILES, MICHIGAN

ARCHITECTURAL PRODUCTS DIVISION

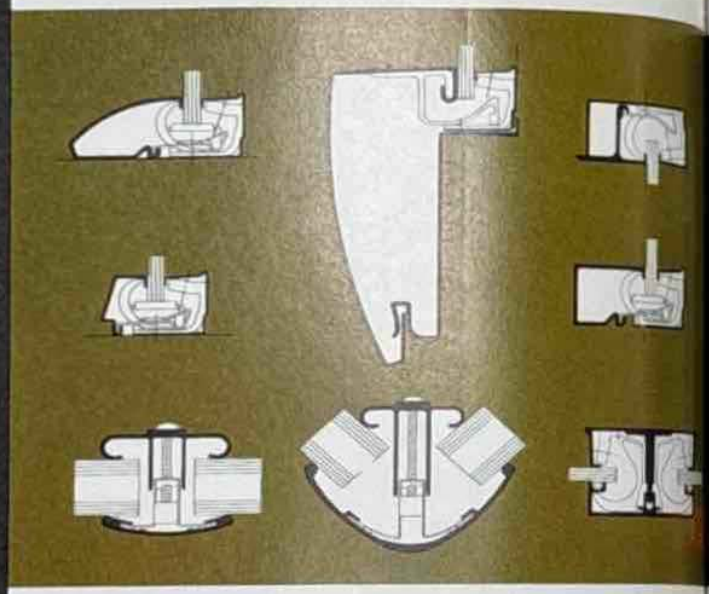
1906 – 1956

foremost fabricator of aluminum and plastics for the construction, aircraft and appliance industries since 1906.



the complete Kawneer line plus **NEW** 50th Anniversary products







a. doors and entrances
A complete line of narrow stile doors with the unique interchangeable hardware feature; wide stile doors; honeycomb core flush doors; and **new** full-vision, sliding glass doors for homes, offices and stores.

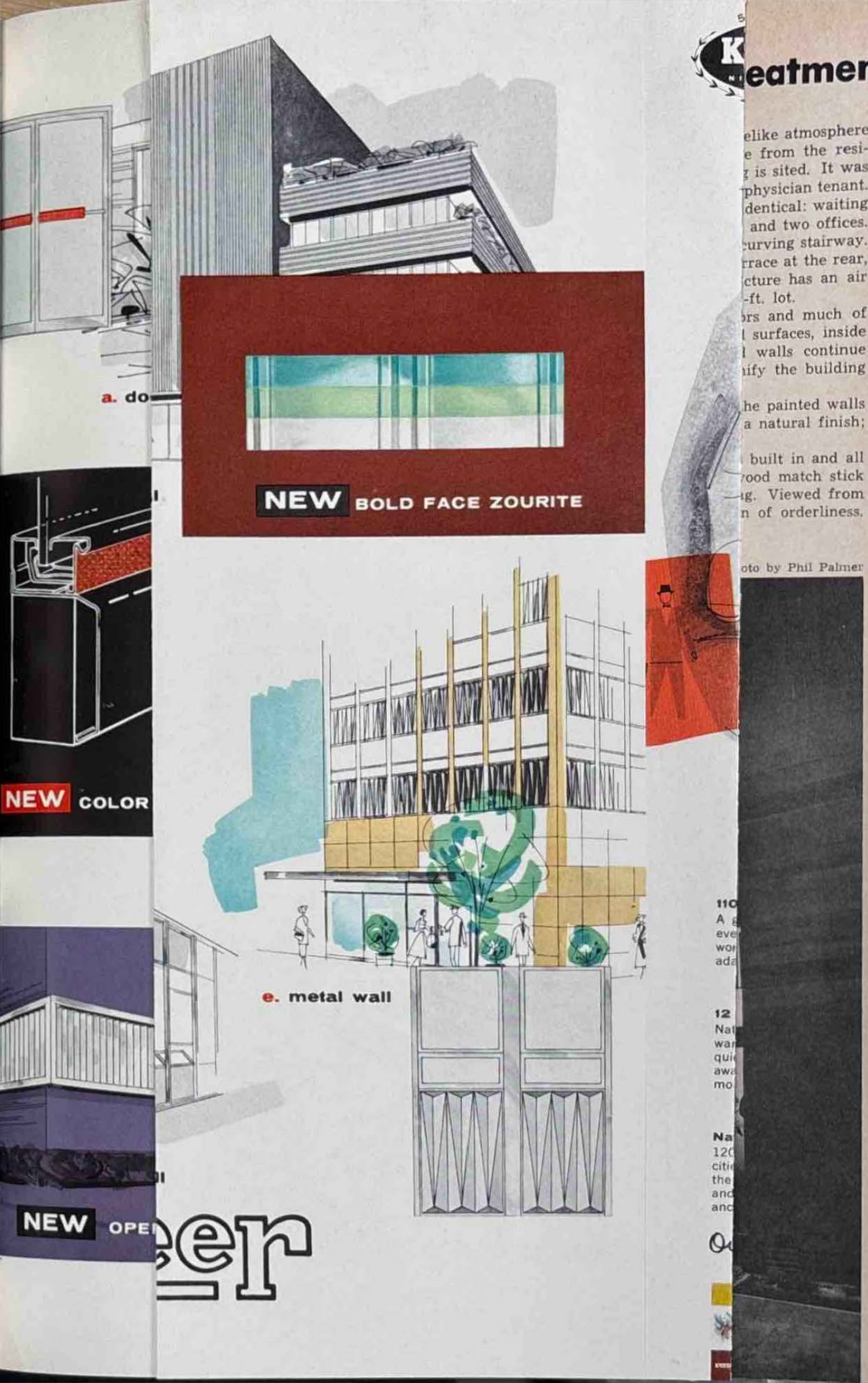
b. store fronts
An extensive variety of sash assemblies, trim members and facings to complement the store front design. **New** sash with a striking color stripe combines aluminum and vinyl.

c. sun control products
Durable, aluminum, sun-reflecting, canopies for store fronts, walks or parking. Sun-heat and glare controlling aluminum Kawneer K-Louvers, including the **new** *operating* unit help solve sun control problems.

d. facing material
Kawneer porcelain enamel and alumilited Zourite facing, now in two modular sizes and a variety of colors; the narrow-face 2″ and the **new** bold-face 6″. Can be used in combination or individually.

e. metal wall
Kawneer will provide shop-prefabricated and water-resistant window-spandrel units on the job, including erection. One responsibility from inception through installation.

f. unit wall
New unit wall system for single or 2-story buildings. Complete flexibility of design through a wide selection of color, unit types, unit sizes and choice of proportions, all with basic standard units. Superior weatherproofing system.


NEW BOLD FACE ZOURITE
NEW COLOR
e. metal wall
NEW OPE
eer
eatment
elike atmosphere
e from the resi-
g is sited. It was
physician tenant.
dentical: waiting
and two offices.
curving stairway.
rrace at the rear,
cture has an air
-ft. lot.
ors and much of
l surfaces, inside
l walls continue
nify the building
he painted walls
a natural finish;
built in and all
ood match stick
g. Viewed from
n of orderliness.
oto by Phil Palmer

OTH ANNIVERSARY

awneer

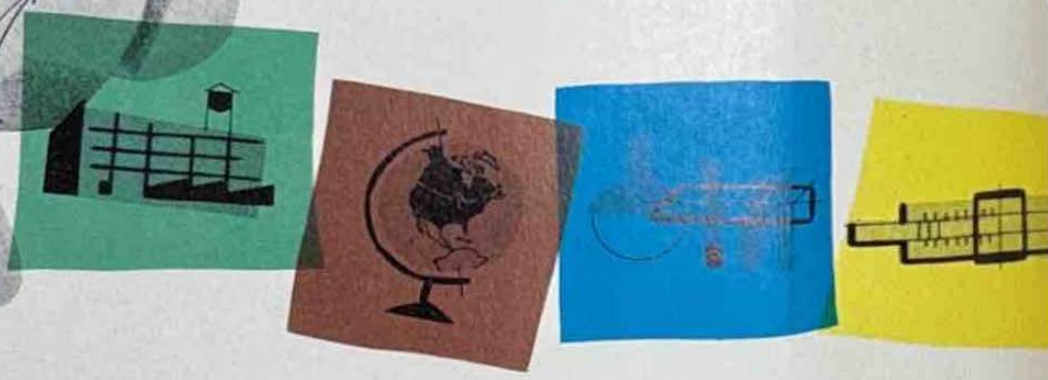
General Offices
LES, MICHIGAN

ARCHITECTURAL PRODUCTS DIVISION

1906–1956

co
Kawn
plus
50th





how kawneer assures your construction team

quality of materials, manufacture, design and application

a.

A complete line
unique inte
wide stile door
and **new** fu

An extensive
members and f
front design.
stripe

c.

Durable, alur
for store fron
and glare
K-Louvers, in
h

Kawneer p
Zourite facing,
variety of col
new bold-face

Kawneer will
water-resistan
job, including er

New unit w
buildings. Compl
a wide selection
and choic
standard units. Su

Field Representatives

roup of men thoroughly experienced in
y phase of architectural metal work. They
k with you and for you. Their job is to help
pt Kawneer products to your jobs.

Factories—Warehouses

ionwide warehousing in factories and
ehouses assures Kawneer customers
k service. Materials are just a few hours
y from any job. Your jobs get done faster,
e efficiently and economically.

tionwide Service

0 factory-trained dealers in towns and
s throughout the U. S. and Canada are on
job to service you. Their metal inventories
skills assure you a finished job in accord-
e with your plans.

50 Years of Production

This experience provides a storehouse of building front information, ideas and know-how. It's at work on your job from beginning to end, solving problems and working out new ways to help you.

Research and Development

A special department devoted to architectural products development and design. A crew of designers and research engineers who know the building field help your ideas grow.

Engineering Job Applications

Kawneer endeavors to help the architect and builder control construction costs wherever possible. By factory pre-assembly of metal wall units, for example, erection time can be predetermined to establish a fixed cost.

t front for 50 years with the Kawneer Touch



Architectural prescription: homey treatment

BECAUSE of the doctor-owner's belief that a homelike atmosphere is beneficial to his patients, the architect took his cue from the residential area in which this small medical office building is sited. It was designed to house the practice of the client and that of a physician tenant.

Except for a center court patio, the two floors are identical: waiting room, reception desk, two treatment rooms, laboratory and two offices. The upper floor is served by an elevator and a unique curving stairway.

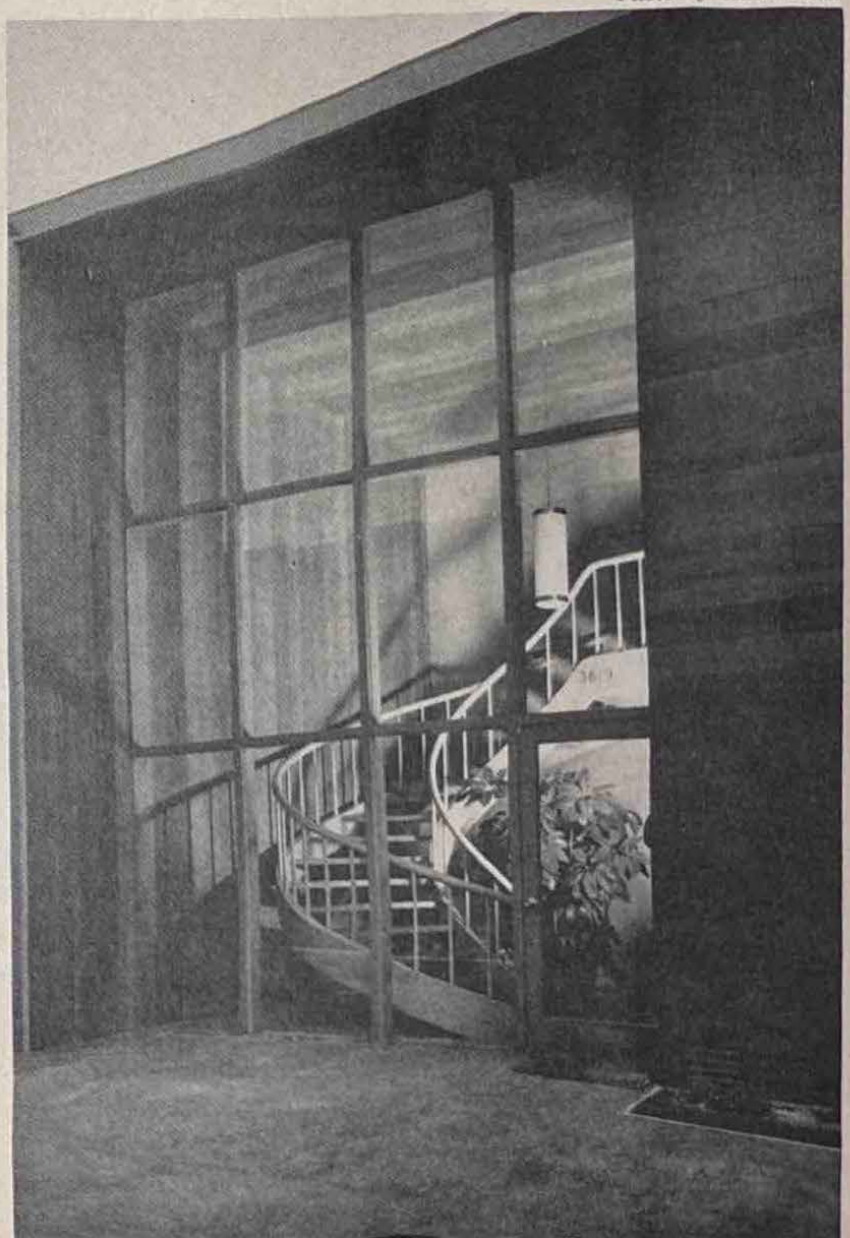
With the courtyard in the center and a screened terrace at the rear, all of the rooms get natural light and the entire structure has an air of spaciousness belying the narrowness of the 100x25-ft. lot.

To carry out the residential character, all exteriors and much of the interior are of a mellow California redwood. Wall surfaces, inside and out, are of surfaced 6-in. shiplap. The redwood walls continue from the interior out into the patio and terrace to unify the building with the outdoor space.

The redwood is finished in a natural, clear color; the painted walls are a soft gray green. The stairway is of oak, left in a natural finish; the woodwork is either redwood or birch.

Much of the furniture designed by the architect is built in and all of the windows, except those in the lobby, have redwood match stick drapes. Surfaces were kept simple for ease of cleaning. Viewed from the street, the building gives an immediate impression of orderliness.

Photo by Phil Palmer



Medical Office Building
San Francisco, California

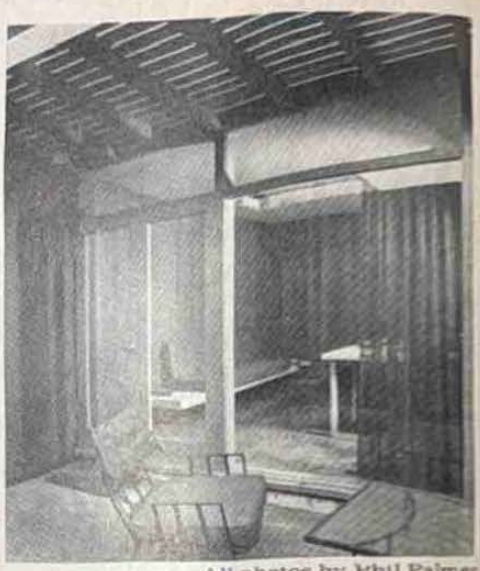
WARD THOMAS, AIA
Architect

A. L. VERDIER
General Contractor

STAIRWAY OF OAK dramatices lobby and main entrance. Second floor also is served by elevator.

Medical Office Building





All photos by Phil Palmer

LOOKING into waiting **room from patio** (left) which offers extra **space for use of patients** and visitors. Redwood **walls continue** into courtyard to unify building **with outdoor space** (below). Obscure glass, **backed by drapes** admits light to treatment **rooms (above)**.



Outline Specifications

Type of Construction: Frame on L-and T-shaped concrete continuous footings.

Exterior Walls: Surfaced California redwood 6-in. shiplap finished in natural color.

Roof: Flat, built-up composition, with rigid insulation.

Windows: Sugar pine casements and French doors.

Doors: Built-up redwood and Douglas fir, painted.

Floors: Concrete slab and rubber tile over wood.

Interior Walls: Surfaced California redwood 6-in. shiplap in natural finish and painted drywall.

Ceilings: Drywall.

Stairway: Oak in natural finish.

Built-ins: Lounges, etc., in redwood and birch.

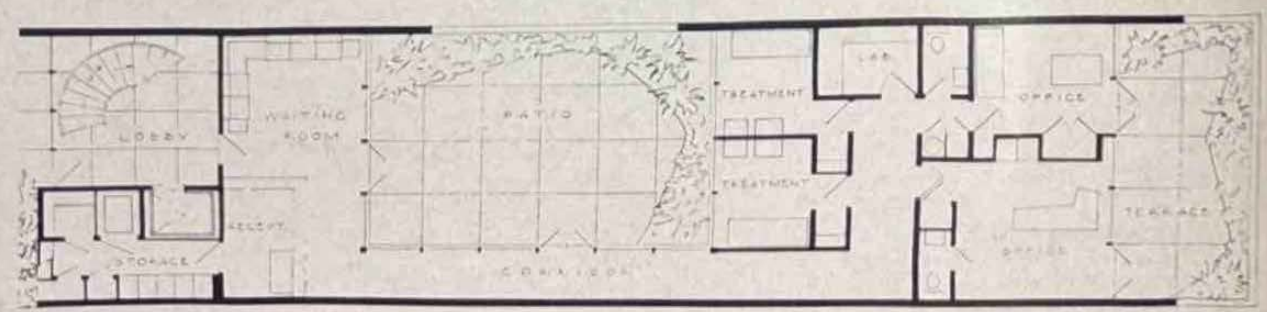
Heating: Forced hot air, one furnace for reception area and one for treatment area.

Total Area: 3,788 sq. ft., including patio; 2,959 sq. ft., floor space only.

Total Cost: $47,473, including patio, sidewalks and fences.

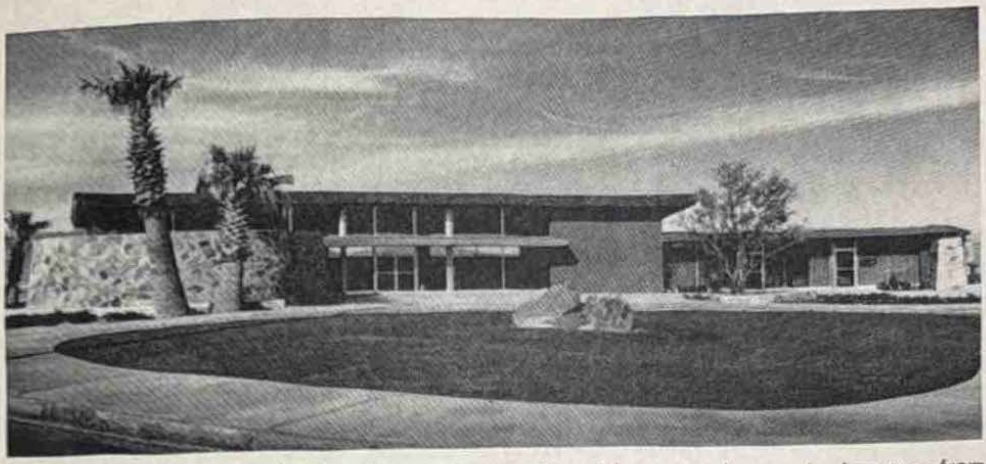
Cost per Square Foot: $12.53; $16.05, floor space only.

Date of Completion: August 1953.

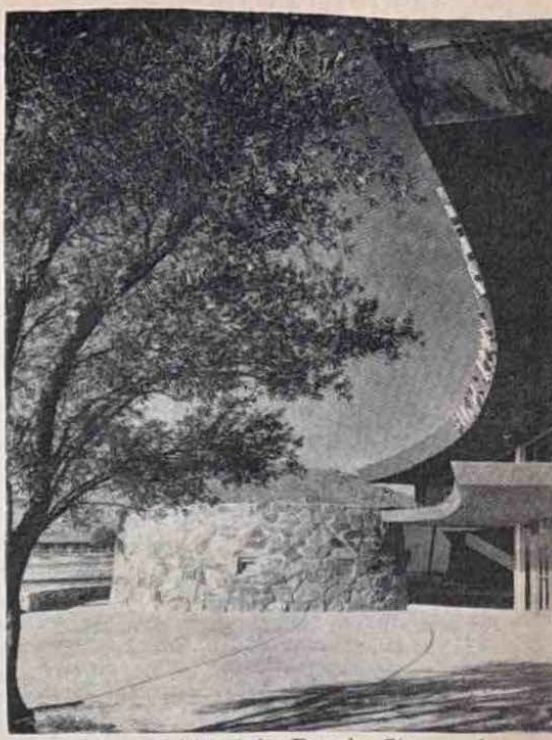


Security, dignity and beauty

Bank of Apple Valley
Apple Valley, California



WITH PLENTY of space available, architects have achieved beauty and grace in departure from traditional bank design. Wing at right has three suites of offices.



Photos by Douglas Simmonds

CURVED OVERHANG and native stone enclosure for vault highlight exterior. Detail view of vault shows how stone is used inside.

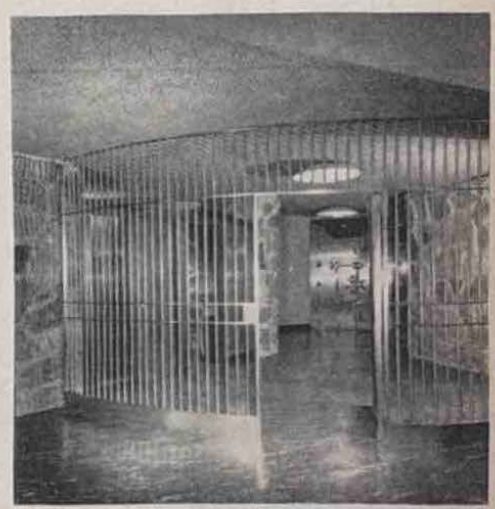
McFARLAND, BONSALL & THOMAS, Architects
WILLIAM T. WHEELER, Structural Engineer
DON CLOUGH, Mechanical and Electrical Engineer
BENNINGTON & SMITH, General Contractors

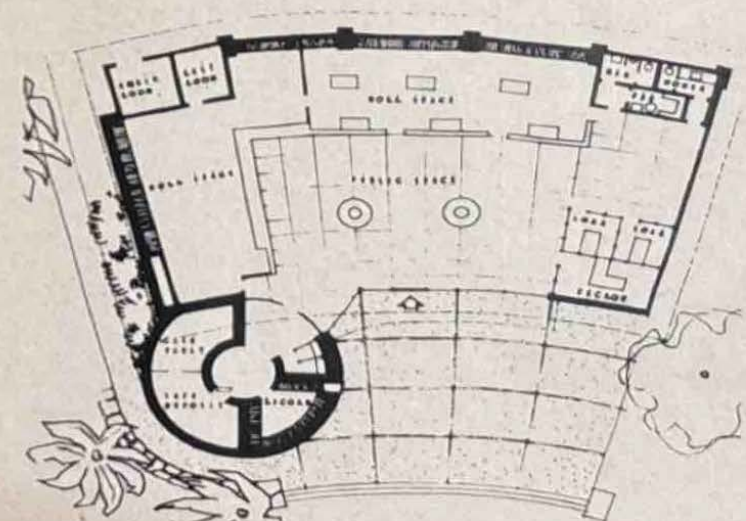
THE BANK EXECUTIVES wanted a structure that would meet all of the technical requirements of banking but also would be unique, beautiful and a credit to the community—a comparatively simple problem although often difficult to solve.

The architects took advantage of their clients' willingness to sacrifice the traditional massive effect in favor of beauty, utilizing native, natural stone with which to encase the vault and produce a focal point on which the eye would center. For complementary materials they selected frame walls, aluminum trim outside and walnut inside to create a bank that is warm and friendly in both its exterior and interior treatment.

Built on spread concrete footings, the structure has 5,300 sq. ft. of space in the bank portion and 2,700 sq. ft. in the wing on the right side (added a year later) which houses three suites of offices.

The project was cited for an AIA Award of Merit in 1955.





OUTLINE SPECIFICATIONS

Type of Construction: Frame with steel beams on concrete footings.
Exterior Walls: Frame with plaster, native stone and aluminum trim.
Roof: Flat, steel beam, composition built-up with rigid insulation.
Floors: Concrete slab with asphalt tile finish.
Windows: Aluminum.
Doors: Herculite, exterior; hollow core, interior.
Interior Walls and Partitions: Frame and plaster on gypsum lath with walnut trim.
Ceilings: Acoustical plaster.
Heating: Forced air.
Total Area: 8,000 sq. ft. (5,300 sq. ft., bank portion; 2,700 sq. ft., office wing).

Oregon's School of Architecture

Eugene, Oregon

ANNAND, BOONE & LEI
Architects

SIDNEY W. LITTLE, AIA
Consulting Architect



COMPLETED STRUCTURE will consolidate into one building the school's nine areas: architecture, interior architecture, landscape architecture, urban planning, drawing and painting, sculpture, applied design, art history and art education.

TWO ADDITIONS to the School of Architecture and Allied Arts at the University of Oregon will put under a single roof the nine areas formerly housed in three separate buildings.

Scheduled for completion by the fall term of 1957, the structure will be named Lawrence Hall in honor of the late Dean Ellis F. Lawrence, who organized the school in 1916 and served as its first head until 1945. Total area of the school will not be substantially increased but it is expected to be adequate for the next 10 or 20 years.

The old gallery wing has been demolished to make room for the three-story architecture unit, old portions of the building will be remodeled and a second new unit will be added.

Of particular interest to graduates will be a seminar room dedicated to the late Prof. W. R. B. Willcox, who directed the architecture curriculum for many years. Alumni who studied under his direction will furnish the Willcox Memorial Room.

The old patio will be retained and slightly enlarged; and the old Hawthorne tree will be returned to the area.

The architecture unit will be of reinforced concrete with curtain window wall construction for the exterior. The first floor will contain the main entrance lobby, the dean's office suite, lecture room and drawing review room. The second floor will be devoted to a series of small offices along the south side, with drafting and review rooms occupying the balance. The third floor will have offices and a drafting room.

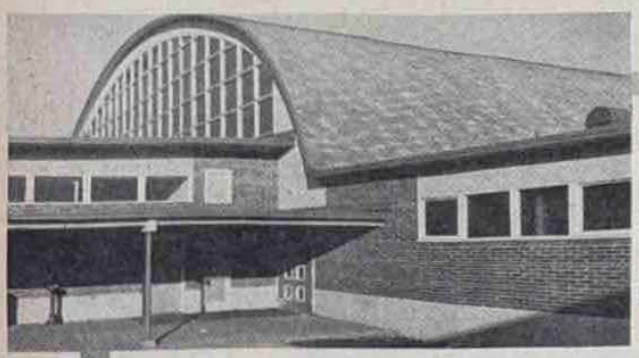
Attached to the architecture unit will be the library unit—an open first floor and second floor housing the passage between the new architecture unit and the present architecture building, as well as the library. Access to the various floors will be divided by a primary stairway on the west.

The first floor lobby and entryway will be of plate glass from floor to ceiling; the second and third floor window walls will be of aluminum.

Interior finish will be confined to the offices, lecture room and review rooms. The drafting room areas will be left as loft space. The exterior finish of the lecture room will be left in the rough and it is proposed that the mural designs developed by the school will be applied over this surface as a finish. The balance of the building will be painted architectural concrete.

The second addition, the sculpture unit will connect the present east wing, in which is now housed ceramics and weaving, to the present architecture building. It will be a one-story building with a concrete slab floor, Q-deck roof, concrete exterior, walls, and steel sash. Space will be provided for an entrance lobby, office, sculpture studios and storage, with a crane rail serving each of these areas.

The Portland architects and Dean Little have been assisted in planning by the school's staff, with Robert R. Ferens and Lionel T. Chadwick as coordinators in building design and Frederick A. Cuthbert as landscape consultant.



architect:
William Arild Johnson

contractor:
Barrows & Shaffer

masonry contractor:
Ray Shupp, Sr.

North Thurston High School features . . .

Attractive — Practical

Chehalis Red Norman Brick

Here is modern school design at its best . . . solid 9" masonry walls for permanence and fire safety . . . plus the warm, pleasing texture of the Pacific Northwest's most distinctive brick—CHEHALIS Smooth Red Norman Face Brick—to create a happy combination of eye-appealing design plus low maintenance costs. Only brick—and preferably beautiful CHEHALIS BRICK—can do the job so well.

SCPI

CHEHALIS BRICK and TILE Co.

BOX 868, CHEHALIS, WASHINGTON

FOR DOLLAR-SAVING TOOLS AND PRODUCTS

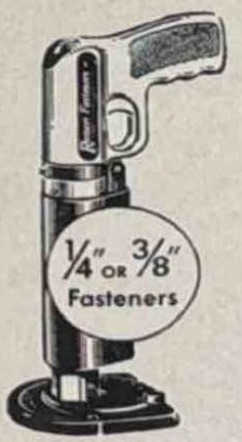
Check with CASCADE DISTRIBUTORS First!

KINDORF Steel Framing, Concrete Inserts, Channel and Framing, Pipe-Hanging Devices

GRIP-STRUT Safety Steel Grating — non-skid cat-walks, stair treads, platforms, etc.

BLACK & DECKER Complete line of industrial Electric tools — hammers, drills, saws

CADWELD PROCESS Bonded electrical connections



RAMSET FASTENING SYSTEM

Powder actuated tools and fasteners—Economical — Permanent — Fast — and safety approved in Oregon and Washington

AND we carry

- ★ STAR expansion bolts
- ★ BULLDOG self-drilling shells
- ★ NEW ENGLAND carbide masonry drills
- ★ Construction Fasteners of All Kinds

For
- **ON-THE-JOB SERVICE**
- **FAST LOCAL DELIVERY**
- **RENTAL EQUIPMENT**

CALL —

CASCADE DISTRIBUTORS, INC.

SEATTLE 1918 First Ave. So. SEneca 5625 •
SPOKANE 2228 North Division, GLenwood 8114 •
PORTLAND 1230 S.E. 7th Ave. BElmont 2-7887

Housing slows building volume in West

BUILDING PERMITS for the five Western states totaled $214,276,627 for April, a 15% drop from March and also a 15% drop from April 1955.

The decreases reflected a continuing trend toward less home building activity in the entire area. For example, Los Angeles County was down $16 million from the same period last year, mainly because of a big decrease in tract housing; Orange County was down $5 million; and San Bernardino County was down $4 million.

Although King County showed a $1¼ million increase, housing was down $700,000. Seattle and Portland also reported decreases in housing starts.

On a statewide basis, only California showed a drop from April of last year, 21%. Oregon was up 17%; Washington, 16%; Montana, 4%; and Idaho, 7%. This is the first time this year that the Washington total has risen above last year's volume.

Two states reported decreases from March. California was down 22% and Montana, 38%. Oregon, Washington and Idaho reported increases of 22%.

By the end of April, the 116 building permit agencies participating in the survey, had recorded a total of $846,821,642, a bare $2,566,140 higher than the first four months of 1955 (and a 3% increase).

Only one state, Washington, is running behind last year. With $94,491,654 that state's volume is down 10%. Montana shows the highest rate of increase, 34%, with a dollar volume of $8,194,907 for the four months. Oregon with $42,555,766 is up 5%; Idaho with $6,944,538 is up 5%; and California with $697,200,917 is up 1%.

Following is a breakdown of building permits issued by several of the major agencies during March.

	DWELLING UNITS		COMMERCIAL & INDUSTRIAL		PUBLIC	
Portland	145	($ 1,619,200)	30	($1,253,735)	4	($ 655,000)
King County	647	(6,452,175)	66	(1,977,417)	5	(718,195)
Seattle	221	(3,385,685)	26	(857,630)	1	(1,350,000)
Tacoma	209	(847,519)	50	(695,498)		
Los Angl. Co.	1655	(19,185,871)	205	(3,963,650)	143	(1,495,340)
Orange County	840	(9,794,217)	35	(736,915)	11	(292,992)
Sacrmnto. Co.	582	(5,082,739)	51	(299,770)	9	(289,080)

Building Permit Totals for 116 Western Agencies for April 1956

CALIFORNIA	Apr. 1956	Mar. 1956	Apr. 1955
Alameda County	$ 2,786,750	$ 4,314,112	$ 6,139,263
Anaheim	2,851,141	4,153,750	4,700,865
Bakersfield	1,240,204	1,537,180	892,568
Burbank	1,955,781	822,046	1,001,776
Contra Costa County	4,175,844	6,759,649	4,531,884
Fresno	1,730,381	2,462,608	4,149,625
Fullerton	1,823,007	4,678,395	4,029,165
Glendale	1,519,776	1,546,606	2,167,234
Inglewood	836,130	1,057,852	879,158
Long Beach	3,800,220	17,413,290	9,493,925
Los Angeles	36,499,805	40,122,647	35,386,162
Los Angeles County	29,879,118	42,065,510	46,143,350
Oakland	3,938,634	3,210,475	2,493,976
Ontario	1,321,380	1,125,562	483,167
Orange County	11,196,118	6,420,135	16,292,690
Palo Alto	695,228	3,346,119	1,524,486
Pasadena	1,398,262	2,741,543	1,766,772
Pomona	351,017	3,662,169	1,117,118
Richmond	610,545	1,157,197	434,300
Riverside	2,796,752	2,362,844	2,460,438
Sacramento	3,384,584	2,596,933	2,296,318
Sacramento County	5,726,688	7,106,782	5,604,158
San Bernardino	1,107,959	2,476,214	2,659,220
San Bernardino County	4,242,468	5,563,527	8,175,413
San Diego	8,588,699	10,711,618	6,125,265
San Diego County	3,615,900	3,495,120	3,707,082
San Francisco	5,515,258	4,460,900	4,830,984
San Jose	5,270,810	5,848,274	6,176,739
San Mateo	1,269,986	1,013,342	2,083,923
San Mateo County	1,762,611	2,472,350	3,014,658
Santa Ana	1,299,994	1,889,692	2,420,745
Santa Monica	1,523,557	1,628,531	1,302,961
Stockton	1,700,413	740,615	766,945
Sunnyvale	1,052,900	2,560,795	1,865,152
Torrance	4,155,543	2,937,828	5,425,115
West Covina	883,085	2,236,430	3,573,400
TOTAL	$162,506,548	$208,698,640	$206,116,000

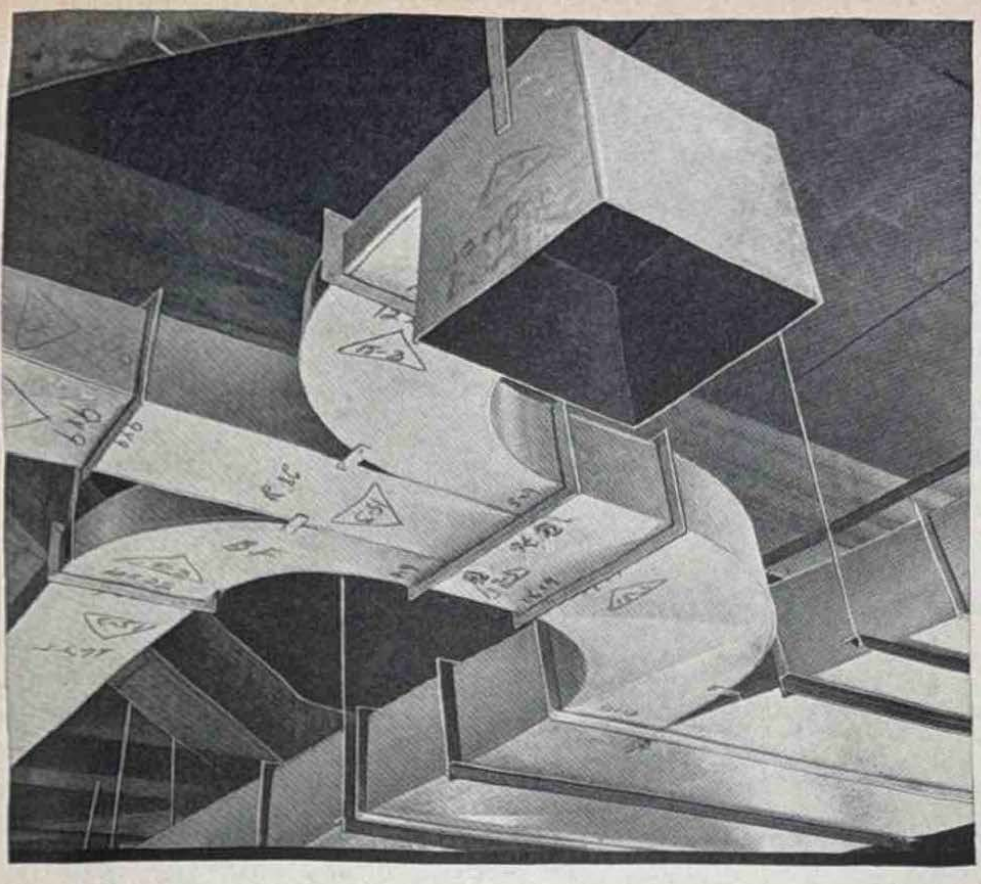
OREGON	Apr. 1956	Mar. 1956	Apr. 1955
Albany	$ 497,600	$ 82,200	$ 52,600
Astoria	46,321	59,328	63,703
Baker	57,960	41,967	122,863
Bend	134,635	107,500	181,790
Coos Bay	109,843	108,880	125,885
Corvallis	374,415	287,547	150,410
Eugene	261,535	310,661	365,972
Grants Pass	134,590	65,130	94,125
Gresham	135,800	211,200	18,000
Hillsboro	95,560	223,300	96,950
Klamath Falls	359,527	337,490	223,260
LaGrande	17,949	57,640	345,499
Lane County	1,461,742	834,777	1,049,237
Medford	206,713	285,448	158,800
Multnomah County	2,453,131	2,572,425	2,647,934
North Bend	42,788	101,390	28,820
Oregon City	315,360	31,700	20,335
Pendleton	529,719	209,845	51,250
Portland	5,302,375	4,295,520	4,538,565
Roseburg	208,565	88,735	117,445
Salem	429,064	470,498	800,231
Springfield	156,225	197,486	205,240
The Dalles	146,478	110,342	96,744
TOTAL	$ 13,477,895	$ 11,091,549	$ 11,555,658

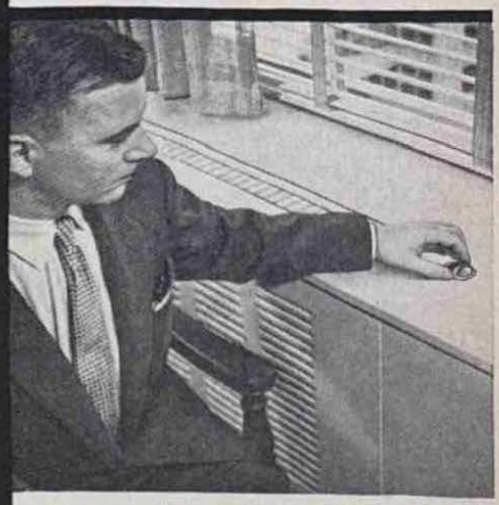
WASHINGTON	Apr. 1956	Mar. 1956	Apr. 1955
Aberdeen	$ 81,327	$ 80,608	$ 76,097
Anacortes	45,670	148,930	210,935
Auburn	40,825	37,720	71,950
Bellingham	562,228	407,569	303,391
Bremerton	265,578	605,276	123,425
Centralia	115,317	28,096	81,820
Chehalis	208,068	39,927	65,000
Clarkston	71,355	97,312	133,408
Ellensburg	116,660	25,600	79,011
Ephrata	288,471	267,140	289,866
Everett	325,627	156,408	259,003
Kelso	45,300	45,200	46,300
Kennewick	74,425	118,100	331,550
King County	9,131,092	5,702,036	7,885,895
Kirkland	67,850	79,050	65,820
Longview	292,166	73,231	328,370
Moses Lake	381,711	801,436	586,468
Olympia	243,563	218,040	198,206
Pasco	73,835	105,225	215,280
Pierce County	2,307,218	2,027,595	2,159,850
Port Angeles	255,190	95,100	58,825
Puyallup	91,980	27,325	82,400
Ritzville	39,700	25,500	66,800
Seattle	8,339,605	6,857,290	6,259,905
Shelton	132,425	269,400	35,500
Spokane	2,683,552	2,725,600	2,689,176
Spokane County	1,760,980	2,308,308	3,262,576
Sumner	40,689	33,001	25,500
Tacoma	1,720,896	1,502,115	752,623
Vancouver	733,695	647,169	407,533
Walla Walla	215,513	593,093	467,935
Wenatchee	1,648,641	216,390	258,770
Yakima	539,540	697,278	455,495
TOTAL	$ 32,940,692	$ 27,062,068	$ 28,334,617

MONTANA	Apr. 1956	Mar. 1956	Apr. 1955
Billings	$ 580,400	$ 1,095,000	$ 535,600
Bozeman	121,000	39,000	133,100
Butte	166,115	61,986	66,544
Glasgow	80,124	11,525	23,820
Glendive	111,627	129,874	89,575
Great Falls	472,720	1,284,381	911,543
Helena	318,200	958,385	180,438
Kalispell	205,251	15,400	162,214
Lewistown	59,250	109,500	48,650
Livingston	41,276	32,600	35,375
Miles City	20,934	128,320	1,627
Missoula	260,710	51,178	163,150
TOTAL	$ 2,437,697	$ 3,917,149	$ 2,351,636

IDAHO	Apr. 1956	Mar. 1956	Apr. 1955
Boise	$ 442,992	$ 377,618	$ 477,682
Caldwell	103,715	*	*
Coeur d'Alene	621,750	164,400	315,570
Idaho Falls	572,230	216,700	627,714
Jerome	310,150	56,625	24,950
Lewiston	202,932	176,085	313,400
Nampa	101,125	234,725	213,025
Payette	5,900	41,760	4,750
Pocatello	141,041	202,364	250,372
Sandpoint	46,150	34,550	14,200
St. Maries	41,500	Nil	7,500
Twin Falls	324,310	874,170	280,750
TOTAL	$ 2,913,795	$ 2,378,997	$ 2,733,603
GRAND TOTAL	$214,276,627	$253,148,403	$251,091,514

*Totals not available





A unique feature of the Equitable Building's air-conditioning is 1,180 of these air blending units. There is a blender installed in every perimeter office. The units are connected to the central duct system and they act as independent thermostats delivering conditioned air according to an individual's wants.

Pinched inside a space 11½ inches deep–

Steel ductwork stands rigid air-conditioning test

The 25-story Equitable Building is San Francisco's newest skyscraper and the city's first office building to be completely air-conditioned. The Scott Nelson Company, Mechanical Contractors, had a job on their hands fitting a duct shape in the 11½-inch furred ceiling space. The problem was to fabricate ductwork flat and narrow, yet rigid enough to withstand constant vibration and pulsation. Adding frame reinforcement to the duct was only part of the answer. The rest depended on the selection of the right metal sheet.

The job required metal properly ductile to form sharply angled, tight seams; yet rigid enough to prevent seams from cracking or opening under the stress of high velocity airflow. The Scott Nelson Company selected steel . . . USS Galvanized Steel Sheets for the job . . . and report the USS sheets did a perfect job.

Free Booklet! PA&B-5

UNITED STATES STEEL CORPORATION
COLUMBIA-GENEVA STEEL DIVISION
120 MONTGOMERY STREET
SAN FRANCISCO 6, CALIFORNIA

Please send me your free handbook that gives useful information on the production, properties and characteristics of steel sheets.

*Name*_____

*Address*_____

*City*_____ *State*_____

USS Steel Sheets

USS

UNITED STATES STEEL

Integration of the arts in architecture

(Continued from page 15)

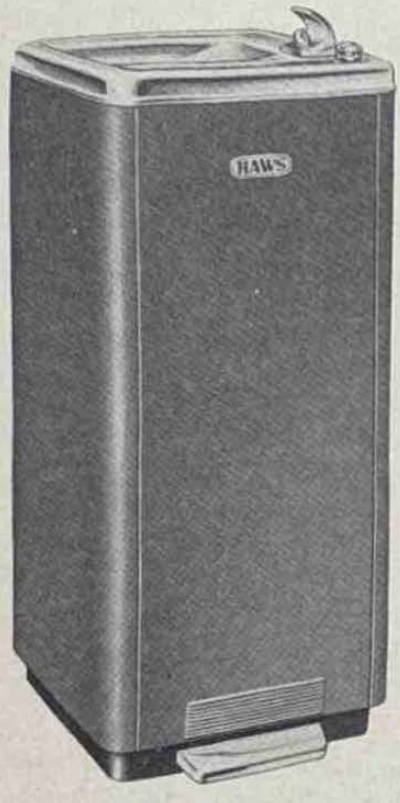
portunities as a challenge. Industrial, commercial, educational and recreational buildings all arouse his enthusiasm and call forth exciting, practical solutions. Since commercial and industrial structures do have a shorter lift, the art should be conceived with this limitation in mind: inexpensive, transportable expressions that can be redesigned as necessary. Educational recreational and religious buildings, however, require statements projected with vigor and insight. Contemporary living can be reflected with an impact that will increase the civic value of a structure as it ages. Thematic material visualizing what our way of life means and where it is leading can produce an integrated architecture of **lasting** interest.

As our society moves forward, opportunities for spiritual rejuvenation through self-evaluation must be created. Our timidity will be conquered if we realize that within our power to see ourselves honestly lies the greatness of our democracy. With new mediums at his command and a sense of historical purpose to direct his efforts, the architectural artist can create buildings that will stand as an inspiring revelation of our past and as a testament to our faith in the future. The roll of the artist is developing as the architect grows. No longer is he thought of as a specialist, but as a broad creative personality, capable of contributions vital to the healthy growth of the building professions.

True integration can only return when the architect and artist sit down to break honest bread together and when the architect insists that the artist be capable of executing every step of his work, since personal command of technique is the only way creativity can be evolved. As John Steinbeck recently wrote, "People need responsibility. They resist assuming it, but they cannot get along without it. Man is a double thing . . . a group animal and at the same time an individual. And he cannot successfully be the second until he has fulfilled the first."

distinctive...
reliable...
HAWS
ELECTRIC
WATER
COOLERS!

Add beauty and convenience to your interior plan! Specify HAWS Coolers—designed in smooth, functional lines that complement today's architecture—with custom-styled cabinets, lifetime stainless steel tops, chrome trim. They are ideal for school, office, restaurant or cafeteria, commercial, industrial and institutional application.



No complex planning is necessary! HAWS Electric Water Coolers merely require an electric outlet, water source and drain. There are many models for many needs...bubbler faucets, bottle cooler types, fill-glass faucets...all with HAWS complete sanitation features.

HAWS also features complete lines of drinking fountains and Emergency Eye-Wash Fountains...also **KRAMER Flush Valves** for every make plumbing fixture that requires an automatic closing valve.



For full information and specifications, see the HAWS Catalog. Write today!

HAWS DRINKING FAUCET CO.
1443 FOURTH STREET (Since 1909) BERKELEY 10, CALIFORNIA

Steel framed houses get push in Far West

Architects and engineers in the West are showing increased interest in the use of light structural steel in the framework of new single-family dwellings. This is indicated, at least, by an increasing number of experimental projects being developed in this area.

One such project is the X-100 research house which Eichler Homes of Palo Alto, Calif., is building in San Mateo Highlands for the primary purpose of showing the public what may be expected in contemporary home design within a few years. A. Quincy Jones, AIA, and Frederick E. Emmons, AIA, are the architects for the home, scheduled for public viewing about September 1. Color coordination is under the direction of Matt Kahn of the fine arts department of Stanford University.

There seems to be a reasonable possibility that steel framing for single-family units can become competitive costwise with conventional material according to Ralph W. Seely, vice president of sales for U. S. Steel's Columbia-Geneva Division.

"Steel permits the use of slim structural members and longer spans," Seely points out, "providing greater footage of usable space, permitting greater freedom in floor plan and design and allowing a broader use of materials for walls and roofs."

Corrugated aluminum sheeting applied on steel frame without scaffolding



Sheeting impaled on aluminum studs that had been end welded to the frame cuts labor cost in half on Long Beach job

When a new type of dome-shaped storage warehouse, without interior bracing, was built recently for Kaiser Gypsum Co. in Long Beach, Calif., the corrugated aluminum sheeting was secured with end-welded composite aluminum Rivweld studs at an estimated labor cost saving of at least 50%.

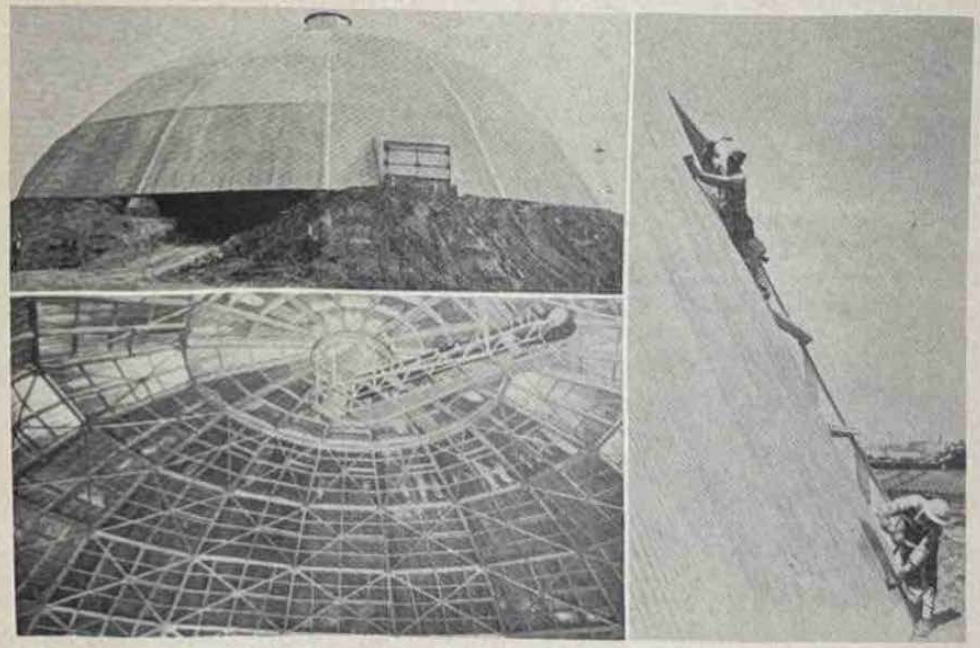
Actually, stud welding was the only fastening method considered by the designers, Kaiser Engineers, Oakland, because of its speed and the fact that it could be accomplished without interior scaffolding. Operators with portable Nelson stud welding guns simply climbed over the steel framework to which the studs were welded. Use of other types of fasteners requiring scaffolding would have doubled labor costs, according to M. M. Walker, superintendent for Mitchell Steel Inc., Torrance, Calif., who installed the corrugated aluminum sheathing.

Twelve thousand Nelson composite aluminum Rivweld studs were used on the job. Two Nelson stud welding guns were employed, operating off a single Nelwelder battery power unit. Templates established stud locations. The aluminum sheeting was impaled over the studs with rubber hammers and the ends of the studs were then upset.

Since the portions of the composite studs that come in contact with the sheeting are aluminum, there will be no electrolytic action between the sheeting and the steel building framework. Appearance of the building was improved because the studs are almost invisible.

The 35,000-ton capacity rock storage building is part of an expansion costing about $3 million, which began in March 1955. It increased the productive capacity of the Long Beach plant to 210 million square feet of gypsum board and lath and 50,000 tons of plaster annually.

The plant supplies the 19 counties of southern California, southern Nevada and Arizona and employs 150 persons, with an annual payroll of more than $750,000.



KAISER GYPSUM'S unique new bulk storage warehouse at Long Beach, top, and the steel framing of interior, bottom, to which Rivweld aluminum studs were welded by Nelson guns. Corrugated aluminum sheeting then was impaled on the studs and studs were upset. Construction without scaffold saved 50% of labor costs.



Lightest handful of concrete masonry material...

CASCADE PUMICE

The extra light weight of Cascade Pumice Concrete saves you money on handling costs, speeds up building. When weight is a factor, always specify Cascade Pumice Concrete for best results.

Cascade Pumice Concrete gives you tops in:



LIGHT WEIGHT
STRENGTH
FIRE RESISTANCE
HIGH INSULATION VALUE

Insist on A.S.T.M. specs.:

When specifying ANY concrete masonry demand blocks "in accordance with ASTM specs., on adequate foundation." Also Bond Beam Blocks, used where needed, end masonry problems.

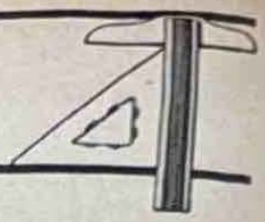
WILLIAMSON Cascade PUMICE

Plant and Office:
P. O. Box 1083 · Bend, Oregon

Pacific Architect and Builder

T-square talk

about architects • planners • engineers



NEW PARTNERSHIP: Walter Wagner, AIA of Fresno has announced the formation of a partnership with six key men who have been associated with his office for the past 10 years. The firm is now known as Walter Wagner & Partners, architects and engineers.

Partners of Wagner, who also is a civil engineer, are Paul Harris, AIA; James A. Blayney, mechanical and electrical engineer; Henry DuPertuis, architect and manager of the firm's Merced office; Paul Schoenwald, architect; Will Thomas, architect; and Harry Bode.

The firm is one of the largest in the San Joaquin Valley, specializing in the design of public schools.

Gordon N. Johnston, AIA, and Robert W. Evans, AIA, have announced their association for the practice of architecture under the firm name of Johnston & Evans, Associates, in the Washington Building, Tacoma (BRoadway 4768).

NEW ASSOCIATES: Two project directors, Harry Saunders and Kaz Nomura, have been made associates in the architectural firm of A. Quincy Jones & Frederick E. Emmons, Los Angeles. Saunders is a graduate of Texas A&M College, Nomura of the University of Southern California. Both have served with the firm for several years. Emiel Becsky continues as associate architect.

ON THE MOVE: Raymond Kermit Thompson, AIA, and Polly Povey Thompson, AIA, are occupying the home and office at 1728 N.W. 32nd Ave., Portland, of Herman Brookman, FAIA, who left in April to spend a year traveling in Europe. The Thompsons were formerly located in the George White Veterans Building.

NEW OFFICE: Neil Farnham, formerly on the staff of Hollis Johnston and of Stanton & Johnston, has opened his own office in his home at 2850 N.W. Westover Road, Portland. Farnham, an associate member of the Oregon chapter, AIA, is a graduate of the University of Oregon.

PRIVATE PRACTICE: Thomas M. I. Leake, AIA, of Boise has severed his contract with Boise Payette Lumber Co. to devote full time to his private architectural practice. While serving as consultant architect and product development director for the lumber firm the past two years, Leake has engaged in private work at 1321 Vista Ave., where he will continue to occupy offices.

Rodney James Grider, who joined Leake's staff upon graduation from the University of Idaho in 1953, has been named associate and designer in the new endeavor.

Leake has been active in affairs of the Northwest Regional Council, AIA, and has served as an officer of the Idaho chapter, of which Grider also is a member.

DIED: Robert L. Tidball, 44, structural and mechanical engineer, died May 1, in Veterans Hospital in Portland after a long illness. He was a graduate of Oregon State College. Before opening his own firm in 1946, Tidball served in the Navy and was in the power design section of the Corps of Engineers.

Albert A. Geiser, 64, retired architect, died May 4 in Seattle, where he had designed many commercial buildings and residences. Born in Chicago, he had lived in the Northwest since 1907.

Homer B. Mathes, architect and lifetime resident of Bellingham, Wash., passed away April 27 at the age of 51.

HONOR PROF: University of Idaho students of Ted J. Pritchard, who heads the department of architecture, presented him with a wrist watch, marking his 30 years of teaching at the Moscow institution.

Paul L. Blanton of Pasco, Wash., president of the student AIA chapter, made the presentation during the department's annual dinner. Principal speaker was Carroll Martell, AIA, of Spokane, who discussed "Education of an Architect."

Blanton and Paul L. Duffy shared first place honors in the C. F. Hummel prize awards, with William E. Ostrander taking third. An elementary school was the subject of this year's design competition, sponsored by the architectural firm of Hummel, Hummel & Jones and Chester Shawver, associate, of Boise.

AWARDS: Robert P. Darlington of Pullman, Wash., on a year's leave of absence from Washington State College where he is an instructor in architectural engineering, won the $2,500 third prize in a nationwide competition for new design and construction ideas for aluminum curtain wall buildings. Darlington is now working on his MA degree at the University of Illinois.

Among the 15 honorable mention award winners in the contest sponsored by Aluminum Company of America and the National Association of Architectural Metal Manufacturers were three West Coast entrants: Wendell H. Lovett, AIA, Bellevue, Wash.; Dike Nagano, Culver City, Calif.; and Richard Blanchard, San Francisco.

TO HONORARY: The two West Coast chapters of Tau Sigma Delta, scholastic honorary in architecture and allied arts, have announced election of new members.

Iota chapter at the University of Washington has initiated Richard Alden, Alvin Dreyer, Ching-Hwa Hsiao, Dean Latourell, Richard Lundstrom, John K. Miller, Joseph Onuma, Gerard R. Torrence, Barry Upson and David Wright.

New members of the Lambda chapter at the University of Southern California are Sheldon B. Caris, Loch Crane, Charles R. Erickson, Harry Gittelson, John A. Rinaldi and Paul S. Wuesthoff.

Lambda chapter marks its 25th anniversary this year while Iota chapter was founded in 1924.

SAN SALVADOR PROJECT: Raymond R. Shaw, AIA, and William D. Coffey, structural engineer, both of Los Angeles, have been selected by the Banco Hipotecario de El Salvador to design and supervise construction of its new $2 million head office building, the first multistoried steel frame structure to be erected in San Salvador. With 95,000 sq. ft. of floor space, it will comprise a basement and three or four floors above.

Correction: The item in PA&B for March concerning the move of Jesse W. Green, AIA, to 3907 Duquesne Ave., Culver City, Calif., was incomplete since it failed to mention that he joined forces with Thomas B. McGhee.

AIA OFFICE MOVES

The Northern California chapter, AIA, has expanded and moved into new offices at 47 Kearny St. in San Francisco. There will be two telephones: DOuglas 2-7397 and DOuglas 2-3041.

Role of architectural school outlined by director

A worthy school does not teach architecture but creates a climate into which students come for direction, inspiration and guidance, according to Arthur P. Herrman, FAIA, director of the School of Architecture, University of Washington.

He addressed a group of Tacoma high school students who were guests of the Southwest Washington chapter, AIA, at its monthly meeting April 24.

"Architecture is not only a science of building," Director Herrman explained. "Vitruvius defined it as a combination of commodity, firmness and delight. To redefine it, architecture is primarily emotion—the emotion of the designer expressed in materials with the resultant effect on the emotion of the observer." Other excerpts from his talk:

"The architect is born not made. An architectural climate is created for five years, the student's perception sharpened, his imagination and sensitivity developed, his taste and judgment formed. These are fundamentals gained; the rest is his.

"The 'complete' architect is not trained in five years. The danger in architectural training today is that such close association is forced in school that the new architect is frustrated in the outside world.

"The prospective architect must possess the qualities of fondness for artistic and spiritual things. He must know how to draw and to communicate graphically and he must know people. If he possesses these things, he has great opportunity for self-expression. Since the architect has a responsibility to society, he must discipline himself to the practical aspects as compared to the designer who designs, then rationalizes. Without technical skill and imagination, the man will fail as an architect.

"He must then communicate on the level of society in which he works. He must know many things—politics and community problems, for instance—and must gain people's respect and confidence. The physician deals with one individual plus mysticism; the architect deals with one individual plus society. Danger lies in too much technical training without a citizen's responsibility."

Plug for Aspen Conference

As an opening feature of the evening's program, Gerald Davis, marketing manager of Heidelberg Brewing Co., presented a color film of the fifth International Design Conference held at Aspen, Colo., in the summer of 1955. Stating that the 1956 sessions will be devoted to "Ideas on the Future and Design," he explained that the conference stresses the importance of contact between all fields of design and makes possible discussion and study of all pertinent problems occurring in each field.



TACOMA AREA ARCHITECTS and student guests meet in Scotty's Caravan Inn to hear Arthur P. Herrman (seated, center of photo), director of the School of Architecture, University of Washington.

Cut hours of travel time to minutes...FLY WCA!

Serving Paul Bunyan's Empire. Fast, frequent service to 44 communities in Washington, Oregon, and Idaho. Fly West Coast Airlines . . . both passenger service and air freight.



Materials – Products – Tools

and the latest literature

ROOFING STONES: Coarse aggregate roofing stones for low pitch, built-up roofs are now available in a range of 10 colors: light green, dark green, bronze, brown, blue, red, coral, silvertone, sea green and rose.

Colors are fired on the aggregate. Uniform gradation allows the pebble-size stones—called Ceramic-Color—to pack tightly, producing a shadow effect and appearance of depth.

(Item No. 1)

CLOSET DOOR: To resist warping, Metaloc sliding closet doors are completely vapor sealed internally and have built-in expansion seams to take up any expansion or contraction.

Faces of the doors are Masonite Duolux, three-ply mahogany or a combination of the two. They are metal edged and framed. Doors are delivered ready for installation with complete steel track, nylon rollers, pulls and floor guide.

(Item No. 2)

FASTENING TOOL: Ramset this month will begin marketing a fastening tool developed to handle many jobs between the light duty hammer and nail and heavy duty, powder actuated fastening tool.

With Shure-Set a worker can manually drive a fastener through ¼-in. steel. It seats a specially constructed fastener into a variety of materials, such as concrete, concrete block, cinder block, brick and steel. It can be used where anchors, toggle bolts, expansion shields and concrete nails were formerly used and ends the tedious job of star drilling or the aggravating job of pounding at stubborn concrete nails.

(Item No. 3)

PLASTIC PANELS: Women will be particularly pleased with a Fiberglas reinforced plastic sheet inlaid with coarsely woven natural fabrics whose reflected light does not change the colors of cosmetics, flesh or clothing.

The Rend-O-Lite flat and corrugated sheets, manufactured by Commodore Industries, contain jute netting, natural burlap, bleached burlap, Osnaburg cloth or Philippine Grass.

(Item No. 4)

WEATHERSEAL: A plastic backed, woven wool pile weatherseal that will not mat or take a set no matter how many times it is pounded has been developed by Schlegel. The stripping is impervious to Arctic cold, summer heat or strong cleaning solutions and will not corrode, rot or get moldy.

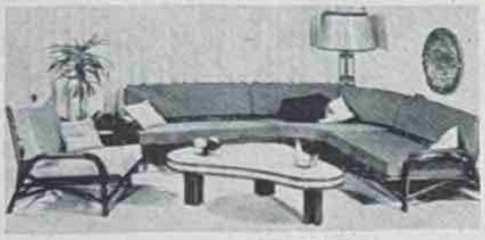
A selection of 90 extruded shapes is available for use on prime and secondary windows of all types and on all styles of doors or sliding panels, including plate glass.

(Item No. 5)

PANEL SAW: For easy, one-man cutting of large plywood, Masonite or plastic panels, Richard C. Bennett offers the two-way panel saw mounted on a turntable to permit either ripping or crosscutting. The saw runs between tubular steel tracks on a sturdy wood frame. The unit measures 12 ft. long, 6 ft. 7 in. high and 24 in. wide.

(Item No. 6)

FURNITURE: An original group of casual furniture with what the designer calls authentic Nordic ancestry



NORDIC FURNITURE

has been added to the Ritts line.

The Scandia group features hazelnut finish, a touch of woven cane, ash marproof plastic table tops, foam rubber cushions and imported upholstery designs. Included are Viking chairs, two-piece sectionals, curved corner units, dining groups, bar and bar stools and other pieces.

(Item No. 7)

TROFFER: To save space for air conditioning ducts, piping, etc., Lighting Products is offering Thin-Lite troffers that require only 2⅞ in. depth in the ceiling.

Three models are available: the one-piece polystyrene louver panel, the Corning No. 70 low brightness flat glass lens and a formed acrylic diffuser.

(Item No. 8)

DECORATIVE BOARD: Using "even the squeal," Pack River Tree Farm Products has come up with a distinctive waferboard for interior use which combines the appearance of a three-dimensional pattern with good strength and stability.

Tenex is made of thin wood wafers bonded under heat and pressure with chemical resin to make a solid wood board ¼-in. thick. It uses debarked slabs and edgings that have all too often ended up in the sawmill burner.

(Item No. 9)

PLYWOOD FORMS: Eight to twelve re-uses of plywood forms before recoating is possible with a protective finish recently developed by L. Sonneborn.

A blend of synthetic resins in fast-evaporating solvents, Form-Saver permits clean, smooth stripping of the forms with no pitting of the concrete surface or transference of raised grain from forms to masonry.

(Item No. 10)

FASTENER: For faster assembly and better appearance of insulated metal sandwich and other curtain walls, Nelson Stud Welding has developed a stud welded construction fastener with an aluminum cap.

Setlock employs a steel shoulder type stud with serrated tip which is end welded to structural girts with the Nelson stud welding gun. The aluminum cap is placed over the serrated tip of the stud and driven into position with a tool which causes the aluminum to grip the serrations.

(Item No. 11)

SCAFFOLDING: Superior Scaffold is marketing a Double-Grip stud scaffold jack which can be quickly hung, without nails, on any exposed stud to provide instant scaffolding at low cost.

(Item No. 12)

GLASS DOORWALL: An all-aluminum sliding glass doorwall designed specifically for the volume builder is offered by Modern Specialties.

Mass produced at low cost, the Panorama offers twin-seal silicoated mohair pile weatherstripping, easy, noise-free operation, easy installation and a wide range of sizes.

(Item No. 13)



LOW COST DOORWALL

Latest Handbooks, Manuals and Literature

Yours for the Asking

STEEL BUILDING PANELS: Detroit Steel's latest catalog on Fenestra steel and aluminum building panels is packed with technical information, installation drawings and excellent photographs of completed buildings.

Material covers panels for long span structural floors, acoustically treated roofs and ceilings, the TAC system for reinforced concrete, fluted wall panel, fire partition, steel roof decks and reinforcing floor forms.

(Item No. 14)

ARCHITECTURAL PORCELAIN: Drawings give typical details for porcelain panels for curtain wall construction and facing in a 16-page brochure offered by Davidson Enamel Products. The brochure also includes four pages of illustrations showing schools, medical buildings, banks and other types of structures where the panels were used.

(Item No. 15)

GLASS BLOCK: Various glass block patterns manufactured by Kimble Glass, an Owens-Illinois subsidiary, are pictured and described in a catalog recently published by the firm.

Included are instructions and construction details for both large and small size panel installations in steel, wood frame, brick or brick veneer construction. The catalog also has a convenient table of dimensions, a section on how to calculate illumination and brightness, and tables on solar heat control and fuel savings.

(Item No. 16)

RADIANT HEATING: A. M. Byers has prepared a report featuring sketches of various types of radiant heating construction arranged in order of preference. Each sketch shows the position of the wrought iron pipe coils in the concrete slab and relation of coils and slab to the structural features of both on grade and above grade construction.

A one-page digest of recommendations discusses floor surfacing, heating slab, radiant heating coils, insulation base or fill, waterproof membrane and support brackets for radiant heating coils.

(Item No. 17)

LIGHTING SYSTEM: Wakefield's Sigma type architectural unit, a system of lighting and other services combined with movable partitions on 4-ft. modules, is featured in an eight-page bulletin. Drawings are used almost entirely to tell the story.

Text lists such advantages as maintenance of high illumination with low source brightness, control of brightness ratios, virtual elimination of shadows, reduction of specular reflection and flexibility.

(Item No. 18)

AUTOMATIC ELEVATOR: The elevator with the electronic brain, Autotronic, which automatically adjusts itself to peak load requirements, is explained in a well illustrated brochure put out by Otis. Drawings, charts and text are used to simplify, as much as possible, a description of the system for handling basic traffic patterns and detecting and reacting to traffic changes, either by an individual car or with an entire bank of attendantless elevators.

(Item No. 19)

WINDOWS: Complete stock sizes of Calco aluminum casement windows are given in a recent brochure produced by the new California firm. It includes installation detail drawings for brick veneer, solid brick and concrete block.

(Item No. 20)

AIR CONDITIONING: A two-page mean temperature difference table is just one of many tables and graphs contained in the 40-page engineering manual on air conditioning put out by Drayer-Hanson. The publication includes data on the company's ceiling suspended and floor mounted series of air handling units, plus a great deal of general interest information, such as recommended fan outlet velocities for residential, church, school classroom and other types of installations.

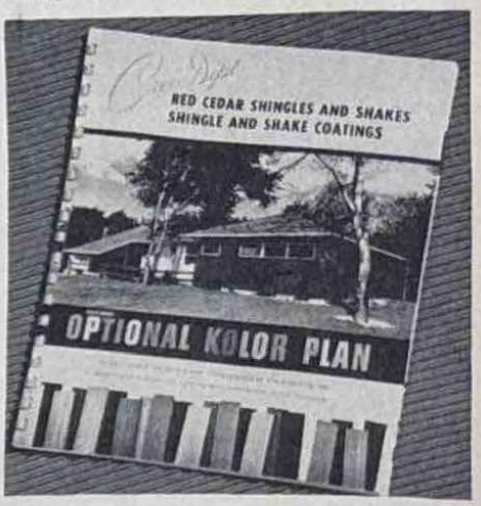
(Item No. 21)

CERAMIC TILE: Gladding, McBean and W. P. Fuller have joined forces to produce a decorating idea called California Coordinates that matches glazed ceramic tile and handprint wallpaper.

A full-color brochure shows off the five basic designs in 11 color combinations developed specifically for western homes.

(Item No. 22)

RED CEDAR SHINGLES: To provide greater flexibility in the selection of shingles, shakes and colors, Creo-Dipt



FLEXIBLE COLOR PLAN

has expanded its Kolor plan under which the factory primed shakes or shingles are sold as a unit with Fynal-Kote, a heavy bodied linseed oil base finish coating.

The plan is explained in a 40-page bulletin which also includes detailed information on the eight styles of shingles and shakes sold with Fynal-Kote, a 22-color chart, installation data and a two-page illustrated discussion on what happens when shingles are applied improperly.

(Item No. 23)

OFFICE PARTITIONS: Arnot Partition-ettes, Office-ettes and modular furniture are shown in some of the innumerable possible varieties in a 16-page brochure. The line features work stations that provide privacy without loss of valuable space and that are easily rearranged when necessary. Furniture is designed to cater to specific needs of each worker.

The booklet devotes space to construction and assembly features and shows a complete office layout for supervisory and clerical staffs.

(Item No. 24)

READER SERVICE

Pacific Architect and Builder
2418 Third Ave., Seattle 1, Wash.

Please send the literature or data about the material, products and tools listed on these pages.

MAY 1956

ITEM NO. (Circle those you wish): 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32

Name_____ Title_____

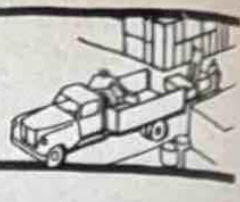
Firm_____

Address_____

City_____ Zone____ State_____

Builders and Suppliers

headlining the news



Seattle meeting scheduled for lumber producers

More than 100 leaders of the nation's lumber industry will meet in Seattle May 28-30 to consider ways of improving their products and services and otherwise strengthening their sales position against competitive materials. The occasion will be the 1956 spring meeting of National Lumber Manufacturers Association.

Among the speakers scheduled to address the lumber meeting at the Olympic Hotel are Reno Odlin, president, Puget Sound National Bank, Tacoma; H. R. Northup, executive vice president, National Retail Lumber Dealers Association, Washington, D.C.; Gilbert E. Morris, superintendent of building, Los Angeles, and Albert Balch, Seattle home builder.

Odlin will address a luncheon meeting of lumber association directors and committee members, May 28. Northup, Morris and Balch will participate in a panel discussion the same day on the subject, "A Long Look at Lumber's Future."

A highlight of the meeting will be a field trip of logging and sawmill operations of Weyerhaeuser Timber Co., at Everett, Wash., May 29.

• **Lionel J. Tilson** of San Jose and three others were killed instantly early in April in the crash of a single-engine Beechcraft Bonanza being piloted by the 41-year-old home builder. His wife Ann, 40; their daughter Judith, 15; and Vern S. Jopling, 50, Tilson's field manager, also died when the plane apparently lost a wing in a sudden, violent hailstorm and crashed, bursting into flames.

• **Champion bricklayer apprentice** of 1956 is Robert G. Neasham, 22-year-old apprentice from Santa Clara, Calif., who won his title at a six-day elimination contest held last month at the Union-Industries Show in Seattle.

Neasham won out over 37 other apprentices from the United States and Canada who participated in the eighth annual competition sponsored by the Bricklayers, Masons and Plasterers International Union.

• **Midwood Construction Co.** will start construction soon of the first homes in what is expected to be the largest single housing subdivision ever built in Orange County, Calif. the 400-acre site in the Long Beach-Garden Grove area, will include 1700 houses, a complete shopping center and other buildings at a cost of some $24 million.

• **The California Drywall Contractors Association** has been organized at Oakland by delegates from all three of the state's reigonal groups. New offices will be established at 608 S. Hill St., Los Angeles. Officers are Wayne Vaughn, Los Angeles, president; Paul Johnson, Oakland, first vice president; Hugh Hathcoat, Concord, second vice president; Fred O'Haver, San Jose, secretary; and Earl Kirby, Los Angeles, treasurer.

• **T Steel Corp.** of Seattle, manufacturer of long-span steel roof decking, has opened its Los Angeles office at 429 S. Western Ave. The new office is headed by John J. Miles, structural engineer, formerly with Young, Richardson, Carleton & Detlie, architects-engineers of Seattle.

• **Fenestra, Inc.**, formerly Detroit Steel Products Co., has opened its Portland branch offices at 337 Pittock Block, with Quenton Coble as sales manager.

Stockholders adopted the new com-

Built-in telephone outlets are a big selling point in today's home

says H. J. HARLOW, Jr., Harlow Construction Company, Sacramento, California



Homes built by the Harlow Construction Company have telephone outlets located for maximum convenience—in rooms where the family spends a lot of time. Concealed telephone wiring is another feature that adds to the livability and value of Harlow homes.

To successful builders like Mr. Harlow, who are setting living standards in the Pacific West, complete telephone planning is as basic as adequate electrical wiring. Pacific Telephone is always ready to help you plan built-in telephone facilities. Just call us and ask for our *free* Architects and Builders Service.

Specify built-in telephone facilities —a sign of good planning

Pacific Telephone

WINNER 1955
Award of Merit



Architects, Belluschi and Skidmore, Owings & Merrill.

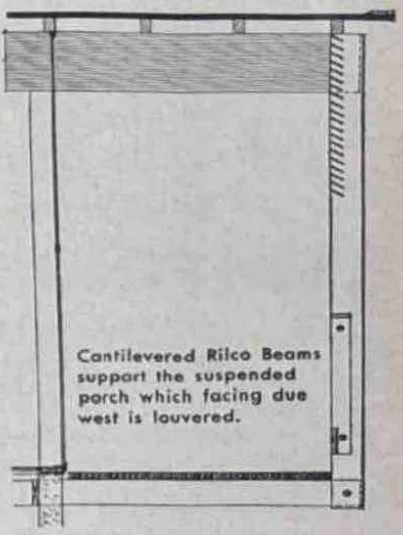
Consulting Structural Engineer, Cooper and Rose.

Rilco Beamed School Wins American Association of School Administrators Award

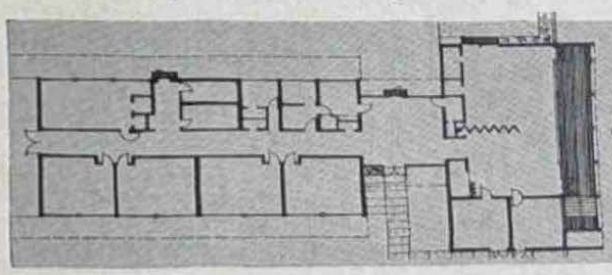
We don't know what part Rilco Laminated Beams played in winning the 1955 Award of Merit for the Tucker-Maxon School in Portland, Oregon. They must, however, have been instrumental in helping the architect to carry out this practical award winning design.

For graceful Rilco arches, beautiful beams, rugged trusses and four inch insulating cedar deck offer the warmth that only wood can give—warmth to the eye and warmth to the touch. And because each member is tailored to specification, Rilco imposes no design limitations.

Today Rilco Laminated Wood Members provide fire safety with less bulk to schools, churches, homes, factories and commercial buildings helping to fulfill new concepts of practical design for the architect. Rilco experience can be yours for the asking.



Cantilevered Rilco Beams support the suspended porch which facing due west is louvered.



Rilco Laminated Beams support roof over the preschool and dining area.

RILCO

works wonders with wood

RILCO LAMINATED PRODUCTS, INC.

ROOM 207 TACOMA BLDG., TACOMA 1, WASH.

Phone: BRoadway 2249

pany name at their annual meeting in Detroit in March. President H. D. Palmer explained that "the name Fenestra, the Latin word for window, has been inseparably identified with our company since 1907 when he entered the steel window field."

Incorporated in 1904 to make leaf springs for the then infant automobile industry, the company acquired in 1907 from an English firm the exclusive patent rights to manufacture and market the Fenestra window in the United States. Today's products which bear the Fenestra label also include wall, floor and ceiling panels, exterior and interior metal doors and roof deck.

• **Unit Masonry Association** of Seattle now has a full-time manager, Carl Robertson, with offices at 2413 Western Ave. He has been associated with a number of newspapers and trade publications, including Pacific Architect and Builder.

Founded in Seattle in 1953, the association has spread to many parts of the country and includes all elements of the masonry construction industry.

• **Pomona Tile Manufacturing Co.** has appointed Richard L. Scherbacher as advertising and promotion manager, succeeding Robert Rexroad who has been promoted to administrative manager.

Upon opening its new $200,000 administrative building addition at 629 La Brea, Los Angeles, last month, Pomona announced plans to increase production substantially, despite a "slight dip" anticipated in 1956 home construction.

• **Concrete Products Association of Washington** awarded top honors to Graystone of Olympia, Inc., and Bellingham Builders Supply in submitting heavy and lightweight aggregate blocks respectively in a competition. Each unit was judged for dimensional tolerance, symmetry, overall appearance, sharpness of detail and uniformity of color.

The jurors were Barrie Branch, AIA, of Bremerton; James Lindstrom, Superior Concrete Products Co., Seattle; and E. J. Dale, Portland Cement Association, Seattle.

• **Nudor Manufacturing Corp.** announces expansion plans that will increase production at the North Hollywood, Calif., plant by 100%. The new building is the third addition at the Nudor plant in the past six years.

• **Northwest Hardwood Association** adopted grading rules on Pacific Coast alder and maple logs and shop lumber at its quarterly meeting in Vancouver, B.C., April 14.

The new rules will govern the measurement, sale and purchase of hardwoods by association members and are designed to set up standards that will insure a higher quality product, comments president E. J. Nist. Printed copies may be obtained from the association's headquarters, 3253 Commodore Way, Seattle 99.

A. P. York of Educators Mfg. Co., Tacoma, headed the log rules committee and L. R. Smith of L. R. Smith Hardwood Co., Longview, Wash., the lumber rules committee.

• **Coast Aluminum Co.** has begun production of a complete line of residential aluminum casement windows, first in a line of aluminum building products planned by the new Gardena, Calif., firm.

Heading the company are Saul Pick, who has been in the construction supply business the past nine years, and Dave Griffith, who has had 18 years' association with the aluminum industry.

• **Ames Co.**, Hollywood, Calif., has been appointed West Coast representative for E. G. Building Fastners Corp., producer of the Fitsall screwshield.

FORMULA FOR HIGHEST VALUE IN BUILDING

Desirability divided by Price, equals Value.

REINFORCED

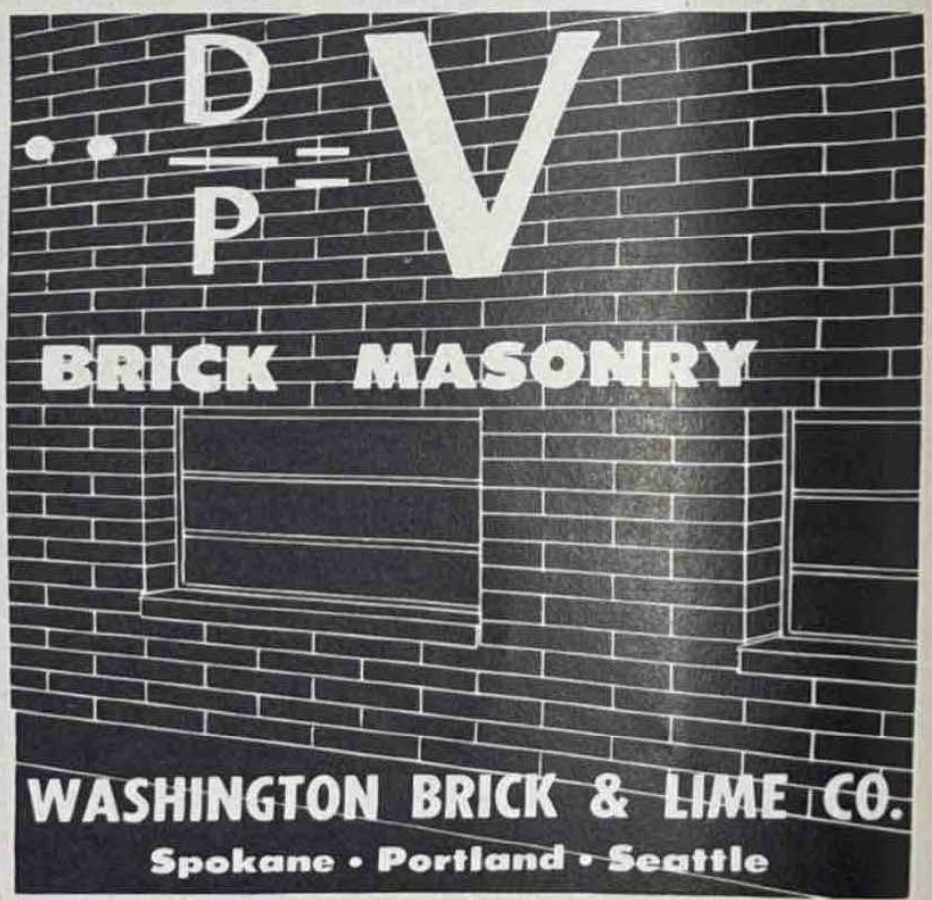
FOR + VALUES IN BUILDING

+ 1. Maintenance-free beauty of brick.
+ 2. Optional interior finishes — plaster, panelling, or face brick.
+ 3. Same structural wall at cost comparable to architectural concrete.
+ 4. Less structural steel required.
+ 5. Greater wall height without pilasters.

For the Future

Build Today With RBM.

Ask Your Architect!



Construction News Bulletin

Vol. 62—No. 10 (PA&B) News Section of Pacific Architect and Builder May 19, 1956

D. F. McCormick.....News Editor
G. M. Westman.....News Staff
Win Romtvedt.....Portland News Manager
S. S. Phillips.....News Staff
Newsroom • 2418 Third Avenue, Seattle 1, Washington • Phone MAin 0285

BUILDING NEWS

Washington, Oregon, Idaho, Montana, Wyoming, Utah, Alaska

- ● Bids Called
- ★ Contract Awards
- ▲ Low Bids—Bid Received
- ■ Planholders—Prospective Bidders

OREGON

STARTER SCHOOL— Aloha, Ore.

Bond issue for $47,000 approved by School District No. 81, Washington County, clerk, 81 Wheeler Ave., Aloha, for starter unit school. Plans by James C. Gardiner, architect, 3158 S.W. 87th Ave., Portland. Two classrooms, boiler room, storage room, sick room, two lavatories, corridor and paved covered play area. Post and beam construction; solid decking; concrete floor with asphalt tile; aluminum sash; masonry boiler room; hot water convectors. WB 5-12

LIME PLANT— Baker, Ore.
(Estimated cost $1,100,000)

Plans announced by Anthony Brandenthaler, president and owner of Burnt River Lumber Co., 3100 Broadway, for construction of a plant north of Baker for production of chemical grade and hydrated lime, for the newly formed Chemical Lime Co. Plans include erection of two kilns and foundations for two others to allow for expansion. Consulting engineers are Stoyanov & Johnson, 833 N. Shaver, Portland. Construction to be completed by fall. SC 5-8

● SCHOOL ADDITIONS— Beaverton, Ore.

Bids to be opened 8 p.m., May 31, by School District No. 57-J, Washington County, Calvin R. Evans, clerk, Cedar Hills School, Cedar Hills Blvd. and Park Way, Cedar Hills, Beaverton, for additions to the school. Plans with Stokes & Allyn, architects, 205 Hughes Bldg., Portland. $25 deposit. Certified check, cashier's check or bid bond 5%.

One-story, 63'x108' addition with five classrooms and toilets; another one-story and basement addition, 40½'x63' with two classrooms upstairs, and board room, offices and work room in basement. Reinforced concrete construction; wood joist first floor; wood joist roofs with built-up roofing; bat insulation between joists; cement stucco exterior finish; gypsum board interior finish; steel sash; asphalt tile flooring; acoustical tile ceilings; unit ventilators with heat from existing boilers; concentric ring lighting fixtures. WB 5-11. Previous report 2-4

COLLEGE— Bend, Ore.

Property granted to Central Oregon College Foundation, William E. Miller, president, 1540 W. 5th, Bend, by School Board, District Office, Wall and Kansas Streets, Bend, for construction as planned in the college building program. Plans include combination library and student union building, liberal arts building, science hall, museum. Five acres allocated to the college are in northwest corner of the new high school area. Grounds bounded on the west by E. 5th St., on the north by E. Emerson Ave., on the east by E. 7th St., and on the south by E. Elden St. and high school. SC 5-3

● TWO GRADE SCHOOLS— Burns, Ore.

Bids to be opened 8 p.m., June 1, by Harney County School District No. 501-C, Mildred L. Mayo, clerk, superintendent's office, Burns, Ore., for the Fillmore St. and Washington St. grade school buildings. Separate or combination bids. Plans with Freeman, Hayslip, Tuft & Hewlett, architects, 2040 S.W. Third Ave., Portland. $25 deposit. Certified check, cashier's check or bid bond 5%. Previous bid call was cancelled.

Each school to have four classroms, multi-purpose room, health room, kitchen and teachers' room. Fillmore school will also have eating area in multi-purpose room. Concrete slab floors; post and laminated beam construction; beveled cedar exterior siding; aluminum or steel sash; built-up roofing; asphalt tile flooring; ceramic tile in toilets; gypsum board upper walls; plywood wainscots; acoustical tile ceilings; fluorescent lighting; radiant heating in floors. WB 5-12. Previous report 3-29

★ GRADE SCHOOL— Canyonville, Ore.

Award by School District No. 8, Douglas County, Mrs. Helen Altree, clerk, Canyonville, Ore., for new grade school at Canyonville. Plans by Freeman, Hayslip, Tuft & Hewlett, 2040 S.W. 3rd Ave., Portland. AWARD: S. Ferche, P.O. Box 542, Roseburg, $100,756. 2ND LOW: Clyde Hamilton, 57 N.E. "A" St., Grants Pass, $101,195. 3RD LOW: Hampton C. Platt, P.O. Box 27, Salem, $102,500. Bids opened May 8. WB 5-15. Previous report 4-24

★ SCIENCE BUILDING, DORMITORY— Corvallis, Ore.

Awards by Oregon State Board of Higher Education, Earl M. Pallett, secretary, for the Agricultural and Biological Science Building, including utility tunnel system and the men's dormitory, Units A and B, and cafeteria at Oregon State College, Corvallis. Plans by Burns, Bear, McNeil & Schneider, architects, 2940 S.E. Belmont St., Portland. AWARDS — SCIENCE BLDG. — GENERAL: Ross B. Hammond Co., Box 3901, Portland, $1,104,597. MECHANICAL: Buchanan Co., 1518 N.E. Killingsworth St., $337,787. ELECTRICAL: Watco Electric Co., 4715 S.W. Macadam Ave., $117,551. LABORATORY EQUIPMENT: Weber Showcase & Fixture Co., Los Angeles, $144,000. DORMITORY-CAFETERIA — GENERAL: Ross B. Hammond Co., $1,446,798. MECHANICAL: Lord Bros., 9233 N. Calvert, $314,490. ELECTRICAL: Electric Corporation, P.O. Box 266, Salem, $116,960. STRUCTURAL STEEL: American Steel Warehouse Co., 425 N.E. 9th Ave., $16,507. KITCHEN EQUIPMENT: Losli Sheet Metal Works, 1729 S.W. 1st Ave., $72,145. Of Portland except as noted. Bids for refrigeration system for science building were rejected as too high and will be readvertised. WB 5-16. Preivous report 4-21

★ MEDICAL-DENTAL CLINIC— Eugene, Ore.

Award to John M. Steinmuller, 907 W. 3rd Ave., Eugene, $105,289, by Brothers Investment Co., c/o Percy D. Bentley, architect, U.S. National Bank Bldg., Eugene, for a 15-unit medical-dental clinic to be built on the southwest corner of E. 18th Ave. and Oak St., Eugene.

SP 5-11. Previous report 5-5

▲ SCHOOL ADDITION— Eugene, Ore.

Bids received by School District No. 4, Clarence Hines, superintendent, 275 E. 7th Ave., for a classroom addition to the Santa Clara Elementary School building in Eugene. Plans by John Laurin Reynolds, architects, 264 E. Broadway, Eugene. LOW BIDS: Elson C. Shields Co., 170 Patterson Road, Eugene, $14,830; V. A. Nelson, Route 1, Box 736, Creswell, $15,397; J. M. Steinmuller, Jr., 907 W. 3rd Ave., Eugene, $16,145. Bids opened May 9. DW 5-15

● FIRE STATION— Eugene, Ore.

Bids will be opened 11 a.m., May 28, by Bethel Water & Fire District, 2485 Roosevelt Blvd., Eugene, for construction of a Bethel fire station in Eugene. Plans with Paul Bogen, architect, 858 Pearl St., Eugene.

Two-story 40'x72'; reinforced concrete block construction for first floor, wood frame for second floor; built-up roof; concrete slab floors; glued laminated beams; acoustical tile ceilings; gypsum board walls; vinyl-asbestos tile, ceramic tile; plastic skylights; overhead doors; hot water radiant heating system. DW 5-15

● SCHOOL ADDITIONS— Eugene, Ore.

Bids will be opened 2 p. m., May 28, by Eugene School District No. 4, Clarence Hines, superintendent, 275 E. 7th Ave., Eugene, for classroom and corridor extension to Harris Elementary School, 1150 E. 29th Ave., Eugene, and a seven-classroom addition to Willagillespie Elementary School, 245 Willagillespie Road, Eugene. Plans with Hamlin & Martin, architects, 159 W. 12th Ave., Eugene.

Wood frame construction; concrete slab floor; built-up roof; asphalt and acoustical tile; new boiler to existing hot water heating system in Willagillespie School, connection to existing heating system in Harris School. DW 5-15

RESIDENCE— Gilchrist, Ore.

(Estimated cost $68,000)

Contract negotiated with Duncan Construction Co., Box 1088, Klamath Falls, by Gilchrist Timber Co., Gilchrist, for construction of a residence for Frank R. Gilchrist, president of timber company, in Gilchrist. Plans by Nina Pence, architect, 5241 Alva St., Klamath Falls. Completion date December 1, 1956.

One and a half stories; 4,000 sq. ft.; reinforced concrete footings and foundation; frame walls; pitched rafters; wood windows; drywall and wood panel partitions; wod, linoleum and cork floor finish; drywall and wood paneling ceilings; batt insulation in ceilings and wall. ZZ 5-11

● CHURCH ADDITION— Gresham, Ore.

Bids to be opened at 8 p. m., May 24, by St. Luke's Episcopal Church, Rev. Rene Bozarth, rector, 1205 S.E. Cathey Road, Gresham, for an addition to the church. Plans with Stuart B. Mockford, 723 Washington St., Oregon City.

One-story and daylight basement; includes two Sunday school rooms, toilets; concrete basement; upper story frame with redwood siding; wood sash; composition shingle roofing; asphalt tile flooring; acoustical tile ceiling; dry wall interior finish. WB 5-11

★BUILDING ADDITIONS, ALTERATIONS— Medford, Ore.

Award by Pacific Telephone and Telegraph Co., G. F. Zolling, chief engineer, 509 S.W. Oak St., Portland, for additions and alterations to the North Central Avenue telephone exchange, Medford. Plans by Church, Newberry & Roehr, architects, Kurt P. Schuette, associate, 619 Builders Exchange Bldg., Portland. AWARD: Smith-Phillips Co., 7402 S.W. Macadam Ave., Portland, $247,768. OTHER BIDS: H. Barnhart, 722 Dakota St., Medford, $257,000; Wiley Co. and L. C. McLaughlin, 252 Ridge Road, Ashland (joint venture) $271,400. Bids opened May 9. WB 5-15. Previous report 4-28

▲CREAMERY— Oregon City, Ore.

Bids received May 9 by Larsen's Creamery, 707 Railroad, Oregon City, for a new creamery building at 13th and Center Streets. Plans by Stuart Mockford, architect, 218 8th St., Oregon City. GENERAL—LOW BIDS: David W. Lind, 1115 Molalla Ave., $26,733; Serge R. Perrin, 405 Ogden Drive., $31,494; V. C. Johnson, 445 W. Clarendon, Gladstone, $33,196. ELECTRICAL—LOW BIDS: Coleman's Electric, 1001 Main, $3,352; Electric Service,, 104 8th St., $3,600; Adams Electric, 1800 S.E. Union Ave., Portland, $4,244. PLUMBING—ONLY BID: Straight & Salisbury, 914 Main St., $3,500. PAINTING—ONLY BID: Jim Garvison, Route 3, $2,906. Of Oregon City except as noted. WB 5-12. Previous report 5-5

● PACKING PLANT— Portland, Ore.

Owner, Max Lehmann, 3910 N. Suttle Road, Portland, plans to rebuild the Northwest Packing Co., No. 1 plant, 554 N. Columbia Blvd., which was destroyed by fire. Loss to building estimated at $500,000, to equipment, $500,000. No. 2 plant at Suttle Road address to be reactivated. WB 5-4

ARMY RESERVE TRAINING CENTERS— Portland, Ore.

(Estimated cost $1,572,000)

Congress has been asked to appropriate $1,572,000 for construction of reserve training centers in the Oregon Military District, Colonel Robert C. White, senior adviser, Vancouver Barracks, Vancouver, Wash. Following facilities will be built if money is appropriated: 400-man training center and motor vehicle storage facility in southern area of Portland ($401,000); 400-man center in western area of Portland ($338,000); 100-man centers at Coos Bay, Medford and Roseburg; 200-man centers at Corvallis and Eugene; National Guard warehouse at Camp Withycombe near Clackamas ($130,000) and National Guard armory at Woodburn. WB 5-4

▲REMODELING— Portland, Ore.

Bids opened May 9 by Portland School District No. 1, L. J. Baker, business manager, 620 N.E. Halsey St., Portland, for alteration to cafeteria at Beaumont School, 4043 N.E. Fremont St., Portland. LOW BIDS: Heigele Home Construction Co., 4034 N.E. 18th Ave., $33,196; James & Yost, P. O. Box 1025, $34,865; E. Carl Schiewe, 1024 N.E. Davis St., $35,122. Of Portland. WB 5-11. Previous report 4-28

SCHOOL ADDITION— Portland, Ore.

Scott & Payne, architects, 511 Builders Exchange Bldg., Portland, retained by Russellville School District No. 40, Frank C. Dempsey, clerk, 124 S.E. 102nd Ave., Portland, for multipurpose room addition to Cherry Park School, 104th Ave. and S.E. Harrison St. WB 5-12

★LOOKOUT TOWERS, HOUSES— Portland, Ore.

Awards by (bids opened May 7) U. S. Forest Service, Frank Walisch, regional supply officer, 729 N.E. Oregon St., room 18, Portland, for lookout towers and houses. WOOD—AWARD: Wood Fabricating Co., Foot of N.E. 162nd Ave., (Item 1) $2,426; (Item 2) $2,466. 2ND LOW: Carlton Lumber Co., 712 N. Tillamook St., $2,750 each. 3RD LOW: D & M Molding Co., 11320 N.E. Marx St., $7,110, $7,290. STEEL—AWARD: Screw Machine Products, 7737 N.E. Killingsworth St., (Total) $19,525 (One house to be eliminated from award due to shortage of funds). ONLY OTHER BID: Schmitt Steel Co., 2765 N.W. Nicolai St., $45,807. Bidders all of Portland. WB 5-15. Previous report 5-1

● SCHOOL ADDITION— Portland, Ore.

Bids to be opened 8 p. m., May 29, by Lynch School District No. 28, Multnomah County, Mrs. Dora L. Stevia, superintendent's office, 16301 S.E. Division St., Portland, for addition to Southwest Lynch School, 2801 S.E. 148th Ave. Plans with Annand, Boone & Lei, architects, 1530 S.W. Taylor St., Portland. Certified check, cashier's check or bid bond 5%.

Addition of seven classrooms and offices, 240'x47'; additional oil-fired boiler; concrete walls; concrete slab floor; steel sash; built-up roof; plaster wall finish; acoustical tile ceilings; asphalt tile flooring; incandescent lighting. WB 5-15. Previous report 4-11

● WAREHOUSE— Portland, Ore.

Bids to be opened 2 p. m., May 23, at office of Irving G. Smith and Charles C. Kotchik, 701 Portland Trust Bldg., Portland, for a warehouse and sales building in Guilds Lake area for Colyer Motor Sales, 34 N.W. 8th Ave., Portland. Plans by Earl Heitschmit, architect, Los Angeles. Smith & Kotchik are associate architect on the project.

Planholders: A. V. Peterson, P. O. Box 2368; Henry M. Mason Co., 2206 N.W. Thurman St.; Robertson, Hay & Wallace, 1801 S.E. Grand Ave.; Donald M. Drake Co., 1600 N.W. Savier St.; Reimers & Jolivette, Builders Exchange Bldg.; Smith-Phillips Co., 7402 S.W. Macadam Ave.; Andersen-Westfall Co., 2470 N.W. Nicolai St. Planholders of Portland. WB 5-15

★SCHOOL ADDITION— Portland, Ore.

Award to St. Pierre & Vermilyea, 10505 N.E. Beach St., Portland, approximately $60,000 (basic bid plus two alternates), by Rockwood School District No. 27, Multnomah County, Gladys Nicholls, clerk, 740 S.E. 182nd Ave., Portland, for addition and finishing at North Rockwood Primary School, 330 N.E. 172nd Ave. WB 5-15. Previous report 4-28

▲CITY HALL— Prineville, Ore.

(Estimated cost $141,000)

Bids opened May 10, by City Building Committee, John Gordon, chairman, City Hall, Prineville, for a new city hall. Plans by Skidmore, Owings & Merrill, architects, 2040 S.W. Jefferson St., Portland. LOW BIDS: Fred Kaiser, Madras, $136,290; Lewis Kowolowski, P. O. Box 26, Madras, $141,946; Degree Construction Co., 1828 Aubrey Road, Bend, $142,000. WB 5-15. Previous report 5-3

■ SCHOOL ALTERATIONS— Riddle, Ore.

Planholders announced for alterations to Riddle High School. Bids to be opened 8 p. m., May 21, by School District No. 70, Douglas County, Mildred Vaughn, clerk, High School, Riddle, Ore. Plans with McCoy & Bradbury, architects, 7007 Highway 99, Vancouver. $15 deposit. Certified check, cashier's check or bid bond 5%.

Planholders: Todd Building Co., P. O. Box 27, Roseburg; Mann Construction Co., P. O. Box 577, Redmond; S. Ferche, P. O. Box 542, Roseburg. WB 5-12. Previous report 5-3

CORRECTIONAL INSTITUTION— Salem, Ore.

(Estimated cost $6,000,000)

New site selected by Oregon State Board of Control(William Ryan, secretary, room 124, Capitol Bldg., Salem, for the Oregon State Correctional Institution, penitentiary for young offenders. New site is part of Oregon State Hospital Cottage farm, five miles southeast of Salem. Site formerly chosen near St. Paul will be part of new air base. Working drawings to start soon by Annand, Boone & Lei, architects, 1530 S.W. Taylor St., Portland. State-owned sewer will be utilized in place of sewage disposal plant. WB 5-12. Previous report 1-19

★SCHOOL ADDITION— Salem, Ore.

Award announced by School District No. 24CJ, Marion County, Connell C. Ward, clerk, 1309 Ferry St., Salem, for construction of additions and alterations to the Four Corners School in Salem. Plans by John Grimmer Groom, architect, 2319 State St., Salem. AWARD: Hampton C. Platt, 4433 Macleay Road, $55,250. 2ND LOW: Mills Construction Co., 502 Kingwood Drive, $56,965. 3RD LOW: H. G. Carl, 1210 S. 22nd St., $59,871. All of Salem. Bids opened May 10. SP 5-15. Previous report 5-9

■ FAIRVIEW HOME BUILDINGS— Salem, Ore.

Planholders announced for construction of three buildings at Fairview Homes in Salem. Bids will be opened 2 p. m., June 1, by Oregon State Board of Control, William C. Ryan, secretary, 124 Capitol Bldg., Salem. Plans with Wilmsen & Endicott, architects, 863 13th Ave. E., Eugene.

Planholders: Viesko & Post, Box 69, Salem; E. E. Batterman, 147 N. Commercial St., Salem; Donald M. Drake, 1600 N.W. Savier Road, Portland. DW 5-16. Previous report 1-4

● SCHOOL ADDITION— Scio, Ore.

Bids to be opened 8 p. m., May 29, by School District No. 95C, Mrs. Ardyth L. Badger, clerk, High School, Scio, Ore., for addition to the high school. Plans with John K. Smeed, architect, 8313 S.W. Barbur Blvd., Portland. $50 deposit. Bid guarantee 5%.

Addition of two units; first includes four classrooms, two toilets, janitorial and storage space, corridor and cross corridor; second includes music room, three practice rooms, small control room, vestibule and remodeling of space for instrument storage and instructor's office. Lightweight block construction; brick veneer exterior; concrete slab floor with asphalt tile; steel sash; built-up roof on wood joists; acoustical tile ceilings; painted block walls; acoustical treatment on music room walls; extension of existing steam heating with unit ventilators; incandescent lighting (alternate for fluorescent. WB 5-16

▲**SUPERMARKET ADDITION—** **The Dalles, Ore.**

Bids received May 8 by Ninth Street Super Market, The Dalles, for addition and remodeling to the market. Plans by Warren Weber, architect, 610 Fenton Bldg., Portland. BIDDERS: Mid-State Construction Co., 810 Union St., The Dalles, $100,693; Robertson, Hay & Wallace, 1801 S.E. Grand Ave., Portland, $104,930. WB 5-15. Previous report 5-8

▲**RESIDENCE, MACHINE SHED—Troy, Ore.**

Bids received May 10 by Oregon State Game Commission, P. W. Schneider, director, 1634 S.W. Alder St., P. O. Box 4136, Portland, for construction of a residence and a machine shed at Wenaha Game Management Area near Troy, Ore. LOW BID: W. N. Young, Enterprise, $23,923. OTHER BIDS: Hampton C. Platt, 3805 Thorndale Road, Salem, $24,000; K. L. Clark, Hermiston, $25,987. WB 5-12. Previous report 5-2

★**LIBRARY ADDITION— Umatilla, Ore.**

Award by Umatilla County Library Board, Umatilla County Courthouse, Umatilla, for construction of an addition to the Hermiston Branch of the Umatilla County Library at Umatilla. Plans by Wesley V. Korman, architect, Raley Bldg., Pendleton. AWARD: Vickers Construction Co., Route 1, Box 143-D, Hermiston, $2,385.
GW 5-16. Previous report 4-28

MENTAL HOSPITAL— Wilsonville, Ore.
(Estimated cost $14,000,000)

Site has been selected for new mental hospital by State of Oregon, Board of Control, Colonel William Ryan, secretary, room 124, State Capitol Bldg., Salem. Site is one mile west of Wilsonville on Portland-Salem expressway and contains 506 acres. First unit of hospital will contain 450 beds and $6,300,000 has been appropriated for construction. Plans by Stanton, Boles, Maguire & Church, architects, 600 Concord Bldg., Portland. WB 5-9. Previous report 10-5

AIR BASE— Woodburn, Ore.
(Estimated $13,508,000)

Construction is expected to start after July, 1957, on a new air base for the Air Force and Navy at French Prairie site west of Woodburn and south of St. Paul, 25 air miles southwest of Portland. Site is 5,000 to 6,500 acres; will include 9,000' or longer runway, expandable to 15,000' as needed. Base will be occupied by 460th Fighter-Interceptor Squadron and other unit by Naval Reserve training units now located at Portland airport. The 13th Naval District Public Works office in Seattle will handle detailed planning and construction.
WB 5-8. Previous reports 5-8 and 3-6

WASHINGTON

■ **COLLEGE— Aberdeen, Wash.**

Planholders announced for construction of a new junior college in Aberdeen. Bids will be opened 8 p. m., May 24, by Aberdeen School District No. 5, H. J. Kramer, superintendent, Weatherwax High School Bldg., 3rd and H Streets, Aberdeen. Plans with Jensen & Mills, architects, 308 S .Tacoma Ave., Tacoma.

Planholders—GENERAL: Andy Johnson, 339 Eklund, Hoquiam; Grays Harbor Construction Co., Aberdeen; Ed Lundgren, 809 N. "K" St., Aberdeen; Dahlgren Construction Co., 1700 21st Ave. S., Seattle; Roy T. Early Co., 321 Middle Waterway, Tacoma; Anderson Construction Co., 115 S. 9th, Tacoma. MECHANICAL: Grays Harbor Plumbing & Heating Co., 318 E. Market, Aberdeen; Rainier Mechanical Contractors, Inc., 2702 E. 112th, Tacoma; P. S. Lord Mechanical Contractors, Inc., 4507 S.E. Milwaukie, Portland. ELECTRICAL: Pioneer Electric Co., 735 Commerce, Longview; Aberdeen Electric Co., Aberdeen.
SP 5-11. Previous report 5-5

★**PARTITIONS— Aberdeen, Wash.**

Award to Lamb Construction Co., 506 S. "F" St., Aberdeen, $7,678, by 13th Naval District, Bureau of Yards and Docks, Rear Admiral A. H. Meads, chief of bureau, Public Works Office, room 100, Building 232, U. S. Naval Station, Seattle, for providing partitions in the head house at the U. S. Naval and Marine Corps Reserve Training Center, Aberdeen; NBy-1928; Spec. No. 1928/56. GW 5-15. Previous report 4-20

★**RESTROOM, PARK FACILITIES— Anacortes, Wash.**

Award to Dave Snyder, 1313 Alaska, Anacortes, $3,627, by City Council, City Hall, Anacortes, for construction of restroom and park facilities at Washington Park in Anacortest. JD 5-10. Previous report 4-21

★**REMODELING STORE— Anacortes, Wash.**

Award to Pearson Construction Co., 2034 Franklin, Bellingham, $6,000, by Diamond Stores, Robert B. Miller, manager, 607 Commercial, Anacortes, for remodeling front of existing store and adding balcony at rear of store. JUD 5-12

●**MECHANICAL WORK—** **Battle Ground, Wash.**

Bids to be opened 1:30 p. m., May 31, by School District No. 119, Clark County, Earl Jackson, clerk, Administration Bldg., Battle Ground, Wash., for extensions to the steam distributing system and mechanical revisions at Slevoir Hall and the Home Economics Building. Plans with Freeman, Hayslip, Tuft & Hewlett, architects, 2040 S.W. 3rd Ave., Portland. $10 deposit. Certified check, cashier's check or bid bond 5%. WB 5-12

●**ART EQUIPMENT, TOOLS, LOCKERS— Bellevue, Wash.**

Bids will be opened 2 p. m., May 23, by Bellevue School District No. 405, George B. Brain, superintendent, Box 67, Bellevue, for furnishing industrial art equipment, tools and lockers for the school district. Specifications with superintendent, Junior High School, Bellevue. Certified check, cashier's check or bid bond 5%. GC 5-11

●**HIGHLAND ELEMENTARY SCHOOL— Bellevue, Wash.**

Bids will be opened 2 p. m., June 5, by School District No. 405, King County, George B. Brain, superintendent, Box 67, Bellevue, for construction of an elementary school in the Highland area of Bellevue. Plans with Jones & Bindon, architects, 715 Hoge Bldg., Seattle. $25 deposit, general; $15 deposit, mechanical; $15 deposit, electrical. Bid bond 5%.

One-story; 20 classrooms, cluster type buildings, four classrooms per unit with covered play area to each unit; administration and multipurpose units, covered walks connecting all buildings; light steel frame; SCR brick in set panels; aluminum window walls; 2" t&g rof deck, built-up roof; parking space for 45 cars.
SP 5-16. Previous report 4-27

●**STORAGE BUILDINGS, ADDITIONS— Bremerton, Wash.**

Bids will be opened 1 p. m., May 28, by Public Works Office, P. J. McEleney, officer in charge of construction, Bldg. 1, U. S. Naval Ammunition Depot, Bangor, Bremerton, for construction of two new storage buildings and additions to three buildings; Spec. No. 1975/56. Specifications with above office.

Project includes the following construction: 1—paint and oil storage building; 10'x12' concrete foundation and floor; concrete block walls; frame roof with rolled roofing. 2—storage shed; 32'x54'; frame construction on existing concrete slab; corrugated aluminum roofing. 3—addition to Bldg. No. 192; 12'x12'-3"; concrete foundation and floor; concrete ramp; frame construction; explosion-proof electrical fixtures; rolled roofing. 4—addition to Bldg. No. 274; 14'x13'-9"; concrete foundation and floor; concrete block construction; corrugated cement-asbestos roofing; standard electrical fixtures. 5—addition to Bldg. No. 195; 32'x40'; concrete footings; frame construction; rolled roofing. SP 5-11

★**BUILDING REHABILITATION— Camp Murray, Wash.**

Award to Douglas Pravitz, 216 Bowlin St., Orting, Wash., $8,246, by Departments of Army and Air Force, National Guard Bureau, Bldg. 4, Tacoma Naval Annex, 5114 Steilacoom Blvd. S.W., Tacoma, for rehabilitation of buildings 45B, 46B, 47B, Camp Murray, Fort Lewis; Inv. No. NG-45-113-56-12. Bids opened May 3.
SP 5-10. Previous report 4-24

■ **SCHOOL ADDITION— Carson, Wash.**

Planholders announced for addition to Carson Grade School. Bids to be opened 8 p. m., May 22, by School District No. 30, Skamania County, Evelyn O. Hutchings, clerk, Grade School, Carson, Wash. Plans with Freeman, Hayslip, Tuft & Hewlett, 2040 S.W. 3rd Ave., Portland. $25 deposit. Certi-

If the job calls for WALL HYDRANTS specify GREENBERG!



BRONZE PRODUCTS by GREENBERG

M. GREENBERG'S SONS
765 FOLSOM ST. • EXbrook 2-3143
SAN FRANCISCO 7, CALIFORNIA
Offices in Principal Cities throughout the United States



Flush type wall hydrant with locking type hinge (will rough into 6" wall).
Nipple and adapter allow placing inlet at either side or back.

fied check, cashier's check or bid bond 5%. Planholders: Spencer Construction, 465 W. Garibaldi, Hillsboro; Larry O. Collins, 7017 Highway 99-N, Vancouver; L. C. Baldwin & Son, Belmont Road, Hood River; Simonton & Steele, 3805 S.W. Garden Home Road, Portland. WB 5-16. Previous report 5-8

▲FIRE STATION— Centralia, Wash.

Bids received by City Commissioners, City Hall, Centralia, for construction of a fire station at Centralia. Plans by G. Ekvall, architect, 1620 E. 4th, Olympia. LOW BIDS—GENERAL: K. T. Henderson, 1362 Colorado, Longview, $74,383 (general), $101,802 (general, electrical, mechanical); Osborne Construction Co., Route 2, Chehalis, $88,482 (general); Noel Construction Co., 11014 Main St., Bellevue, $111,947 (general, electrical, mechanical). MECHANICAL: Capitol Plumbing & Heating, 424 Jefferson St., Olympia, $19,872; Modern Plumbing & Heating, 1313 Market St., Chehalis, $19,200. PLUMBING AND HEATING: I. J. Wilson, 316 S. Tower St., Centralia, $17,689. ELECTRICAL: E & L Electric, Route 1, Centralia, $7,460; War-Mur Electric, Centralia, $7,600. Bids opened May 8. SP 5-11. Previous report 4-7

★VHF/FM RELAY BUILDING— Chewelah, Wash.

Award to Schoenberg & Kaiser, Chewelah, $8,164, by Procurement Officer, C. S. Phelps, Geiger Field, Spokane, for construction of a VHF/FM relay building in the vicinity of Chewelah; IFB 46-614-56-59. CE 5-16. Previous report 4-20

★POST OFFICE— Connell, Wash.

Award to C. F. Griggs & Associates, Pasco, by City Council, City Hall, Connell, for construction of a building on Mottet St., across from Aubert Theater, in Connell, to house the post office. Builders have a 10-year lease with the federal government with two 5-year options. One-story; concrete block construction; 1,620 sq. ft. SC 5-16

●■HIGH SCHOOL— Davenport, Wash.
(Estimated cost $300,000)

Bids will be opened 8 p.m., May 24, by Lincoln County School District 207, Jack Newell, Davenport, for construction of a high school in Davenport. Plans with Culler, Gale, Martel & Norrie, architects, 615 Realty Bldg., Spokane. $25 deposit. Bid bond 5%.

One-story; partial basement under shop; 19,000 sq. ft. area; reinforced concrete footings and foundation; brass and steel frame walls; concrete slab floors; built-up roof; concrete masonry partitions; steel windows; vinyl asbestos tile floor finish; rigid insulation in roof; low pressure steam heating system with oil fuel.

Planholders: AAA Construction, N. 739 Helena St.; Busboom & Rauh, N. 601 Cedar St.; Hansen & Parr Construction Co., W. 315 Boone Ave.; Phil McInnic & Henry George & Sons, 412-217 Hutton Bldg.; E. R. Haynes Construction Co., W. 2028 Sinto Ave.; Selkirk Co., E. 601 Trent Ave.; Sceva Construction Co., Inc., N. 2928 Madelia St. All of Spokane.

CE 5-12. Previous report 1-12

●SCHOOL ADDITION— Edmonds, Wash.

Bid opening time change from 8 p.m. to 3 p.m., May 28, by Edmonds School District No. 15, Edmonds, for construction of 13-classroom addition to Martha Lake Grade School, Edmonds. Separate bids on general, mechanical, electrical. $25, $15, $15 deposit respectively. Bid bond 5%. Plans with William Arild Johnson & Associates, architects, 3506 Broadway, Everett. DC 5-11. Previous report 5-9

●STRUCTURAL STEEL— Edmonds, Wash.

Bids will be opened 1 p.m., May 21, by Edmonds School District No. 15, Harold Silvernail, superintendent, Box 308, Edmonds, for furnishing structural steel for the proposed new Edmonds High School to be built at Holmes Corner, 212th S.W. and 76th Ave. W., Edmonds. Plans with Waldron & Dietz, architects, room 8, 208 Columbia St., Seattle, and with superintendent in the high school building, Edmonds. $20 deposit.

One-story; 156,000 sq. ft.; steel frame; precast concrete exterior walls; flat steel roof deck. GW 5-11

HOUSING— Fairchild AFB., Wash.

Plans to be complete late in July by Bassetti & Morse, architects, 1602 Tower Bldg., Seattle, for construction of 250 housing units at Fairchild AFB. Bids will be called beginning August, by purchasing and contracting officer, Major R. C. Axel, Fairchild AFB.

Project includes 30 single houses, 220 unit duplexes, and 100 duplex buildings; SCR brick and frame walls; frame floors; timber beams; built-up roofing with marble chips; wood windows; plasterboard wall interior finish; asphalt tile floors; plaster ceilings. GW 5-12. Previous report 1-20

●HANGAR REPAIR— Geiger Field, Wash.

Bids will be opened 2 p.m., June 11, by U.S. Air Force, Procurement Office, C. S. Phelps, contracting officer, Geiger Field, Spokane, for hangar repair at Bldg. 725 at Geiger Field; IFB 45-614-56-78. Specifications with above office. Bid bond 20%. CE 5-15

★FLOORING— Geiger Field, Wash.

Award by Department of Air Force, Procurement Division, C. S. Phelps, procurement officer, Geiger Field, Spokane, for furnishing and installing flooring in buildings 2, 214, 412, 1397 and 1591 at Geiger Field, Spokane, Wash.; IFB 45-614-56-61. AWARD: Fashion Flooring Co., N. 5011 Division, Spokane, $3,640. Bids were opened April 24 and held under advisement. CE 5-16. Previous report 4-5

■DOG RUNS— Geiger Field, Wash.

Planholders announced for construction of three dog runs at the 636th Squadron in the vicinity of Condon, Ore., and three dog runs in vicinity of Othello, Wash.; IFB 45-614-56-75. Bids will be opened 2 p.m., May 22, by U.S. Air Force, Procurement Office, C. S. Phelps, procurement officer, Geiger Field, Spokane.

Planholders: AAA Construction Co., N. 739 Helena St., Spokane; Beaver Construction Co., Inc., N. 2619 Hamilton St., Spokane; Anton J. Popp Construction Co., 205 29th Ave., Spokane; P & B Co., Inc., N. 2004 Bessie St., Spokane; J. R. Yarno, S. 1517 Maple St., Spokane; Harvey N. Yager, 1st Ave. at "A" St. S.E., Ephrata; Cherf Bros. & Sandkay, Inc., Box 506, Othello; W. L. Reid Co., 3178 S.W. 87th Ave., Portland, Ore.; B & F Co., Box 503, Pendleton, Ore.; Levage Construction Co., Box 655, Parkland; Zeikler Construction Co., John Day, Ore.; E. A. Oman & Sons, Bitter Creek Highway, Hermiston, Ore.; McCormick Construction Co., S. E. 3rd and Goodwin, Pendleton; Schoenberg & Kaiser, Chewelah. CE 5-11. Previous report 5-8

★SCHOOL ADDITION— Grandview, Wash.

Correction: Jensen-Rasmussen & Co., Box 89, Sunnyside, $85,980, was awarded a contract by School District Jt. No. 116-200, Grandview, for construction of a shop addition to Grandview High School. In a previous report, it was erroneously stated that bids had been rejected. DM 5-16. Previous report 5-3

●DEMOLITION OF BUILDINGS— Hadlock, Wash.

Bids will be opened 2 p.m., P.S.T., June 6, by 13th Naval District, Bureau of Yards and Docks, Rear Admiral R. H. Meade, chief of bureau, Public Works Office, room 100, Building 232, U.S. Naval Station, Seattle, for demolition of five buildings, U.S. Naval Ammunition Depot, Bangor, Indian Island Annex, Hadlock, Wash.; NBy 2030; Spec. No. 2030/56.

Work includes demolition or removal of six residential buildings and three one-story storage sheds;-all buildings wood-frame construction supported with concrete pier footings or wood blocks or skids and sills on the ground. The residential buildings have outlying structures such as garage, sheds, barns, elevated oil storage tanks, wood and wire fences, a pumphouse and walkways, these also to be removed. GW 5-15

●GAME RANGE PROJECT— Johns River Range, Wash.

Bids to be opened 2 p.m., May 28, by John A. Biggs, director of game, 509 Fairview Ave. N., Seattle, for construction of the Johns River game range project located at the mouth of Johns River, about 13 miles southwest of Aberdeen. Plans with the director. $20 deposit. Project involves three-bedroom residence, foundation for garage and workshop, curbs and walks, access road, parking area, launching ramps and river dikes. DC 5-12

HOSPITAL— Kelso, Wash.

Plans for forming hospital district and construction of a hospital in the Longview-Kelso area are under consideration by Cowlitz County Commissioners, Kelso. County has $54,000 available in two hospital funds and a $46,000 building site. SC 5-8

CHURCH, CONVENT, RECTORY AND SCHOOL— Kirkland, Wash.

Plans to be complete late in June, by Johnston-Campanella, architects, 600 Orpheum Bldg., Seattle, for construction of buildings to house the Catholic church, convent, rectory and school at Rose Hill, Kirkland. Bids will be called by Catholic Archdiocese of Seattle, Most Rev. Thomas A. Connolly, archbishop, 907 Terry Ave., Seattle. Rev. Donald Conger will be pastor of the new church.

One story; convent 6,000 sq. ft.; rectory, 3,500 sq. ft.; church and school 28,000 sq. ft.; steel frame with masonry filler walls; tilt-up concrete walls in the church; concrete slab floors; steel girders, beams and columns; wood exposed roof in church, steel in school; masonry partitions; aluminum sash; tin deck insulation; asphalt tile flooring, acoustical fiberglass ceilings; wood cabinets. GW 5-12. Previous report 12-17-55

▲SCHOOL ADDITION— Kirkland, Wash.

Bids received May 10 by Lake Washington School District No. 413, King County, Morton A. Johnson, superintendent, Box 188, Kirkland, for construction of a four-room addition to Rose Hill Elementary School at N.E. 80th and 128th Ave. N.E., Kirkland. Plans by Mallis & DeHart, architects, 631 Lyon Bldg., Seattle. LOW BIDS: Poston Construction Co., 5619½ University Way, Seattle, $47,000; Clair E. Prescott, 3516 Airport Way, Seattle, $48,314; Wick Construction Co., 720 N. 35th, Seattle, $50,000. GW 5-12. Previous report 5-8

▲SCHOOL ADDITION— Othello, Wash.

Bids received by Othello School District 147-163-55, Othello, for construction of a 10-classroom addition to Lutacaga Elementary School. Plans by Victor Louis Wulff, architect, 1526 W. Riverside, Spokane. LOW BIDS—GENERAL: William F. Spilker, Route 5, Spokane, $96,106; Cherf Bros., Inc., and Sandkay, Inc., Box 938, Ephrata, $102,900; E. Chuck Mardis, 423 W. Lewis, Pasco, $111,549. MECHANICAL: Randolph & Taylor, Pasco, $5,295. ELECTRICAL: Baldwin & Briggs Electric Co., N. 1303 Monroe, Spokane, $33,538. Bids were opened May 8. DC 5-11. Previous report 5-3

●CONTROL HOUSE ADDITION— Pasco, Wash.

Bids will be opened 2 p.m., May 29, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for construction of control house addition at Franklin substation, approximately six miles southeast of Pasco, Franklin County, Wash.; Inv. No. 7994. Specifications with above office. $25 deposit. Bid bond 25%. Completion time 150 calendar days.

Quantities: 200 c.y. excavation and grading; 133' switchyard fencing with curb; 610 sq. ft. concrete sidewalks; 150 c.y. crushed rock; 255' concrete curb; 275 c.y. excavation and backfill. Project also includes concrete and cement finish; building masonry; roofing and sheet metal; acoustical plaster; hollow metal doors and frames; metal windows and screens; heating and air conditioning; plumbing; electrical work; glass and glazing; metal work; painting; finish hardware; rubber and asphalt tile; toilet partitions;

suspended ceilings; venetian blinds; flagpole. SP 5-11

COLLEGE BUILDING ADDITION— Pullman, Wash.

Preliminary plans underway by Culler, Gale Martell & Norrie, architects, Realty Bldg., Spokane, and Decker, Christenson & Kitchin, architects, 1411 4th Ave. Bldg., Seattle, for construction of addition to McCoy Hall, the veterinary clinic building on campus at State College of Washington in Pullman. Addition is part of the maintenance work planned for the college. MH 5-8

★PHEASANT PENS— Pullman, Wash.

Award to C & S Builders, Pullman, $3,960, recommended by Board of Regents, State College of Washington, Pullman, for construction of 18 pheasant pens, to be used for experimental purposes in research conducted under guidance of professor of wildlife management, erected on college farmland. Alternate for 8 more pens not accepted. Plans by Philip E. Keene, college architect, Services Bldg., Washington State College, Pullman. MH 5-10. Previous report 5-8

HOSPITAL ADDITION— Seattle, Wash.

Plans underway by John Graham & Co., architects, 1436 5th Ave. Bldg., Seattle, for construction of a seven-story addition to St. Francis Xavier Cabrini hospital, formerly Columbus Hospital, at Madison and Terry, Seattle. The work includes alterations to the existing building.

Addition will be connected to existing building and will consist of seven-story main wing approximately 56'x130', a three-story, 50'x120' wing facing Terry Ave.; of reinforced concrete faced with marble and brick; operating aluminum mold bar sash. A covered concourse is provided for loading of patients. GW 5-10

★BUILDING REMODELING—Seattle, Wash.

Award to Palmer Shops, 538 N. 78th, Seattle, $8,993, for remodeling of the Knights of Columbus Club building, 722 E. Union, Seattle, Stanley McNaughton, chairman building development committee. Plans by Johnston - Campanella, architects, 600 Orpheum Bldg., Seattle. GW 5-11. Previous report 4-19

■ MERIDIAN SCHOOL— Seattle, Wash.

Planholders announced for the construction of a 16-classroom elementary school between N. 170th and N. 172nd and Meridian Ave., Seattle. Bids will be opened 8 p. m., May 29, by Shoreline School District No. 412, Ray M. Howard, superintendent, N. 137th and Roosevelt Way, Seattle. Plans with Jones & Bindon, architects, 715 Hoge Bldg., Seattle. $25 deposit on general, $15 on mechanical and electrical plans. Certified check, cashier's check or bid bond 5%.

Planholders—GENERAL: Lewis Construction Co., 1711 Jackson; Dahlgren Construction Co., 1700 21st Ave. S.; Wick Construction Co., 720 N. 35th; Brady Construction Co., 707 Spokane St. ELECTRICAL: Hooper Electric Co., 215 Marion St.; Beckstrom's Electric Co., 14-58 Bothell Way; Watts Electric Co., 1722 Market St., all of Seattle. GW 5-11. Previous report 5-1

● INTERIOR ALTERATIONS— Seattle, Wash.

Bids will be opened 3 p. m., May 29, by General Services Administration, W. W. Southworth, chief of Construction and Repair Division, room 126, Federal Office Bldg., 909 1st Ave., Seattle, for installation of additional partitions, installation of new radiators, relocation of existing radiators, and miscellaneous items, at 2400 4th Ave. S., 4th S. and Lander St., Seattle; Project No. CR-10-432. Plans with General Services Administration, at above address. GW 5-11

■ CHRISTIAN EDUCATION BUILDING— Seattle, Wash.

Planholders announced for the construction of a new Acheson Memorial Christian Education building at E. 47th and 15th Ave. N.E., Seattle. Bids will be opened 2:30 p. m., May 25, in the office of Rich & Trimble & Associates, architects, 4507 University Way, Seattle, by University Presbyterian Church, Rev. David L. Cowie, pastor, 3733 47th Place N.E., Seattle. Select list of bidders. Peter H. Hostmark, Mayberg & Associates, Lloyd Bldg., are structural engineers; Stern & Towne, mechanical engineers, and Thomas E. Sparling, electrical engineer, both of 615 Lakeview Blvd. All of Seattle.

Planholders—GENERAL: J. C. Boespflug Construction Co., 1912 4th Ave. S.; W. G. Clark Co., 408 Aurora; Jentoft & Forbes, 927 W. 46th; Nelse Mortensen & Co., Inc., 1021 Westlake Ave. N.; John H. Sellen Construction Co., 228 9th Ave. N.; George E. Teufel Co., White - Henry - Stuart Bldg.; Henrik Valle Co., Inc., 413 3rd Ave. W.; Wick Construction Co., 720 N. 35th. MECHANICAL: W. E. Beggs, Inc., 234 9th Ave. N.; W. A. Botting, 5625 University Way; Boyker Plumbing and Heating Co., Inc., 2627 Eastlake; Thorn & Marble Co., Inc., 4225 23rd Ave. W.; University Plumbing and Heating Co., 3941 University Way; West Coast Heating and Plumbing Co., 657 7. Northlake. ELECTRICAL: Carlson-Collingwood, Inc., 8945 Aurora; City Electric & Fixture Co., 433 8th Ave. N.; Geddes Electric Co., Inc., 1316 N. 105th; Holert Electric Co., 2300 W. Spokane; Industrial Electric Co., 1828 Yale Ave.; Northwest Electric Co., 420 Yale Ave. N.; Van S. McKenny Co., 104 Wall; Selo Electric Co., Inc., 1050 N. 38th; Donald W. Close Co., 2921 13th Ave. S.W. All of Seattle. GW 5-12. Previous report 5-2

▲ OFFICE BUILDING— Seattle, Wash.

The low bid for construction of an office building at 212 Queen Anne Ave., Seattle, was submitted by Joe Rentel, 123 Mercer, Seattle, when bids were opened May 9. Amount of the bid has not been released by the owner, Delmar H. Noonan. Bids are being held under advisement. Plans by John C. O'Brien, architect, 332 2nd Ave. W., Seattle. GW 5-12. Previous report 5-2

★HEATING CONTROL— Seattle, Wash.

Award to Selo Electric Co., 1050 N. 35th, Seattle, $18,285, by 13th Naval District, Bureau of Yards and Docks, Rear Admiral R. H. Meade, chief of bureau, Public Works Office, room 100, Building 232, U. S. Naval Station, Seattle, for automatic heating control for 13 buildings at U. S. Naval Station, Seattle; NOy-90556; Spec. No. 49235. GW 5-15. Previous report 5-1

★SWIMMING POOL ALTERATIONS— Seattle, Wash.

Award to L. G. Massart Plumbing and Heating Co., 4501 9th Ave. N.W., Seattle, $3,458, by 13th Naval District, Bureau of Yards and Docks, Rear Admiral R. H. Meade, chief of Bureau, Public Works Office, room 100, Building 232, U. S. Naval Station, Seattle, for renovation of mechanical installation for swimming pool, building No. 269, U. S. Naval Station, Seattle; NBy-1010; Spec. No. 2010/56. GW 5-15. Previous report 5-1

★ELECTRICAL WORK— Seattle, Wash.

Award to Donald W. Close Co., 2921 13th Ave. S.W., Seattle, $7,775, by Alaska Communications System, U. S. Army Signal Corps, A. G. Muttart, contracting officer, 4735 E. Marginal Way, Seattle, for addition of a fourth wire, third phase to Alaska Communication System, communications center on the 5th floor, Federal Office Bldg., Seattle; DA 45-041-sc-56-11. GW 5-15. Previous report 4-26

★MODIFICATION OF HEATING AND VENTILATING SYSTEMS—Seattle, Wash.

Award to University Plumbing and Heating Co., $82,820, by Corps of Engineers, Seattle District, Colonel N. A. Matthias, district engineer, 4735 E. Marginal Way, Seattle, for modification of heating and ventilating systems at Seattle General Depot, Building T-20, at 4735 E. Marginal Way, Seattle; CIVENG-45-108-56-100. GW 5-16. Previous report 5-4

■ SCHOOL— Seattle, Wash.

Planholders announced for the construction of the Jefferson Junior High School at 16th Ave. S., and Columbian Way, Seattle. Bids will be opened 2 p. m., May 22, by Seattle School District No. 1, Frank M. Brock, secretary, 815 4th Ave. N., Seattle. Plans with John W. Maloney, architect, 754 Central Bldg., Seattle. $50 deposit. Three separate contracts, general, mechanical and electrical. Certified check, cashier's check or bid bond 5%.

Additional Planholders—GENERAL: Kuney-Johnson, 1266 Mercer, Seattle. ELECTRICAL: Holert Electric Co., 2300 W. Spokane, Seattle; Faddens Electric Co., 7902 9th Ave. S.W., Seattle; Beckstrom's Electric Co., 14058 Bothell Way, Seattle. GW 5-16. Previous report 5-9

▲ SCHOOL ADDITION— Seattle, Wash.

Bids received May 15 by Shoreline District No. 412, King County, Dr. Ray W. Howard, superintendent, Administration Bldg., E. 158th and 20th Ave. N.E., Seattle, for construction of an addition to the Paramount Park Elementary School at E. 155th and 10th Ave. N.E., Seattle. Plans by Peterson

For Permanent Insulation that Saves TWO Ways

-- Specify New REFLECTIVE Kimsul

The only insulation which gives both heat-barrier and vapor-barrier savings is the new reflective type Kimsul. Kimsul's aluminum foil backing stops heat loss. Kimsul is a permanent, fire-resistant installation, applied easily and at low cost to walls, floors, attics. Prefabricated in standard sizes, will not sift or settle.

PIONEER SAND & GRAVEL CO.

901 FAIRVIEW AVE. N. • 910 W. SPOKANE ST. • SEATTLE • MAin 2900

& Adams, architects, 1905 Smith Tower, Seattle. LOW BIDS: Dahlgren Construction Co., 1700 21st Ave. S., Seattle, $43,762; H. E. Forsman, 3833 Stone Way, Seattle, $45,831; W. G. Clark Co., 408 Aurora, Seattle, $46,269. It is anticipated that the contract will be awarded May 21.
GW 5-16. Previous report 5-10

● CHURCH— Seattle, Wash.

Bids will be opened 8 p.m., May 31, by Broadview Lutheran Church, Jack Thornton, chairman, 132nd and Greenwood, Seattle, for construction of new church and social hall at above address. Plans with Steinhart, Theriault & Anderson, architects, 404 Medical Arts Bldg., Seattle. Select list of bidders.

One-story; basement; wood frame; steel (main floor), glued laminated (first floor) beams; 3"x6" decking covered by shake roof; stained glass on east and west walls, chancel wall stone, redwood on north and south walls; plaster walls and ceilings; exposed concrete floors; wood slab doors; oil fired hot water radiant heating system, unit ventilators in slab.
GW 5-16

★MUSIC BUILDING— Snohomish, Wash.

Awards announced by School District No. 200, George A. Moore, superintendent, 5th and D Streets, Snohomish, for construction of a music building for the high school at the above address. Plans by James Klontz & Associates, architects, 784 Dexter Horton Bldg., Seattle. AWARDS—GENERAL: A. W. Robertson, 8233 Overlake Drive, Bellevue, $80,829. MECHANICAL: Haskell Plumbing & Heating, 3014 Wetmore, Everett, $18,595. ELECTRICAL: Rogers Electric Co., 2805 Hoyt, Everett, $7,722.
SP 5-11. Previous report 4-26

SCHOOL— Spokane, Wash.
(Estimated cost $450,000)

Bond election will be held June 5 by Moran School District No. 37, Route 3, Spokane, for $28,350 bond issue to finance the district's share of construction of the high school in Freeman School District No. 358, Valleyford. Building will include 10 classrooms, multi-purpose unit, vocational agriculture shop.
SC 5-5

★POST OFFICE, COURT HOUSE ALTERATIONS— Spokane, Wash.

Award to Beaver Construction Co., N. 2619 Hamilton, Spokane, $1,458, by General Services Administration, room 126, Federal Office Bldg., 909 1st Ave., Seattle, for alterations to rooms 338 and 340 at U. S. Post Office and Courthouse, Spokane; Project No. CR-10-407.
GW 5-12. Previous report 4-27

●■ SERVICE STATION— Spokane, Wash.
(Estimated cost $20,000)

Bids will be opened 2 p.m., May 21, by True's Oil Co., N. 717 Hamilton St., Spokane, for construction of a 6-pump service station at Hamilton St. and Ermena Ave. in Spokane. Plans with Wattern Cummings Heylman, architect, room 422, American Legion Bldg., Spokane. $25 deposit.

One-story; 24'x40'; block walls; concrete slab floors; built-up roof; frame partitions; wood windows; drywall ceilings; wood doors; painted exterior, block interior doors.

Planholders: AAA Construction Co., N. 739 Helena St.; Sceva Construction Co., Inc., N. 2928 Madelia St.; Smith & Roberts Co., Box 6086; Barlow Construction Co., N. 415 Bowdish Road; Purvis Construction Co., E. 5019 Sprague Ave.; Anton J. Popp Construction Co., W. 205 29th Ave. All of Spokane.
CE 5-12

● SCHOOL ADDITION— Spokane, Wash.

Bids will be received until 5 p.m., in the the office of the architect, F. A. Long, 500 Columbia Bldg., Spokane, and will be opened at 8 p.m., May 29, by Otis Orchards School District No. 348 in the Otis Orchards Primary School, Spokane, for construction of an addition to the Otis Orchards Elementary School. Plans with architect. $25 deposit. Certified check, cashier's check or bid bond 5%. Separate bids on general, mechanical, electrical. Six-classroom addition to rear and left of existing building, a multipurpose addition to rear and right.
CE 5-12

●■ CHURCH— Spokane, Wash.
(Estimated cost $35,000)

Bids will be opened 3 p.m., May 24, by the architect for Community Lutheran Church, Rev. H. A. Johnson, pastor, for construction of a church on Driscoll Blvd. and Rowan Ave., in Spokane. Plans with Eddy, Carlson & James, architects, N. 1205 Washington St., Spokane. $25 deposit. Bid bond 5%.

One-story; reinforced concrete footings and foundation; solid masonry brick walls; concrete floors; glued laminated roof arches; blanket type aluminum foil insulation in walls and ceilings; gas fired hot water radiant floor heat.

Planholders: Hefte Construction Co., E. 11607 Trent Ave.; Sceva Construction Co., Inc., N. 2928 Madelia St.; Hazen & Clark, Inc., W. 108 Boone Ave.; Gil Bauer, 3924 17th Ave.; Selkirk Co., E. 601 Trent Ave. All of Spokane. CE 5-12. Previous report 4-25

★RECTORY— Spokane, Wash.

Award to AAA Construction Co., N. 739 Helena, Spokane, approximately $183,835, by Spokane Diocese, 317 S. Howard St., Spokane, for construction of a rectory at St. Aloysius Catholic Church, Boone Ave. and Astor St., Spokane. Plans by Culler, Gale, Martell & Norrie, architects, Realty Bldg., Spokane. CE 5-15. Previous report 3-29

DEPARTMENT STORE ADDITION— Spokane, Wash.

General contract will be negotiated soon by Allied Stores, Inc., Spokane, for construction of an addition with basement and for interior alterations to the Bon Marche store in Spokane. Plans by John Graham & Co., architects, 1426 5th Ave. Bldg., Seattle. Sub-bids will be called in June and summer construction is planned.
CE 5-16. Previous report 2-17

★WAREHOUSE— Spokane, Wash.

Award to Busboom & Rauh, N. 601 Cedar, Spokane, amount not disclosed, by Zellerbach Paper Co., W. 519 Railroad, Spokane, for construction of a one-story concrete warehouse at Freya and Ferry streets, Spokane. Zellerbach's district engineer, B. Beuter, 534 Battery St., San Francisco, Calif., will be in charge of construction.
CE 5-16. Previous report 5-9

CHURCH— Spokane, Wash.
(Estimated cost $35,000)

Bids being received on general contract by Eddy, Carlson & James, architects, N. 1205 Washington St., Spokane, for construction of the new Hamblen Park United Presbyterian Church in Spokane for United Presbyterian Church, 209 9th St., Pittsburgh, Pa. Contract to be negotiated soon.

One-story; no basement; reinforced concrete foundation; Washington Brick and Lime "Titan" brick walls; concrete slab floors; frame partitions; glued laminated arches; wood sash; some cathedral glass; asbestos vinyl tile floors; acoustical tile ceilings; gas fired hot water radiant heat.
CE 5-16. Previous report 3-20

COUNTY-CITY BUILDING— Tacoma, Wash.

Plans will be completed May 29 by Gordon A. Lumm, architect., 321 S. 11th Ave., Tacoma, for the County-City Building in Tacoma. Bids will be called late in May by Pierce County Commissioners, Courthouse, Tacoma. Plans are revised to eliminate the law enforcement wing and health department floors.
GW 5-11. Previous report 2-7

★DEPARTMENT STORE— Tacoma, Wash.

Award to Quality Builders, Box 15-3, Tacoma, $359,000, by Norman L. Iverson, owner of the Bankers Trust Bldg., for an addition to the People's Department Store in Tacoma. Plans by Robert Billsbrough Price, architect, 2901 A St., Tacoma.
GW 5-11. Previous report 3-14

★BUILDING ALTERATIONS— Tacoma, Wash.

Award to R. G. Foster, 11725 Pacific Highway, S. Tacoma, $14,570, by 13th Naval District, Bureau of Yards and Docks, Rear Admiral R. H. Meads, chief of Bureau, Public Works Office, room 100, building 232, U. S. Naval Station Seattle, for alterations to building No. 319, U. S. Naval Station, Tacoma; NBy 2003; Spec. No. 2003/56.
GW 5-15. Previous report 5-1

★BANK— Vancouver, Wash.

Awards revised to exercise alternates for electric heating for First Independent Bank, E. W. Firstenburg, president, Highway 99-N, Vancouver, for new bank building at Fourth Plain Ave. and Laurel Place, Vancouver. REVISED AWARDS—GENERAL: L. F. Raley, 5707 Evergreen Highway, $36,649. MECHANICAL: Manor Plumbing, R.F.D. 1, $3,089. ELECTRICAL: MacPherson Electric Co., 3915 T St., $6,366. All of Vancouver.
WB 5-15. Previous report 5-1

SCHOOL CONSTRUCTION— Vancouver, Wash.

Bond election for $1,225,000 approved for Vancouver School District No. 37, Clark County, L. C. Matson, business manager-secretary, 2223 Kaufman St., Vancouver, to aid in the following school construction: New Clark Junior College on former Vancouver Barracks property (McCoy & Bradbury, 7007 Highway 99-N, Vancouver, have prepared preliminary plans); addition to Peter Ogden Elementary School; renovations to Fort Vancouver High School, 26th and Main Sts.; possible construction of a new grade school; various improvements to existing school grounds.
WB 5-12. Previous report 3-27

★SCHOOL ADDITION— Vancouver, Wash.

Award to only bidder, Larry O. Collins, Inc., 7017 N. Pacific Highway, Vancouver, $72,950, by School District No. 81, Clark County, Orville Hammond, clerk, 6115 N.E. Jaggy Road, Vancouver, for Walnut Grove School, on Jaggy Road. Plans by McCoy and Bradbury, architects, 7007 Highway 99-N, aVncouver. Collins' basic bid was $74,300. Bids were opened May 10.
WB 5-16. Previous report 4-28

● IMPLEMENT SHED— Vancouver, Wash.

Bids to be opened 1:30 p.m., May 28, by city purchasing agent, Robert Moisant, 712 Washington St., Vancouver, for implement shed at city shops. $10 deposit. Bid bond 5%.
WB 5-16

● STUDENT UNION BUILDING— Yakima, Wash.
(Estimated cost $50,000)

Bids will be opened 7:30 p.m., May 29, by Yakima Valley Junior College, School District No. 7, Milton Martin, superintendent, Yakima, for construction of a student union building at S. 16th Ave. in Yakima. Plans with Maloney & Whitney, architects, Larson Bldg., Yakima.

One-story; 5,075 sq. ft. area; concrete footings and foundation; poured concrete walls; concrete slab floors; concrete girders, beams, columns; hyperbolic paraboloid poured concrete roof; masonry, frame partitions; steel windows; floor-to-ceiling window walls with plastic sandwich panels; pre-finished hardboard drywall partitions; ceramic tile, concrete floor finish; concrete ceilings; hollow metal exterior, wood interior doors; finned pipe radiation heating system, existing boiler plant; ventilating system.
IG 5-11

IDAHO

★SPERT AREA ADDITIONS— Idaho Falls, Idaho

Award to Wadsworth Construction Co., 255 Broadway, Idaho Falls, $124,600, by Atomic Energy Commission, Idaho Operations Office, Box 1221, Idaho Falls, on construction of additions to SPERT area control building at the National Reactor Testing Station, Idaho; Inv. No. AT(10-1)-819.
SP 5-11. Previous report 5-8

▲ROOFING— Idaho Falls, Idaho

Bids received by U.S. Atomic Energy Commission, Idaho Operations Office, Box 1221, Idaho Falls, for replacement of roof-

ing on six buildings in the MTR area at the National Reactor Testing Station at Idaho Falls: Inv. No. AT(10-1)-824. LOW BIDS: Idaho Falls Roofing Co., 197 Lomac, Idaho Falls, $15,865; Rocky Mountain Roofing Co., 708 S. 2nd Ave., Pocatello, $20,459; Deming Roofing & Insulation Co., 1319 W. Nickerson St., Seattle, Wash., $22,557. Bids opened May 9. SP 5-15. Previous report 4-28

SCHOOLS— Meridian, Idaho

Voters in Ada County Class A School District No. 2 rejected a bond issue of $1,450,000 for new school buildings in the district. Funds would have been used for a new high school and adequate grade school facilities throughout the county.
DC 5-15. Previous report 4-6

★SCHOOL— Nampa, Idaho

Award to G & M Construction Co., Box 1276, Boise, $123,990, by Class A School District No. 131, Nampa, for construction of additional classroom unit at the high school site in Nampa. Plans by Anton E. Dropping, architect, 2504 Kootenai Ave., Boise.
SC 5-11. Previous report 5-8

▲SCHOOL ADDITION— Pocatello, Idaho

Bids received by Pocatello School Board, Gerald R. Wallace, Pocatello, for an addition and alterations to Franklin Junior High School. Following are low base bids: Erhardt Andersen Construction Co., 167 Foothill Blvd., Pocatello, $111,400; Hershberger Co., Pocatello, $111,985; C. H. Elle Construction Co., 390 Yellowstone, Pocatello, $112,813.
DC 5-11

★JUNIOR HIGH SCHOOL—Pocatello, Idaho

Contract was awarded to C. H. Elle Construction Co., 390 Yellowstone Ave., Pocatello, $785,831, by the Pocatello School Board, on construction of the Hawthorne Junior High School. Elle's original base bid of $839,000 was pared $55,169 by eliminating some items and substituting others. The main item substituted was asphalt tile in place of maple floors, saving $30,000. Other base bids were as follows: Brennan Construction Co., 718 S. 2nd, Pocatello, $875,000; W. R. Cahoon Construction Co., 3208 Pole Line Road, Pocatello, $188,000. DC 5-11

SCHOOL ADDITIONS, ALTERATIONS— Potlatch, Idaho

Bond issue approved by voters in Potlatch School District, J. Lowell Scott, superintendent, Potlatch, for school construction in Potlatch. Funds will provide for: six additional classrooms to elementary school; improvement of seating and acoustical effects in high school gymnasium; modernizing of science classrooms; construction of sidewalks and playground. MH 5-16

★ELECTRICAL EQUIPMENT, LIGHTING— Twin Falls, Idaho

Award to Shotwells Utility Co., 152 2nd Ave. N., Twin Falls, $27,954, by Idaho Independent Class A School District No. 411, Ernest G. Ragland, superintendent, 511 Shoshone N., Twin Falls, for electrical and lighting equipment in remodeling a portion of Twin Falls Junior High School. Plans by Cecil Jones & Eugene Brierholt, architects, 131 2nd St. W., Twin Falls.
FJ 5-11. Previous report 5-8

MONTANA

▲MEN'S DORMITORY— Billings, Mont.

Bids received by State Board of Education, Capitol Bldg., Helena, for construction of a men's dormitory on the campus of Eastern Montana College of Education in Billings. Plans by Cushing, Terrell & Associates, architects, 1333 Airport Road, Billings. LOW BIDS—GENERAL: Lowe Construction Co., 2325 9th Ave. N., Billings, $226,800; H. Halvorson, Inc., Box 6, Yardley, $239,202; Haggerty-Messmer, Bozeman, $244,000. MECHANICAL: Midland Construction Co., Plumbing & Heating Co., 425 N. 19th Ave., $55,789; Christensen Plumbing & Heating, 3615 Montana Ave., $57,775; Frisby Plumbing & Heating, 208 Grand Ave., $61,400. ELECTRICAL: Empire Electric, 2412 4th Ave., $16,258; Curley-Naylor Electric Co., 123 N. 16th St., $16,373; Dahlstrom Electric, 223 N. 15th St. All of Billings unless otherwise noted. Bids opened May 10.
LS 5-12. Previous report 5-2

★SCHOOL ADDITION— Billings, Mont.

Award announced by Yellowstone County School District No. 2, superintendent, 3201 4th Ave. N., Billings, for construction of a multipurpose room addition to North Park School, 615 N. 19th, Billings. Plans by Gene E. Trotter, architect, 219½ N. Broadway, Billings. AWARD: Cop Construction Co., 617 Central Ave., $58,717. 2ND LOW: Pogue Construction Co., 1715 2nd Ave. N., $63,900. 3RD LOW: Hardy Construction Co., 420 N. 25th St., $65,810. All of Billings. Bids opened May 10.
EE 5-15. Previous report 5-2

★SCHOOL ADDITIONS— Billings, Mont.

Awards announced by Yellowstone County School District No. 2, superintendentt, 3201 4th Ave. N., Billings, for an addition to Orchard School, 120 Jackson St., Billings. Plans by Chandler C. Cohagen, architect, Hedden Bldg., Billings. GENERAL—AWARD: Frates Construction Co., 424 Rimrock Road, $127,370. 2ND LOW: Hitz Construction Co., 2111 4th Ave. N., $128,840. 3RD LOW: Wells Bros. Construction Co., 704 Dunham Ave., $133,140. MECHANICAL—AWARD: Wagner Plumbing & Heating, 1043 Miles Ave., $9,817. 2ND LOW: Midland Plumbing & Heating, 425 N. 19th, $10,831. 3RD LOW: Biegel Plumbing & Heating, 1119 Miles Ave., $10,880. HEATING—AWARD: Christensen Plumbing & Heating, 3615 Montana Ave., $12,000. 2ND LOW: Dusapin Heating, 635 Central Ave., $14,721. 3RD LOW: Empire Heating & Cool-



ROOF TRUSSES-Give Ring a Ring

Cover the overhead with custom cut "BOWSTRING" or "A" type TRUSSES for stores, warehouses, commercial, farm and utility buildings.

SHOW US THE WALLS—WE'LL COVER THE ROOF . . . OR YOU CAN!

RING & PITTS CLEAR SPAN ROOF TRUSSES

N. 2607 MONROE, SPOKANE 17, WASH. EMpire 4465

COMFORT with ECONOMY in PORTLAND OREGON

Portland's fine home-like hotel in the center of the city—Unsurpassed service and fine cuisine makes your visit one of happiness and comfort.

Campbell Court Hotel

ELEVENTH AND MAIN STREETS

Our rates are especially reasonable. All rooms with private bath. Singles from $3.50. Doubles from $4.50

Porcelain ENAMEL... for the building industry

A Church Steeple exemplifies the part PORCELAIN ENAMEL is accomplishing in modern architecture . . . enduring the ravages of time and weather . . . maintaining everlasting attractiveness.



Temple Methodist Church, San Francisco
Architect: Alfred W. Johnson
Contractor: Morris Daley

Write for detailed information, TODAY!

ARCHITECTURAL DIVISION

PORCELAIN ENAMEL PUBLICITY BUREAU

P. O. BOX 186 • EAST PASADENA STATION • PASADENA 8, CALIFORNIA

1444 WEBSTER STREET • ROOM 4 • OAKLAND 12, CALIFORNIA

ing, 1309 Division St., $16,892. ELECTRICAL—AWARD: Billings Electric Supply Co., 214 N. 25th St., $12,323. 2ND LOW: Yellowstone Electric, 520 N. 32nd St., $12,722. 3RD LOW: Empire Electric, 2412 4th Ave. N., $12,835. All bidders of Billings. Bids opened May 10. EE 5-15. Previous report 5-2

★**DISTRIBUTION CENTER— Butte, Mont.**
(Estimated cost $2,000,000)

Award to Naranche & Konda, contractors, 2801 S. Montana Ave., Butte, by Safeway Stores, Inc., C. A. Bradburn, division manager, Mayer Bldg., Butte, for construction of a distribution center on land west of Harrison Ave. and east of Timber Butte, in Butte. Plans by J. Hamill & Associates, architects, 122 W. Granite St., Butte.

Plans include construction of grocery (123,000 sq. ft. area), meat (21,000 sq. ft.), and perishable goods (52,000 sq. ft.) warehouses; repair shop; enclosed trucking equipment area including loading zone; fenced parking facilities for 125 automobiles.

SC 5-16. Previous report 4-26

★**ARMORY— Glendive, Mont.**

Award announced by State Board of Examiners, State Capitol Bldg., Helena, for construction of an armory in Glendive. Plans by Carlo DiCicco, architect, 117½ N. Merrill Ave., Glendive. AWARD: Sterhan Construction Co., 800 N. Merrill, Glendive, $59,224. 2ND LOW: Midland Construction Co., Box 608, Miles City, $64,360. 3RD LOW: Rockne & Son, Box 396, Glendive, $70,133. Bids opened May 10.

LS 5-12. Previous report 5-4

●**LAMPS— Great Falls, Mont.**

Bids will be opened 10 a. m., May 21, A. M. Johnson, state controller, State Purchasing Department, Capitol Bldg., Helena, for furnishing and delivery fob. Cascade County Yard, Great Falls, incandescent and fluorescent lamps for all institutions and departments of State of Montana for the fiscal period ending June 30, 1957. Specifications with above office. SC 5-12

▲**SUNDAY SCHOOL ADDITION— Great Falls, Mont.**

Bids received by West Side Methodist Church, Rev. J. H. Ristow, pastor, 726 Central Ave. W., Great Falls, for construction of a Sunday School addition to the existing church. Plans by Holland & Lund, architects, 306 Electric Bldg., Great Falls. LOW BIDS—GENERAL: J. Jones Construction Co., $42,877; Yarno Construction Co., $47,444; Witty Construction Co., 815 25th N., $47,500. MECHANICAL: Central Plumbing & Heating, 923 Central Ave. W., $7,968; Hodges & Son, 1704 8th Ave. N., $9,670; Tynes Plumbing & Heating Co., 800 3rd Ave. S.W., $9,863. ELECTRICAL: Palmquist Electric Co., 1607 Central Ave., $4,953; Cascade Electric Co., 903 10th Ave. N., $5,350. All of Great Falls. Bids opened May 8.

SP 5-15. Previous report 5-4

●**ADMINISTRATION BUILDING ADDITIONS, ALTERATIONS—Great Falls, Mont.**

Bids will be opened 5 p. m., May 21, by City Council, Fred L. Hill, clerk, Civic Center, Great Falls, for construction of additions and alterations to north and south wings and lounge in the Administration Bldg. at Municipal Airport in Great Falls. Plans with McIver, Hess & Haugsjaa, architects, 603 Strain Bldg., Great Falls. $25 deposit. SC 5-15

●**DORMITORIES— Havre, Mont.**

Bids rejected by Montana State Board of Education, Mary M. Condon, secretary, State Capitol Bldg., Helena, for construction of men's dormitories at Northern Montana College in Havre. Plans by Cushing & Terrell, architects, 1333 N. 27th St., Billings. Bids were opened May 10.

LS 5-15. Previous report 5-4

●**BUILDING ALTERATIONS— Helena, Mont.**

Bids will be opened 3 p. m., May 29, by General Services Administration, W. W. Southworth, chief of Construction and Repair Division, room 126, Federal Office Bldg., 909 1st Ave., Seattle, for alterations to room 301,302, room 410-412 and 424 Federal Office Bldg., Park and Lawrence Avenues, Helena; Project No. CP-10-438. Plans with General Services Administration, at above address.

GW 5-11

★**HEADQUARTERS BUILDING— Lodge Grass, Mont.**

Award to Frates Construction Co., 424 Rimrock Road, Billings, $87,738, by Big Horn County Electrical Cooperation, REA, Lodge Grass, for a headquarters building. Plans by Walter Kuetzing, architect, 316 Hart Albin Bldg., Billings.

EE 5-16. Previous report 4-27

▲**ARMORY— Miles City, Mont.**

Bids received by State Board of Examiners, State Capitol Bldg., Helena, for construction of an armory at Miles City. Plans by Carlo DiCicco, architect, 117½ N. Merrill Ave., Glendife. LOW BIDS: Sterhan Construction Co., 800 N. Merrill Ave., Glendive, $62,600; Midland Construction Co., Box 608, Miles City, $63,580. Bids opened May 10.

LS 5-12. Previous report 5-4

★**TELEPHONE OFFICE—Miles City, Mont.**

Awards announced by Mountain State Telephone & Telegraph Co. of Denver, H. J. Strelesky, Montana Equipment & Building Engineer, Miles City, for construction of a telephone exchange building in Miles City. Plans by Morrison & Maierle, Inc., architects, 910 Helena Ave., Helena. AWARDS—GENERAL: Sterhan Construction Co., Box 1247, Glendive, $291,000. MECHANICAL: Regan Plumbing & Heating Co., 11 S. 9th, Miles City (no amount given). ELECTRICAL: Miles City Electric Co., 102 S. 6th, Miles City (no amount given).

LS 5-16. Previous report 5-11

▲**ELEVATOR— Missoula, Mont.**

Bids received by Board of County Commissioners, Joe Brown, county clerk, City Hall, Hall, Missoula, for construction of an elevator in the courthouse at Missoula. Two bids submitted by each bidder. LOW BIDS: Petersen Construction Co., Box 992, Missoula, $27,619 (bid 1), $28,689 (bid 2); Gordon Construction Co., Box 319, Missoula, $28,800 (bid 1), $30,000 (bid 2). Bids opened May 7.

SP 5-12. Preivous report 4-21

▲**ARMORY— Sidney, Mont.**

Bids received by State Board of Examiners, State Capitol Bldg., Helena, for construction of an armory located west of town near county fairgrounds, Sidney. Plans by Carlo DiCicco, architect, 117½ N. Merrill Ave., Glendive. LOW BIDS: Sterhan Construction Co., 800 N. Merrill, Glendive, $61,300; B. D. Ness Construction Co., Sidney, $65,519; Midland Construction Co., Box 608, Miles City, $66,752. Bids were opened May 10. LS 5-12. Previous report 5-4

WYOMING

★**STOCK BARN— Riverton, Wyo.**

Award to B. A. Polf and W. A. Jarvis, Riverton, $13,666, by Fremont County Fair Board, S. W. Samuelson, president, County Agent's Office, Box 887, Riverton, for construction of a steel stock barn in Riverton. Bids opened May 3.

SP 5-16. Previous report 4-28

★**ARMORY— Riverton, Wyo.**

Award to Peter J. Barton, Riverton, $179,404, by E. C. Rothwell, state purchasing agent, State Capitol Bldg., Cheyenne, for construction of an armory in Riverton. Plans by Everett E. Shores, architect, 1204 W. 31st, Cheyenne.

LY 5-16. Previous report 5-9

★**SCHOOL ALTERATIONS—Sheridan, Wyo.**

Award to Charles Johnson, Contractor, 1450 Val Vista St., Sheridan, $22,107, by School District No. 7, Board of Trustees, Karl D. Bell, superintendent, Coffeen Administration Bldg., Sheridan, for alterations to Coffeen School, Coffeen Ave., in Sheridan. Plans by Harrison L. Cook & Associates, architects, 119 N. Main St., Sheridan.

LY 5-16. Previous report 5-1

UTAH

★**SCHOOL— Bicknell, Utah**

Award to Tolboe Consrtuction Co., Box 7, Provo, $212,000, by Wayne County School District, Mrs. Hattie Baker, clerk, Bicknell, for additions and remodeling of the Wayne County High School in Bicknell. Plans by Robert L. Springmeyer, architect, 617 Zions Savings Bank Bldg., Salt Lake City. Bids opened April 26.

GH 5-11. Previous report 4-1

●**SHOP BUILDING— Cedar City, Utah**

Bids will be opened 2 p. m., May 22, by Utah State Building Board, Jerry G. King, superintendent of construction, 419 State Capitol Bldg., Salt Lake City, for construction of a shop building at the College of Southern Utah in Cedar City. Plans with L. Robert Gardiner, architect, Cedar City. $25 deposit. Bid bond 5%. GH 5-11

★**SCHOOL— Clearfield, Utah**

Award to Fredrickson Builders Supply Co., 4670 Redwood Road, Salt Lake City, $115,759, by Davis County Board of Education, Samuel Morgan, superintendent, Farmington, for construction of an addition to North Davis Junior High School in Clearfield. Plans by Ashton, Evans & Brazier, architects, 24 S.W. Temple, Salt Lake City.

GH 5-11. Previous report 4-13

★**HEATING SYSTEM— Hill AFB., Utah**

Award to B. W. Thorpe, Box 91, Ogden, $10,961, by Ogden Air Material Area, Hill AFB., Utah, for replacing heating systems in southwest and northeast annexes of building 225, Airplane Repair Unit at Hill AFB.; IFB 42-600-314. GH 5-15. Previous report 4-13

▲**FIRE STATION— Kearns, Utah**

Bids received by Salt Lake County Commissioners, City-Council Bldg., Salt Lake City, for construction of a new fire hall in Kearns. Plans by Scott & Beecher, architects and engineers, 617 Dooly Bldg., Salt Lake City. LOW BIDS: Tri West Construction Co., 170 E. Vidas Ave., $19,416; Continental Construction Co., 452 E. 3600 South, $19,673; A. W. Curtis & Sons, 1582 Orchard Drive, $22,412. All of Salt Lake City. Bids opened May 9. GH 5-15. Previous report 5-4

★**ELEMENTARY SCHOOL— Layton, Utah**

Award to G. Maurice Romney, 424 S. 7th East, Salt Lake City, $166,032, by Davis County School District, Samuel Morgan, superintendent, Farmington. Plans by Ashton, Evans & Brazier, architects, 24 S.W. Temple Salt Lake City.

GH 5-11. Previous report 4-13

▲**TEACHER TRAINING BUILDING— Logan, Utah**

Bids received by Utah State Building Board, 419 State Capitol Bldg., Salt Lake City, for construction of a teacher training building for Utah Agricultural College in Logan. Plans by Paul K. Evans, architect, 237 E. 3rd South, Salt Lake City. LOW BIDS: Ernest Stettler & Sons, 672 E. 9th North, $341,600; Newell J. Olsen & Sons, 128 S. 1st East, $349,990; Ace S. Raymond, 1022 N. Main St., $367,000. All of Logan. Bids opened May 9. GH 5-15. Previous report 4-28

■**HOSPITAL ADDITION— Price, Utah**

Planholders announced for construction of a 50-bed addition to Price city and county hospital. Bids will be opened 2 p. m., May 24, by Utah State Building Board, J. G. King, superintendent of construction, 419 State Capitol Bldg., Salt Lake City. Plans with Fetzer & Fetzer, architects, 415 Zions Savings Bank Bldg., Salt Lake City.

Planholders: Mountain States Construction Co., 36 E. 4th South, Bountiful; Dorland Construction Co., 1309 Jefferson St.; Gartf, Ryberg & Garff, 850 W. 15th North; Plewe Construction Co., 838 E. S. Temple; Quinney

& Winburn Construction Co., 1474 S. 6th West; Alfred Brown Construction Co., 627 Dooly Bldg.; K. S. Witt Construction Co., Box 101, Provo; Ralph R. Child, 1200 E. 4th South, Springville; Jensen Construction Co., 548 W. 2nd North; Christiansen Bros. Construction Co., 209 W. 13th South; C. H. Elle Construction Co., Box 119, Pocatello. All of Salt Lake City unless otherwise noted. GH 5-16. Previous report 4-27

●HIGH SCHOOL— Salt Lake City Utah

Bids will be opened 3:30 p. m., May 29, by Salt Lake City Board of Education, Robert L. Bridge, clerk, 440 E. 1st South, Salt Lake City, for construction of second stage of the Highland High School, 21st S. and 17th E., Salt Lake City. Plans with Lorenzo S. Young and Arnold H. Ehlers, architects, 826 Continental Bank Bldg., Salt Lake City. Bids on general, mechanical and electrical contracts. GH 5-11

●REMODEL BANK BUILDING— Salt Lake City, Utah

Bids will be opened 2 p. m., May 22, by architects for Walker Bank Building, Main and 2nd S., Salt Lake City, for remodeling of banking floor and all of 2nd floor of existing bank building in Salt Lake City. Plans with Ashton, Evans & Brazier, architects, 24 S. W. Temple, Salt Lake City.

Exterior will remain the same; concrete slab floors; wood stud partitions; metal stairways; aluminum windows; walnut wood wall finish; plaster and wood lath partitions; marble floor finish; luminous ceilings; metal exterior doors; wood interior; new counters of marble; forced air heating system, coal fuel. GH 5-11. Previous report 1-13

▲LABORATORY, KENNEL ADDITION— Salt Lake City, Utah

Bids received by Utah State Building Board, 419 Capitol Bldg., Salt Lake City, for construction of an addition to the radiobiology laboratory and dog kennels for the U. S. Atomic Energy Commission on upper campus, University of Utah, Salt Lake City. Plans by Robert Springmeyer, architect, Zion Savings Bank Bldg., Salt Lake City. LOW BIDS—PROPOSAL 1 (dog kennels and laboratory addition): Plewe Construction Co., 838 E. S. Temple, $79,980; Security Construction Co., 5875 Holladay Blvd., $121,000; R. K. McCullough, 676 "G" St., $131,300. PROPOSAL 2 (laboratory addition only): Security Construction Co., $57,596; Plewe Construction Co., $62,900; R. K. McCullough, $66,000. PROPOSAL 3 (dog kennels only): Finn B. Paulsen, 3181 S. 1940 East, $61,400; Chytraus Bros. Co., 2040 Redondo Ave., $61,800; Maurice B. McCulluogh, 503 13th Ave., $62,783. All of Salt Lake City. Bids opened May 8. GH 5-15. Previous report 4-19

●LAUNDRY BUILDING REMODELING— Salt Lake City, Utah

Bids will be opened 10:30 a. m., June 1, by Salt Lake County Commissioners, Lamont B. Gunderson, chairman, Courthouse, Salt Lake City, for remodeling of the laundry building at Salt Lake County General Hospital, 2033 S. State St., Salt Lake City. Plans with above office. Bid bond 5%. GH 5-16

★OFFICE BUILDING—Salt Lake City, Utah

Award to Atlas Construction Co., 1841 E. 9th South, Salt Lake City, $107,598, by Utah State Building Board, J. G. King, superintendent of construction, 419 Capitol Bldg., Salt Lake City, for construction of an office building at S. Main and Louise Ave., for Welfare Dept., Salt Lake City. Plans by Bruce & McDermott, architects, room 105, 366 S. 5th West, Salt Lake City.
GH 5-16. Previous report 5-10

★COLLEGE BUILDING— St. George, Utah

Award to Witt Construction Co., Box 101, Provo, $587,000, by Utah State Building Board, J. G. King, superintendent of construction, 419 State Capitol Bldg., Salt Lake City, for construction of new buildings at Dixie College, St. George. Plans by Lorenzo S. Poung, architect, Continental Bank Bldg., Salt Lake City. GH 5-11. Previous report 3-31

ALASKA

■MILITARY BUILDING— Alaska

Planholders announced for the construction of military buildings at Eielson AFB., Ladd AFB.; Haines; British Columbia, Yukon Territory and Tok Junction; ENG-45-507-56-40. Bids to be opened 11 a. m., P.S.T., May 22, by Corps of Engineers, Alaska District, in the Seattle Branch offices, J. P. Byrne, manager, 4735 E. Marginal Way, Seattle. Bid bond 20%. Plans available from Seattle district office at above address.

Planholders: W. L. Reid Co., 3178 W. 87th, Portland; W. R. Grasle Co., 311 California St., San Francisco; Holoday & Edworthy, Inc., 6240 S. Tacoma Way, Tacoma; Urban, Inc., 103 S. 28th, Tacoma; Chas. A. Langlais & Son, Inc., 474 Bryant St., San Francisco; Dorrington's Contractors-Engineers, 4150 Fox St., Denver, Colo.; Holert Electric Co., 2300 W. Spokane St., Seattle; Lent's, Inc., 279 4th St., Bremerton; Pacific Construction Co., 213 East Reserve, Vancouver; Century Metal Works, 7126 W. Marginal Way, Seattle; H. D. Fowler Co., Inc., 901 Lane, Seattle; Urban Plumbing and Heating Co., 2904 S.W. 1st Ave., Portland; Isaacson Iron Works, Box 3625, Seattle; Independent Iron Works, Inc., 8th and Pine, Oakland, Calif.; Maxwell Steel Co., P. O. Drawer 230, Fort Worth, Texas; Atwell, Inc., 36th off Broadway, Everett; Line Material Co., Box 2077, Milwaukee, Wis.; Crane Co., Government Department, 10700 Hanna St., Beltsville, Md.; B-E-C-K, 3647 Stone Way, Seattle.
GW 5-11. Preivous report 4-27

WHITE ALICE FACILITIES— Alaska

Bids will be called soon by Corps of Engineers, Alaska District, district engineers, D-E Bldg., Anchorage, for construction of White Alice Facilities, communications projects at Middleton Island; ENG-95-507-56-53; Sparrevohn, Indian Mountain, Unalakeett, Kodiak, Bethel and Sitkinak, ENG-95-507-56-54. Projects will be advertised for three weeks, but bidders should arrange to view sites, etc., before the time of advertising. Other information may be obtained at the district engineer's office, Anchorage. Plans and specifications of similar (not identical) projects may be examined at the Anchorage or Seattle branch office. Completion about 4 months from date of contract award.

The work at all sites consists of construction of an equipment building of approximately 5,000 sq. ft.; installation of diesel engines and generators; erection of towers and antennae composed of structural steel shapes bolted together, and the erection of a communications cable on a pole line from an existing Air Force Station which is located nearby to the site. The foundations at the site vary. A bench mark will be set for control of all elevation and a base line will be established to control the azimuth sitting of the towers and equipment building. Sparrevohn; in addition to the equipment building will have a dormitory of 5,200 sq. ft. Unalakleet will have a dormitory 4,500 sq. ft., and 10 mi. of road will have to be constructed from the Air Force station to the site before work can be started on the site. This will be done generally by dumping sand and gravel on the tundra and will also have erection of a tower at an Air Force station nearby included in its invitation. Bethel, steel H-piles will be used and steel shapes for the floors, these to be government furnished. GW 5-16

▲SHOP PAINTING— Anchorage, Alaska

Low bids announced for painting Alaska Railroad's heavy equipment and diesel repair shop at Anchorage, by Alaska Railroad, Irvin P. Cook, chief engineer, Anchorage. LOW BIDS: A.B.C. Painting and Decorating Co., Anchorage, $4,460; Warren Painting Co., 213 Cordova Ave., Anchorage, $4,848; Saint Painting Co., $5,386. Bids were opened May 2 and held under advisement.
GW 5-11. Previous report 4-19

★ELKS LODGE— Anchorage, Alaska

Award to J. B. Warrack Co., 400 2nd Ave. W., Seattle, $318,550 (base bid plus $1,650 alternate for automatic pin setters in bowling alley), by B.P.O.E., c/o architect, Edwin B. Crittenden, Box 358, Anchorage.
SP 5-16. Previous report 4-17

★BUILDING REMODELING— Anchorage, Alaska

Award to Schowenwald Construction Co., Barr Road, Box 1115, Spenard, $24,263, by City Council, City Hall, Anchorage, for remodeling the basement of City Hall to provide additional office space. Plans by Manley & Mayer, architects, Loussac-Sogn Bldg., Anchorage.
SC 5-16. Previous report 5-8

●TACTICAL FACILITIES BUILDINGS— Anchorage, Alaska

Bids will be opened 11 a. m., June 14, by Corps of Engineers, Alaska District, in the office of Seattle branch manager, J. P. Byrne, 4735 E. Marginal Way, Seattle, for tactical facilities buildings and outside utilities at various NIKE sites in Alaska; INV No. ENG-95-507-56-55. Plans obtainable from district engineer, D-E Bldg., Anchorage, or Seattle branch office. Bid bond 20%.

Project includes—SCHEDULE A: Site Jig. SCHEDULE B: Site Tare. SCHEDULE: Site Peter. SCHEDULE D: Site Mike. Work at each site will consist of battery control building of 26,600 sq. ft. and modified emergency construction; launcher control building of 7,000 sq. ft.; two launching section structures 10,590 sq. ft., monolith concrete; fueling and fuel storage building, 1,718 sq. ft.; masonry construction, installation of government furnished equipment; development of water services, access roads, outside utilities. Final completion date for all schedules October 1, 1957. GW 5-16

●SCHOOL— Anchorage, Alaska

Bids to be opened 10 a. m., P.S.T., June 13, by Alaska Public Works, John D. Argetsinger, acting director, in the mailroom, 123 W. 3rd St., Juneau, for construction of the 20-classroom Talkeetna Elementary School at Mountain View, Anchorage; Proj. Aaa. 50-A-144. Plans with acting director, Box 1181, Juneau. $25 deposit. Certified check or bid bond 5%.

One-story; 34,000 sq. ft.; 78'x404'; reinforced concrete, steel frame; block walls; concrete slab floors; long span roof deck; brick and concrete wall finish; asphalt tile; aluminum exterior, birch interior doors; wood cabinets; modernfold doors; rigid insulation in roof; steam heating system, coal fired. DM 5-16. Previous report 4-13

●WHITE ALICE FACILITIES— Anchorage, Alaska

Bids will be opened 11 a. m., May 24, by Corps of Engineers, Alaska District, in the Seattle branch office, J. P. Byrne, manager, 4735 E. Marginal Way, Seattle, for con-

Classified Advertising

★

CLASSIFIED RATES

Regular Classified: $6 per column inch.

Classified Display: (Based upon number of insertions during any 12 month period.)

	1 time	6 times	12 times
Per Column Inch:	$9.00	$8.00	$7.00

LOOK

Used Trailers and Boxes Suitable for Offices or Portable Tool Shops

FRUEHAUF TRAILER CO.
16700 S. E. McLoughlin Blvd.
Portland 22, Oregon
Phone: OLive 4-5461

struction of White Alice Facilities at Fort Yukon (Schedule A) and Kotzebue (Schedule B) in Alaska; ENG-95-507-56-52. Plans with Alaska district engineer, D-E Bldg., Anchorage, and with Seattle branch office at above address. Bid bond 20%. The original bid call on this invitation included the following: Tacan facilities at the above sites; White Alice and Tacan facilities at Bethel and Kodiak; Navaid buildings at Fort Yukon, Northway and Bethel. These items have been deleted and will be called at a later date under another invitation number.
GW 5-16. Previous report 5-9

●PAINTING BUILDINGS— **Fairbanks, Alaska**

Bids will be opened 1 p. m., P.S.T., June 1, by Alaska Communication System, U. S. Army Signal Corps, A. C. Muttart, contracting officer, 4735 E. Marginal Way, Seattle, for repainting exterior of 14 Alaska Communication System buildings at Fairbanks; Ref. DA-45-041-sc-56-24. Plans with Alaska Communication system at above address.
GW 5-15

●MULTIPURPOSE BUILDING— **Fairbanks, Alaska**

Bids will be opened 8 p. m., May 24, by Fairbanks School District, Fairbanks, for construction of new multipurpose building addition to Denali Elementary School in Fairbanks. Plans with Alaska Architectural & Engineering Co., architects, 710 3rd Ave., Fairbanks. $25 deposit. Bid bond 2%. Completion time 150 calendar days.

One-story; 6,700 sq. ft.; wood, reinforced concrete frame; glued laminated beams, columns; concrete slab floors; wood partitions and windows; wood, asbestos-plastic, ceramic tile floor finish; acoustical ceilings; air conditioning from central heating plant.
SP 5-16. Previous report 5-2

●MILITARY BUILDINGS— **Fort Richardson, Alaska**

Bid opening extended from May 23 to 11 a. m., P.S.T., June 7, by Corps of Engineers, Alaska District, in the office of the Seattle Branch, J. P. Byrne, manager, 4735 E. Marginal Way, Seattle, for construction of military buildings at Fort Richardson; ENG-95-507-56-37.

Planholders: Isaacson Iron Works, Box 3625, Seattle; Lent's, Inc., 279 4th St., Bremerton; James S. Baker Co., 311 California, San Francisco; Schwabacher Hardware Co., 401 1st Ave. S., Seattle; Acme Millwork Co., Inc., Box 668, Kirkland; Urban Plumbing and Heating Co., 2904 S.W. 1st Ave., Portland, Ore.; Kuney-Johnson Co., 1266 Mercer, Seattle; City Electric of Anchorage, 2921 13th Ave. S.W., Seattle; Durant Insulated Pipe Co., Box 88, Palo Alto, Calif.; W. L. Reid Co., 3178 W. 87th, Portland; Holoday & Edworthy, Inc., 6240 S. Tacoma Way, Tacoma; The Coast Sash and Door Co., 1002 East F St., Tacoma; Northern Enterprises, 12556 Bothell Way, Seattle; Thorgaard Plumbing and Heating Co., 1109 N. 36th, Seattle; Grove, Shepherd, Wilson & Kruge, 120 6th Ave. S., Seattle; Fryer Knowles, 1718 Broadway, Seattle; J. B. Warrack Co., 400 2nd Ave. W., Seattle; Wenzler & Ward, Plumbing and Heating Co., 2109 Western Ave., Seattle; Square D Co., 830 Corwin Place, Seattle.
GW 5-11. Previous report 4-28

▲FACILITIES— **Homer, Alaska**

Low bids announced by Corps of Engineers, Alaska District, district engineer, D-E Bldg., Anchorage, for construction of White Alice and TACAN facilities at Homer; ENG-95-507-56-50. Schedule A: White Alice facilities. Schedule B: Tacan facilities. SCHEDULE A—LOW BID: E. M. Peterson Construction Co., Box 1116, Spenard, $788,900. ONLY OTHER BID: Chris Berg, Inc., 2730 Westlake Ave. N., Seattle, $843,000. Engineer's estimate $684,000. SCHEDULE B—LOW BID: Chris Berg, Inc., $41,000; E. M. Peterson, $57,902. Engineer's estimate, $24,804. Since both figures on Schedule B were so far above the engineer's estimate bids were rejected on this schedule. Bids were opened May 10 and held under advisement.
GW 5-15. Previous report 5-8

●PAINTING BUILDINGS— **Juneau, Alaska**

Bids to be opened 1 p. m., P.S.T., June 11, by Alaska Communication System, A. C. Muttart, contracting officer, U. S. Army Signal Corps, 4735 E. Marginal Way, Seattle, for repainting exterior of Alaska Communication System buildings Nos. 1, 3, and quarters No. 2, at Juneau; DA 45-041-sc-56-23. Plans with contracting officer at above address.
GW 5-11

SCHOOL ADDITION— **Juneau, Alaska**

Bids will be called early in June and opened late in June by Juneau-Douglas Independent School District, Juneau, for construction of a six-classroom addition to the Harborview Grade School, Juneau. Plans by Foss & Olsen, architects, Box 2331, Juneau. Structural engineers are Stevenson & Rubens, Olympic National Bldg., Seattle, Wash.; mechanical engineers, J. Donald Kroeker & Associates, 4504 S.W. Corbett, Portland, Ore.; electrical engineers, Grant Kelley & Co., 1008 S.W. 6th, Portland.

Project involves extension of existing second flor over existing first floor; 68'x 104'; 7,100 sq. ft.; poured concrete walls; steel beams; bar joist on steel frame with wood deck; concrete stairways; steel and insulated glass windows; 2" rock wool insulation in exterior walls. Finish construction involves concrete exterior wall; paint and Marlite interior; drywall partitions; asphalt and rubber tile; drywall, acoustical ceiling; wood doors and cabinets; blackboards and corkboards.
JU 5-11

▲POWER SYSTEM— **Juneau, Alaska**

Bids announced by Alaska Communication System, U. S. Army Signal Corps, A. G. Muttart, contracting officer, 4735 E. Marginal Way, Seattle, for modifications and additions to distribution system in the Alaska Communications Repeater Station in Juneau; DA-45-041-56-17. LOW BID: Alaska Electric Light and Power Co., Juneau, $3,206. ONLY OTHER BID: Wright & Hill, McKinley Bldg., Juneau, $3,610. Bids were opened May 14.
GW 5-16

●POST OFFICE BUILDING— **Kodiak, Alaska**

Bid opening extended from May 15 to 1 p. m., May 22, by Donnelly & Acheson, owners, for construction of a new post office and courthuose in Kodiak. Bids will be opened in the office of Robert Hugh Rose, architect, 5002 48th Ave. N.E., Seattle. Plans with architect.
GW 5-16. Previous report 5-2

●GARAGE, POWER HOUSE— **Naknek, Alaska**

Bids to be opened 11 a. m., June 12, by Alaska Road Commission, A. F. Ghiglione, director, room 319, Federal Bldg., Juneau, for constructing a garage and power house at Naknek. Plans with road commission, Box 1961, Juneau. No deposit. Guarantee 5%.

Two 28'x80' and 12'x20' wood frame buildings, steel roof girders, finished inside and out with plywood, concrete floors and insulated with glass wool. Work includes installation of equipment and drilling water well. Government will furnish all building materials except concrete aggregate. Completion 246 calendar days.
DM 5-16

●BUILDING ALTERATIONS— **Sitka, Alaska**

Bids will be opened 3 p. m., June 10, by General Services Administration, W. W. Southworth, Chief of Construction and Repair Division, room 126, Federal Office Bldg., 909 1st Ave., Seattle, for alterations to U. S. Post Office and Courthouse, Lincoln Ave., Sitka; Project No. CR-10-410.

Project includes interior and exterior painting, handrails, concrete work, roofing, flagpole, dorso, carpentry, heating, plumbing, electrical and certain other miscellaneous items.
GW 5-12

Advance news on contemplated construction projects that are not yet on the drawing boards; profitable leads on building and engineering jobs; the latest information on bid openings; contract awards for buildings, highway and street work, sewer and water works, reclamation jobs, throughout the Pacific Northwest and Alaska, will be found in these columns.

ENGINEERING NEWS

Washington, Oregon, Idaho, Montana, Wyoming, Utah, Alaska

- ● Bids Called
- ★ Contract Awards
- ▲ Low Bids—Bid Received
- ■ Planholders—Prospective Bidders

OREGON

★PUMPHOUSES— **Celilo, Ore.**

Award to Mid-State Construction Co., The Dalles, $20,512, by Corps of Engineers, Portland District, Colonel Jackson Graham, district engineer, 628 Pittock Block, Portland, for construction of pumphouses at Celilo, Ore.; CIVENG-35-026-56-173.
WB 5-11. Previousr report 4-28

★WATER MAINS— **Clatskanie, Ore.**

Award to Soule Construction Co., 2645 S.E. 111th, Portland, $25,177, by Department of Army, Seattle Army Terminal, Procurement Division, John A. Fountain, contracting officer, room 300, Building No. 1, Seattle Army Terminal, 1519 S. Alaskan Way, Seattle, for replacement of water distribution mains, Beaver Army Terminal, Clatskanie, Ore.; TC-45-045-56-57.
GW 5-11. Previous report 4-20

●WATER TREATMENT PLANT— **Corvallis, Ore.**

Bids will be opened June 14 by Douglas Taylor, water superintendent, City Hall, Corvallis, for the Corvallis Rock Creek water treatment plant, 10 miles west of Corvallis. Plans with Cornell, Howland, Hayes & Merryfield, consulting engineers, 1600 Western Ave., Corvallis. $20 deposit. Bid bond 5%. SP 5-15. Previous report 5-1

●STORM SEWER— **Corvallis, Ore.**

Bids to be opened 10 a. m., May 21, by city manager, City Hall, Corvallis, for construction of storm sewer No. 10 in Cornell, Starker, 9th and Grant streets. Project involves 4,600' of 8" to 18" culvert pipe. Specifications with city engineer. $12.50 deposit. Certified check, cashier's check or bid bond 5%.
DC 5-16

●INSTALL WATER PIPE— **Corvallis, Ore.**

Bids to be opened 11 a. m., June 1, by city manager, City Hall, Corvallis, for installing 20" and 12" mechanical joint cast iron water pipe in the downtown district. Specifications with the city engineer. $12.50 deposit. Certified check, cashier's check or bid bond 5%. Project involves trench excavation, installation of 365' of 20", 5,200' of 12" cast iron pipe and fittings. Materials to be furnished by city.
DC 5-16

▲CRUSHED ROCK— **Enterprise, Ore.**

Bids received May 10, by U. S. Forest

Service, Frank Walisch, regional supply officer, 729 N.E. Oregon St., P.O. Box 4137, Portland, for furnishing 9,600 c.y. of crushed rock on Crow Creek Road, approximately 37 mi. north of Enterprise. LOW BID: B. & B. Crushing Co., Springfield, Ore., (Item 1) $3.75 c.y.; (Item 2) $1.00 c.y. WB 5-15. Previousreport 4-27

★**CRUSHED ROCK—** **Estacada, Ore.**

Award to Estacada Sand & Gravel, Estacada, $9,625, by U.S. Forest Service, Frank Walisch, regional supply officer, 729 N.E. Oregon St., room 18, Portland, for stockpiling 3,500 c.y. crushed rock near Faraday Station, approximately 1.5 mi. up Clackamas River Road from Estacada. Bids opened May 8. WB 5-15. Previous report 5-3

●**FISHWAY—** **Estacada, Ore.**

Bids to be opened 10 a.m., June 12, by Oregon Fish Commission, M. T. Hoy, state fisheries director, 307 State Office Bldg., for construction of Middle Falls Eagle Creek Fishway, including a 20-pool reinforced concrete fishway and appurtenant work. Project located in Section 24, Township 3 South, Range 4 East, W.M., Clackamas County, approximately 10 miles northeast of Estacada, Ore. Plans with fish commission. $25 deposit. Certified check or bid bond 10%. WB 5-15

★**WATER SYSTEM—** **Eugene, Ore.**

Award to Tedrick & Quilliam Ditching Co., McMinnville, $65,513, by Santa Clara Water District, Emil A. Solberg, Jr., chairman, 2746 Ladarrah Ave., Eugene. Construction will start the last week in May. DW 5-16. Previous report 5-15

★**DIVERSION TUNNEL, DETOUR ROAD—** **Hills Creek Reservoir, Ore.**

Award to The Shea Co., 2801 W. Mission Road, Alhambra, Calif., $957,280, by Corps of Engineers, Portland District, Colonel Jackson Graham, district engineer, 628 Pittock Block, Portland, for construction of a diversion tunnel and Kitson Spring detour road, including a timber bridge, at Hills Creek Reservoir on the Middle Fork Willamette River, three miles southwest of Oakridge in Lane County; CIVENG-35-026-56-171. WB 5-11. Previous report 5-2

★**ASPHALTIC CONCRETE—La Grande, Ore.**

Award to H. J. and H. W. Miller, Baker, Ore., $33,360, by City Council, La Grande, for furnishing 4,667 tons asphaltic concrete. Bids opened May 9. SP 5-16. Previous report 4-28.

▲**STEEL WATER TANK—** **Madras, Ore.**

Bids received by Deschutes Valley Water District, W. S. MacRostle, manager, district office in Madras, for construction at ground level of a steel water tank of approximately 1,000,000 gal. capacity. LOW BIDS: Gunderson Bros. Engineering Corp., 4700 N.W. Front Ave., Portland, $40,200; American Pipe & Construction Co., 518 N.E. Columbia Blvd., Portland, $43,200, Pittsburgh-Des Moines Steel Co., 901 Lane, Seattle, $43,880. Bids opened May 7. SP 5-12. Previous report 4-21

ELECTRIC SYSTEM EXPANSION— **Newport, Ore.**

(Estimated cost $5,467,180)

Bond election will be held May 18 by Central Lincoln PUD, A. J. Naterlin, president, Newport, for proposed $2,925,000 revenue bond issue to help finance electrical expansion in the district during the next four years. Construction budget for fiscal years 1957-60 calls for following expenditures, by divisions: Newport Division (Depoe Bay, Newport, Toledo-Siletz, Waldport, Yachats), $2,045,770; Florence Division (Florence, Mapleton-Swisshome), $846,200; Reedsport Division (Reedsport-Gardiner-Winchester Bay, Lakeside, Hauser, Glasgow), $1,509,470; General Items (transformers, meters, tools and equipment), $1,065,750. DW 5-11

●**ASPHALTIC CONCRETE PAVING—** **North Bend, Ore.**

Bids to be opened 5 p.m., May 28, in the office of the city engineer, City Hall, North Bend, for furnishing materials and construction for the 1956 city street program. Project involves 3500 ton class B asphaltic concrete. Plans with city engineer. $10 deposit. Certified check 5%. DC 5-12

★**SITE EXCAVATION—** **Oregon City, Ore.**

Contract negotiated with F. H. Anderson, $780 for demolition, and $1.85 per c.y. for regular excavation, by Zion Lutheran Church, E. G. West, pastor, 8th and Jefferson Sts.; Oregon City, for excavation for new educational unit to be built adjacent to existing church. Award to Harold G. Lavelle, previously announced, was rescinded. Bid call for building to be issued in early June. Plans by Edmundson, Kochendoerfer & Kennedy, architects and engineers, 325 Henry Bldg., Portland. WB 5-11. Previous report 5-8

★**RESERVOIR CLEANUP—** **Portland, Ore.**

Award to David C. Oliver, Fall Creek, Ore., $19,500, by Corps of Engineers, Portland District, Colonel Jackson Graham, district engineer, 628 Pittock Block, Portland, for debris cleanup at Lookout Point Reservoir, Middle Fork Willamette River Basin in Ore.; CIVENG-35-026-56-193. WB 5-11. Previous report 4-26

★**STATE HIGHWAY PROJECTS—** **Portland, Ore.**

Awards announced by Oregon State Highway Commission, Portland, on highway construction projects on which bids opened April 27.

COQUILLE—Asphaltic concrete paving 0.29 mile Knott St. in Coquille, Coos County; a city project.

AWARD: J. C. Compton, Box 86, McMinnville, $14,466.

REEDSPORT—Asphaltic concrete paving 0.54 mile Winchester Ave. in Reedsport, Douglas County; a city project.

AWARD: United Contracting Co., Box 5075, Portland, $15,977. SP 5-11. Previous report 5-1

●**BRIDGE—** **Portland, Ore.**

Bids will be opened 10 a.m., May 23, by Bureau of Public Roads, F. E. Andrews, division engineer, 753 Morgan Bldg., Portland, for construction of a 73-foot treated timber bridge, Oregon Forest Development Road Project, South Fork Road, Roaring River Bridge, Willamette National Forest, Lane County, Ore.; FDR Willamette 163-C. Specifications with above office. Bid bond 5%.

Quantities: 40 c.y. structure excavation; 9 c.y. concrete; 1,400 lb. structural steel; 10.4 mfbm treated timber; 3 glued laminated treated stringers. SP 5-11

●**ANTENNA—** **Portland, Ore.**

Bids will be opened 2 p.m., June 11, by Corps of Engineers, Portland District, 628 Pittock Block, Portland, for furnishing and erecting a welded galvanized steel vertical radio antenna at the U.S. Moorings, 8010 N.W. St. Helens Road, Postland; CIVENG-35-026-56-218. Specifications with above office. Bid bond 20%. Completion time 60 calendar days.

Project includes antenna construction; galvanizing and painting; antenna foundation; guys, insulators and anchors. SP 5-12

▲**CLEARING, ROAD CONSTRUCTION—** **Portland, Ore.**

Bids opened May 9 by Bonneville Power Administration, L. C. Stewart, procurement officer, 1001 N.E. Lloyd Blvd., Portland, for clearing right-of-way and construction of access roads for the Alvey-Reston 230 KV transmission line, Drain Tap Point-Umpqua River Section, Lane and Douglas Counties, Ore.; Inv. No. 7958. LOW BIDS: Murray Bros., Bend, $209,160; The Helmick Co., Box 6128, Seattle, $229,997; Trusty & Paris, Roseburg, $249,302. WB 5-11. Previous report 5-4

★**STATE HIGHWAY PROJECTS—** **Portland, Ore.**

Award announced by Oregon State Highway Commission on highway projects on which bids were opened in Portland April 27.

ROCK CREEK AND BEAVERTON CREEK BRIDGES—Construct a 125' and a 150' timber and reinforced concrete bridge over Beaverton Creek; a 75' timber and reinforced concrete bridge over Rock Creek on Base Line Road near Hillsboro, Washington County; FAP No. S-310(1). Span arrangement on all bridges is 25' precast beam spans on six pile treated timber bents.

AWARD: Johnston & Bryant, 803 E. 6th, Newberg, $60,432. SP 5-11. Previous report 5-1

●**STREET IMPROVEMENTS—** **Portland, Ore.**

Bids to be opened 10:30 a.m., May 22, by Multnomah County Board of Commissioners, John W. West, purchasing agent, room 504, Court House, Portland, for grading, constructing rock base and surfacing with bituminous macadam, penetration type, of N.E. Failing St. from 57th to 62nd Ave. Plans with roadmaster, Paul Northrup, 2115 S.E. Morrison St., Portland. $2 charge. Certified check or bid bond 10%. WB 5-12

▲**DEBRIS CLEAN-UP, CLEARING—** **Portland, Ore.**

Bids received May 10, by Corps of Engineers, Portland District Engineer, Colonel Jackson Graham, district engineer, 628 Pittock Block, Portland, for debris cleanup at Detroit Reservoir and clearing at Big Cliff Reservoir on the North Santiam River, Ore.; CIVENG-35-026-56-205. LOW BIDS: Stevens & Steel, Box 92, Gates, Ore., $35,508; D. R. DeVaney Co., 7814 S.E. Grant St., Portland, $40,324; Mac Slate, Jr., 632 Washington St., Albany, $43,890. Engineer's estimate, $41,000. WB 5-12. Previous report 5-3

▲**SUBSTATION ALTERATIONS—** **Portland, Ore.**

Bids received May 10, by Bonneville Power Administration, L. C. Stewart, procurement officer, 1001 N.E. Lloyd Blvd., Portland, for dismantling of Hungry Horse substation, approximately 10 mi. southeast of Columbia Falls, Mont., transporting salvaged equipment and materials and constructnig Ledbeder substation, approximately 13 mi. west of Kennewick, Wash.; Inv. No. 7980. LOW BIDS: Barnes Electric Co., Inc., 1105 N. Alberta St., Portland, $17,635; H. B. Nesheim Construction Co., 6714 36th Ave. S.W., Seattle, $20,232; Casey Electric Co., 209 Bell St. Dock, Seattle, $24,811. WB 5-12. Previous report 4-24

▲**VIADUCT—** **Portland, Ore.**

Bids received May 8 by Oregon State Board of Higher Education, University of Oregon Medical School, A. J. Clemons, superintendent of physical plant, room 117, Administration Bldg., 3181 S.W. Sam Jackson Park Road, for construction of half viaduct at the school. LOW BID: Hannan Bros., 3525 N.E. Going St., Portland, $32,335. ONLY OTHER BID: H. A. Starr, 2425 N. Commercial St., Portland, approximately $44,000. WB 5-12. Previous report 4-17

●**BUS, SWITCH INSULATORS—** **Portland, Ore.**

Bids will be opened 10 a.m., May 23, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for furnishing and delivering, fob. Eavan Spur, Vancouver, Wash., 1,400 bus and switch insulators; Inv. No. 7998. Specifications with above office. Completion time 20 calendar days. SP 5-15

■**TRANSMISSION LINE—** **Portland, Ore.**

Planholders announced for construction of the McNary-Franklin 230 kv transmission line No. 2 and of permanent river crossing connections at McNary for McNary-Big Eddy 287 kv transmission line, Umatilla County, Ore., and Benton and Franklin Counties, Wash.; Inv. No. 7992. Bids to be opened 3 p.m., May 22, by Bonneville Power Administration, L. C. Stewart, procurement officer, 1001 N.E. Lloyd Blvd., Portland.

Planholders: Parker-Schram Co., 201 Builders Exchange Bldg., Portland; John L. Nichols Construction Co., P.O. Box 336, Grandview, Wash.; Power City Electric Co., N. 920 Howard St., Spokane; Duke's Electric, Inc., Bldg. 35, Pasco Airport, Pasco; Midland Constructors, Inc., 14145 E. Garvey, Baldwin

Park, Calif. (K. G. Wills, 3401 S.E. Risley, Portland); John M. King Co., 1601 Taylor Way, Tacoma; F. E. Wilder, Route 11, Box 147, Olympia; W. L. Ridge, E. 3122 Sharp Ave., Spokane. WB 5-15. Previous report 5-4

■ **TRANSMISSION LINE— Portland, Ore.**

Planholders announced for construction of Schedule 1, Big Eddy-Oregon City 287 kv. transmission line, Wasco and Hood River Counties; Inv. No. 7971. Bids will be opened 2 p.m., May 21, by Bonneville Power Administration, procurement officer, 1001 N.E. Lloyd Blvd., Portland. $25 deposit.

Planholders: W. L. Ridge, E. 3122 Sharp Ave., Spokane; Smith Bros., P.O. Box 96, Vancouver, (Neil B. Cleghorn, 720 S. Bernard, Apt. 31, Spokane); F. E. Wilder, Route 11, Box 147, Olympia; Montgomery Electric Co., 2375 N.W. Thurman St., Portland; Parker-Schram Co., 201 Builders Exchange Bldg., Portland; John M. King Co., 1601 Taylor Way, Tacoma; Pettijohn Engineering Co., 4145 N.E. Cully Blvd., Portland; Midland Constructors, Inc., 14145 E. Garvey, Baldwin Park, Calif. (K. G. Wills, 3401 S.E. Risley, Portland).

WB 5-15. Previous report 4-26

★**INSTRUMENT TRANSFORMERS Portland, Ore.**

Awards to Legnano Electric Corp., New York, N.Y., (Items 2 and 3) $13,644; American Elin Corp., New York, (Item 6) $4,710, by Bonneville Power Administration, L. C. Stewart, procurement officer, 1001 N.E. Lloyd Blvd., Portland, for instrument transformers; Inv. No. 7944. Item 5 cancelled; awards on Items 1 and 4 pending.

WB 5-15. Previous report 4-26

■ **APRON EXTENSION AND TAXIWAY— Portland, Ore.**

Planholders announced for the construction of apron extension and taxiway, Air National Guard Facilities, Portland International Airport, Portland; ENG-45-108-56-172. Bids will be opened 2 p.m., P.S.T., May 21, by Corps of Engineers, Seattle District, Colonel N. A. Matthias, district engineer, 4735 E. Marginal Way, Seattle. Plans with Seattle district engineer, at above address. Bid bond 20%.

Planholders: Morrison-Knudsen Co., Inc., 603 Hoge Bldg., Seattle; Charles R. Watts & Co., 4121 6th Ave. N.W., Seattle; Butler Construction Co., 317 Builders Exchange Bldg., Portland; Cable Construction Co., 1512 Center, Tacoma; J. N. Conley, 4332 N.E. Royal Court, Portland; Donald M. Drake Co., 1600 N.W. Savier, Portland; Erland & Bickle, Box 1945, Portland; R. A. Heintz Construction Co., 211 N.E. Columbia Blvd., Portland; Natt McDougall Co., 824 Pittock Block, Portland; Parker-Schram Co., 200 Builders Exchange Bldg., Portland; Q. L. Rufener, Inc., 4729 S.E. Ash, Portland; Fred H. Slate Co., Ore. Inc., 7805 S.W. 40th, Portland; Walter W. Sprague Co., Box 117, Lynnwood; Warren Northwest, Inc., Box 5072, Portland. GW 5-15. Previous report 4-26

● **RETAINING WALL— Portland, Ore.**

Bids to be opened 2 p.m., May 29, by city purchasing agent, L. W. Rayner, room 208, City Hall, Portland, for construction of retaining wall opposite 3804 N. Melrose Drive. Includes earth excavation, relocation of manhole and sewer line, construction of prefabricated bin type retaining wall, reconstruct curb and street area and installation of steel beam type guard railing. Certified check or bid bond 10%. WB 5-15

● **POLE LINE HARDWARE— Portland, Ore.**

Bids will be opened 3 p.m., May 31, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for furnishing and delivering pole line hardware; Inv. No. 8001. Specifications with above office. SP 5-15

★**TRANSMISSION LINES— Portland, Ore.**

Additional award to John L. Nichols Construction Co., P.O. Box 336, Grandview, Wash., (Schedule 3) $4,114, by Bonneville Power Administration, L. C. Stewart, procurement officer, 1001 N.E. Lloyd Blvd., Portland, for construction of the Sandy-Oreg noCity section of the Big Eddy-Troutdale 287 TV transmission line and installation of tower signs on the Big-EddyOregon City 287 KV transmission line; Inv. No. 7946. WB 5-15. Previous report 5-10

● **TOWER STEEL— Portland, Ore.**

Bids will be opened 2 p.m., June 4, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for furnishing and delivering tower steel; Inv. No. 7991. Specifications with above office. SC 5-15

★**STREET IMPROVEMENTS— Portland, Ore.**

Award to Cascade Construction Co., Foot of S.W. Abernathy, Portland, $11,278, by city auditor, Will Gibson, City Hall, Portland, for improvement of S.E. Main St.

WB 5-15. Previous report 4-28

★**STEEL POLES Portland, Ore.**

Award to General Electric Supply Co., 300 N.W. 14th Ave., Portland, $10,033, by city purchasing agent, L. W. Rayner, room 208, City Hall, Portland, for eight floodlight steel poles for Lent Park.

WB 5-15. Previous report 5-4

★**SEWERS— Portland, Ore.**

Award to Mitchell B. Saloum, 3322 S.E. 68th Ave., Portland, $7,016, by city auditor, Will Gibson, City Hall, Portland, for sewer in S.W. Custer St.

WB 5-15. Previous report 4-21

▲**POLES— Portland, Ore.**

Bids received May 7, by Bonneville Power Administration, L. C. Stewart, procurement officer, 1001 N.E. Lloyd Blvd., Portland, for furnishing poles; Inv. No. 7974. BIDDERS: Pope & Talbot, Inc., 3070 N.W. Front Ave., Portland, (fob. destination) $161,598; (fob. shipping point) no bid; J. Neils Lumber Co., Libbey, Mont., $189,793, $145,619; J. H. Baxter & Co., Pittock Block, Portland, $163,503; no bid. Additional incomplete bids received. WB 5-15

● **TRANSMISSION LINE EASEMENTS— Portland, Ore.**

Bids will be opened 10 a.m., May 22, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for transmission line right-of-way easements over tracts of land in Kitsap County, Wash.; Sale No. 276. Specifications with above office. Bid bond 25%. SP 5-15

● **SUBSTATION LUMINAIRES— Portland, Ore.**

Bids will be opened 2 p.m., May 28, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for furnishing and delivering, fob. Eavan Spur, Vancouver, Wash., 100 substation outdoor, post mount, 300-500 symmetric, luminaires; Inv. No. 7999. Specifications with above office. Completion time 50 calendar days. SP 5-15

● **ELECTRICAL, MECHANICAL WORK— Portland, Ore.**

Bids will be opened 2 p.m., May 31, by Corps of Engineers, Portland District, Colonel Jackson Graham, district engineer, 628 Pittock Block, Portland, for miscellaneous mechanical and electrical work at Lookout Point and Dexter Dam on the Middle Fork Willamette River, Ore.; CIVENG-35-026-52-222. Specifications with above office. Completion time 120 calendar days.

Project includes the following—LOOKOUT POINT: work on a sump pump discharge pipe and centrifugal pumps; modification to four removable bulkheads; modification of bridge crane controls. DEXTER: work on pressure switch and piping; work on lifting beam supports; ladders and access platforms for a 100-ton traveling bridge crane. SP 5-15

● **BUS PIPE— Portland, Ore.**

Bids will be opened 11 a.m., May 21, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for furnishing and delivering 20,000' of 3", 7000' of 2½" and 6,000' of 1½" aluminum bus pipe, fob. Eavan Spur, Vancouver, Wash.; Inv. No. 8000. Specifications with above office. SP 5-15

▲**TRANSMISSION LINE— Portland, Ore.**

Bids received May 11, by Bonneville Power Administration, L. C. Stewart, procurement officer, 1001 N.E. Lloyd Blvd., Portland, for construction of St. Johns-Keeler section, and completion of clearing and construction of the Ross-St. Johns No. 2 section of Ross-Keeler 230 kv. No. 1 transmission line, and construction of Keller substation 115 kv. tie line. LOW BIDS: Pettijohn Engineering Co., 4145 N.E. Cully Blvd., Portland, $158,972; Parker-Schram Co., 201 Builders Exchange Bldg., Portland, $166,263; F. E. Wilder, Route 11, Box 147, Olympia, $197,771.

WB 5-15. Previous report 4-27

★**GRADING, BITUMINOUS SURFACING— Portland, Ore.**

Award by Bureau of Public Roads, F. E. Andrews, division engineer, 753 Morgan Bldg., Portland, for 8.619 mile grading and bituminous surfacing on John Day-Burns Highway, Malheur National Forest, Harney County, Ore.; Oregon Forest Highway Project 35-B5, G3. AWARD: Rogers Construction Co., 11760 N.E. Glisan St., $454,084. 2ND LOW: Babler Bros., Inc., 4617 S.E. Milwaukie Ave., $483,350. 3RD LOW: J. N. Conley, 4332 N.E. Royal Court, $491,684. Bidders of Portland. Bids opened May 11.

WB 5-15. Previous report 5-3

★**SITE PREPARATION— Port Orford, Ore.**

Award by School District No. 1J, Curry County, Mrs. Helen Slocum, clerk, High School, Port Orford, Ore., for rough grading of site for new high school at Port Orford. Plans by Freeman, Hayslip, Tuft & Hewlett, 2040 S.W. 3rd Ave., Portland. AWARD: Lee Mortenson, N.E. 630 Polk St., Roseburg, $13,100. 2ND LOW: M. L. O'Neil & Son, 375 Horn Lane, Eugene, $14,581; A. T. Fox, P.O. Box 831, North Bend, $26,770.

WB 5-15. Previous report 4-25

● **ELECTRICAL WORK— Salem, Ore.**

Bids to be opened 2:30 p.m., May 23, by Oregon National Guard Bureau, Colonel William H. Adams, contracting officer, 504 State Office Bldg., Salem, for renovation of electrical distribution system at Camp Withycombe, Clackamas, and at Camp Clatsop, Warrenton. Projects will be bid separately. Plans may be obtained at above office without deposit. DC 5-12

★**ACCESS ROAD— West Linn, Ore.**

Award to F. H. Anderson, Oregon City, $750, by city recorder, Andy Harila, City Hall, West Linn, for access road from Charles Salomo Road to Willamette Reservoir. Bids opened May 9.

WB 5-15. Previous report 5-1

WASHINGTON

★**WATER DISTRIBUTION SYSTEM— Alderwood Manor, Wash.**

Awards by Alderwood Manor Water District, C. P. Ballard, secretary, Water District Office, Alderwood Manor, for construction of a water distribution system in LID No. 68 and water system improvements in Shasta Park in Alderwood Manor. Plans by Lester Erickson, district engineer, at the district office. AWARD—LID No. 68: Lario Libri, 3556 Morgan, Seattle, $5,820. OTHER LOW BIDS: Frank M. Taylor, 2317 Minor N., Seattle, $5,988; Oil Equipment Service, Inc., 4044 E. 109th, Seattle, $6,141. Engineer's estimate, $5,664. AWARD—Shasta Park: Lario Libri, $23,061; Mallory & Compton, 13751 Aurora, Seattle, $25,119; Frank M. Taylor, $27,607. Engineer's estimate, $22,820. Bids were opened May 14.

GW 5-16. Previous report 5-10

★**WATER DISTRIBUTION SYSTEM— American Lake, Wash.**

Award by Veterans Administration Director, Design Service, Veterans Administration, Munitions Bldg., Washington, D.C., for improvements to the water distribution system for automatic sprinkler system in the Veterans Administration Hospital at American Lake; Project No. 46-5115; Spec.

No. 5616. AWARD: Paine & Gallucci, Inc., 1521 S. Grant Ave., Tacoma, $5,775. Bids were opened and held under advisement April 24. GW 5-16. Previous report 3-24

★**PUMPS, MOTOR— Anacortes, Wash.**

Awards by City Council, Anacortes, for furnishing 8" gasoline engine drive, portable, centrifugal pump; 2,800-gpm vertical turbine pump for use in city water system. AWARDS—Pump for Ranney Well: Fairbanks, Morse Co., 668 Lane, $9,900. Control Panel for Pumps: Star Machinery Co., 241 Lander, $4,100. Gas Pump Auxiliary: Feenaughty Machinery Co., Inc., 1028 6th S., $2,826. All of Seattle.
JD 5-11. Previous report 4-21

●**WATER MAIN— Bellevue, Wash.**

Bids will be opened 8 p.m., May 23, by King County Water District No. 97, J. P. Lally, secretary, Water District Office, 14212 Eastgae Hills Blvd., Bellevue, for water main. Plans with Howard T. Harstad & Associates, consulting engineers, 1000 Lenora, Seattle. $10 deposit. Certified check 5%.

Furnish and install approximately 900' of 12" steel feeder main supported on timber pile bents. GW 5-16

ROAD IMPROVEMENTS— Bremerton, Wash.

(Estimated cost $97,000)

Bids will be called soon by Kitsap County Commissioners, Courthouse, Bremerton, for widening and straightening a mile of Beach Road on the south side of Sinclair Inlet, from Lindstrom's near Annapolis toward Waterman in Bremerton. Work also includes replacement of the Glen Echo Bridge and placing 50,000 yd. riprap along shore side of the road. SC 5-11

▲**SEWER SYSTEM— Bremerton, Wash.**

Bids received May 10 by 13th Naval Districa, Bureau of Yards and Docks, Rear Admiral R. H. Meade, chief of bureau, room 100, Building 232, U.S. Naval Station, Seattle, for interceptor sewer system at Puget Sound Naval Shipyard, Bremerton; NOy-90545; Spec. No. 48224. LOW BIDS: Thorn & Marble Co., 4225 23rd Ave. W., Seattle, $637,298; Harbor Construction Co., 309 1st Ave. W., Seattle, $640,000; Odegard Construction Co., 2110 37th Ave., Everett, $752,807.
GW 5-11. Previous report 5-2

●**FERRY LANDING FACILITIES, ACCESS ROAD— Camp Hanford, Wash.**

Bids will be opened 2 p.m., P.S.T., June 12, by Corps of Engineers, Walla Walla District, 602 City-County Airport, Walla Walla, for construction of ferry landing facilities and access roads at Camp Hanford, Wash.; ENG-45-164-56-38. Plans with district engineer, Walla Walla. Bid bond 20%. Bids will be accepted on Schedule A, access roads and parking area; Schedule B, ferry ramps; or Schedule C, a combination of Schedules A and B.

Quantities—Schedule A: roads and parking area; clearing; 17,700 c.y. excavation; 8,750 c.y. embankment; 5,800 sq. yd. scarifying existing pavement; 8,700 c.y. base course; 4,500 c.y. leveling course; 46 ton prime coat, MC-0 or MC-1; 100 ton asphalt cement, MC-5; 820 ton coarse aggregate; 330 ton fine aggregate; 2,350' guard rail; 350' sand fence. Schedule B: Ferry ramps; cofferdam; 23,400 c.y. excavation; 170 c.y. sand filter; 350 c.y. gravel base; 540 c.y. concrete; 1,400 c.y. pit-run gravel; 4,200 c.y. riprap; 2 landing platforms. GW 5-15

★**REVETMENT ROCK— Clark County, Wash.**

Award to General Construction Co., 4850 N.W. Front Ave., Portland, $7,392, by Bonneville Power Administration, L. C. Stewart, procurement officer, 1001 N.E. Lloyd Blvd., Portland, Ore., for rock reventment for foundation near Beacon Rock, Clark County, Wash.; Inv. No. 7953.
WB 5-15. Previous report 4-5

★**TRASHRACK RAKES— Dallesdam, Wash.**

Award to Weldcraft Steel & Marine Co., Inc., No. 9, Squalicum Fill, Bellingham, $23,059, by Corps of Engineers, Portland District, Colonel Jackson Graham, district engineer, 628 Pittock Block, Portland, for the manufacture, shop assembly, shop testing painting and delivery of five trashrack rakes for Dallesdam, Wash.; CIVENG-35-026-56-167.
WB 5-11. Previous report 4-28

★**ROAD IMPROVEMENTS— Davenport, Wash.**

Award announced by Board of Lincoln County Commissioners, Charles A. Ramm, clerk, County Courthouse, Davenport, for construction of surface treatment and non-skid single seal on Lincoln County roads; CRP G-425. AWARD: Standard Asphalt Paving Co., N. 119 Post St., Spokane, $70,662. 2ND LOW: Lone Pine Paving, Inc., Box 1441, Yakima, $73,034. 3RD LOW: N. G. Johanson, 1828 E. Trent Ave., Spokane, $73,851. Bids opened May 8.
SP 5-12. Previous report 4-14

★**WATER MAINS— Edmonds, Wash.**

Awards announced by City Council, City Hall Edmonds, for furnishing and delivering water mains materials fob., Edmonds. AWARDS—CAST IRON WATER MAIN: U. S. Pipe & Foundry Co., Colman Bldg., Seattle, $5,116. FITTINGS: Western Utility Supply Co., 5409 Ohio, Seattle, $1,480. FIRE HYDRANTS: E. N. Hallgren Co., 1252 1st Ave. S., Seattle, $2,172.
HH 5-11. Previous report 5-3

★**SEWER, WATER LINES—Edmonds, Wash.**

Award to Thorburn & Logozo Co., 4608 36th S.W., Seattle, $16,900, by City Council, City Hall, Edmonds, for installation of sewer and waterlines for platt of Robert E. Thomas No. 16. HH 5-11. Previous report 5-3

▲**FENCING, WALLS, PAVING— Enumclaw, Wash.**

Bids received May 14 by King County commissioners, W. S. Carroll, county purchasing agent, room 606, County-City Bldg., Seattle, for installation of chain link fencing, construction of walls and paving around the swimming pool at King County Park, located 1½ mi. east of Enumclaw on the Naches Pass Highway. Plans by Donald Winslow, landscape architect, 615 Lakeview Blvd., Seattle. LOW BID: Colorado Fuel and Iron Corp., Pacific Coast Division, 3434 2nd Ave. S., Seattle, $4,110. ONLY OTHER BID: Hansen Bros., 2134 Wells St., Enumclaw, $7,343. GW 5-15. Previous report 5-9

★**SEWAGE TREATMENT PLANT, LAGOON— Ephrata, Wash.**

Awards announced by City Council, City Hall, Ephrata, for construction of a sewage treatment plant and sewage lagoons at Ephrata. AWARDS—SCHEDULE 1: Ruud Construction Co., Realty Bldg., Spokane, $205,455. SCHEDULE 2: Murphy Bros., Inc., E. 3728 Broadway, Spokane, $29,682. SCHEDULE 3: Bruce Allen Electric, "A" S.E., Ephrata, $16,519.
IG 5-11. Previous report 4-21

▲**STEEL BARS— Ephrata, Wash.**

Bids rejected by Bureau of Reclamation, Box 368, Ephrata, for the purchase and removal of an estimated 138 tons of reinforcing steel bars from ½" to 1½", round and square, various lengths and grades, all located at Coulee Dam, Wash. A Columbia River Basin Project. Bids will be readvertised.
SP 5-12. Previous report 4-14

●**EARTHWORK, STRUCTURES— Ephrata, Wash.**

Bids to be opened June 14 by Bureau of Reclamation, Box 368, Ephrata, for earthwork, and structures of E168D wasteway drainage system, East Low Canal Wasteways, Columbia Basin Project, Wash., near Othello; Spec. No. DC-4696. Plans with above office.

Quantities: 117,300 c.y. compacting embankments; 7,100 c.y. riprap, rock backfill; 1,140 c.y. concrete. DM 5-12

●**PUMPING PLANT, LATERAL— Ephrata, Wash.**

Bids to be opened 10 a.m., June 19, by Bureau of Reclamation, Box 368, Ephrata, for construction of Frenchman Springs pumping plant, approach lateral W53.1 and discharge lines, Block 79, Columbia Basin Project, near Quincy, Wash.; Spec. No. DC-4698. Plans with reclamation offices in Ephrata, Box 937 in Boise, Idaho, or Bldg. 53, Denver, Colo.

Quantities: 130,100 c.y. excavation; 1,730 c.y. concrete; 5,360' concrete pipe; 90,000 lb. steel for plant superstructure; 53,200 lb. steel discharge pipes, drains; 8 main motor driven, horizontal centrifugal type pumping units. Completion 520 days. DC 5-16

●**GOLF COURSE MODIFICATION— Everett, Wash.**

Bids will be opened 8 p.m., May 21, by School District No. 2, Oscar Johnson, secretary of the board, at the school office, Civic Auditorium, Everett, for modification of Legion Park Golf Course, involving installation of greens, a fairway, drain system and sewer line, in Everett. Specifications with Harold W. Hall, architect, 402 Commerce Bldg., Everett. SC 5-16

▲**HANNA LAKE OUTLET CHANNEL— Fort Lewis, Wash.**

Bids received May 14 by Corps of Engineers, Seattle District, district engineer, 4735 E. Marginal Way, Seattle, for Hanna Lake outlet Channel at Fort Lewis; ENG-45-108-56-168. Completion time 150 calendar days. LOW BIDS: Kendall Construction Co., 3211 Center, Tacoma, $181,425 (total); $185,487 (total with additive item of fish screen structures); Woodworth & Co., Inc., 1200 East D St., Tacoma, $197,166, $202,166; General Construction Co., 3840 Iowa, Seattle, $233,896, $239,496. Engineer's estimate, $171,-634, $175,544. GW 5-16. Previous report 5-8

■**ELECTRICAL REPAIR— Geiger Field, Wash.**

Planholders announced for repairing electrical distribution system at Geiger Field, Spokane; IFB 45-614-56-73. Bids will be opened 2 p.m., May 29, by U.S. Air Force, C. S. Phelps, procurement officer, Geiger Field.

Planholders: R. C. Hughes, N. 2105 Airport Way; D. G. Quinton Co., N. 1413 Division St.; Power City Electric Co., N. 920 Howard St.; Mott Electric Co., E. 3915 Trent Ave.; Frost Electric Co., N. 2115 Division St.; Spokane Electric Co., E. 601 Trent Ave.; John's Electric Co., N. 1423 Monroe St.; W. R. Hollenbeck, E. 4513 6th Ave.; Electric Smith, Inc., E. 123 Sprague Ave. All of Spokane. CE 5-11. Previous report 5-5

●**WATER MAINS— Kenmore, Wash.**

Bids will be opened 8 p.m., June 6, by King County Water District No. 79, George L. Millman, secretary, 18120 68th Ave. N.E., Kenmore, for construction of 3,800' of 6" water distribution mains. Plans by G. T. Sparrow & Associates, consulting engineers, 2220 82nd S.E., Mercer Island. Plans obtainable from the water district office. $15 deposit. Certified check 5%. GW 5-16

▲**WATER SYSTEM— Kenmore, Wash.**

Bids received May 14 by King County Water District No. 79, George L. Millman, secretary, 18120 68th Ave. N.E., Kenmore, for construction of a water system for ULID No. 7 in Kenmore. Plans by G. T. Sparrow & Associates, consulting engineers, 2220 82nd Ave. S.E., Mercer Island. LOW BIDS—Contract No. 1, Steel Pipeline: Frank M. Taylor, 2317 Minor N., $66,798; Frank Coluccio, 7778 Seward Park Ave., $68,680; Argentieri & Colarossi, 1815 Jackson, $69,670. Contract 2, Pump Station: Lario Libri, 3556 Morgan, $9,000; Washington Development Co., 1524 Ballard Way, $9,425; Columbia Builders, Inc., 4225 23rd Ave. W., $9,541. Contract 3, 100,000-gallon Elevated Storage Tank: R. O. Rolla, 3408 Cashmere Place, $22,936. ONLY OTHER BID: Federal Pipe and Tank Co., 6851 E. Marginal Way, $32,297. All bidders of Seattle.
GW 5-16. Previous report 5-3

★**SEWERAGE SYSTEM—Long Beach, Wash.**

Award to Lord Bros., 9233 N. Calvert Ave., Portland, $256,864, by Town Council, Florence L. Rine, clerk, Town Hall, Long Beach, for sewers and sewage plant.
WB 5-16. Previous report 5-3

▲SUBSTATION ADDITIONS— Long Beach, Wash.

Bids received May 14 by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for construction of 15,000 kv. substation on Olson Road about three miles northeast of Long Beach; Inv. No. 7970. LOW BIDS: Western Electrical Construction Co., 1639 N.W. Raleigh St., Portland, $17,187; Olson Electric Co., 710 W. 8th St., Vancouver, $18,802; H. B. Nesheim, 6714 36th Ave. S.W., Seattle, $19,210. WB 5-16

★STREET, CURB REPAIRS— Longview, Wash.

Awards by City Council, City Hall, Longview, on street, curb, gutter construction. AWARDS—Twin City Concrete Service, 1005 Michigan, Longview, $14,039 (19th Ave.); Westco of Longview, 618 14th, Longview, $3,148 (alley paving); Harold Olds, 3111 N. 24th, Tacoma, $2,691 (6" water line), $2,459 (8" water line). DC 5-12

●DRAIN SEWER— Mountlake Terrace, Wash.

(Estimated cost $6,000)

Bids will be opened 8 p.m., May 21, by Evan L. Peterson, city manager, City Hall, Mountlake Terrace, for construction of drain sewer on 54th Ave. W. in Mountlake Terrace. Specifications with city engineer, City Hall, Mountlake Terrace. HH 5-12

WATER SUPPLY— Mount Vernon, Wash.

(Estimated cost $65,000)

Plans announced by Skagit County PUD, Fred Ovenell, manager, Mount Vernon, for a local improvement district for water supply for residents of Similk Beach on Fidalgo Island. Source of water supply will be wells located two miles north of Similk area and will be constructed upon completion of assessment rolls and public hearing. Contract to be awarded approximately July 1. JD 5-11

●FUEL STORAGE, DOCK REPAIRS— Mukilteo, Wash.

Bids will be opened 3 p.m., May 25, by Department of Air Force, Directorate of Procurement, Hill AFB., near Salt Lake City, Utah, for fuel storage, dock repairs and other work, including repairing piles, timbers and cleats, at Mukilteo, Wash.; INV. No. 42-600-56-384. Plans and specifications with above. GW 5-15

★STATE HIGHWAY PROJECTS— Olympia, Wash.

Five awards, one rejection and one project held for consideration by Washington State Highway Commission, W. A. Bugge, director, Olympia, for highway construction on which bids were opened May 8.

GOLDENDALE NORTH—Clearing, draining, grading, constructing cement treated base, paving with asphaltic concrete, stockpiling ballast, crushed stone surfacing, maintenance rock, crushed cover stone and mineral aggregates, and constructing reinforced concrete T-beam bridge on 4.101 mile PSH No. 8, Klickitat County; FAP No. F-014-3(3).

AWARD: Goodfellow Bros., Inc., Box 1337, Wenatchee, $704,099.

PULLMAN - BUSBY ROAD — Draining, grading, crushed stone surfacing on 2.321 mile Whitman County road; FAS No. S-0669(1).

Bids rejected.

AUSTIN CREEK BRIDGE — Reinforced concrete slab bridge on 0.011 mile Whatcom County road; FAS No. S-0766(3).

Held for consideration.

LOW BIDS: C. B. Croy, 2502 Lakeway Drive, $14,057; Gorem Construction Co., 506 14th St., Bellingham, $15,374; American Pile Driving Co., Pier 2, Everett, $16,282.

WASHOUGAL AND CAPE HORN VICINITY—Draining, grading, asphaltic concrete paving on 4.931 mile PSH No. 8, Clark and Skamania counties; a state project.

AWARD: United Contractors Co., Box 5075, Portland, $90,555.

CRAB CREEK TO JCT SSH No. 2-G—Reconstructing roadway ditch and surfacing with light bituminous surface treatment on 7.52 mile SSH No. 11-F, Lincoln County; a state project.

AWARD: D. A. Sullivan, Spokane, $104,996.

INTERSTATE BRIDGE TO THURSTON COUNTY LINE—Light bituminous surface treatment and non-skid single seal treatment on 83.733 mile PSH No. 1, Clark, Cowlitz, Lewis counties; a state project.

AWARD: Doolittle Construction Co., 510 Adams St., Seattle, $147,548.

CONWAY VICINITY — Stockpiling maintenance rock, sand, mineral aggregates on State Highways Nos. 1, 1-A, 1-H, Skagit County; a state project.

AWARD: Wilder Construction, Inc., 1840 State St., Bellingham, $42,162.

DE 5-11. Previous report 5-9

▲STATE HIGHWAY PROJECTS— Olympia, Wash.

Bids received by Washington State Highway Commission, W. A. Bugge, director, Olympia, on highway construction on which bids opened May 15.

PATTERSON TO PLYMOUTH, Unit 1 — Clearing, draining, grading, surfacing with light bituminous surfacing treatment on 7.908 mile PSH No. 8, Benton County; FAP No. F-047-2(2) Unit 1 and State Project.

LOW BIDS: K. C. Dack Construction Co., Box 35, Milton-Freewater, Ore., $262,719; F. R. Hewett Construction Co., E. 5916 Baldwin, Spokane, $278,110; Ray Weist, Contractor, Box 191, Yakima, $284,330.

REGAL STREET TO CUSTER STREET ON 3RD AVENUE—Clearing, draining, grading, type I-1 asphaltic concrete paving on 1.255 mile PSH No. 2, Spokane County; FAP No. IN-022-6(22).

LOW BIDS: Inland Asphalt Co., Box 4116, Spokane, $111,272; United Paving Co., Route 1, Box 198, Spokane, $122,483.

KAPOWSIN HIGHWAY-PUYALLUP RIVER TO CARD ROAD—Clearing, draining, grading, surfacing and paving with type I-1 asphaltic concrete in 1.913 mile Pierce County road; FAS No. S-0240(7).

LOW BIDS: Asphalt Paving & Engineering Co., Box 356, Tacoma, $95,851; Woodward & Co., 1200 E. "D" St., Tacoma, $102,475.

LITTLE KALAMA RIVER ROAD—Clearing, draining, grading, surfacing with crushed stone 2.202 mile Cowlitz County road; FAS No. S-0712(1).

LOW BIDS: Archie Radakovich, 1203 S. 4th, Kelso, $99,684; Lakeside Bulldozing Co., General Delivery, Moses Lake, $110,472.

SHAVER BRIDGE — Reinforced concrete girder bridge on 0.030 mile Lewis County road; FAS No. S-1044(2).

LOW BIDS: Pakar Construction Co., Box 447, Chehalis, $39,860; Troy Burnham Co., 18666 Beverly Road, Seattle, $41,808; Owens Bros., Railroad and Oak, Port Angeles, $44,560.

BURNT BRIDGE CREEK TO EAST FORK LEWIS RIVER—Surfacing with light bituminous surface treatment, paving with type I-1 asphaltic concrete on 7.54 mile SH Nos. 1 and 1-S, Clark County; State Project.

LOW BIDS: J. C. Compton Co., Box 86, McMinnville, Ore., $131,636; K. F. Jacobsen & Co., Inc., 1208 N. River St., Portland, $144,136; D-H Paving Co., 6808 Highway 99, Vancouver, $149,451.

YALE EASTERLY—Surfacing with light bituminous surface treatment, non-skid single seal treatment on 9.552 mile SH Nos. 5, 8, 12, 1-S, 1-T, 5-K, 5-L, 8-A, 8-B, 8-C, 8-D, 12-D, 12-F, Cowlitz, Clark, Lewis, Skamania, Klickitat and Wahkiakum counties; State Project.

LOW BIDS: D-H Paving Co., Vancouver, $88,505; Doolittle Construction Co., 510 Adams, Seattle, $93,929; Harr & Horton, 312 N. Schmeer Road, Portland, $102,083.

COTTONWOOD ROAD TO COLVILLE—Non-skid single seal treatment on 71.35 mile SH Nos. 3, 6, 22, 6-A, Stevens and Pend Oreille counties; State Project.

LOW BIDS: N. G. Johanson, 1828 E. Trent Ave., Spokane, $71,223; Standard Asphalt Paving Co., N. 119 Post St., Spokane, $76,512.

CARMACK BRIDGE VICINITY—Removing slide on 0.113 mile PSH No. 5, Yakima County; State Project. Involves about 75,690 c.y. excavation.

LOW BIDS: Russell-Gillett Co., Box D, Cle Elum, $34,411; Tom T. Larson, Box 552, Wenatchee, $35,354; C & E Construction Co., Box 1545, Yakima, $20,789.

LABORATORY AND STORAGE BUILDING IN SPOKANE—Constructing combination and storage building and remodeling the district headquarters buildings in Spokane County; State Project.

LOW BIDS (following are base bids: Walter G. Meyers & Son, Box 5011, Spokane $84,490; Max Kuney Co., N. 120 Ralph St., Spokane, $84,500; O. M. Chaplin, 328 S. Thor Spokane, $85,530.

AERIAL PHOTOGRAPHY — Furnishing contact prints, photographic enlargements, mosaics and laboratory services under a blanket contract; State Project.

LOW BIDS: Pacific Aerial Survey, Inc., 217 9th N., Seattle, $6,025; Western Mapping Co., and Warren N. Hayner & Associates, 405 Alaska Bldg., Seattle, $6,435 (joint bid); K. B. Wood & Associates, Inc., 2623 N.W. Industrial St., Portland, $8,625.

JCT. PSH No. 18 to LARSON AIR BASE—Surfacing shoulders with light bituminous surface treatment and paving with type I-1 asphaltic concrete on 7.146 mile SSH No. 11-G, Grant County; FAP No. F-045-2(6).

LOW BIDS: McAtee & Heathe, Inc., Box 4187, Spokane, $101,899; Max J. Kuney Co., Spokane, $103,005; L. W. Vail Co., Box 847, Pasco, $112,252.

DE 5-16. Previous report 5-9

★STATE HIGHWAY PROJECT— Olympia, Wash.

Award to C. B. Croy, 2502 Lakeway Drive, Bellingham, $14,057, by Washington State Highway Commission, Olympia, on the following project:

AUSTIN CREEK BRIDGE — Reinforced concrete slab bridge on 0.011 mile Whatcom County road; FAS No. S-0766(3). Bids were opened May 8. DE 5-15. Previous report 5-11

▲SHORE FACILITIES— Olympia, Wash.

Bids received May 14 by Corps of Engineers, Seattle District, district engineer, 4735 E. Marginal Way, Seattle, for shore facilities, Olympia Reserve Fleet, Olympia, Wash.; CIVENG-45-108-56-50. LOW BIDS: General Construction Co., 3840 Iowa, Seattle, $22,000 (total schedule A, dredging and disposal of dredged material); $261,380 (item 1B-36B, removal of existing structures, clearing, stripping, excavation and miscellaneous items); $26,116 (total additive items 37B-44B, salt water fire system); $287,496 (total schedule B); $309,496 (total schedules A and B); John H. Sellen Construction Co., 228 9th Ave. N., Seattle, $34,400, $278,161, $26,240, $304,401, $338,801; Manson Construction and Engineering Co., 5209 E. Marginal Way, Seattle, $36,000, $311,307, $32,400, $343,707, $379,707. Engineer's estimates, $28,800, $195,758, $19,003, $214,761, $243,561.

GW 5-16. Previous report 5-5

SEWAGE TREATMENT PLANT— Palouse, Wash.

Bond election failed May 1 and will be held again in the fall by City of Palouse. Harold Kimball, city clerk, City Hall, Palouse, for sewers and sewage treatment plant in Palouse. SP 5-15. Previous report 4-6

●SUBSTATION ADDITION— Pasco, Wash.

Bids will be opened 2 p.m., May 29, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for construction of additions to Franklin substation, Highway U.S. 410, approximately 3 mi. east of Pasco, Franklin County, Wash.; Inv. No. 7966. Specifications with above office. $25 deposit. Bid bond 25%. Completion time 110 calendar days.

Quantities: 128 c.y. excavation; 50 c.y. reinforced concrete footings; 11,200 steel erection; steel conduit; grounding system; installation of 68 items of station equipment; removal of 3, 115 kv. pedestal with insulators and bus supports; bus and connectors; yard lighting system; 212 sq. ft. concrete sidewalk; painting 9 transformers, 3 oil circuit breakers, 18 insulator pedestals; insulating oil system; 500' safety fence.

SP 5-15

★SITE GRADING— Port Angeles, Wash.

Award to DelGuzzi Construction Co., Port Angeles, $10,370, by Port Angeles School District No. 17, Clallam County, Port Angeles, for clearing and grading at the Hamilton Elementary School site in Port Angeles. Bids opened May 4.

SP 5-12. Previous report 4-21

★**PIPE—** **Port Angeles, Wash.**

Awards announced by City Council, City Hall, Port Angeles, for 1,980' of 16" pipe and 1692' of 14" pipe, fittings and joints; 6,006' of 6" asbestos-cement pipe for Port Angeles. AWARDS—PIPE, FITTINGS AND JOINTS: Pacific States Cast Iron Pipe Co., Smith Tower, $24,327. ASBESTOS-CEMENT PIPE; Johns-Manville Co., 777 Thomas St., $9,348. Both of Seattle. SC 5-12

●**STORAGE TANK—** **Prosser, Wash.**

Bids to be opened 11 a.m., May 24, by Benton County Commissioners, Courthouse, Prosser, for furnishing the county road department with a new electrically heated 10,000 gallon capacity asphalt cement storage tank. Specifications with county engineer, Prosser. DC 5-12

★**HIGHWAY MOWER—** **Puyallup, Wash.**

Award to Howard Cooper Corp., 5055 4th Ave. S., Seattle, $3,655, by Road District No. 1, Courthouse, Tacoma, for delivering to North Puyallup one highway mower.
SP 5-12. Previous report 4-28

●**WELL, BUILDING ADDITION—** **Richland, Wash.**

Bids will be opened 2 p.m., June 11, by Atomic Energy Commission, Engineering and Supply Division, Bldg. 703, Richland, for construction of two calibration wells and a building addition in a Hanford plant area in Richland. Specifications with above office. Completion time 3 months.

Project includes construction of a wood frame building addition, 10'x30'x10', concrete floor; asbestos-cement siding shingles; two calibration wells; 14" diameter steel casing about 26' long. SP 5-15

●**ROAD EXTENSION, IMPROVEMENTS—** **Richland, Wash.**

Bids will be opened 2 p.m., June 5, by Atomic Energy Commission, Engineering & Supply Division, Bldg. 703, Richland, for extending Hains and Harris Avenues and improving Gaylord Place and a service road to the sewage treatment plant in Richland. Specifications with above office. Completion time 90 calendar days.

Project includes the following: extension of Harris Ave. ½ mile north from Newcomer St. to Wallace St.; extension of Hains Ave. about 400'; improvement of Gaylord Place from De Russy Place north to connect with Hunt Ave.; penetration type asphaltic surfacing for street improvements; asphaltic concrete and concrete for curbs, pads, walks, gutters and steps; 400' of 12" pipe; relocation of chain link fence; installation of 16' double gate. SP 5-15

●**WATER STORAGE, DISTRIBUTION ALTERATIONS—** **Richland, Wash.**

Bids will be opened 2 p.m., June 6, by Atomic Energy Commission, Engineering and Supply Division, Bldg. 703, Richland, for alterations to water storage and distribution facilities in a production area at Hanford Works, Richland. Specifications with above office. Completion time 150 calendar days.

Project includes removal of existing 100,000-gallon wood tank from 100' high steel tower; replacing wood tank with steel tank of same size, having revolving ladder on the side and balcony with handrail; removal of 75,000-gallon wood tank and 95' high steel tower from site; construction of 175' of 10" cast iron water main with two 10" gate valves, concrete anchor blocks and minor piping; electrical alterations in an existing power plant. SP 5-16

▲**PARK, PLAYGROUND IMPROVEMENTS—** **Richland, Wash.**

Bids received by Atomic Energy Commission, Engineering & Supply Division, Bldg. 703, Richland, for improving eleven park and playground areas in Richland. LOW BIDS: Farwest Construction Co., 608 W. 44th, Seattle, $9,566; Cascade Engineering Co., Palo Alto, Calif., $10,477; George A. Grant, Pasco, $15,427. Bids opened May 14.
SP 5-16. Previous report 4-25

▲**SEWER—** **Richland, Wash.**

Bids received by Atomic Energy Commission, Engineering and Supply Division, Richland, for construction of an effluent line, sewer outfall line and raw water line at two plant areas inside the Hanford barricades. LOW BID: Hoffman Construction Co., 715 S.W. Columbia, Portland, $87,600. Engineer's estimate $66,500. Bids opened May 15. SP 5-16. Previous report 4-17

▲**TEST BORINGS, ASPHALTIC CONCRETE PAVING—** **Seattle, Wash.**

Bids received May 8 by Board of Public Works, E. G. Henry, secretary, room 512, County-City Bldg., Seattle, for construction of asphalt concrete paving and test borings. TOLT RIVER; Ord. No. 84401—Test Borings: LOW BID—Lynch Bros., 3420 Stone Way, Seattle, Seattle, $9,225. ONLY OTHER BID: Western Drilling and Equipment Co., 1545 Bay St., Tacoma, $11,315. Engineer's estimate, $10,275. TAYLOR MILL—Test Boring: LOW BID—Western Drilling and Equipment Co., $792; Pacific Testing Laboratories, 3220 17th Ave. W., Seattle, $1,760. Engineer's estimate, $704. W. Walker St., Asphalt Concrete Paving; Ord. No. 84949; LID No. 6122. LOW BID: Seattle Contracting Co., 101 W. Nickerson, Seattle, $18,302. (Alternate A); $18,294 (alternate B)); ONLY OTHER BID: Pacific Construction Co., 3002 16th Ave. S., Seattle, $19,850, $20,010. Engineer's estimate $20,000 (alternate A), $19,542 (alternate B). GW 5-11. Previous report 4-28

▲**UTILITY POLES—** **Seattle, Wash.**

Bids received May 8 by Board of Public Works, E. G. Henry, secretary, room 512, County-City Bldg., Seattle, for groundline inspection and rejection of standard utility poles; Ord. No. 84609; Spec. No. 1433. Plans by City Light, Engineering Division, H. G. Silliman, chief electrical engineer, 4th Floor, Galland Bldg., 1217 2nd Ave., Seattle. LOW BIDS: Larry Ladum, Sahara Waterproofing Co., 1510 W. Galer, Seattle, $16,280; Dan Kamphausen, Continental Oil Bldg., Denver, Colo., $20,000; Warren N. Hayner & Associates, Alaska Trade Bldg., 1917 1st Ave., Seattle, $39,000.
GW 5-11. Previous report 4-27

●**STOCKPILE, CONCRETE PAVING, WATER MAINS—** **Seattle, Wash.**

Bids will be opened 2 p.m., May 23, by Board of Public Works, E. G. Henry, secretary, room 512, County-City Bldg., Seattle, for stockpiling, concrete paving and water mains, in Seattle. Plans and specifications with William E. Parker, city engineer, room 404, County-City Bldg., Seattle.

STOCKPILING—Juanita Pit Site, Ord. No. 84601: On the Bothell Road, N. of Juanita intersection: producing and stockpiling 20,000 c.y. crushed and screened materials. CONCRETE PAVING—LID No. 6108; Ord. No. 84365: Lake Washington Blvd. from Charles St. to Judkins St., and on Parkland Way from Lake Washington Blvd. S. to Lakeside Ave. S. Quantities: 780' integral curb; 2,560 sq. yd. cement concrete pavement 6" thick; 814 c.y. excavation. ALTERNATE: 2,560 sq. yd. concrete base with asphaltic concrete surfacing. WATER MAINS—ORD. No. 84636: 26th Ave. S.W. from Barton St. to S.W. 106th; 35th Ave. S.W. from S.W. 106th to S.W. 112th; S.W. 106th from 26th Ave. S.W. to 35th Ave. S.W., and W. Roxbury St. from 21st Ave. S.W. to 35th Ave. S.W. Quantities: 4,670' of 16"; 8,575' of 12"; 300' of 8" cast iron water mains; miscellaneous valves, blow-off gate valves, chambers. GW 5-12

★**LIGHTNING POLES—** **Seattle, Wash.**

Award to Salmon Bay Electric Co., 4728 Ballard Ave., Seattle, $3,349, by Corps of Engineers, Seattle District, Colonel N. A. Matthias, district engineer, 4735 E. Marginal Way, Seattle, for furnishing lightning poles for National Guard AAA gun sites, Seattle Defense Area; ENG-45-108-56-163.
GW 5-15. Previous report 5-3

★**WATER MAIN REPLACEMENT—** **Seattle, Wash.**

Award to L. G. Massart Plumbing and Heating Co., 4501 9th Ave. N.W., Seattle, $17,212, by 13th Naval District, Bureau of Yards and Docks, Rear Admiral R. H. Meads, chief of bureau, Public Works Office, room 100, Building 232, U. S. Naval Station, Seattle; for replacement of water mains, Pier 90, Seattle; NBy 2009.
GW 5-15. Previous report 5-1

●**PEDESTRIAN OVERPASS—Seattle, Wash.**

Bids will be opened 10 a.m., May 29, by City Council, Paul R. Hendricks, city purchasing agent, room 511, County-City Bldg., Seattle, for construction of a pedestrian overpass over the double track of the Great Northern Railroad, just north of Blue Ridge, on 110th, Seattle. Plans with city parks department, 100 Dexter Ave., Seattle. $10 deposit. Certified check, cashier's check or bid bond 5%. GW 5-15

▲**GAP FILLER FACILITIES—Seattle, Wash.**

Bids received May 15 by Corps of Engineers, Seattle, District, district engineer, 4735 E. Marginal Way, Seattle, for gap filler facilities at Ione, Wash.; Moyie Springs, Idaho; Eureka, Mont. ENG-45-108-56-150. LOW BID: The Timber Co., 244 Main St., Hermiston, Ore., $94,732 (schedule A-Ione); $113,580 (Schedule B—Eureka); $118,251 (Schedule C—Moyie Springs); $326,563 (Total of all schedules. Engineers estimate, $82,717, $106,874, $130,615 and $320,207.
GW 5-16. Previous report 5-10

▲**DOLPHINS—** **Seattle, Wash.**

Bids received May 14 by Corps of Engineeds, Seattle District, district engineer, 4735 E. Marginal Way, Seattle, for construction of dolphins, Sand Island Shoal and Crossover channels at Grays Harbor and Chehalis River, Wash.; CIVENG-45-108-56-47. ONLY BID: Grays Harbor Construction Co., 412 S. Park, Aberdeen, $18,910. Government estimate, $11,339. GW 5-16. Previous report 5-10

●**WATER WORKS ADDITIONS—** **Seattle, Wash.**

Bid opening extended from May 14 to 9:30 a.m., May 26, by King County Water District No. 75, Worrel L. Richter, secretary, 19863 28th Ave. S., Seattle, for water works additions. Plans with Howard T. Harstad & Associates, consulting engineers, 1000 Lenora, Seattle. $10 deposit. Certified check, cashier's check or bid bond 5%.

Quantities: Furnish and install approximately 11,250' of 12", 10", 8", 6", and 4" asbestos-cement water pipe; valves; fire hydrants and necessary appurtenances.
GW 5-16. Previous report 5-12

★**TRUCK LIFT—** **Shelton, Wash.**

Award to Oil Filter Service Co., 1216 Tacoma Ave., Tacoma, $1,133, by Mason County Commissioners, Courthouse, Shelton, for furnishing and delivering one 20,000 lb. minimum capacity two-post truck lift.
SP 5-12. Previousr eport 4-28

POWER LINE— **Spokane, Wash.**

Construction will start soon by Washington Water Power Co., W. 825 Trent, Spokane, on a 13,000 kv power line to the Conjecture mine in the Lakeview area. Clearing for the right-of-way is underway now by Laten Puckett of Bayview. A substation will be built at Lakeview where the new line to the mine will be connected to the present power line that comes from WWP's Cabinet Gorge dam. Cost of the substation and new power line is estimated at $260,000.
DC 5-4

★**DEEP WELL PUMP—** **St. John, Wash.**

Award to General Machinery, E. 3500 Riverside, Spokane, $7,028, by Bernard Robertson, clerk, Town Hall, St. John, for furnishing, installing and wiring a deep well pump. Bids opened May 7.
SP 5-12. Previous report 5-3

★**BRIDGE—** **Stevenson, Wash.**

Award to General Construction Co., Box 3860, Portland, $18,349, by Skamania County Commissioners, Courthouse, Stevenson, for treated timber bridge on Butler's Eddy Road.
WB 5-16. Previous report 4-26

★**DIVERSION TUNNEL—** **Swift Damsite, Wash.**

Award to Guy F. Atkinson Co., 10 W.

Orange Ave., South San Francisco, $1,841,315, by Pacific Power & Light Co., Paul B. McKee, president, Public Service Bldg., Portland, for drilling 2,900' diversion tunnel at Swift Hydroelectric Project, Lewis River, Skamania County, Wash., about 45 miles north of Portland.
WB 5-12. Previous report 5-8

● TOWER PAINTING— Tacoma, Wash.

Bids to be opened 11 a. m., June 4, by Board of Contracts and Awards, room 404, City Hall, Tacoma, for painting crossing towers, steel cables and dead-end towers at Narrows crossing span, Cushman transmission line. Plans with above office. Certified check 5%.
DC 5-12

● GATE VALVES— Tacoma, Wash.

Bids will be opened 11 a. m., May 21, by Board of Contracts and Awards, Clarence M. Boyle, chairman, room 404, City Hall, Tacoma, for six, 16" gate valves. Specifications with above. Bids on this project were originally called for May 14 in conjunction with motor graders.
GW 5-15. Previous report 5-3

● MOTOR GRADERS, GATE VALVES— Tacoma, Wash.

Bids received May 14 by Board of Contracts and Awards, Clarence M. Boyle, chairman, room 404, City Hall, Tacoma, for motor graders. Bids on gate valves have been extended from May 14 to May 21, 11 a. m. MOTOR GRADER — LOW GRADER — LOW BIDS: Howard Cooper Machinery Corp., 5055 4th Ave. S., Seattle, $21,214; Modern Machinery Co., Inc., 4975 3rd Ave. S., Seattle, $22,117; Murphy-Campbell Co., Seattle, $23,543.
GW 5-15. Previous report 5-3

▲ GRADING PAVING— Tacoma, Wash.

Bids received May 14 by Board of Contracts and Awards, Clarence M. Boyle, chairman, room 404, City Hall, Tacoma, for grading, asphalt paving, concrete curbs and gutters. LOW BIDS: Woodworth & Co., 1200 East D St., Tacoma, $16,460; Concrete Construction Co., 3103 S. Lawrence, Tacoma, $17,443; Kendall Construction Co., 3211 Center St., Tacoma, $18,958.
GW 5-15. Previous report 5-12

★ LANDSCAPING— Vancouver, Wash.

Award to H. L. Pearsey Co. and Pioneer Nursery, Ridgefield, $31,764, by Clark County PUD No. 1, 614 Main St., Vancouver, for landscaping about four acres of ground adjacent to PUD office building at 1200 Fort Vancouver Drive, Vancouver. Award to Ernest Ferrante & Co. had previously been announced but this bid was withdrawn due to error.
WB 5-11. Previous report 4-21

▲ SANITARY SEWERS— Vancouver, Wash.

Bids received May 7 by city purchasing agent, Robert Moisant, 712 Washington St., Vancouver, for construction of sanitary sewers; LID No. 83-S. BIDDERS: Harold E. Olds, 3111 N. 24th St., Tacoma, $19,785; Paul Ferneding, 2711 E. 27th St., Vancouver, $20,007; Don Thornton, 2809 W. 21st St., Vancouver, $22,243. WB 5-15. Previous report 5-3

■ STABILIZER REPAIR— Walla Walla, Wash.

Planholders announced for repair of existing stabilizers and constructing gauging station, Mill Creek, Walla Walla County, Wash.; CIVENG-45-164-56-64. Bids will be opened 2 p. m., May 22, by Corps of Engineers, Walla Walla District, Colonel Myron E. Page, Jr., district engineer, Bldg. 602, City-County Airport, Walla Walla.

Planholders: Lawrence P. Sowles, 8725 S.W. White Pine Lane, Portland, Ore.; George A. Grant, Box 764, Pasco; Schrader Construction Co., 3030 S.E. Hawthorne, Portland; Paul Jarvis, Inc., 4316 E. 33rd St., Seattle; Syblon-Reid Construction Co., Box 587, Warden; A. Ritchie & Co., 2102 Melrose, Walla Walla; H. C. Grendahl, Box 246, Parkwater Station, Spokane; Cherf Bros. & Sandkay, Inc., Box 938, Ephrata; Marshall Construction Co., 40 W. Ridgeway, Hermiston, Ore.; Lewis Hopkins Co., 221 S. 3rd St., Pasco; Arthur Fralick Co., 3008 E. 57th St., Seattle; Harold Kaeser Co., 3629 34th S., Seattle; Wayne Construction Co., 3810 Stone Way, Seattle; Alton V. Phillips Co., 4055 21st W., Seattle; A. P. Herman Construction Co., Box 36, Touchet Northwest Construction, Box 250, Caldwell, Idaho.
SP 5-11. Previous report 4-24

● SPUR TRACK— Walla Walla, Wash.

Bids will be opened 2 p. m., May 29, by Corps of Engineers, Walla Walla District, Bldg. 602, City-County Airport, Walla Walla, for construction of south shore spur track, Ice Harbor Lock and Dam, Walla Walla County, Wash.; CIVENG-45-164-56-69. Specifications with above office. Completion time 30 calendar days.

Project includes: transportation of approximately 90 tons or rail and track materials from McNary Dam, Ore., to spur track site; ballasting roadbed; construction of approximately 2,200' spur track.
SP 5-16

★ ROAD CONSTRUCTION— Waterville, Wash.

Award announced by Douglas County Commissioners, Courthouse, Waterville, for construction of four miles of the Waterville North road. AWARD: Lone Pine Paving & Crushing Co., north of 16th Ave., Yakima, $30,920. ONLY OTHER BID: Standard Asphalt Paving Co., Inc., N. 119 Post St., Spokane, $36,640. Bids opened May 7.
SP 5-11. Previous report 4-20

★ REPAIR RIFLE RANGE— Yakima, Wash.

Award to Mann Construction Co., Redmond, Ore., $14,680 (Items 1 and 2), by Department of Army, August F. Rediske, contracting officer, Purchasing and Contracting Office, Fort Lewis, for repair of firing points on distance rifle range, Yakima Firing Center, Yakima; AVI-45-06-56-109. Bids opened May 2.
SP 5-16. Previous report 5-1

IDAHO

★ BITUMINOUS SURFACING— Blackfoot, Idaho

Award to Carl E. Nelson Construction Co., Inc., P. O. Box 397, Logan, Utah, $61,314, by Bureau of Indian Affairs, Portland Area Office, Roads Branch, 1001 N.E. Lloyd Blvd., P. O. Box 4097, Portland, for bituminous surfacing on 8.193 mi. of highway just southwest of Blackfoot, Idaho, on Fort Hall Indian Reservation; Gibson Roads Project FHIR-602.
WB 5-16. Previous report 4-21

▲ STATE HIGHWAY PROJECTS— Boise, Idaho

Bids received May 8 by Department of Highways, E. V. Miller, highway engineer, 603 Main, Boise, on highway construction.

BINGHAM, MIDWAY, BIG LOST RIVER—Seal coating 18.545 mile U. S. Highway 20 from Bingham County line east 19.295 mile from Midway Jct. east and on 6.747 mile from Big Lost River to Midway Jct., in Bonneville, Bingham and Butte counties; State Projects Nos. HAA-6(1), HAA-6(2), ST-M-1381(504).

LOW BIDS: Holmes Construction Co., Heyburn, $59,722; Barnhart & Wheeler Con tractors, 325 Pershing Ave., Pocatello, $62,176; Robert V. Burggraf Co., Box 397, Idaho Falls, $68,006.

REEDS CORNER-WESTERLY — Resurfaring 2.934 mile and seal coating 4.169 mile Highway 20, Bonneville County; State Project No. ST-6422(501).

LOW BIDS: Twin Falls Construction Co., Box 1801, Twin Falls, $89,230; Nelson & Deppe Construction Co., 3501 Mountain View Drive, Boise, $89,266; Holmes Construction Co., Heyburn, $93,561.
SP 5-11. Previous report 4-19

● ROAD CONSTRUCTION— Boise, Idaho

Bids will be opened 2 p. m., May 25, by U. S. Forest Service, office of forest supervisor 210 Main St., Boise, for construction of Slide Gulch Road, Boise National Forest, Elmore County, Idaho; Proj. No. 91. Specifications with above office. Bid bond 5%. Completion time 60 calendar days.

Project beings at Slide Gulch Bridge on Middle Fork Boise River (above upper end of Arrowrock Reservoir) approximately 40 mi. east of Boise and follows existing road to the north edge of Smith Prairie, the Reiger Branch. Construction includes 1.81 miles of "D" standard road with a 3' ditch; reshaping of approximately 15.85 mi. of existing road to standard.

Quantities: 12.71 acres clearing and grubbing; 87,216 c.y. excavation; 558 c.y. borrow; 1,056' culvert pipe; 2, 36" metal end sections; 10 drop inlet basins; 45 c.y. loose rock riprap.
SP 5-16

★ SUBSTATIONS— Idaho Falls, Idaho

Award to Interstate Electric Co., 540 W. 7th South, Salt Lake City, Utah, $681,567, by Atomic Energy Commission, H. Noble, director, Contracts & Administration Division, Idaho Operations Office, Box 1221, Idaho Falls, for construction of substation at AIW-NRF Area at the National Reactor Testing Station, Idaho; Inv. No. AT(10-1)-818.
SP 5-11. Previous report 5-8

● DEEP WELL PUMPS— Idaho Falls, Idaho

(Estimated cost $90,000)

Bids will be opened 2 p. m., May 23, by Atomic Energy Commission, Idaho Operations Office, Box 1221, Idaho Falls, for furnishing and installing deep well pumps at MTR, NRF and ANP areas at the National Reactor Testing Station, Idaho; Inv. No. AT(10-1)-823. Specifications with above office. Bid bond 10%. Completion date December 1, 1956.
SP 5-12

● DRIVEWAY EXTENSION—Kellogg, Idaho

Bids will be opened 3 p. m., May 25, by General Services Administration, W. W. Southworth, chief of construction and repair division, room 126, Federal Office Bldg., 909 1st Ave., Seattle, for driveway extensions at the U. S. Post Office, Division St., and Portland Ave., Kellogg; Project No. CR-10-412. Plans at above address.
GW 5-12

★ CONCRETE SIDEWALKS— Mountain Home AFB., Idaho

Award to Twin City Concrete Service, Box 1041, Longview, Wash., $50,582, by Corps of Engineers, Walla Walla District, Colonel Myron E. Page, Jr., district engineer, Building 602, City-County Airport, Walla Walla, for construction of concrete sidewalks, Mountain Home AFB.; ENG-45-164-56-34.
GW 5-12. Previous report 4-10

★ WATER SYSTEM— Notus, Idaho

Awards announced by village clerk, City Hall, for extensions to the municipal water system in Notus. AWARDS—PUMP: B & M Equipment, Caldwell, $2,439. PUMPHOUSE, PIPE LINES: Crane Co., Eagle, $6,867. Bids opened May 1.
SP 5-11. Previous report 4-10

▲ STREET IMPROVEMENTS— Sandpoint, Idaho

Bids rejected as too high by City Council, City Hall, Sandpoint, for street improvements at Sandpoint. LOW BIDS—SECTION 1 (grading): M. F. Castle Co., 1053 Division St., Spokane, $74,171. SECTION 2 (curbs): Dan Deshon, 215 Pacific, Sandpoint, $37,179. SECTION 3 (cushion, wearing course): Inland Asphalt Co., 10th and Havana, Spokane, $80,176. All bids $7,633 above engineer's estimate. Bids opened May 8.
SP 5-16. Previous report 4-26

MONTANA

CURB, GUTTER— Billings, Mont.

(Estimated cost $2,710)

Hearing will be held 7:30 p. m., May 22, by City Council, City Hall, Billings, for formation of proposed SID 680, for construction of combination curb and gutter on both sides of 2400 block on 11th Ave. N., Billings.
EE 5-11

● DRAIN DITCH— Billings, Mont.

Bids will be opened 1 p. m., May 21, in

the office of Soil Conservation Service, 1245 N. 29th St., Billings, by owners of land in the Progressive Drainage Project, 8 miles east of Billings, for construction of an open drain ditch, involving about 75,000 c.y. excavation. Specifications with above office. Bid bond or certified check 10%. EE 5-15

★STORM SEWER MAINS, DRAINAGE— Billings, Mont.

Award by Yellowstone County Commissioners, L. R. Sampson, county surveyor, Courthouse Billings, for installation of storm sewer mains and draining surface waters in RSID No. 301. AWARD: Barry O'Leary Inc., 215 N. 16th St., Billings, $48,357. OTHER LOW BIDS: Studer Construction Co., West of Billings, $54,834; Holm-Sutherland Construction Co., 714 Central Ave., Billings, $59,558.

EE 5-16. Previous report 4-18

●PARKING FACILITIES, ELECTRICAL WORK— Butte, Mont.

Bids will be opened 3 p.m., P.S.T., May 31, by General Services Administration, W. W. Southworth, chief of Construction and Repair Division, room 126 Federal Office Bldg., 909 1st Ave., Seattle, for additional parking facilities and outside electrical work at U. S. Post Office and Courthouse, East Copper and N. Main St., Butte; Project No. CR-10-419. Plans with construction and repair division at above address. GW 5-16

▲TELEPHONE FACILITIES— Circle, Mont.

Bids received by Mid-River Telephone Cooperative, Inc., G. R. Thiessen, president, and Ellis Jones, manager, Circle, for rural telephone project in Circle. LOW BIDS: DeShaw's, Sidney, $41,736; Van Daveer & Co., Box 249, Billings, $42,282; A. M. Lipps Construction Co., Princeton, Minn., $43,203. Bids opened May 8.

SP 5-12. Previous report 5-2

TELEPHONE LINES— Forsyth, Mont.
(Estimated cost $120,000)

Bids will be called soon by Range Telephone Cooperative, Forsyth, on outside plant construction involving new pole line, wire, cable, wire joint use and approximately 210 stations in the exchange areas of Rosebud and Ashland, Mont. Staking has already been started by the phone company. Plans by General Engineers, Box 630, Missoula.

DM 5-15

★LIFT STATION WET WELL— Great Falls, Mont.

Award to Fred B. Dudley, 1001 9th Ave. N., Great Falls, $2,973, by Fred L. Hill, city clerk, Civic Center, Great Falls, for construction of lift station wet well at 6th S.W. in Great Falls. SP 5-12. Previous report 5-5

●BROOM MOTOR PICKUP SWEEPER— Great Falls, Mont.

Bids will be opened 8 p.m., May 21, by Fred L. Hill, city clerk, Civic Center Bldg., Great Falls, for furnishing one new single gutter broom motor pickup sweeper, not less than 3 c.y. capacity, 170 gal. water tank, single rear wheel sttering and enclosed cab. One Elgin Model 20-S, 1938, serial No. JXD-591020 to be accepted as trade-in and may be inspected at 900 1st Ave. S., Great Falls. Specifications with above office. SC 5-15

●PIPE— Helena, Mont.

Bids will be opened 10 a.m., May 25, by Henry J. Rolfes, Jr., city manager, Civic Center Bldg., Helena, for furnishing cast iron pipe and fittings for city water works department in Helena. Specification with above office. LS 5-16

●STATE HIGHWAY PROJECTS— Helena, Mont.

Bids to be opened 9:30 a.m., June 4, by Montana Highway Commission, Frank G. Connelly, chairman, Helena, on 11 construction projects. Plans with Scott P. Hart, state highway engineer, Helena. Certified or cashier's check or bid bond 5%.

SEAL COAT OILING—On 50.701 mile of various roads as follows: F 148(9) U2, Great Falls, Armington Road, Cascade County; F 148(6) U2 and F 155(7) U2, The Saco East and Glasgow West Road, Valley County; F 211(11) U2, Dutton southeast section of Vaughn-Conrad Road, Cascade and Teton counties; F 220(6) U2, Cut Bank East and West Road, Glacier County; F 69(10) U2 and F 248(11) U2, Whitehall section of Pipestone Pass-Whitehall and the Tree Forks-Whitehall roads, Jefferson County; F 265(5) U2, The Townsend-White Sulphur Springs Road, Broadwater and Meagher counties.

LITTLE BIG HORN BRIDGES—Two 156' steel and concrete bridges over Little Big Horn River on Crow Agency-Hardin and Wyoming line-Crow Agency Road, Big Horn County; I-FI 188(7) U2, and I-IN212(12) U2.

Quantities: 156,834 lb. reinforcing steel; 838.4 c.y. concrete; 720 c.y. structure excavation; 60,480 lb. steel bearing piles.

PABLO FEEDER CANAL BRIDGE—Steel and concrete, 82' bridge on Polson-South section of Pablo-Kalispell road, Lake County; F 191(16) U2.

Quantities: 40,042 lb. reinforcing steel; 153 c.y. concrete; 160.46' steel bridge rail.

BILLINGS ROAD—Grading, gravel surfacing, plantmix oiling, draining 0.598 mile on Billings East Road, 0.705 mile on First Ave. south, N. 13th St. and Fourth Ave. north-Billings Roads, Yellowstone County; U 230(6) and U 386(4).

Quantities: 38,599 c.y. unclassified excavation; 7,655 ton plantmix bituminous surfacing; 53,256 ton crushed gravel.

GRASS RANGE-MALTA ROAD—Grading, gravel surfacing, draining 11.279 mile in Phillips County; F 333(17).

Quantities: 912,837 c.y. unclassified excavation; 37,318 mi. yd. overhaul; 81,292 ton crushed gravel.

LANE - LAMBERT SECTION — Grading, gravel surfacing, bituminous surface treatment, draining 10.781 mile Circle-Sidney Road, Richland County; F 391(3).

Quantities: 496,730 c.y. unclassified excavation; 30,817 mi. yd. overhaul; 35,283 ton crushed gravel; 154,676 ton select borrow base course.

CHESTER NORTHWEST ROAD—Grading, gravel surfacing, draining 7.628 mile in Liberty County; S 94(3).

Quantities: 85,328 c.y. unclassified excavation; 1,865 mi. yd. overhaul; 196 c.y. gravel backfill; 18,891 c.y. select borrow base course; 27,367 ton crushed gravel.

JUDITH GAP - EAST ROAD — Grading, gravel surfacing, draining 4.878 mile in Wheatland County; S 174(2).

Quantities: 215,484 c.y. unclassified excavation; 327 c.y. gravel backfill; 22,498 mi. yd. overhaul; 31,138 ton crushed gravel.

GALATA NORTH ROAD—Grading, gravel surfacing, draining 10.395 mile in Toole County; S 188(1).

Quantities: 115,407 c.y. unclassified excavation; 4,191 mi. yd. overhaul; 45,932 ton crushed gravel.

PRESSERVILLE - G I R A R D - FAIRVIEW ROAD—Grading, gravel surfacing, draining five mile in McCone County; S 190(2) U1.

Quantities: 128,822 c.y. unclassified excavation; 5,488 mi. yd. overhaul; 29,093 ton crushed gravel.

ROEBUD CREEK BRIDGE—Steel and concrete, 110' bridge near Roscoe on Red Lodge-Columbus Road, Carbon County; S 289(4) U2.

Quantities: 48,108 lb. reinforcing steel; 247.3 c.y. concrete; 217.34' steel bridge rail; 195 c.y. structure and 430 c.y. unclassified excavation. DM 5-12

●PAVING, CURBS, GUTTERS— Helena, Mont.

Bids will be opened 9:30 a.m., May 28, by Henry J. Raffes, Jr., city manager, Civic Center, Helena, for paving and construction of curbs and gutters in SID No. 198, in Helena. Plans with Morrison & Maierle, consulting engineers, 910 Helena Ave., Helena. LS 5-15

RAILROAD— Malta, Mont.
(Estimated cost $500,000)

Construction is underway by Sandkay Contractors, Inc., 103 12th S.W., Ephrata, for straightening curves on the Great Northern Railway between Malta and Coburg. Equipment and heavy machinery were unloaded early in May by the contractors, at Wagner, 10 miles west of Malta. Elimination of curves will entail construction of about 6½ miles of new grade with new rails, ties and ballast as well as moving the GN telegraph and telephone lines. Sandkay will construct the grade, and R. N. Rasmussen of Everett, Wash., will supervise the job for the railroad. After the grade is completed the new steel, ballast and tie-laying will be done by GN crews. All material used will be new. Approximately 300,000 c.y. of dirt will be moved for the grade. DC 5-12

●WATER STORAGE— Miles City, Mont.

Bids will be opened 2 p.m., May 22, by Corps of Engineers, Seattle District, 4735 E. Marginal Way, Seattle, for construction of a 35,000-gallon concrete water storage ank and piping at Miles City, Mont.; ENG-45-108-56-182. Plans with district engineer at above address. Bid bond 20%. This project was originally advertised under Inv. No. ENG-45-108-56-162. No bids were received at the opening May 7.

GW 5-12. Previous report 5-8

●ROAD CONSTRUCTION—Missoula, Mont.

Bids will be opened 2 p.m., May 29, by Department of Agriculture, U. S. Forest Service, Procurement and Supply Division, 1036 Federal Bldg., Missoula, for construction including one bridge and grading of 1.639 miles roadway, Swan Lake Project, Lake County, Mont.; Proj. No. 129. Specifications with above office. Bid bond 5%. Completion time 200 calendar days.

Quantities: 12 acre clearing and grubbing; 35,326 c.y. excavation; 218,000 sta. yd. overhaul; 400 units subgrade watering; 8.9 c.y. concrete, class A; 543 lb. reinforcing steel; all required structural steel; 1,440' treated timber piling; 424' of 18"; 64' of 24" corrugated metal pipe; 60 c.y. loose riprap.

●ACCESS ROAD— Yaak, Mont.

Bids will be opened 2 p.m., June 15, by U.S. Air Force, Procurement Office, C. S. Phelps, contracting officer, Geiger Field, Spokane, for repairing access road at the 680th AC&W Squadron in the vicinity of Yaak; IFB 45-614-56-77. Specifications with above office. Bid bond 20%. CE 5-15

WYOMING

★STEAM POWER PLANT—Glenrock, Wyo.
(Estimated cost $22,000,000)

Several contracts have been awarded by Portland General Electric Co., Paul B. McKee, president, Public Service Bldg., Portland, for equipment and other work in connection with a 100,000 kw. steam-electric generating plant to be located 5 miles east of Glenrock on North Platte River. Actual construction is expected to start in fall of 1956. Ebasco Services, Inc., is in charge of design and managing construction. The plant will use an estimated 400,000 tons of coal per year from deposit to be developed by the company immediately north of the plant location. Plant will be modern "outdoor type" installation, with a single large generator. Water from North Platte River will provide water for boilers and for cooling. Estimated cost includes fuel development and transmission line connections. Plant to start operation in fall of 1958. CONTRACTS: Exploration drilling in coal—Morrison-Knudsen Co., Boise; Evitt Drilling Co., Casper, Wyo.; aerial mapping of coal area and plant site—Ryall Engineering Co., Denver; ground topographic mapping of plant site in connection with coal area—Worthington & Lenhart, Casper; consulting geologist—Florent Bailey, Petroleum Engineers Associates, Pasadena, and Wyoming Natural Resources Research Institute, Laramie; 100,000 kw. turbine-generator and related transformers—General Electric Co.; boiler, 1450 psi/1000°/1000°—Babcock & Wilcox; condensor—Ingersoll-Rand; structural steel—Gate City Steel Co., Omaha.

WB 5-11. Previous report 2-9

★PIPE, FITTINGS— Sheridan, Wyo.

Award to Denver Mine and Supply Co., Denver, Colo., $6,077, by City Council, C. Harold Campbell, city clerk, Sheridan, for furnishing 2,500' of 6" mechanical joint, class 150, cast iron water pipe and miscellaneous fittings. Bids opened May 7.

LY 5-12. Previous report 4-20

UTAH

●ROAD CONSTRUCTION— Ogden, Utah

Bids will be opened 10 a.m., May 22, by Bureau of Public Roads, K. S. Chamberlain, division engineer, room 473, Federal Bldg., Ogden, for construction work on 17.649 miles of Panguitch-Panguitch Lake road, Garfield County, Utah; FHP 36-A1, B1. Specifications with above office. Bid bond 5%. Completion time 120 calendar days.

Quantities: 111 c.y. unclassified excavation; 1,912 ton cut-back asphalt; 2,500 ton cover aggregate for seal coat; 44,364 ton pavemen; 19.1 ton bituminous additive; 90' arched culvert pipe. SP 5-11

▲DIVERSION DAM— Ogden, Utah

Bids received by Bureau of Reclamation, C. D. Wood, project manager, Box 387, Ogden, for Slaterville diversion dam and Layton pump intake channel, Weber Basin Project, near Ogden; Spec. No. DC 4662. Following bids include alternates B (with sheet pile cutoff) and C (with cement-bound pile curtain). BIDS RECEIVED: Mountain States Construction Co., 35 E. 4th South, Bountiful, $458,587 (A+C); Foley Bros., Inc., 900 New York Bldg., St. Paul, Minn., $532,645 (A+B) $21,835 (A+C); Hilton & Carr Construction Co., 922 12th St., Ogden, $617,688 (A+B); A. S. Horner Construction Co., 118 S. Pecos, Beaver, Colo., $577,285 (A+B), $564,615 (A+C). Bids opened May 8.

SP 5-12. Previous report 3-28

●WATER SYSTEM— Salt Lake City, Utah

Bids will be opened 10:30 a.m., June 7, by Salt Lake City Commission, Roy W. McLeese, city engineer, City-County Bldg., Salt Lake City, for construction of a water treatment plant, sedimentation basins, chemical house and chlorination plant in Salt Lake City. $25 deposit. Bid bond 5%.

GH 5-16

ALASKA

▲BRIDGE PAINTING— Anchorage, Alaska

Low bids announced for the painting of three Matanuska River Bridges Nos. 147.1, 147.4 and 147.5, by Alaska Railroad, Irvin P. Cook, chief engineer, Anchorage. LOW BIDS: H. & S. Contractors, Box 1808, Mount View, $13,750; Alaska Decorators, 414 6th Ave., Anchorage, $17,949; Andrew Nesheim, 9711 191st S.W., Edmonds, Wash., $18,711. Bids were opened May 2 and held under advisement. GW 5-11. Previous report 4-26

MUNICIPAL PORT— Anchorage, Alaska

Special election be held May 29 by City Council on $6,800,000 revenue bond issue to finance construction of a deep-sea port for Anchorage. Harold Strandberg, chairman of Port Commission, has urged authorization be made for the use of the $6,800,000 along with $2,000,000 in general obligation bonds already voted for.

DC 5-12. Previous report 12-22

●PUMP HOUSE— Anchorage, Alaska

Bids to be opened 10 a.m., P.S.T., June 13, by Alaska Public Works, John D. Argetsinger, acting director, in the mailroom, 123 W. 3rd St., Juneau, for construction of a pump house in Anchorage; Proj. Aaa 50-A-157, Unit 6. Plans with the acting director, Box 1181, Juneau. $25 deposit. Certified check or bid bond 5%.

Pump house for an existing water well, repairs, testing and developing the well, installing 620' cast iron pipe, miscellaneous work. JU 5-16

▲STEEL TOWER, TOWER LIGHTING— Tok Junction, Alaska

Bids received May 10 by Alaska Communication System, U. S. Army Signal Corps, A. C. Muttart Contracting Officer, 4735 E. Marginal Way, Seattle, for installation of 100' vertical steel tower, ground system and tower lighting at Tok Junction, Alaska; DA-45-041-56-sc-16. LOW BIDS: Ray E. Aldergon, Alaska Mile 1360, Fairbanks, $3,920; Fairbanks Builders, Inc., Fairbanks, $5,474; Pacific Construction Co., Box 1051, Fairbanks, $6,600. GW 5-11. Previous report 4-13

▲ROAD IMPROVEMENTS— Juneau, Alaska

Single bids were received by Alaska Road Commission, Juneau, on two road improvement projects. McLaughlin, Inc., Box 1824, Great Falls, Mont., was the only bidder at $77,040 on Richardson Highway improvements and Valdez city paving; Green Construction Co., Des Moines, Iowa, was only bidder at $7,508 on paving at Glenallen repeater station. DC 5-12

■BRIDGES— Juneau, Alaska

Planholders announced for construction of Klutina, Tonsina River and Moose Creek bridges at M. 101 and M. 79, Richardson Highway, and M. 186.2, Glenn Highway, in Alaska. Bids will be opened 11 a.m., May 22, by Alaska Road Commission, A. F. Ghiglione, director, room 319, Federal Bldg., Juneau.

Planholders: Arctic Welding Co., Box 14, Cordova; American Bridge, 309 S.W. 6th Ave.; H. G. Dato, Box 258, Cordova; West Coast Steel Works, 5609 N.E. 77th Ave., Portland, Ore.; Northern Corp., Box 2011, Anchorage; B-E-C-K Constructors, 3647 Stone Way, Seattle; Bethlehem-Pacific Coast Steel Corp., Box 3147, Terminal Station, Seattle; Poole McGonigle & Dick, 6330 N.W. Halsey St., Portland; Swita Construction Co., Inc., Box 297, Mountain View; David Nygren, 309 Lloyd Bldg., Seattle; Standard Steel Fabricating Co., Inc., 8155 1st Ave. S., Seattle; American Bridge, 208 La Salle St., Chicago, Ill.; H. Elechsing, 637 S. Higgins, Missoula, Mont.; J. J. Badraun Co., 109 N. 122nd St., Seattle; Pacific Car & Foundry Co., 120 W. Hudson St., Seattle; Don H. Clark, 2511 E. 17th St., Anchorage; Peter Kiewit Sons' Co., 1300 Aloha St., Seattle; Stock & Grove, Inc., Box 2051, Anchorage; Morrison-Knudsen, Inc., Box 320, Anchorage; M. P. Hunter Co., 1428 Joseph Vance Bldg., Seattle; M. B. Gilbrough Co., 12556 Bothell Way, Seattle; Independent Iron Works, 8th and Pine Streets, Oakland, Calif.; Isaacson Iron Works, Box 3625, Zone 24, Seattle; Swalling Construction Co., Inc., Box 1036, Anchorage; Louis Elterich Co., Port Angeles, Wash.; S. S. Mullen, 621 9th Ave. N., Seattle; Green Construction Co., 9285 Securities Bldg., Seattle; Screw Machine Products Co., 7737 N.E. Killingsworth, Box 7497, Portland; Joe Lundberg Construction Co., 3420 13th S.W., Seattle; McLaughlin, Inc., Box 1632, Anchorage; Pacific Construction Co., Box 1051, Fairbanks; West Coast Wood Preserving Co., 411 Seneca St., Seattle; Reed & Martin, Inc., Box 568, Fairbanks. JU 5-12. Previous report 4-24

■STREET, SEWER IMPROVEMENTS— Juneau, Alaska

Planholders announced for street and sewer improvements in Juneau; Proj. Aaa 50-A-146. Bids will be opened 10 a.m., May 23, by Alaska Public Works, John D. Argetsinger, acting director, 123 W. 3rd St., Box 1181, Juneau.

Planholders. Cole & Paddock, Box 616, Juneau; Lemon Creek Sand & Gravel, 1735 Glacier Ave., Juneau; Century Metal Works, 7126 W. Marginal Way, Seattle; H. C. Hayes, Box 1136, Douglas; Peter Kiewit Sons' Co., 1300 Aloha St., Seattle; Berg Construction Co., Box 276, Juneau.

JU 5-12. Previous report 4-17

●BITUMINOUS SURFACING— Juneau, Alaska

Bids to be opened 11 a.m., June 12 by Alaska Road Commissioner, A. F. Ghiglione, director, room 319, Federal Bldg., Juneau for new bituminous surfacing on Alaska Highway, Section A1, B2 located between mile 1385 and mile 1314 from about 4½ miles west of Johnson River to Tok Junction; 54.95 mile of seal coat on above new paving and on existing surfacing in section B 2; placing gravel base, bituminous surfacing on streets belonging to Alaska Communication System at Tok Junction. Plans with ARC, Box 1961, Juneau. No deposit. Bid guarantee 5%.

Quantities—Bid Schedule No. 1; Reconstruction, bituminous surface repair and new bituminous surfacing between about mile 1385 and mile 1314 involving 44,000 c.y. unclassified excavation; 63,000 c.y. borrow; 45,000 ton crushed gravel base course; 11,000 ton plantmix. Bid Schedule No. 1; Sealing all new paving proposed above and all remaining penetration type bituminous surfacing in B2 portion of the contract, a total length of 54.95 miles of seal coat, involving 7,100 ton cover aggregate; 860 ton asphalt. Bid Schedule No. 3; Placing gravel base and bituminous surfacing on streets belonging to Alaska Communication System at Tok Junction involving 1,700 ton crushed gravel base course; 620 ton plantmix. Completion time 270 calendar days. DM 5-16

●GRADING— Juneau, Alaska

Bids to be opened 9 a.m., June 11 by Bureau of Public Roads, C. F. Wyller, district engineer, room 419 Federal Bldg. (Box 1511), Juneau for grading 2.029 miles Alaska Forest Development Road No. 153, Snug Harbor, Chugach National Forest, adjacent to Alaska Forest Highway Project 5-A6,B4, Kenai River Highway. Plans with district engineer.

Quantities: 13.5 acres clearing; 9 acres grubbing; 27,000 c.y. unclassified excavation; 22,500 c.y. borrow; 3,500 c.y. pit stripping; 1,098' culvert pipe. DM 5-16

▲HIGHWAY— Juneau, Alaska

Bids received May 15 by Alaska Road Commission, room 319, Federal Bldg., Juneau, for grading, gravel base course, plantmix bituminous paving on section D1 of Richardson Highway between Paxson and Black Rapids, about mile 189 to mile 225. LOW BIDS: McLaughlin, Inc., Box 1632, Anchorage, $1,163,610; Green Construction Co., 321 Locust St., Des Moines, Iowa, $1,284,080; Rogers Construction Co. and Babler Bros., 610 C St., Anchorage, $1,437,477.

JU 5-16. Previous report 5-12

■WATER MAINS— Ketchikan, Alaska

Planholders announced for water main installations in Ketchikan; Project Aaa 50-A-210. Bids will be opened 10 a.m., June 6, by Alaska Public Works, John D. Argetsinger, acting director, Office of Territories, 123 W. 3rd St., Box 1181, Juneau.

Planholders: Empire Construction Co., Box 898, Ketchikan; Furuseth & Ekness, Box 593, Ketchikan; Scheumann & Johnson, Annette Island, Ketchikan; Empire Construction Co., 0234 S.W. Bancroft, Portland, Ore.; Scheumann & Johnson, 1001 Lloyd Bldg., Seattle; Inlet Plumbing & Heating, Box 3095, Fairview, Anchorage; City Electric of Anchorage, 2921 13th Ave. S.W., Seattle; Hallgren Co., 1252 1st Ave. S., Seattle; Beallе Pipe & Tank Corp., 12005 N. Burgard St., Portland; W. D. Burk, Box 1618, Anchorage, Century Metal Works, 7126 W. Marginal Way, Seattle; Pacific Water Works Supply, 2900 1st Ave. S., Seattle; Southern Pipe & Casing Co., Box C, Azusa, Calif.

JU 5-12. Previous report 5-1

●■STREET, SEWER, WATER SYSTEM IMPROVEMENTS— Petersburg, Alaska

Bid date extended from May 23 to 10 a.m., June 6, by Alaska Public Works, John D. Argetsinger, acting director, 123 W. 3rd St., Box 1181, Juneau, for street, sewer and water system improvements in Petersburg; Pro. Aaa 50-A-19. Specifications with above office.

Planholders: Berg Construction Co., Box 276, Juneau; Empire Construction Co., 0234 S.W. Bancroft, Portland, Ore.; Hallgren Co., 1252 1st Ave. S., Seattle; Joe Lundberg Construction Co., 3420 13th S.W., Seattle; Johns-Manville, 777 Thomas St., Seattle; Empire Construction Co., Box 898, Ketchikan; Inlet Plumbing & Heating, 642 E. "I" St., Anchorage; B-E-C-K Construction, 3627 Stone Way, Seattle; Scheumann & Johnson, 1001 Lloyd Bldg., Seattle; Pacific Water Works Supply Co., 2900 1st Ave. S., Seattle; H. D. Fowler Co., Box 3084, Seattle; Stock & Grove, Box 2051, Anchorage; Beallе Pipe & Tank, 12005 N. Burgard St., Portland; Century Metal Works, 7126 W. Marginal Way, Seattle; Stock & Grove, Box 1091, Petersburg; Manson-Osberg Co., 1132 N. 128th St., Seattle; Federal Pipe & Tank, 6851 E. Marginal Way, Seattle; Stoen Construction Co., 2210 E. 95th St., Seattle; Southern Pipe & Casing, Box C, Azusa, Calif. JU 5-12. Previous report 4-20

Advertisements for Bids

Advertisements reaching us not later than Wednesday noon will appear the same week.

THE RATE for Advertisements for Bids is 35 cents per line for the first insertion; 25 cents per line for each insertion thereafter.

ELEMENTARY SCHOOL
BIDS CLOSE 8 P.M., MAY 23
Bay Center, Washington
NOTICE TO CONTRACTORS

Sealed bids will be received by the undersigned at the Bay Center Elementary School Building, Bay Center, Washington, until 8:00 p.m. on May 23, 1956 for the construction of an elementary school building for Bay Center School District No. 22, Bay Center, Washington. The building consists of four classrooms, a book room, office, boys' and girls' toilet rooms, storage rooms, janitor and boiler room, kitchen, and multipurpose unit including stage and storage room; employing tilt-up reinforced concrete construction. Combined bids will be received for general construction, plumbing and heating, and electrical. Plans and specifications may be obtained from the office of Charles A. Baylon, Architect, 912 Elliott Avenue West, Seattle 99, Washington, upon deposit of $25.00 which sum will be returned to the bidder provided plans are returned in good condition with submitted bid, or provided plans are returned within five (5) days after issue if no bid is submitted. Plans and specifications may be examined at the office of Charles A. Baylon and Associates at the above address.

Each bid shall be accompanied by a certified check, cashier's check, or bid-bond (with authorized surety company as surety) made payable to the Bay Center School District No. 22 in an amount not less than 5% of the basic bid plus alternates. Board of Directors of Bay Center School District No. 22 reserves the right to waive any informalities or irregularities in any bid or in the bidding, or to accept or reject any or all bids. Bid opening shall be public.

No bidder may withdraw his bid after the hour set for the opening thereof or before award of the contract unless said award is delayed for a period exceeding thirty (30) days.

Edwin R. Stearns
Clerk of the Board
Bay Center School District No. 22
Bay Center, Washington

5451—5-3, 10, 17

ELEMENTARY SCHOOL
BIDS CLOSE 3 P.M., MAY 29
Enumclaw, Washington
NOTICE TO CONTRACTORS

Sealed bids will be received by Mr. Albert Bogdan, Clerk of Board of School, Enumclaw School District No. 216 at the Superintendent's office at the Enumclaw High School, 2222 Porter Street, Enumclaw, Washington, until 3 p.m., Tuesday, May 29th, 1956, for the construction of J. J. Smith Elementary School Building, Enumclaw, Washington, for School District No. 216, Enumclaw, King County, Washington, and will then and there be opened and will be publicly read aloud. Bids received after the time fixed for opening will not be considered.

Specifications, including contract documents, and drawings may be examined at the office of the Architect, William Aitken, 408 Marion Street, Seattle 4, Washington, and at the office of the Superintendent of the Enumclaw School District No. 216, at Enumclaw, Washington, and may be obtained by bona fide bidders at the Architect's office upon deposit of $25.00 for each General Work set and $10.00 for each set of Mechanical and/or Electrical Work. Contractors who hold bidding documents over forty-eight hours shall forfeit deposit if bid is not tendered.

The full amount of the deposit for one set of documents will be refunded to actual bidders upon return of the documents, unmutilated and without marks or annotations, within 3 days after the time set for opening of bids. Other deposits will be refunded with deductions for the actual cost of reproducing the documents.

Bidders shall submit proposals for the General, Plumbing and Heating, and Electrical Work separately. Each bid must be accompanied by a certified check, cashier's check, or bid bond, in an amount not less than 5% of the Base Bid, made payable to the Enumclaw School District No. 216.

The right is reserved to reject any or all bids and to waive informalities.

No bidder may withdraw his bid after the time set for the opening of bids unless the award of contract is delayed for a period exceeding 30 days.

By order of Board of Directors, Enumclaw School District No. 216, King County, Washington.

MR. ALBERT BOGDAN,
Clerk of Board.

5461—5-9, 16, 23

EARTHWORK, PIPELINES, STRUCTURES
BIDS CLOSE JUNE 21
Ephrata, Washington
NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-4691) will be received at Kennewick, Washington, until June 21, 1956, for furnishing labor and materials for Earthwork, Pipe Lines and Structures for Main Canal Laterals, Station 1325+00 to Station 2206+06.6; and Amon Pump Discharge Line and Laterals, Yakima Project, Washington. Location near Kennewick, Washington. Principal items are 39,000 cu. yds. excavation and backfill of pipe trenches; 18,500 cu. yds. excavation for laterals; 77,700 lin. ft. furnishing and laying 8- to 15-inch diameter concrete irrigation pipe; 15,000 lin. ft. furnishing and laying 12- to 24-inch diameter concrete pressure pipe; and other work. The work is divided into two schedules. Completion time 240 days. For particulars, address Bureau of Reclamation, P. O. Box 516, Kenewick, Washington; or Building 53, Denver Federal Center, Denver 2, Colorado W. A. Dexheimer, Commissioner.

5457—5-19

ELEMENTARY SCHOOL
BIDS CLOSE 2 P. M., JUNE 5
Bellevue, Washington
NOTICE TO CONTRACTORS

Separate sealed proposals will be received by Bellevue School District No. 405, King County, Washington, at the Bellevue School District Office, P. O. Box 67, Bellevue, Washington, until 2:00 P. M., June 5, 1956, for the General, Mechanical and Electrical contracts (separate contracts), for the construction of a new Highland Elementary School, and the said proposals will then and there be publicly opened and read aloud. Bids received after the time set for opening cannot be considered.

Specifications and drawings may be examined at the office of the Architects, Jones and Bindon, 715 Hoge Building, Seattle 4, Washington, and at the Seattle Chapter, Associated General Contractors of America, 215 West Harrison Street, Seattle, and may be obtained at the Architects' office upon deposit of $25.00 for each set of general drawings and specifications and $15.00 for each set of mechanical or electrical drawings and specifications.

The full amount of deposit for one set of documents will be refunded to actual prime contract bidders upon return of the documents, unmutilated and without marks or annotations, within one week after the date of the bid opening. Other deposits will be refunded with deductions for the actual cost of reproducing the drawings, under the same conditions.

Each bid must be accompanied by a certified or bank cashier's check, or by a bid bond, each in an amount not less than 5% of the Base Bid, made payable to Bellevue School District No. 405, King County, Washington. Bid bond must be furnished in the form set forth in the specifications with a State-licensed surety company as surety.

Attention of bidders is directed to State laws concerning wages, working hours, and other conditions of employment.

The Board of Directors reserves the right to reject any or all bids and to waive informalities. No bidder may withdraw his bid after the hour set for the opeing thereof unless and until the award of contract has been delayed for a period exceeding forty-five (45) days.

By GEORGE B. BRAIN,
Superintendent.
Bellevue School District No. 405,
Bellevue, Washington.

5474—5-16, 23, 29

STATE HIGHWAY PROJECTS
BIDS CLOSE 10 A.M., MAY 29
Olympia, Washington
NOTICE TO CONTRACTORS

Sealed bids will be received by the Washington State Highway Commission at Olympia, Washington, on Tuesday, May 29, 1956, until 10:00 A.M. for the construction of the following improvements and will then and there be opened and publicly read:

1. Clearing, Draining, Grading, Surfacing, Constructing a Cement Treated Base and Paving with Type I-1 Aspshaltic Concrete on 3.980 miles of Primary State Highway No. 5 in Lewis County, ETHEL TO SALKUM, FAP No. F-016-1(6), involving about 27,200 cubic yards of Common Excavation, 63,400 tons of Selected Roadway Borrow, 47,600 tons of Crushed Stone Surfacing and Crushed Cover Stone, 10,475 tons of Aspshaltic Concrete, 84 tons of Asphalt Cement, 770 cubic yards of Mineral Aggregate, 5,850 tons of CTB Aggregate, 1,575 barrels of Portland Cement, 921 linear feet of Concrete Pipe, 106 Guide Posts and other items.
2. Clearing, Draining, Grading, Surfacing with Light Bituminous Surface Treatment and Paving with Type I-1 Asphaltic Concrete on 4.386 miles of Secondary State Highway No. 15-B in Snohomish County, KING COUNTY LINE TO HASKELL'S SLOUGH, FAS No. S-0225(3) Unit 2, involving about 38 acres of Clearing, 189,170 cubic yards of Common Excavation and Borrow, 1,600 cubic yards of Solid Rock Excavation, 32,400 units of Overhaul, 40,000 tons of Selected Roadway Borrow, 14,330 tons of Crushed Stone Surfacing, 181 tons of Asphalt Cement, 1,560 cubic yards of Crushed Cover Stone and Mineral Aggregates, 10,480 tons of Asphaltic Concrete, 3,620 linear feet of Asphaltic Concrete Curb, 240 cubic yards of Concrete, 46,240 pounds of Steel Reinforcing Bars, 3,474 linear feet of Concrete Pipe, 635 linear feet of Corrugated Metal Pipe, 405 linear feet of Iron Pipe, 1,577 linear feet of Beam Guard Rail (State Furnished), 149 Guide Posts, 30 cubic yards of Riprap and other items.
3. Surfacing with Light Bituminous Surface Treatment and Stockpiling Ballast, Crushed Stone Surfacing, Maintenance Rock and Mineral Aggregates on 5.751 miles of Secondary State Highway No. 1-Q in Lewis and Cowlitz Counties, KNAB VICINITY TO CEDAR CREEK

AND JCT. SSH NO. 1-R TO LEWIS COUNTY LINE, FAS No. S-0258(3) and State Project, involving about 38,990 tons of Selected Roadway Borrow, 46,280 tons of Crushed Stone Surfacing, Crushed Cover Stone Maintenance Rock and Mineral Aggregates, 172 tons of Asphalt Cement, 72 linear feet of Concrete Pipe and other items.

4. Surfacing with Light Bituminous Surface Treatment and Paving with Type I-1 Asphaltic Concrete on 17.194 miles of Primary State Highways Nos. 10 and 2 in Douglas and Okanogan Counties, TONASKET TO ELLISFORD, ET AL, FAP Nos. F-029-2(11), F-028-2(5), F-030-1(11) and State Project, involving about 12,970 tons of Crushed Stone Surfacing and Crushed Cover Stone, 526 tons of Asphaltic Cement, 12,290 tons of Asphaltic Concrete and other items.
5. Draining, Grading, Surfacing, Paving with Type I-1 Asphaltic Concrete and Constructing a Reinforced Concrete Box Girder Bridge on 0.044 miles of Primary State Highway No. 14 in Kitsap County, OLD PSH NO. 14 OVERCROSSING, FAP No. F-009-1(4), involving about 300 cubic yards of Common Excavation, 160 cubic yards of Selected Roadway Borrow, 5 cubic yards of Crushed Stone Surfacing, 80 tons of Asphaltic Concrete, 30 linear feet of Corrugated Metal Pipe, 13 Guide Posts, 785 cubic yards of Concrete, 185,000 pounds of Steel Reinforcing Bars, 4,000 linear feet of Concrete Piling and other items.
6. Draining, Grading and Surfacing with Crushed Stone on 5.034 miles of a Lincoln County Road, ADAMS COUNTY LINE NORTH ROAD, FAS No. S-0723 (3), involving about 74,190 cubic yards of Common Excavation and Borrow, 49,000 tons of Crushed Stone Surfacing and Crushed Cover Stone, 500 tons of Sand, 923 linear feet of Corrugated Metal Pipe, 56 linear feet of Corrugated Metal Structural Plate Pipe-arch and other items.
7. Surfacing with Light Bituminous Surface Treatment on 6.390 miles of a Douglas County Road, LEAHY NORTH ROAD, FAS No. S-1125(1), involving about 10,400 cubic yards of Selected Roadway Borrow, 8,500 cubic yards of Crushed Stone Surfacing and Crushed Cover Stone, 260 tons of Asphalt Cement and other items.
8. Clearing, Draining, Grading, and Surfacing with Selected Roadway Borrow on 5.236 miles of an Okanogan County Road, TWISP RIVER ROAD, FAS No. S-1149(1), involving about 77,950 cubic yards of Unclassified Excavation, 17,280 cubic yards of Selected Roadway Borrow, 34 cubic yards of Concrete, 3,000 pounds of Steel Reinforcing Bars, 465 linear feet of Steel Pipe, 1,240 linear feet of Corrugated Metal Pipe, 6 linear feet of Concrete Pipe, 170 cubic yards of Riprap and other items.
9. Draining and Grading on 3.559 miles of an Okanogan County Road, SALMON CREEK ROAD, FAS No. S-1145(1), involving about 53,530 cubic yards of Unclassified Excavation, 60 linear feet of Corrugated Structural Plate Pipe-arch, 16 linear feet of Corrugated Metal Pipe, 930 linear feet of Concrete Pipe and other items.
10. Clearing, Draining and Grading for Shoulder Widening on 1.761 miles of an Okanogan County Road, CHESAW ROAD, FAS No. S-0495(3), involving about 20,200 cubic yards of Unclassified Excavation, 27 linear feet of Concrete Pipe, 702 linear feet of Corrugated Metal Pipe and other items.
11. Draining, Grading, Surfacing, Paving with Type I-1 Asphaltic Concrete and Stockpiling Crushed Stone Surfacing, Maintenance Rock and Mineral Aggregates on 0.577 mile of State Highways Nos. 5 and 5-K in Lewis County, TOWN OF MORTON, a State Project, involving about 2,700 cubic yards of Common Excavation, 32,420 tons of Crushed Stone Surfacing, Ballast, Maintenance Rock and Mineral Aggregates, 2,010 tons of Asphaltic Concrete, 110 cubic yards of Mineral Aggregates, 13 tons of Asphalt Cement, 3,381 linear feet of Cement Concrete Curb and Gutter, 5 cubic yards of Concrete, 5,450 linear feet of Concrete Pipe, 30 linear feet of Iron Pipe, 806 square yards of Cement Concrete Sidewalk and Driveway and other items.
12. Grading, Surfacing, Constructing a Cement Treated Base and Paving with Type I-1 Asphaltic Concrete on 1.784 miles of Primary State Highways Nos. 1 and 9 in Thurston County, STATE AVENUE IN OLYMPIA, ET AL, a State Project, involving about 6,800 cubic yards of Unclassified Excavation, 4,650 cubic yards of Selected Roadway Borrow, 120 cubic yards of Crushed Stone Surfacing, 8,300 tons of Asphaltic Concrete, 39 tons of Asphalt Cement, 1,500 barrels of Portland Cement, 7,250 tons of CTB Aggregate and other items.
13. Surfacing with Light Bituminuos Surface Treatment and Stockpiling Mineral Aggregates on 10.038 miles of Primary State Highway No. 3 in Asotin County, ROCKY HOLLOW TO TOP OF ASOTIN HILL, a State Project, involving about 102,465 tons of Crushed Stone Surfacing, Ballast, Maintenance Rock, Crushed Cover Stone and Mineral Aggregates, 323 tons of Asphalt Cement and other items.
14. Stockpiling Maintenance Rock and Mineral Aggregates on State Highways Nos. 2, 10 and 10-B in Douglas County, PINE CANYON TO DOUGLAS, ET AL, a State Project, involving about 5,165 cubic yards of Stripping Borrow and Surfacing Pits and 55,945 tons of Crushed Materials.
15. Cleaning and Painting CHEHALIS RIVER BRIDGE NO 13/1 on Primary State Highway No. 13 in Grays Harbor County, a State Project, involving a lump sum bid for the Entire Improvement.
16. Constructing an Office and Shop Building in Lincoln County, OFFICE AND SHOP BUILDING IN DAVENPORT, a State Project, involving a lump sum bid for the Entire Improvement.

Federal funds have been allocated for items nos. 1 to 10 inclusive.

All bid proposals shall be accompanied by a bid proposal deposit in cash, certified check, cashier's check or surety bond in an amount equal to five per cent (5%) of the amount of such bid proposal. Should the successful bidder fail to enter into such contract and furnish satisfactory performance bond within the time stated in the specifications, the bid proposal deposit shall be forfeited to the State of Washington.

Prequalification of bidders is required. Maps, plans and specifications may be obtained from this office upon written request therefor and payment to the Director of Highways by cash, certified check, cashier's check or money order in the sum of two dollars ($2.00) for each copy of such maps, plans and specifications as a rental for the use of them. Plans will be forwarded by First Class Mail.

Information copies of maps, plans and specifications are on file in the office of the County Engineer of the County in which the work is situated, the Chapter offices of the Associated General Contractors of America in Seattle, Spokane, Tacoma and Portland and the offices of the District Engineers of the Department of Highways where they may be inspected.

E. C. HUNTLEY, Chairman
W. A. BUGGE, Director of Highways

5464—5-12, 19

ELEMENTARY SCHOOL ADDITION
BIDS TO BE RECEIVED UNTIL 5 P.M. OPENED AT 8 P.M., MAY 29
Spokane, Washington
NOTICE TO CONTRACTORS

Sealed bids will be received by F. A. Long, Architect until 5:00 P.M., May 29, 1956, for the construction of the Otis Orchards Elementary School Addition, and will be publicly opened and read aloud at 8:00 P.M. same date at the Otis Orchards Primary School. Bids received after 5:00 P.M. will not be considered.

Work will be awarded under General Construction, Plumbing and Heating, and Electrical.

Plans and Specifications and forms of Contract Documents may be examined at the office of the Architect, Frederic A. Long, 500 Columbia Building, Spokane, and a set of said documents may be obtained at the office of the Architect upon a deposit of $25.00.

Each bid shall be accompanied by a Certified Check, Cashiers Check, or Bid Bond made payable to Otis Orchards School District No. 348, for five percent of the amount of the Bid.

School District No. 348 reserves the right to reject any or all bids and to waive informalities.

No bidder may withdraw his bid after 5:00 P.M., May 29, 1956, or before award of Contract unless said award is delayed for a period exceeding thirty days.

By order of the Board of Directors.

Charles H. Stafford
Clerk

5467—5-12, 15, 22

GRADING, DRAINAGE, BITUMINOUS SURFACING
BIDS CLOSE 11 A. M., JUNE 5
Juneau, Alaska
NOTICE TO CONTRACTORS

SEALED BIDS, in single copy for furnishing all labor, equipment, and materials and performing all work for the project described herein will be received until 11:00 a.m., June 5, 1956, in Room 319, Alaska Road Commission Offices, Federal Building, Juneau, Alaska, and then publicly opened.

Plans and specifications for the project may be obtained from the Alaska Road Commission, P. O. Box 1961, Juneau, Alaska. Plans should be returned to the Alaska Road Commission District Office, Anchorage, Alaska. No deposit will be required, but if plans are not returned in good condition within thirty days after date of bid opening, the planholder will be billed for the actual cost of the plans.

A guarantee of not less than five percent (5%) of the total amount bid will be required with each bid.

Grading, drainage and bituminous surfacing of 29.28 miles of the Sterling Highway. Principal items of work include 1,143,000 cu. yds. Unclassfied Excavation, 466,000 cu. yds. Unclassified Excavation for Borrow, 117,000 ton crushed gravel base course, 37,200 ton Class F Pavement Plant Mixture.

Work shall be started within 30 calendar days after date of receipt of Notice to Proceed and shall be completed within 476 calendar days after date of Notice to Proceed.

The attention of bidders is directed to the invitation for bids by the Department of Commerce, Bureau of Public Roads, Juneau, Alaska, for the construction of Alaska Forest Highways Project 5-A6, B4, Kenai River Highway, to be opened at the same time and place as bids for Sterling Highway, Section B2. Bid invitation for both projects provide for offering a percentage or lump sum reduction in the total amounts to be paid under each contract if both contracts are awarded to the same bidder. Bidders are invited to execute the certificates on the bid schedules providing for such reduction, but no bid will be rejected solely for failure to do so. Information concerning Bureau of Public Roads Alaska Forest Highways Project 5-A6, B4, may be secured from Mr. Chr. F. Wyler, District Engineer, Bureau of Public Roads, P. O. Box 1511, Juneau, Alaska.

A. F. Ghiglione
Director

5462—5-12, 19

WATER SUPPLY
BIDS CLOSE 10 A.M., P.S.T., JUNE 6
Ketchikan, Alaska
NOTICE TO CONTRACTORS

Project Aaa. 50-A-210, Water Supply Unit 2, Ketchikan, Alaska, April 25, 1956. Name and location of project, Water Supply, Project Aaa. 50-A-210, Unit 2, Ketchikan, Alaska Department or Agency, Alaska Public Works, Office of Territories, Department of the Interior, by (Issuing office) John D. Argetsinger, Acting Director, Alaska Public Works, Office of Territories, Department of the Interior, Post Office Box 1181, Juneau, Alaska. Sealed bids in single copy for furnishing all labor, equipment, and materials and performing all work for the project

described herein will be received until 10:00 A.M. Pacific Standard Time June 6, 1956 in the mailroom of the office of the Acting Director, Alaska Public Works, Office of Territories, Department of the Interior, 123 West Third Street, P. O. Box 1181, Juneau, Alaska, and then publicly opened and read aloud. Information regarding bidding material, bid guarantee, and bonds follows:

Plans and specifications and other proposed contract documents are open for public inspection at the Acting Director's office, Juneau, Alaska; at Room 2723, Interior Bldg., Washington 25, D. C.; at the Area Engineer's office, Alaska Public Works, Room 309 Federal Bldg., Ketchikan, Alaska; and Associated General Contractors of America offices as follows: Seattle Chapter, Construction Center, 215 West Harrison St., Seattle, Wash.; Mountain Chapter, 220 W. Harrison St., Seattle, Wash.; Tacoma Chapter, 452 St. Helens Ave., Tacoma, Wash.; Portland Chapter, Suite 112, Multnomah Hotel, Portland, Oregon; Alaska Chapter, 306 Central Building, Anchorage, Alaska also the Plan Bureau, 2413 Western Ave., Seattle, Wash.; and the Builders Exchange Cooperative, 317 Builders Exchange Bldg., Portland, Oregon. A set of such documents may be procured from the office of the Acting Director at Juneau, Alaska, upon deposit of $25.00, all of which will be refunded upon the return of the plans and specifications in good condition **within** twenty (20) days from date of bid opening. Each bid must be accompanied by a satisfactory bid security (certified check or bid bond) in an amount not less than 5 percent of the total bid in dollars and cents. No bid will be withdrawn until thirty days after the scheduled closing date for the receipt of bid. The successful bidder will be required to furnish a performance bond and payment bond, each in the amount of 100 per cent of the contract price. The Government reserves the right to award a contract for the project on the basis of the acceptance of any or all of the alternates, whichever course is in the best interest of the Government.

DESCRIPTION: Project Aaa. 50-A-210, Unit 2, Water Supply, Ketchikan, Alaska. Water main installations in the City of Ketchikan, Alaska, including 372 L.F. 4" pipe, 1917 L.F. of 6" pipe, 460 L.F. of 10" pipe, 1826 L.F. of 16" pipe, four fire hydrants, valves, fittings and other necessary appurtenances. Alternates are provided for steel, cast iron, and asbestos cement pipe. Information regarding liquidated damages (if any), payments, etc., is attached or made a part of the specifications. Bids shall be submitted on the forms furnished or copies thereof.

5452—5-5, 12, 19

HOUSING, MAINTENANCE FACILITIES

BIDS CLOSE 10 A.M., MAY 29

Olympia, Washington

NOTICE TO CONTRACTORS

Sealed bids will be received by the Washington State Highway Commission at Olympia, Washington, on Tuesday, May 29, 1956, until 10:00 A.M., for the construction of the following improvement and will then and there be opened and publicly read:

1. Constructing Duplex Housing Units and Maintenance Facilities for District No. 3, a State Project, consisting of five base bids as follows:

BASE BID No. 1

Constructing Duplex Housing Units and/or Maintenance Facilities in AMANDA PARK, KALALOCH, FORKS and POTLATCH in Grays Harbor, Jefferson, Clallam and Mason Counties, respectively.

BASE BID No. 2

Constructing a Duplex Housing Unit and Maintenance Shed at AMANDA PARK in Grays Harbor County, and/or

BASE BID No. 3

Constructing a Duplex Housing Unit and Maintenance Shed at KALALOCH in Jefferson County, and/or

BASE BID No. 4

Constructing a Maintenance Shed at FORKS in Clallam County, and/or

BASE BID No. 5

Constructing a Maintenance Shed at POTLATCH in Mason County.

All work for this improvement is combined into one set of plans and specifications which contains a common proposal.

Bidders who are satisfactorily prequalified shall have the option of submittting proposals on any one or all of the base bids, except that when submitting a proposal on Base Bid No. 1 a bidder may also submit proposals on Base Bids Nos. 2 to 5, inclusive. The Director of Highways reserves the right to accept or reject the lowest bid on each base bid which gives the lowest total cost to the State.

Prequalification of bidders is required. Plans and specifications may be obtained from this office upon written request therefor and payment to the Director of Highways by cash, certified check, cashier's check or money order in the sum of two dollars ($2.00) for each such set of plans and specifications as a rental for the use of them. Plans will be forwarded by first class mail.

Bidders who may not be prequalified in sufficient amount to bid on the entire improvement, namely Base Bid No. 1, shall indicate in their application for plans and specifications the particular section or sections upon which they desire to bid.

Each bid proposal shall be accompanied by a bid proposal deposit in cash, certified check, cashier's check or surety bond in an amount equal to five percent (5%) of the total of Base Bid No. 1 or of any combination of Base Bids Nos. 2 to 5, whichever is the greater. Should a successful bidder fail to enter into such a contract and furnish a satisfactory performance bond within the time stated in the specifications, the bid proposal deposit shall be forfeited to the State of Washington.

Informational copies of plans and specifications are on file in the Chapter Offices of the Associated General Contractors of America in Seattle, Tacoma and Portland, Oregon and the office of the District Engineer of the Department of Highways in Olympia where they may be inspected.

E. C. HUNTLEY, Chairman
W. A. BUGGE, Director

5463—5-12, 19

CONSTRUCTION, REPAIR TIMBER BRIDGES

BIDS CLOSE MAY 29

Lindsay, California

NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-4684) will be received at Lindsay, California until May 29, 1956, for furnishing labor and materials for Construction of Timber Operating Bridge, Station 3607+00 and Repair and Reconstruction of Timber Operating Bridges, Station 3769+68.60 and Station 5165+80, Friant-Kern Canal, Central Valley Project, California. Location near Tulare, California. Principal items are 100 cu. yds. excavation; 1,970 lin. ft. furnishing and driving timber piles; 3.9 Mbm furnishing and erecting treated timbers in structures; 109.0 Mbm furnishing and erecting untreated timbers in structures; and other work. Completion time 150 days. For particulars, address Bureau of Reclamation, P. O. Box 2511, Sacramento 11, California; or Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.

5448—5-5

SCHOOL BUILDING

BIDS CLOSE 8 P.M., MAY 29

Seattle, Washington

NOTICE TO CONTRACTORS

Separate sealed proposals will be received by Shoreline School District No. 412, King County, Washington, at the Shoreline School District Office East 158th Street and 20th Avenue N.E., Seattle 55, Washington, until 8:00 P.M., May 29, 1956, for the General, Mechanical, and Electrical contracts (separate contracts), for the construction of a new Meridian Elementary School, and the said proposals will then and there be publicly opened and read aloud. Bids received after the time set for opening cannot be considered.

Specifications and drawings may be examined at the office of the Architects, Jones and Bindon, 715 Hoge Building, Seattle 4, Washington, and at the Seattle Chapter, Associated General Contractors of America, 215 West Harrison Street, Seattle, and may be obtained at the Architects' office upon deposit of $25.00 for each set of general drawings and specifications and $15.00 for each set of mechanical or elctrical drawings and specifications.

The full amount of deposit for **one set** of documents will be refunded to **actual** prime contract bidders upon return of the documents, unmutilated and without marks or annotations, within one week after the date of the bid opening. Other deposits will be refunded with deductions for the actual cost of reproducing the drawings, under the same conditions.

Each bid must be accompanied by a certified or bank cashier's check, or by a bid bond, each in an amount not less than 5% of the Base Bid, made payable to Shoreline School District No. 412, King County, Washington, bid bond must be furnished in the form set forth in the specifications with a State-licensed surety company as surety.

Attention of bidders is directed to State laws concerning wages, working hours, and other conditions of employment.

The Board of Directors reserves the right to reject any or all bids, and to waive informalities. No bidder may withdraw his bid after the hour set for the opening thereof, unless and until the award of contract has been delayed for a period exceeding thirty (30) days.

By Myron Ernst, Secretary
Shoreline School District No. 412
East 158th Street and 20th Ave. N.E.
Seattle 55, Washington

5454—5-8, 15, 22

STATE HIGHWAY PROJECTS

BIDS CLOSE 9:30 A.M., JUNE 4

Helena, Montana

NOTICE TO CONTRACTORS

Sealed bids on the following projects will be received by the Montana Highway Commission at the offices of said Commission in the City of Helena until 9:30 A.M., on June 4, 1956. The proposals will be publicly opened and read immediately thereafter.

1. **F 64(9)U2, F 148(6)U2 & F 155(7)U2, F 211 (11)U2 & F 220 (6)U2, F 69(10)U2 & F 248 (11)U2, F 264(5)U2** Seal coat oiling of 50.701 miles on various roads.

F 64(9)U2—Great Falls-Armington Road in Cascade County. This portion of the project is under the supervision of Ben B. Briscoe, Division Construction Engineer at Great Falls.

F 148(6)U2 & F 155(7)U2—The Saco East and Glasgow West Road in Valley County. This portion of the project is under the supervision of Gerald Flemming, Division Construction Engineer at Wolf Point.

F 211(11)U2—The Dutton Southeast section of the Vaughn-Conrad Road in Cascade and Teton Counties. This portion of the project is under the supervision of Ben B. Briscoe, Division Construction Engineer at Great Falls.

F 220(6)U2—The Cut Bank East and West Road in Glacier County. This portion of the project is under the supervision of A. G. Middleton at Havre.

F 69(10)U2 & F 248(11)U2—The Whitehall Section of the Pipestone Pass-Whitehall and the Three Forks-Whitehall Roads in Jefferson County. This portion of the project is under the supervision of Lewis M. Chittim, Division Construction Engineer at Butte, Montana.

F 264(5)U2—The Townsend-White Sulphur Springs Road in Broadwater and Meagher Counties. This portion of the project is under the supervision of Glenn Learn, Division Construction Engineer at Lewistown.

This work involves about 9,908 tons hauling and placing cover material; 224,959 gals. MC-5 Liquid Asphalt; 308 hours watering; 386 units rolling, and other items. Project to be completed by September 15, 1956.

2. **I-FI 188(7)U2, & I-IN 212(12) U2**—Construction of two 156.0' steel and concrete bridges over the Little Big Horn River on the Crow Agency Hardin & Wyoming Line-Crow Agency Road in Big Horn County, involving about 156,834 lbs. reinforcing steel; 838.4 cu. yds. concrete; 619.0 lin. ft. steel bridge rail; 720 cu. yds. structure excavation; 2,040 cu. yds. unclassified excavation;

60,480 lbs. furnishing steel bearing piles; 783 lin. ft. driving steel bearing piles, and other items. Project to be completed by July 31, 1957.

3. **F 191(16)U2**—Construction of a 82.0' steel and concrete bridge over Pablo Feeder Canal on the Polson-South section of the Pablo-Kalispell road in Lake County, involving about 40,042 lbs. reinforcing steel; 153.9 cu. yds. concrete; 160.46 lin. ft. steel bridge rail, and 16 each 25' concrete piles. Project to be completed by October 31, 1956.

4. **U 230(6) & U 386(4)**—Grading, gravel surfacing, plant mix oiling and drain about 0.598 mile on the Billings East Road and 0.705 mile on the First Avenue South North 13th Street and Fourth Ave. North-Billings Road both in Yellowstone County, involving about 38,559 cu. yds. unclassified excavation; 7,655 tons plant mix bituminous surfacing; 53,256 tons crushed gravel; 1,217 M gals. watering; 292 units rolling; 111,705 gals. 100-120 Penetration Asphalt Cement; 15,395 gals. MC-1 liquid asphalt; 12,391.2 lin. ft. concrete integral curb and gutter; 1418.6 lin. ft. special concrete curb; 4,820.0 lin ft. new concrete sewer pipe, and other items. Project to be completed by September 15, 1957.

5. **F 333(17)**—Grading, gravel surfacing and drain 11.279 miles on the Grass Range-Malta Road in Phillips County, involving about 912.837 cu. yds. unclassified excavation; 1,755 cu. yds. gravel backfill; 37,318 mi. yds. overhaul; 1,906 cu. yds. binder; 3,812 mi. yds. overhaul on binder; 81,292 tons crushed gravel; 15,270 M. gals. watering; 2,225 units rolling; 2,502 lin. ft. corrugated metal pipe culverts; 1,718 lin. ft. structural plate pipe arch culverts, and other items. Project to be completed in 290 calendar days.

6. **F 391(3)**—Grading, gravel surfacing, bituminous surface treatment and drain 10.781 miles on the Lane-Lambert section of the Circle-Sidney road in Richland County, involving about 496,730 cu. yds. unclassified excavation; 30,817 mi. yds. overhaul; 35,283 tons crushed gravel; 154,676 tons selected borrow base course (uncrushed); 64,201 gals. MC-2 liquid asphalt; 64,201 gals. RS-2 emulsified asphalt; 11,190 M gals. watering; 1,900 units rolling; 2,895 lin. ft. corrugated metal pipe culverts; 974 lin. ft. structural plate pipe culverts, and other items. Project to be completed by September 15, 1957.

7. **S 94(3)**—Grading, gravel surfacing, and drain 7.628 miles on the Chester Northwest Road in Liberty County, involving about 85,328 cu. yds. unclassified excavation; 1,865 mi. yds. overhaul; 196 cu. yds. gravel backfill; 18,981 cu. yds. selected borrow base course (uncrushed); 27,367 tons crushed gravel; 910 cu. yds. binder; 1,825 mi. yds. overhaul on binder; 2,190 M gals. watering; 1,250 lin. ft. corrugated metal pipe culverts, and other items. Projects to be completed by October 31, 1956.

8. **S-174(2)**—Grading, gravel surfacing and drain 4.878 miles on the Judith Gap-East Road in Wheatland County, involving about 215,484 cu. yds. unclassified excavation; 327 cu. yds. gravel backfill; 22,498 mi. yds. overhaul; 31,138 tons crushed gravel; 664 cu. yds. binder; 1,328 mi. yds. overhaul on binder; 3,835 M. Gals. watering; 1,306 lin. ft. reinforced concrete pipe culverts; 351 lin. ft. structural plate pipe culverts, and other items. Project to be completed by October 31, 1956.

9. **S 188(1)**—Grading, gravel surfacing, and drain 10.395 miles on the Galata North Road in Toole County, involving about 115,407 cu. yds. unclassified excavation; 54 cu. yds. gravel backfill; 4,191 mi. yds. overhaul; 45,-932 tons crushed gravel; 2,620 M gals. watering; 1,415 cu. yds. binder; 2,830 mi. yds. overhaul on binder; 2,056 lin. ft. corrugated metal pipe culverts; 60 lin. ft. structural plate pipe culverts, and other items. Project to be completed in 150 calendar days.

10. **S 190(2) U1**—Grading, gravel surfacing, and drain 5.000 miles on the Presserville-Girard-Fairview Road in McCone County, involving about 128,822 cu. yds. unclassified excavation; 54 cu. yds. gravel backfill; 5,488 mi. yds. overhaul; 29,093 tons crushed gravel; 2,500 M. Gals. watering; 145 units rolling; 672 cu. yds. binder; 1,344 mi. yds. overhaul on binder; 832 lin. ft. corrugated metal pipe culverts; 60 lin. ft. structural plate pipe culverts, and other items. Project to be completed by October 31, 1956.

11. **S 289(4) U2**—Construction of one 110.0' steel and concrete bridge over Rosebud Creek near Roscoe on the Red Lodge-Columbus road, in Carbon County, involving about 48,108 lbs. reinforcing steel, 247.3 cu. yds. concrete; 217.34 lin. ft. steel bridge rail; 195 cu. yds. structure excavation; 430 cu. yds. unclassified excavation. Project to be completed by October 31, 1956.

The above listed quantities are approximate only.

All bid proposals shall be accompanied by a certified or cashier's check, cash, postal money order, bank money order, or bid bond in the amount of at least 5% of the bid. Should the successful bidder fail to enter into his contract and furnish a satisfactory performance bond within the time stated in his proposal, the bid deposit shall be forfeited to the State Highway Commission of Montana.

Prequalification of bidders at least 72 hours prior to the opening of bids is required.

Plans, specifications, forms of contract and bond, proposal blanks, and full instructions are on file for examination and may be obtained at the offices of the State Highway Commission in Helena, Montana. Plans and specifications for all Federal Aid Projects are also on file and may be examined in the office of the Bureau of Public Roads at Missoula.

Frank G. Connelly, Chairman
Scott P. Hart, State Highway Engineer

5466—5-19, 26

CONSTRUCTION MATERIALS
BIDS CLOSE 10:30 A. M., MAY 22
Suntrana, Alaska
NOTICE TO CONTRACTORS

The Department of Education, Territory of Alaska, Juneau, Alaska, announces the invitation to bid on the furnishing of construction materials for school building at Suntrana, Alaska.

Interested bidders may obtain specifications and bid forms at room 318, Alaska Office Building, or by writing to Box 1841, Juneau, Alaska.

Sealed bids will be received until 10:30 A. M., May 22, 1956, and then publicly opened.

The right is reserved to reject any and all bids.

Don M. Dafoe,
Commissioner of Education.

5456—5-4, 8, 15

DAM AND ACCESS ROAD
BIDS CLOSE JUNE 1
Santa Maria, California
NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-4676) will be received at Santa Maria, California, until June 1, 1956, for furnishing labor and materials for Vaquero Dam and Access Road, Santa Maria Project, California. Location near Santa Maria, California. Principal items are 7,150,000 cu. yds. excavation; 5,400,000 cu. yds. embankment; 23,600 cu. yds. concrete; and other work. Completion time 900 days. For particulars, address Bureau of Reclamation, Santa Maria, California; or Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.

5444—5-5

RAILROAD AND HIGHWAY SIPHON
BIDS CLOSE MAY 28
Red Bluff, California
NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-4688) will be received at Red Bluff, California, until May 28, 1956, for furnishing labor and materials for Railroad and Highway Siphon, Corning Canal, Station 34+93 to Station 39+50, Sacramento Canals Unit, Central Valley Project, California. Location near Red Bluff, California. Principal items are 17,000 cu. yds. excavation; 211 cu. yds. concrete; 235 lin. ft. 102-inch concrete pipe; 83 lin. ft. tunnel, 132-inch steel-plate lined; and other work. Completion time 180 days. For particulars, address Bureau of Reclamation, P. O. Box 752, Red Bluff, California; or Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.

5446—5-5

EARTHWORK, STRUCTURES
BIDS CLOSE JUNE 14
Ephrata, Washington
NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-4696) will be received at Ephrata, Washington, until June 14, 1956, for furnishing labor and materials for Earthwork, and Structures for EL68D Wasteway Drainage System, East Low Canal Wasteways, Columbia Basin Project, Washington. Location near Othello, Washington. Principal items are 220,000 cu. yds. excavation; 117,300 cu. yds. compacting embankments and backfill; 7,160 cu. yds. riprap and rock backfill; 1,140 cu. yds. concrete in structures; and other work. Completion time 230 days. For particulars, address Bureau of Reclamation, P. O. Box 368, Ephrata, Washington; or Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.

5465—5-19

SCHOOL ADDITION
BIDS CLOSE 8 P. M., MAY 23
Silverdale, Washington
NOTICE TO CONTRACTORS

General construction; plumbing, heating and ventilation; and electrical work.

Sealed bids will be received by the Board of Directors, Central Kitsap School District No. 401, at Silverdale, Washington, in the school district office at Silverdale, Washington, until May 23, 1956, 8:00 P. M., for the construction of an **addition to Silverdale Elementary School** and will be then publicly opened and read aloud. Bids received after the time fixed for opening cannot be considered. Project aided by State of Washington. Project 145-15-3057.

Specifications, including contract documents and drawings may be examined at the office of the architect, Branch & Branch, 2616 East 11th Street, Bremerton, Washington, and at the various plan depositories and at the office of the school district at Silverdale, Washington, and may be obtained at the architect's office upon deposit of $25 for each set.

The full amount of the deposit for one set of documents will be refunded to actual bidders upon return of the documents, unmutilated and without marks or annotations, or within 5 days after receiving documents.

Each bid must be accompanied by a certified check, cashier's check or bid bond not less than 5 per cent of the base bid, made payable to Central Kitsap School District No. 401.

The right is reserved to reject any or all bids and to waive informalities.

No bidder may withdraw his bid after the time set for the opening thereof, unless the award of contract is delayed for a period exceeding 30 days.

By order of:
RUTH J. STERNEMAN
Clerk
Central Kitsap School District No. 401
Silverdale, Washington

5449—5-1, 8, 15

GRADING
BIDS CLOSE 9 A. M., JUNE 11
Juneau, Alaska
NOTICE TO CONTRACTORS

DEPARTMENT OF COMMERCE, BUREAU OF PUBLIC ROADS, May 14, 1956. SEALED BIDS will be received at the office of Chr. F. Wyller, District Engineer, Bureau of Public Roads, Room 419, Federal Building, P. O. Box 1511, Juneau, Alaska, until 9 A. M. on June 11, 1956, and then publicly opened for furnishing the materials and performing the work for constructing 2.029 miles Grading, Alaska Forest Development Road No. 153, Snug Harbor, Chugach National Forest, Third Judicial Division, Territory of Alaska, located adjacent Alaska Forest Highway Project 5-A6, B4, Kenai River Highway, involving 13.5 acres clearing, 9 acres grubbing, 27,000 C.Y. excavation unclassified, 22,500 C.Y. Borrow, 3500 C.Y. pit stripping, 1098 lin. ft. culvert pipe and other small

items. Plans and specifications may be examined on or after May 21, 1956, at the Bureau of Public Roads, 419 Federal Building, Juneau, Alaska; Bureau of Public Roads, Seward, Alaska; Associated General Contractors of America, Multnomah Hotel, Portland, Oregon; Associated General Contractors of America, 304-306 Central Building, Anchorage, Alaska; or Associated General Contractors of America, 220 W. Harrison Street, Seattle, Washington. Plans, proposal forms and specifications will be furnished to any bona fide or previously qualified contractor on or after May 21, 1956, by the District Engineer, Room 419 Federal Building, P. O. Box 1511, Juneau, Alaska, upon request. Chr. F. Wyller, District Engineer.

5473—5-15, 22, 29

MULTIPURPOSE BUILDING, ALTERATIONS

BIDS CLOSE 8 P. M., P.S.T., MAY 29

Sultan, Washington

NOTICE TO CONTRACTORS

Notice is hereby given that the Sultan School District No. 314 will receive sealed bids up to 8 P. M., P.S.T., May 29, at Sultan Elementary School on Date Street, Sultan, Washington, at which time all bids will then and there be opened and publicly read aloud for the Sultan Elementary School multipurpose building and alterations.

Each bid shall be in accordance with the plans, specifications, and other contract documents now on file with Ralph Burkhard, architect, 2120 S.W. 152nd Street, Seattle 66, Washington, where copies may be obtained upon furnishing a deposit of $50.00 for each set. Deposit will be refunded upon the return of plans and specifications in good condition on the above date.

Each bid shall be made out on a bid form to be obtained from the architect.

Each bid must be accompanied by a certified check, Cashier's Check, or a satisfactory bid bond in favor of Sultan School District No. 314 executed by the bidder and a surety company in an amount equal to 5 per cent of the bid.

Each proposal shall be sealed and addressed to the clerk of the board of Sultan School District No. 314, and the name of the project plainly written on the outside of the package.

Sultan School District No. 314 reserves the right to reject any or all bids and to waive minor informalities.

No bidder may withdraw his bid after the hour set for the opening thereof, unless the award of contract is delayed for a period exceeding thirty days.

Signed: MELVIN CLAUSEN,
Superintentdent.

5458—5-5, 12, 19

BITUMINOUS SURFACING

BIDS CLOSE 11 A.M., JUNE 12

Juneau, Alaska

NOTICE TO CONTRACTORS

SEALED BIDS, in single copy for furnishing all labor, equipment, and materials and performing all work for the project described herein will be received until 11:00 a.m., June 12, 1956, in Room 319, Alaska Road Commission offices, Federal Building, Juneau, Alaska, and then publicly opened.

Plans and specifications for the project may be obtained from the Alaska Road Commission, P. O. Box 1961, Juneau, Alaska. Plans should be returned to the Alaska Road Commission District Office, Fairbanks, Alaska. No deposit will be required, but if plans are not returned in good condition within thirty days after date of bid opening, the planholder will be billed for the actual cost of the plans.

A guarantee of not less than five percent (5%) of the total amount bid will be required with each bid.

Bid schedule No. 1 consists of reconstruction, bituminous surface repair and new bituminous surfacing between about Mile 1385 and Mile 1314. Principal items of work are: Unclassified Excavation, 44,000 cubic yards; Borrow, 63,000 cubic yards; Crushed Gravel Base Course, 45,000 tons; Plant Mixture, 11,000 tons.

Bid Schedule No. 2 consists of sealing all new paving proposed above, and all remaining penetration-type bituminous surfacing on the B2 portion of the contract, a total length of 54.95 miles of seal coat. Principal items of work are: Cover aggregate, 7,100 tons; Asphalt, 860 tons.

Prospective bidders are advised that the Government has limited funds available for the contract as a whole, and that if the total successful low contract bid price exceeds the funds available, the right is reserved to either reject Bid Schedule No. 2 in its entirety, consisting of 59.15 miles of bituminous seal, or to reduce the length; provided that if the length is reduced an increment of not less than 20 miles of seal, located at the easterly end of Alaska B2, will be included in the contract. Additional increments will be added to the easterly 20 miles as funds permit.

Bid Schedule No. 3 consists of placing gravel base and bituminous surfacing on streets belonging to the Alaska Communication System at Tok Junction. Principal items of work are: Crushed Gravel Base Course, 1,700 tons; Plant Mixture, 620 tons.

All work shall be completed within 270 calendar days after date of receipt of Notice to Proceed.

A. F. Ghiglione
Director

5470—5-19, 26

GARAGE, POWER HOUSE

BIDS CLOSE 11 A.M., JUNE 12

Juneau, Alaska

NOTICE TO CONTRACTORS

SEALED BIDS, in single copy for furnishing all labor, equipment, and materials and performing all work for the project described herein will be received until 11:00 a.m., June 12, 1956, in Room 319, Alaska Road Commission, Federal Building, Juneau, Alaska, and then publicly opened.

Plans and specifications for the project may be obtained from the Alaska Road Commission, P. O. Box 1961, Juneau, Alaska. Plans should be returned to the Alaska Road Commission District Office, Anchorage, Alaska. No deposit will be required, but if plans are not returned in good condition within thirty days after date of bid opening, the planholder will be billed for the actual cost of the plans.

A guarantee of not less than five percent (5%) of the total amount bid will be required with each bid.

Constructing at Naknek, Alaska, a garage and power house, consisting of two (28'x80' and 12'x20') wood frame buildings with steel roof girders, finished inside and out with plywood, concrete floors, and insulated with glass wool. The work includes installation of equipment and drilling a water well. The Government will furnish at the site all building materials required except concrete aggregate.

Work shall be started within 30 calendar days after date of receipt of Notice to Proceed and shall be completed within 246 calendar days after date of Notice to Proceed.

A. F. Ghiglione
Director

5469—5-19

ELEMENTARY SCHOOL

BIDS CLOSE 10 A.M., P.S.T., JUNE 13

Anchorage, Alaska

NOTICE TO CONTRACTORS

Project Aaa. 50-A-144, Talkeetna Elementary School, Anchorage, Alaska. May 10, 1956. Talkeetna Elementary School, Project Aaa. 50-A-144, Anchorage, Alaska. Alaska Public Works Office of Territories, Department of the Interior (by (Issuing office) John D. Argetsinger, Acting Director, Alaska Public Works, Office of Territories, Department of the Interior, Post Office Box 1181, Juneau, Alaska. Sealed bids in single copy for furnishing all labor, equipment, and materials and performing all work for the project described herein will be received until 10:00 A.M., Pacific Standard Time, June 13, 1956, in the mailroom of the office of the Acting Director, Alaska Public Works, Office of Territories, Department of the Interior, 123 West Third Street, P. O. Box 1181, Juneau, Alaska, and then publicly opened, and read aloud. Information regarding bidding material, bid guarantee, and bonds follows: Plans and specifications and other proposed contract documents are open for public inspection at the Acting Director's office, Juneau, Alaska; at Room 2723, Interior Bldg., Washington 25, D. C.; at the Area Engineer's office, Alaska Public Works, Reliable Service Bldg., Anchorage, Alaska; and Associated General Contractors of America as follows: Seattle Chapter, Construction Center, 215 West Harrison St., Seattle, Wash.; Mountain Chapter, 220 W. Harrison St., Seattle, Wash.; Tacoma Chapter, 452 St. Helens Ave., Tacoma, Wash.; Portland Chapter, Suite 112, Multnomah Hotel, Portland, Oregon; Alaska Chapter, 306 Central Building, Anchorage, Alaska also the Plan Bureau, 2413 Western Avenue, Seattle, Wash.; and the Builders Exchange Cooperative, 317 Builders Exchange Bldg., Portland, Oregon. A set of such documents may be procured from the office of the Acting Director at Juneau, Alaska, upon deposit of $25.00, all of which will be refunded upon the return of the plans and specifications in good condition within twenty (20) days from date of bid opening. Each bid must be accompanied by a satisfactory bid security (certified check or bid bond) in an amount not less than 5 percent of the total bid in dollars and cents. No bid will be withdrawn until thirty days after the scheduled closing date for the receipt of bid. The successful bidder will be required to furnish a performance bond and payment bond, each in the amount of 100 per cent of the contract price. The government reserves the right to award a contract for the project on the basis of the acceptance of any or all of the alternates, whichever course is in the best interest of the Government. DESCRIPTION: Talkeetna Elementary School, Project Aaa. 50-A-144, Anchorage. A 20-classroom reinforced concrete, steel frame and masonry elementary school containing approximately 34,000 square feet. Information regarding liquidated damages (if any), payments, etc., is attached or made a part of the specifications. Bids shall be submitted on the forms furnished or copies thereof.

5472—5-19, 26; 6-2

PUMP HOUSE

BIDS CLOSE 10 A.M., P.S.T., JUNE 13

Anchorage, Alaska

NOTICE TO CONTRACTORS

Project Aaa. 50-A-157, Unit 6, Pump House, Anchorage, Alaska. May 10, 1956. Pump House, Project Aaa. 50-A-157, Unit 6, Anchorage, Alaska. Alaska Public Works, Office of Territories, Department of the Interior. By (Issuing office) John D. Argetsinger, Acting Director, Alaska Public Works Office of Territories, Department of the Interior, Post Office Box 1181, Juneau, Alaska. Sealed bids in single copy for furnishing all labor, equipment, and materials and performing all work for the project described herein will be received until 10:00 A.M., Pacific Standard Time, June 13, 1956, in the mailroom of the office of the Acting Director, Alaska Public Works, Office of Territories, Department of the Interior, 123 West Third Street, P. O. Box 1181, Juneau, Alaska and then publicly opened and read aloud. Information regarding bidding material, bid guarantee, and bonds follows: Plans and specifications and other proposed contract documents are open for public inspection at the Acting Director's office, Juneau, Alaska; at Room 2723, Interior Bldg., Washington 25, D. C.; at the Area Engineer's office, Alaska Public Works, Reliable Service Bldg., Anchorage, Alaska; and Associated General Contractors of America offices as follows: Seattle Chapter, Construction Center, 215 West Harrison St., Seattle, Wash.; Mountain Chapter, 220 W. Harrison St., Seattle, Wash.; Tacoma Chapter, 452 St. Helens Ave., Tacoma, Wash.; Portland Chapter, Suite 112, Multnomah Hotel, Portland, Oregon; Alaska Chapter, 306 Central Building, Anchorage, Alaska also the Plan Bureau, 2413 Western Ave., Seattle, Wash.; and the Builders Exchange Cooperative, 317 Builders Exchange Bldg., Portland, Oregon. A set of such documents may be procured from the office of the Acting Director at Juneau, Alaska, upon deposit of $25.00, all of which will be refunded upon the return of the plans and specifications in good condition within twenty days from date of bid opening. Each bid must be accompanied by

a satisfactory bid security (certified check or bid bond) in an amount not less than 5 percent of the total bid in dollars and cents. No bid will be withdrawn until thirty days after the scheduled closing date for the receipt of bid. The successful bidder will be required to furnish a performance and payment bond each in the amount of 100 percent of the contract price. The Government reserves the right to award a contract for the project on the basis of the acceptance of any or all of the alternates, whichever course is in the best interest of the Government. DESCRIPTION: Pump House, Project Aaa. 50-A-157, Unit 6, Anchorage, Alaska. The work consists of constructing a pump house for an existing water well, repairs, testing and developing the well, installing 620 l.f. of cast iron pipe and other miscellaneous work. Information regarding liquidated damages (if any), payments, etc., is attached or made a part of the specifications. Bids shall be submitted on the forms furnished or copies thereof.

5471—5-19, 26; 6-2

STATE HIGHWAY PROJECTS

BIDS CLOSE 10 A. M., JUNE 5

Olympia, Washington

NOTICE TO CONTRACTORS

Sealed bids will be received by the Washington State Highway Commission at Olympia Washington, on Tuesday, June 5, 1956, until 10:00 A. M., for the construction of the following improvements and will then and there be opened and publicly read:

1. Clearing, Draining, Grading, Surfacing with Light Bituminous Surface Treatment, Paving with Type I-1 Asphaltic Concrete and Constructing a Steel Girder Railway Bridge Undercrossing on Primary State Highway No. 2 in Spokane County, G.N. RAILWAY UNDERCROSSING AND BARKER ROAD UNDERCROSSING APPROACHES, FAP No. UGI-002-6(23) and State Project, involving about 44,300 cubic yards of Common Excavation, 760 cubic yards of Solid Rock Excavation, 2,430 tons of Crushed Stone Surfacing, 13 tons of Asphalt Cement, 95 cubic yards of Crushed Cover Stone and Mineral Aggregate, 510 tons of Asphaltic Concrete, 693 linear feet of Beam Guard Rail, 236 linear feet of Concrete Pipe, 242 linear feet of Steel and Iron Pipe, 1,041 linear feet of Asbestos-Cement Pipe, 944 cubic yards of Concrete, 53,000 pounds of Steel Reinforcing Bars, 611,000 pounds of Structural and Cast Steel, 31 MBM of Timber and Lumber and other items.
2. Draining, Grading and Surfacing with Crushed Stone on 2.321 miles of a Whitman County Road, PULLMAN-BUSBY ROAD, FAS No. S-0669(1), involving about 17,540 cubic yards of Common Excavation, 26,770 cubic yards of Solid Rock Excavation, 41,760 tons of Crushed Stone Surfacing, 906 linear feet of Corrugated Metal Pipe and other items.
3. Clearing, Draining, Grading and Surfacing with Crushed Stone on 2.100 miles of a Clark County Road, HAAPA EAST, FAS No. S-0590(5), involving about 11 acres of Clearing, 59,560 cubic yards of Common Excavation, 21,160 tons of Selected Roadway Borrow, 9,160 tons of Crushed Stone Surfacing, 858 linear feet of Concrete Pipe, 542 linear feet of Corrugated Metal Pipe and other items.
4. Paving with Type I-1 Asphaltic Concrete on 11.33 miles of Primary State Highway No. 3 in Benton County, PROSSER TO KIONA, a State Project, involving about 20,975 tons of Asphaltic Concrete, 48 tons of Asphalt Cement, 4,250 cubic yards of Maintenance Rock and other items.
5. Surfacing and Constructing a Bituminous Surface Treatment Road Mix, Non-Skid Single Seal Treatment and Light Bituminous Surface Treatment on Shoulders on 31.29 miles of State Highways Nos. 15, 15-C and 15-D in Chelan and King Counties, DECEPTION CREEK TO GAYNOR, ET AL, a State Project, involving about 16,960 tons of Selected Roadway Borrow, 57,710 tons of Crushed Stone Surfacing, Crushed Cover Stone, Maintenance Rock and Mineral Aggregate, 693 tons of Asphalt Cement, 2,565 cubic yards of Mineral Aggregate and other items.
6. Constructing a Light Bituminous Surface Treatment and Non-Skid Single Seal Treatment on 19.10 miles of State Highways Nos. 3 and 3-L in Yakima, Garfield and Columbia Counties, PARKER BRIDGE TO DONALD, ET AL, a State Project, involving about 300 tons of Asphalt Cement, 2,350 cubic yards of Crushed Cover Stone and Mineral Aggregates and other items.

Federal funds have been allocated for items Nos. 1 to 3, inclusive.

All bid proposals shall be accompanied by a bid proposal deposit in cash, certified check, cashier's check or surety bond in an amount equal to five per cent (5%) of the amount of such bid proposal. Should the successful bidder fail to enter into such contract and furnish satisfactory performance bond within the time stated in the specifications, the bid proposal deposit shall be forfeited to the State of Washington.

Prequalification of bidders is required. Maps, plans and specifications may be obtained from this office upon written request therefor and payment to the Director of Highways by cash, certified check, cashier's check or money order in the sum of two dollars ($2.00) for each copy of such maps, plans and specifications as a rental for the use of them. Plans will be forwarded by First Class Mail.

Informational copies of maps, plans and specifications are on file in the office of the County Engineer of the County in which the work is situated, the Chapter offices of the Associated General Contractors of America in Seattle, Spokane, Tacoma and Portland and the offices of the District Engineers of the Department of Highways where they may be inspected.

E. C. HUNTLEY, Chairman
W. A. BUGGE, Director of Highways

5475—5-19, 26

STATE HIGHWAY PROJECT

BIDS CLOSE 10 A.M., MAY 22

Olympia, Washington

NOTICE TO CONTRACTORS

Sealed bids will be received by the Washington State Highway Commission at Olympia, Washington, on Tuesday, May 22, 1956, until 10:00 A.M. for the construction of the following improvement and will then and there be opened and publicly read:

1. Removing Portions of Existing Steel Girder Bridge on Primary State Highway No. 13 in Gray Harbor County, CHEHALIS RIVER BRIDGE REMOVAL, FAP No. U-006-1(8), involving the Removal of about 300 Existing Piles and 2 lump sum bids for the Removal of the Existing Steel Spans and Existing Piers and Fenders.

Bids for this project will be opened in the office of the Director of Highways, room 203, Transportation Building, instead of in the board room of the Public Service Commission where bid openings are usually held.

Federal funds have been allocated for item no. 1.

All bid proposals shall be accompanied by a bid proposal deposit in cash, certified check, cashier's check or surety bond in an amount equal to five per cent (5%) of the amount of such bid proposal. Should the successful bidder fail to enter into such contract and furnish satisfactory performance bond within the time stated in the specifications, the bid proposal deposit shall be forfeited to the State of Washington.

Prequalification of bidders is required. Maps, plans and specifications may be obtained from this office upon written request therefor and payment to the Director of Highways by cash, certified check, cashier's check or money order in the sum of two dollars ($2.00) for each copy of such maps, plans and specifications as a rental for the use of them. Plans will be forwarded by First Class Mail.

Legal advertisements appearing in our columns come to the attention of construction firms, and equipment and supply houses throughout the entire Pacific Northwest and Alaska.

Informational copies of maps, plans and specifications are on file in the office of the County Engineer of the County in which the work is situated, the Chapter offices of the Associated General Contractors of America in Seattle, Spokane, Tacoma and Portland and the offices of the District Engineers of the Department of Highways where they may be inspected.

E. C. HUNTLEY, Chairman
W. A. BUGGE, Director of Highways

5459—5-12

EARTHWORK, PIPELINES

BIDS CLOSE 10 A.M., P.S.T., JUNE 5

Ephrata, Washington

NOTICE TO CONTRACTORS

United States Department of the Interior, Bureau of Reclamation, April 19, 1956. Sealed bids, in single, (Specifications No. DC-6[illegible]) will be received at the office of the Project Manager, Bureau of Reclamation, Division and "C" Street, N.W., Ephrata, Washington, until 10:00 a.m., Pacific Standard Time, June 5, 1956, and then publicly opened for furnishing labor and materials and performing all work for construction of earthwork, pipe lines, and structures South Pearl Block 46 Laterals, Wasteways, and Drains, East Low Canal Laterals. This work will include earthwork for approximately [illegible] miles of unlined sections of laterals, sub-laterals, wasteways and drains with bottom widths varying from 10 to 2 feet; earthwork for and construction of approximately 600 feet of precast-concrete pipe lines and pipe chute; earthwork for and construction of concrete structures along laterals, wasteways, and drains including pipe turnouts, orifice turnout, constant head orifice turnouts, division boxes, etc., road and ditch crossings, railroad crossings, timber bridges and 1 outdoor type pumping plant; furnishing and installing metal slide gates and lifts, adjustable weirs, flap gates, etc., motor-driven vertical-shaft pumping unit, discharge piping, trashracks, chain-link fence, electrical installation; and furnishing and sowing grass seed.

Time allowed for completion will be [illegible] and 520 calendar days. For particulars address the Bureau of Reclamation, P. R. Nelder, Project Manager, Box 368, Ephrata, Washington.

5445—5-5

BRIDGES

BIDS CLOSE 11 A.M., MAY 22

Juneau, Alaska

NOTICE TO CONTRACTORS

SEALED BIDS, in single copy for furnishing all labor, equipment, and materials and performing all work for the project described herein will be received until 11:00 a.m., May 22, 1956, in room 319, Alaska Road Commission Offices, Federal Building, Juneau, Alaska, and then publicly opened.

Plans and specifications for the project may be obtained from the Alaska Road Commission, P. O. Box 1961, Juneau, Alaska. Plans may be returned to the Alaska Road Commission District Office, Valdez, Alaska. No deposit will be required, but if plans are not returned in good condition within thirty days after date of bid opening, the planholder will be billed for the actual cost of the plans.

A guarantee of not less than five percent (5%) of the total amount bid will be required with each bid.

Constructing Klutina River Bridge, located at Mile 101.0, Richardson Highway, a 240'x24' two-span continuous built-up steel girder bridge, concrete deck. Tonsina River Bridge, located at Mile 79.1, Richardson Highway, a 250'x24' three-span continuous I-beam with concrete deck. Moose Creek Bridge, located at Mile 186.2, Glenn Highway, a 40'x24' single span I-beam bridge, concrete deck.

All work shall be completed within [illegible] calendar days after receipt of Notice to Proceed, except the Moose Creek Bridge shall be acceptable for use within 137 calendar days after receipt of Notice to Proceed. No performance time will be charged for winter shutdown.

A. F. Ghiglione
Director

5453—5-5

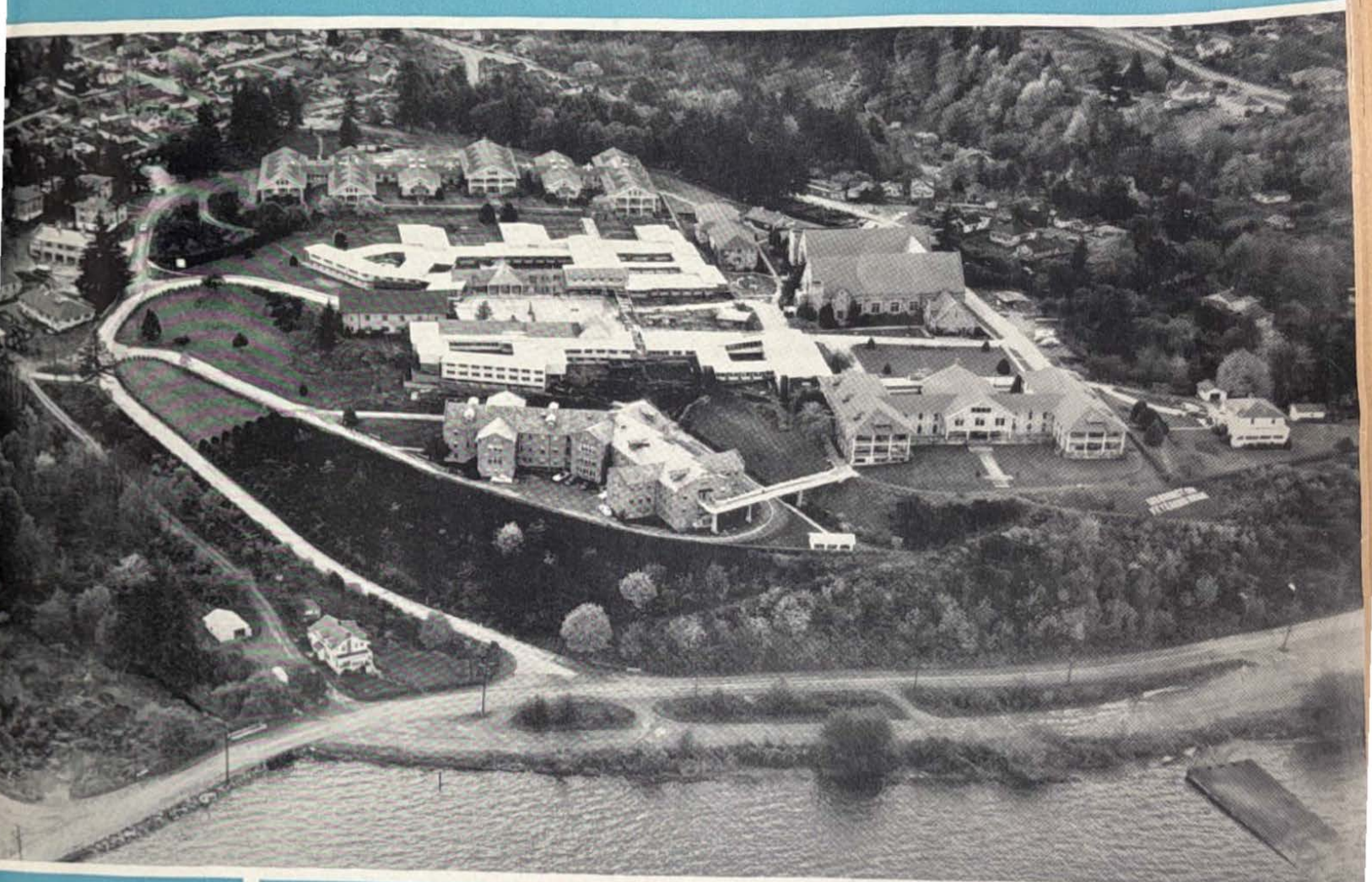
UNIVERSITY OF OREGON
DEC 6 1961
LIBRARY

Pacific Architect and Builder

May BPA 1956

50¢

WITH CONSTRUCTION NEWS BULLETIN



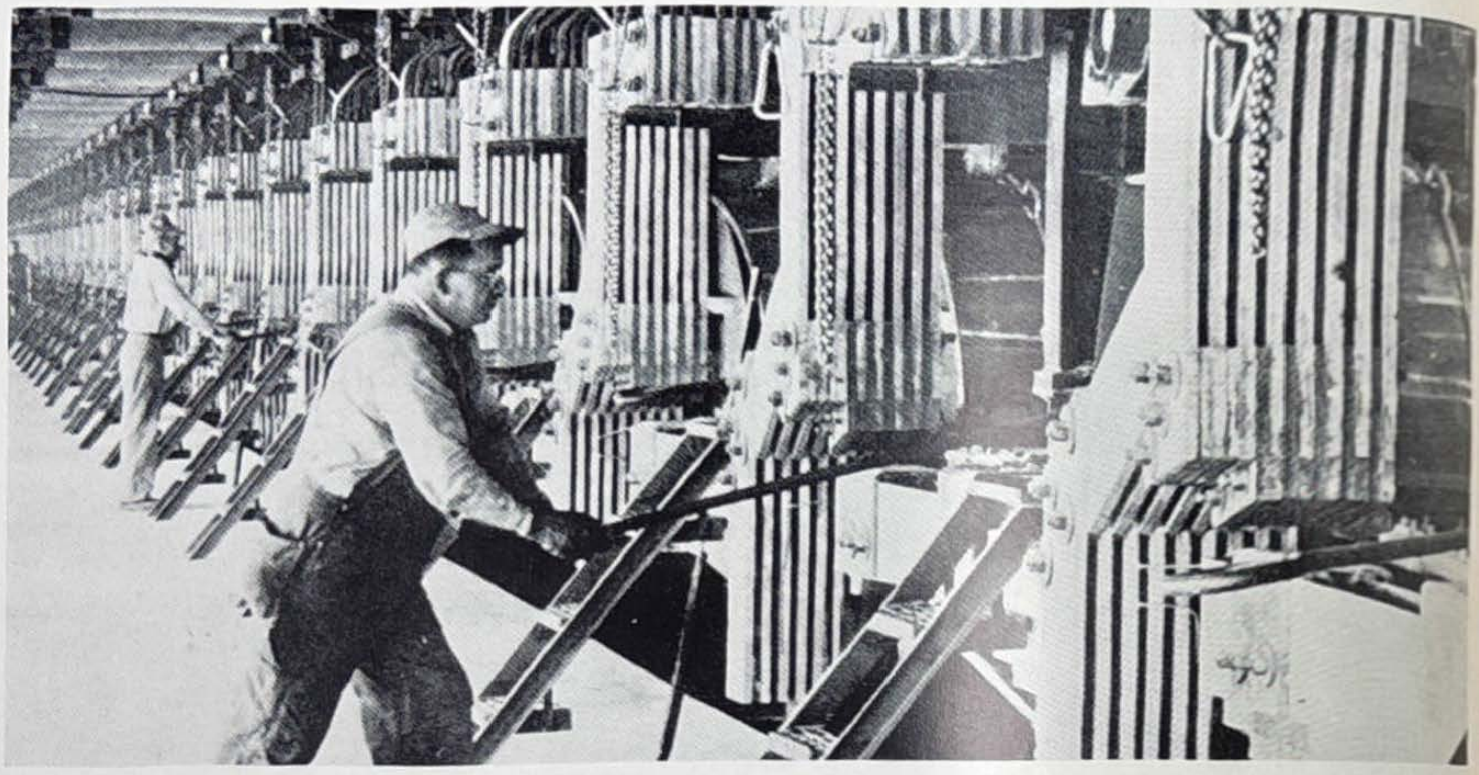
Published by
PACIFIC BUILDER
ND ENGINEER, Inc.
Established 1902

Village living for veterans' twilight years

Washington State Veterans' Home, Retsil, Wash.: aerial view shows new quarters in center of tract on Sinclair Inlet (p. 16). Victor N. Jones & Associates, architects.

Also in this issue: police headquarters, small bank, homelike medical building

ANOTHER EXAMPLE OF CARCO "One Stop" STEEL SERVICE



CARCO FABRICATED POTS AND POT CRADLES HELP ALCOA SMELT ALUMINUM

At Wenatchee, Washington, near low cost electric power, the Aluminum Company of America has invested millions of dollars in a large aluminum smelter.

The production of aluminum begins with the mining of bauxite, the only substance that, to date, has proved economical as a commercial source of this metal. After preliminary processing, the next major step occurs in alumina plants. Here, Alcoa removes the impurities from the ore, leaving a fine white powder which is a combination of aluminum and oxygen.

Alcoa separates the aluminum from the oxygen by an electrolytic smelting process. A direct electric current is passed through large smelting pots filled with molten cryolite in which alumina is dissolved. The passage of electricity through the solution causes aluminum to be deposited at the bottom of the pot while the oxygen is released as carbon dioxide gas.

The pots are deep rectangular shells of fabricated steel lined with carbon to serve as the cathode or negative pole. A row of the smelting pots, which are connected electrically in series, is called a potline.

Pure aluminum represents about one-fourth the weight of its basic ore, bauxite. It takes four pounds of bauxite to make two pounds of alumina. Likewise, the smelting of two pounds of alumina results in one pound of aluminum. Accordingly, Alcoa's large Wenatchee smelter must process over 400,000,000 pounds of alumina annually in order to produce the installed yearly capacity of 217,000,000 pounds of primary aluminum.

Pacific Car has fabricated steel not only for Alcoa's smelter at Wenatchee but also for their smelter and fabricating division at Vancouver, Washington. At Wenatchee, Carco fabricated the pots and pot cradles for Alcoa's recent $2,000,000 expansion of this smelter as well as hundreds of pot cradles for the older potlines. At Vancouver, Carco fabricated the structural steel for several of the buildings incorporated in Alcoa's large plant.

Whether your needs are small or large, let Carco help you solve your structural steel problems. Remember, Pacific Car offers not only the largest fabrication facilities in the Northwest but also a "one stop" steel service. This means money-saving ideas and suggestions, prompt engineering detail and estimates, fabrication and erection.

PACIFIC CAR AND FOUNDRY COMPANY

STRUCTURAL STEEL FABRICATION AND ERECTION, STEEL CASTINGS, FORGING, HEAT TREATING, MACHINING, HOT DIP GALVANIZING, TRACTOR EQUIPMENT: Winches, Hoists, Arches, Log Carts, Rigging.

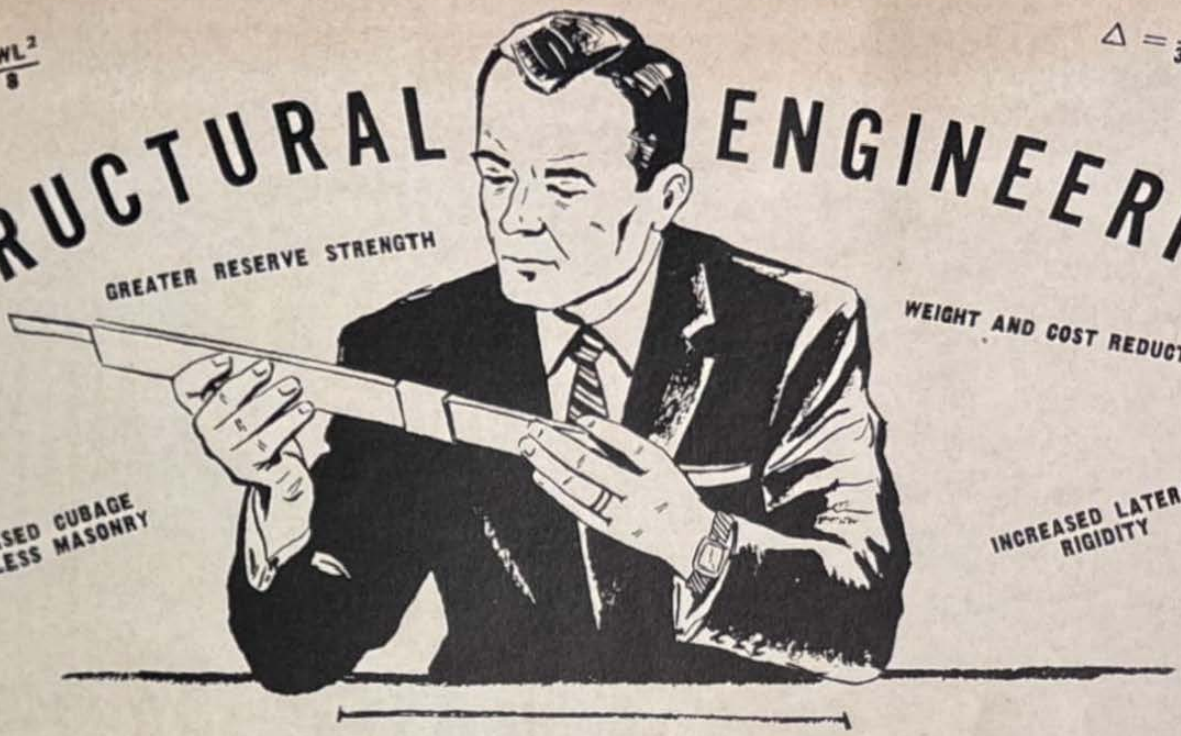
CARCO®

STRUCTURAL STEEL DIVISION—120 W. HUDSON—SEATTLE 4—RAinier 5355 MAIN PLANT AND OFFICES—RENTON, WASHINGTON—OLive 4511

$M = \frac{WL^2}{8}$

$\Delta = \frac{5WL^4}{384\,EI}$

STRUCTURAL ENGINEERING



HAS A NEW STANDARD OF PERFORMANCE

IN THE STRONGER, LIGHTER, MORE RUGGED

MACOMBER V-BEAM



JUST WRITE V-BEAM ACROSS YOUR LETTERHEAD

PRODUCT ACCEPTANCE in structural engineering is based upon FACT.

1. WHO makes it? 2. WHAT will it do? 3. What are its STRUCTURAL advantages? 4. WILL it actually lower construction costs? 5. What is your performance PROOF?

HERE ARE YOUR ANSWERS: This MACOMBER product is the culmination of 40 years of structural product engineering. It was designed to support floors and roofs with a lighter, shallower structural member whose ultimate strength is over twice its published carrying capacity. In addition to the fact this member weighs less and costs less, it has the time and labor saving NAILABLE feature in both top and bottom chords. And lastly—every size in the various spans was load tested by Pittsburgh Testing Laboratory. YES! The phenomenal success of V-BEAMS is based upon fact. You can specify this structural member with complete confidence.

STANDARDIZED STEEL BUILDING PRODUCTS

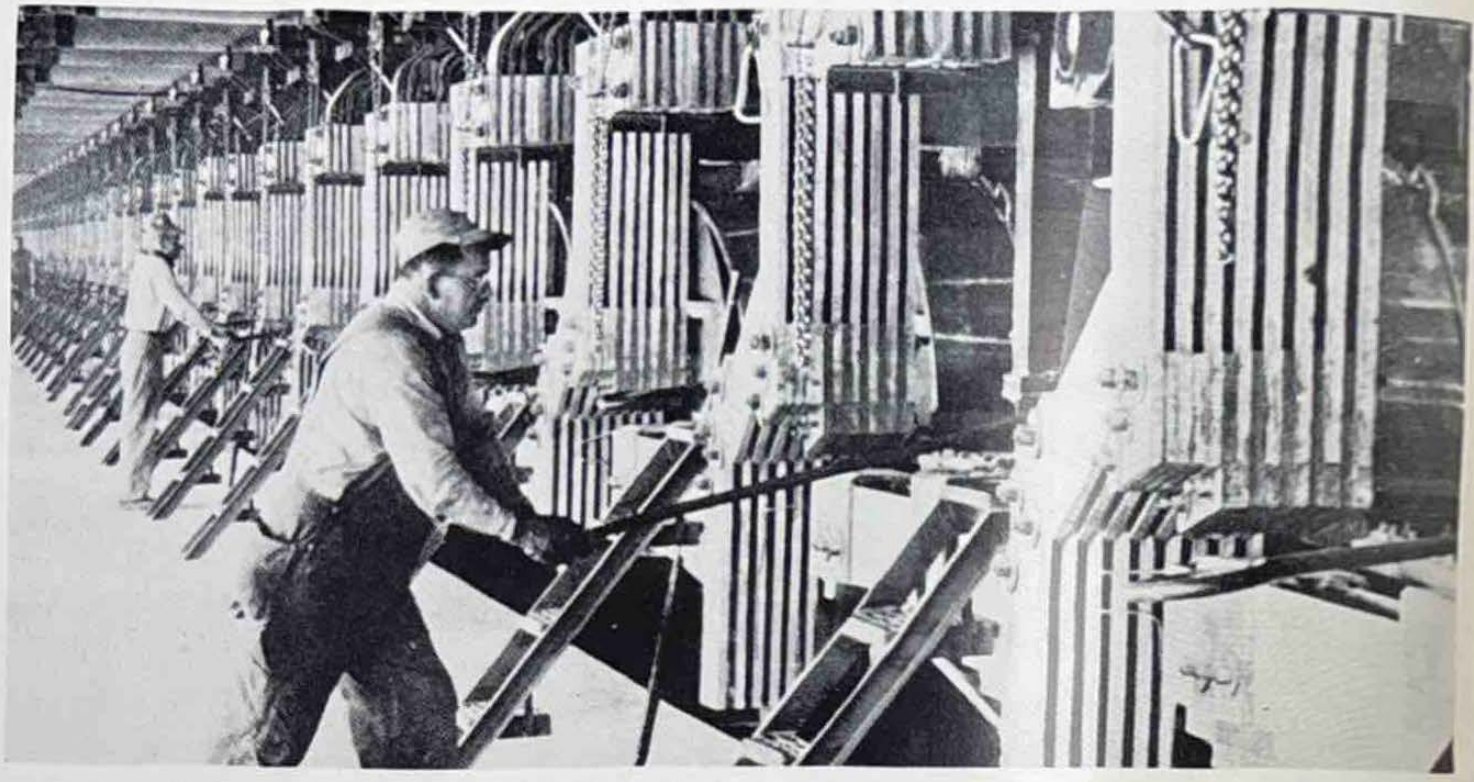
MACOMBER INCORPORATED

CANTON 1, OHIO

• ENGINEERING • FABRICATING AND ERECTING •

NAILABLE STEEL JOISTS
•
LONGSPANS
•
BOWSTRING ROOF TRUSSES
•
METAL DECK
•
V-LOK STEEL FRAMING
•
STRUCTURALS

ANOTHER EXAMPLE OF CARCO "One Stop" STEEL SERVICE



CARCO FABRICATED POTS AND POT CRADLES HELP ALCOA SMELT ALUMINUM

At Wenatchee, Washington, near low cost electric power, the Aluminum Company of America has invested millions of dollars in a large aluminum smelter.

The production of aluminum begins with the mining of bauxite, the only substance that, to date, has proved economical as a commercial source of this metal. After preliminary processing, the next major step occurs in alumina plants. Here, Alcoa removes the impurities from the ore, leaving a fine white powder which is a combination of aluminum and oxygen.

Alcoa separates the aluminum from the oxygen by an electrolytic smelting process. A direct electric current is passed through large smelting pots filled with molten cryolite in which alumina is dissolved. The passage of electricity through the solution causes aluminum to be deposited at the bottom of the pot while the oxygen is released as carbon dioxide gas.

The pots are deep rectangular shells of fabricated steel lined with carbon to serve as the cathode or negative pole. A row of the smelting pots, which are connected electrically in series, is called a potline.

Pure aluminum represents about one-fourth the weight of its basic ore, bauxite. It takes four pounds of bauxite to make two pounds of alumina. Likewise, the smelting of two pounds of alumina results in one pound of aluminum. Accordingly, Alcoa's large Wenatchee smelter must process over 400,000,000 pounds of alumina annually in order to produce the installed yearly capacity of 217,000,000 pounds of primary aluminum.

Pacific Car has fabricated steel not only for Alcoa's smelter at Wenatchee but also for their smelter and fabricating division at Vancouver, Washington. At Wenatchee, Carco fabricated the pots and pot cradles for Alcoa's recent $2,000,000 expansion of this smelter as well as hundreds of pot cradles for the older potlines. At Vancouver, Carco fabricated the structural steel for several of the buildings incorporated in Alcoa's large plant.

Whether your needs are small or large, let Carco help you solve your structural steel problems. Remember, Pacific Car offers not only the largest fabrication facilities in the Northwest but also a "one stop" steel service. This means money-saving ideas and suggestions, prompt engineering detail and estimates, fabrication and erection.

PACIFIC CAR AND FOUNDRY COMPANY

STRUCTURAL STEEL FABRICATION AND ERECTION, STEEL CASTINGS, FORGING, HEAT TREATING, MACHINING, HOT DIP GALVANIZING, TRACTOR EQUIPMENT: Winches, Hoists, Arches, Log Carts, Rigging.

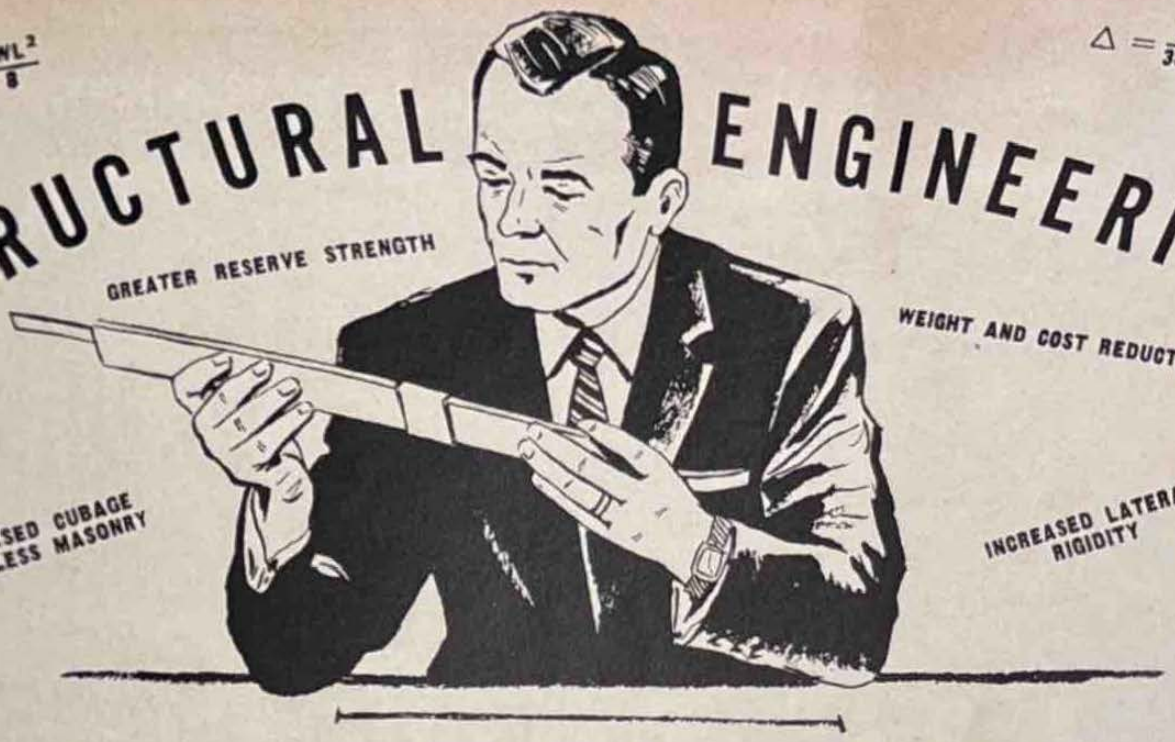
CARCO®

STRUCTURAL STEEL DIVISION—120 W. HUDSON—SEATTLE 4—RAinier 5355 MAIN PLANT AND OFFICES—RENTON, WASHINGTON—OLive 4511

$M = \frac{WL^2}{8}$

$\Delta = \frac{5WL^4}{384\,EI}$

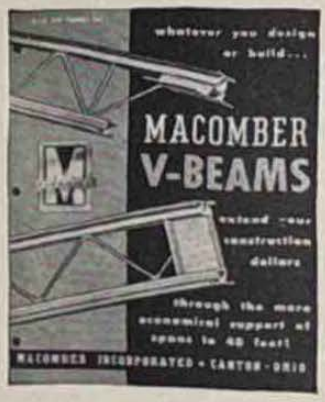
STRUCTURAL ENGINEERING



HAS A NEW STANDARD OF PERFORMANCE

IN THE STRONGER, LIGHTER, MORE RUGGED

MACOMBER V-BEAM



JUST WRITE V-BEAM ACROSS YOUR LETTERHEAD

PRODUCT ACCEPTANCE in structural engineering is based upon FACT.

1. WHO makes it? 2. WHAT will it do? 3. What are its STRUCTURAL advantages? 4. WILL it actually lower construction costs? 5. What is your performance PROOF?

HERE ARE YOUR ANSWERS: This MACOMBER product is the culmination of 40 years of structural product engineering. It was designed to support floors and roofs with a lighter, shallower structural member whose ultimate strength is over twice its published carrying capacity. In addition to the fact this member weighs less and costs less, it has the time and labor saving NAILABLE feature in both top and bottom chords. And lastly—every size in the various spans was load tested by Pittsburgh Testing Laboratory. YES! The phenomenal success of V-BEAMS is based upon fact. You can specify this structural member with complete confidence.

STANDARDIZED STEEL BUILDING PRODUCTS

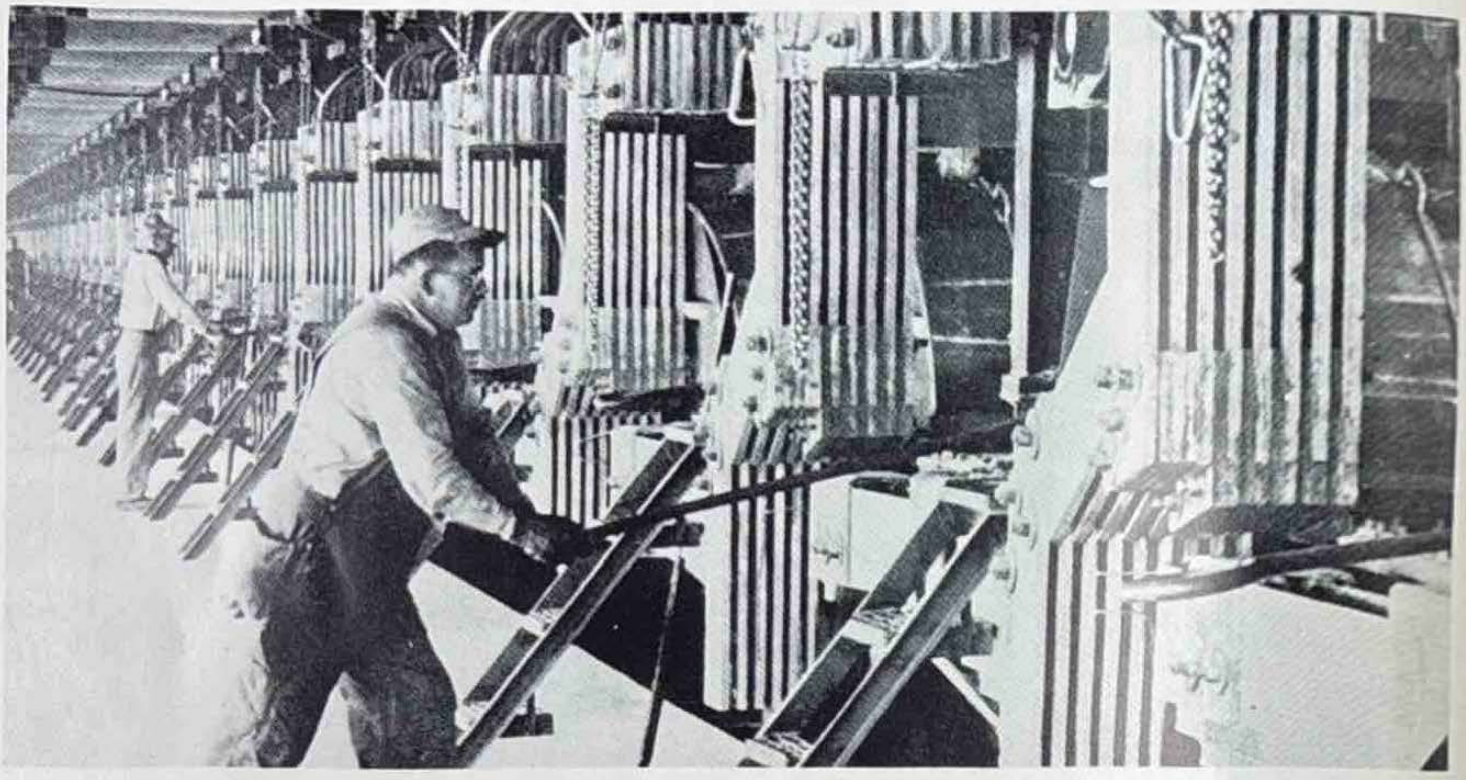
MACOMBER INCORPORATED

CANTON 1, OHIO

• ENGINEERING • FABRICATING AND ERECTING •

NAILABLE STEEL JOISTS
•
LONGSPANS
•
BOWSTRING ROOF TRUSSES
•
METAL DECK
•
V-LOK STEEL FRAMING
•
STRUCTURALS

ANOTHER EXAMPLE OF CARCO "One Stop" STEEL SERVICE



CARCO FABRICATED POTS AND POT CRADLES HELP ALCOA SMELT ALUMINUM

At Wenatchee, Washington, near low cost electric power, the Aluminum Company of America has invested millions of dollars in a large aluminum smelter.

The production of aluminum begins with the mining of bauxite, the only substance that, to date, has proved economical as a commercial source of this metal. After preliminary processing, the next major step occurs in alumina plants. Here, Alcoa removes the impurities from the ore, leaving a fine white powder which is a combination of aluminum and oxygen.

Alcoa separates the aluminum from the oxygen by an electrolytic smelting process. A direct electric current is passed through large smelting pots filled with molten cryolite in which alumina is dissolved. The passage of electricity through the solution causes aluminum to be deposited at the bottom of the pot while the oxygen is released as carbon dioxide gas.

The pots are deep rectangular shells of fabricated steel lined with carbon to serve as the cathode or negative pole. A row of the smelting pots, which are connected electrically in series, is called a potline.

Pure aluminum represents about one-fourth the weight of its basic ore, bauxite. It takes four pounds of bauxite to make two pounds of alumina. Likewise, the smelting of two pounds of alumina results in one pound of aluminum. Accordingly, Alcoa's large Wenatchee smelter must process over 400,000,000 pounds of alumina annually in order to produce the installed yearly capacity of 217,000,000 pounds of primary aluminum.

Pacific Car has fabricated steel not only for Alcoa's smelter at Wenatchee but also for their smelter and fabricating division at Vancouver, Washington. At Wenatchee, Carco fabricated the pots and pot cradles for Alcoa's recent $2,000,000 expansion of this smelter as well as hundreds of pot cradles for the older potlines. At Vancouver, Carco fabricated the structural steel for several of the buildings incorporated in Alcoa's large plant.

Whether your needs are small or large, let Carco help you solve your structural steel problems. Remember, Pacific Car offers not only the largest fabrication facilities in the Northwest but also a "one stop" steel service. This means money-saving ideas and suggestions, prompt engineering detail and estimates, fabrication and erection.

PACIFIC CAR AND FOUNDRY COMPANY

STRUCTURAL STEEL FABRICATION AND ERECTION, STEEL CASTINGS, FORGING, HEAT TREATING, MACHINING, HOT DIP GALVANIZING, TRACTOR EQUIPMENT: Winches, Hoists, Arches, Log Carts, Rigging.

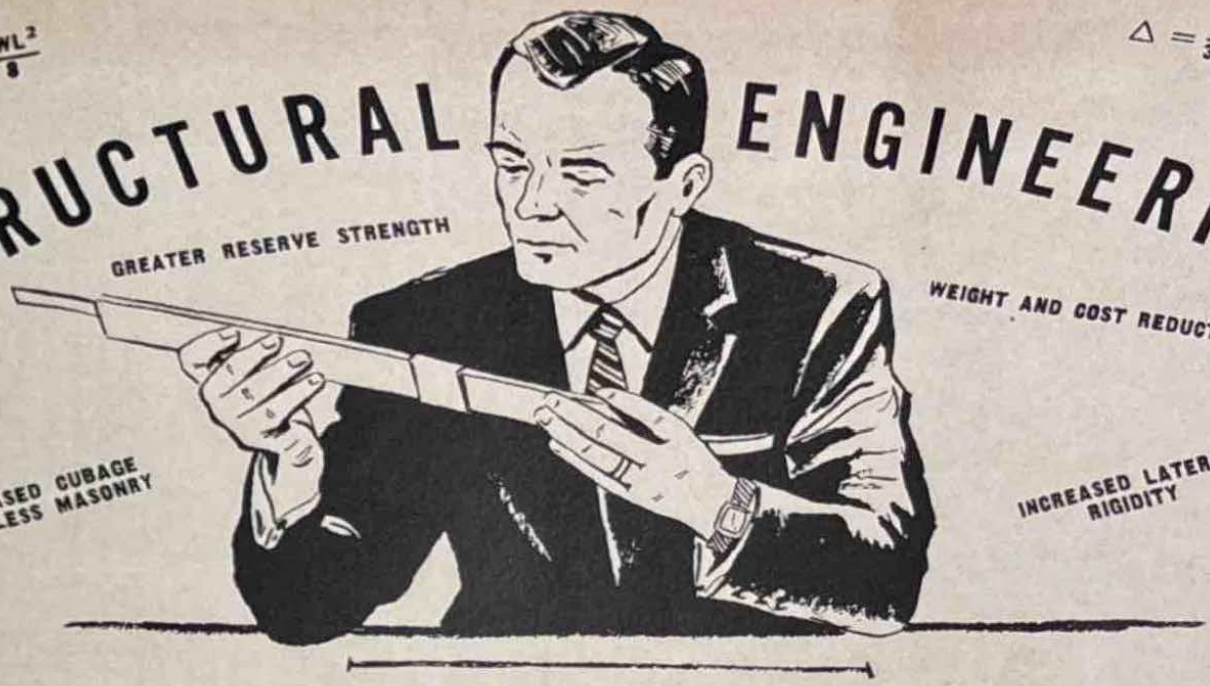
CARCO®

STRUCTURAL STEEL DIVISION—120 W. HUDSON—SEATTLE 4—RAinier 5355 MAIN PLANT AND OFFICES—RENTON, WASHINGTON—OLive 4511

$M = \frac{WL^2}{8}$

$\Delta = \frac{5WL^4}{384\,EI}$

STRUCTURAL ENGINEERING



HAS A NEW STANDARD OF PERFORMANCE

IN THE STRONGER, LIGHTER, MORE RUGGED

MACOMBER V-BEAM



JUST WRITE V-BEAM ACROSS YOUR LETTERHEAD

PRODUCT ACCEPTANCE in structural engineering is based upon FACT.

1. WHO makes it? 2. WHAT will it do? 3. What are its STRUCTURAL advantages? 4. WILL it actually lower construction costs? 5. What is your performance PROOF?

HERE ARE YOUR ANSWERS: This MACOMBER product is the culmination of 40 years of structural product engineering. It was designed to support floors and roofs with a lighter, shallower structural member whose ultimate strength is over twice its published carrying capacity. In addition to the fact this member weighs less and costs less, it has the time and labor saving NAILABLE feature in both top and bottom chords. And lastly—every size in the various spans was load tested by Pittsburgh Testing Laboratory. YES! The phenomenal success of V-BEAMS is based upon fact. You can specify this structural member with complete confidence.

STANDARDIZED STEEL BUILDING PRODUCTS

MACOMBER INCORPORATED

CANTON 1, OHIO

• ENGINEERING • FABRICATING AND ERECTING •

NAILABLE STEEL JOISTS
•
LONGSPANS
•
BOWSTRING ROOF TRUSSES
•
METAL DECK
•
V-LOK STEEL FRAMING
•
STRUCTURALS

IF IT'S A KAISER PRODUCT...YOU KNOW IT'S THE BEST

a famous name
for finest quality



KAISER GYPSUM PRODUCTS

are manufactured in accordance with all existing Federal and ASTM specifications, under strict laboratory control. Our technical consultants are always available to suggest or recommend construction techniques, new methods of application, or specific job requirements involving any Kaiser Gypsum Product.

integrity | economy | service

KAISER GYPSUM
COMPANY, INC.
LOS ANGELES · OAKLAND · SEATTLE

Pacific Architect and Builder

MAY EPA 1956

WITH CONSTRUCTION NEWS BULLETIN

VOLUME 62 NUMBER 5

Published by
Pacific Builder and Engineer, Inc.
Established 1902

MAIN EDITORIAL AND BUSINESS OFFICE
2418 Third Ave., Seattle 1, Wash.
Phone MAin 0285

N. B. Chapin — President
John E. Miller — General Manager
Phyllis E. Forth — Production Manager
Robert G. Hitchens — Director of Business Services and Circulation
Frances Eggan — Circulation Manager
Alice Malloy — Asst. Circulation Manager

ADVERTISING
Main Office — Seattle
L. C. McDowell

MIDWEST ADVERTISING OFFICE
18300 James Couzens
Detroit 35, Mich. — Phone: Diamond 1-3333
Charles W. Crandall — Representative

CALIFORNIA EDITORIAL OFFICE
24 White St., San Francisco 9, Calif.
Phone GRaystone 4-8532
Ken MacDonald — Contributing Editor

PORTLAND EDITORIAL OFFICE
1109 S.W. Fourth Ave.—Phone CApitol 3-1229
Win Romtvedt — Portland News Manager



PA&B's Area

a Four Billion Dollar Building Market

Roscoe E. Laing — Editor Bob Koehler — Associate Editor
Anne Hecker, editorial assistant; Joan Storey, research assistant
D. F. McCormick, editor, Construction News Bulletin

CONTENTS

California: Architectural Grab Bag—*a guest editorial by Donald Beach Kirby, AIA* 8

Police Headquarters: All Facilities Under One Roof—Los Angeles 10

Integration of the Arts in Architecture—*by Joe Young* 15

Veterans' Home: Village Living for Their Twilight Years—Retsil, Wash. 16

Medical Office Building. Architectural Prescription—Homey Treatment—San Francisco 25

Bank of Apple Valley: Security, Dignity and Beauty—Apple Valley, Calif. 27

Building Methods: Corrugated Aluminum Sheeting Applied on Steel Frame Without Scaffolding 33

DEPARTMENTS

Perspectives 6

Trends—News—Views 7

Architectural Preview: Oregon's Architecture School 28

Building Permit Tabulation 30

T-square Talk 34

Materials, Products, Tools and Latest Literature 36

Builders and Suppliers Headlining the News 38

CONSTRUCTION NEWS BULLETIN

Building and Engineering News of the Pacific Northwest and Alaska 41

SUBSCRIPTION RATES—Payable in Advance

PACIFIC ARCHITECT AND BUILDER—3rd Saturday each month $4 one year; $6 two years; $7 three years. Canadian $5, $8, $10. Foreign $6, $10, $13. Single copies 50c. With CONSTRUCTION NEWS BULLETIN (2nd, 4th, 5th Sat.) $16, $24, $31, in U.S. and Alaska.

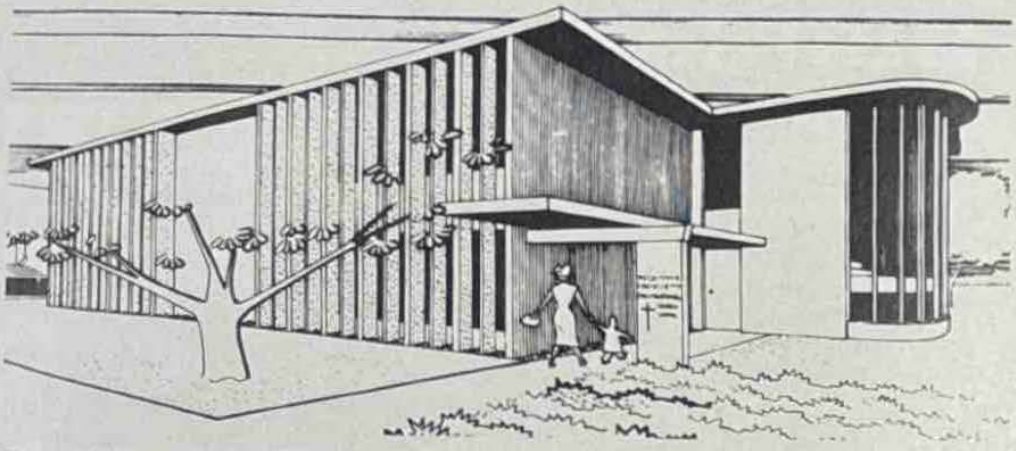
PACIFIC BUILDER AND ENGINEER—1st Saturday each month, $4 one year; $6 two years; $7 three years. Canadian $5, $8, $10. Foreign $6, $10, $13. Single copies 50c.

FOR NORTHWEST BUILDING AND ENGINEERING NEWS EVERY WEEK subscribe to all three (PA&B, PB&E, CNB) $20 one year; $30 two years; $38 three years. FOR FLASH ADVANCE DAILY SERVICE, read Pacific Construction Daily, $75 per year. Rates for U.S. and Alaska.

PACIFIC ARCHITECT AND BUILDER is published monthly by Pacific Builder and Engineer, Inc., 2418 Third Ave., Seattle 1, Wash., and is mailed on the third Saturday of each month. Price: $4, per year. Acceptance under P.L.&R. 34.64 authorized.

PERSPECTIVES

by Pacific architects

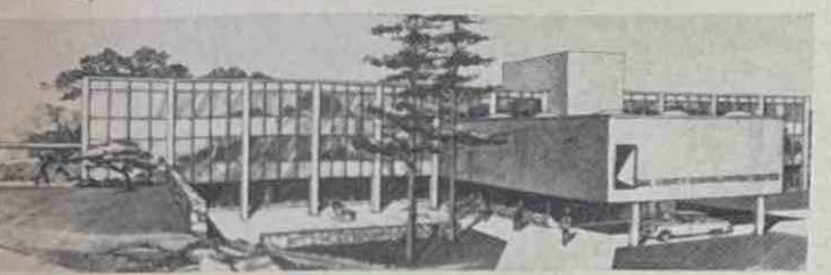


EDUCATIONAL UNIT ADDITION for Parkrose Community Congregational Church in Portland will be two-story structure with covered passageway to main building. Half of precast concrete fins, which will serve to shield light, will support second floor and roof. Building also will have some wood frame structural members, cedar siding, aluminum sash and flat, built-up roof. Warren Weber, AIA, has designed project.

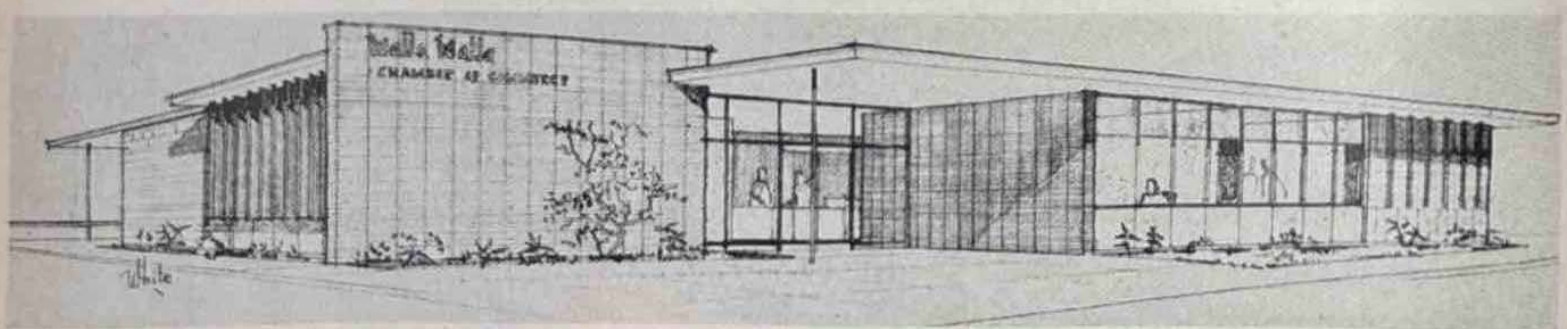


MULTIMILLION DOLLAR PLANT of Insley Manufacturing Corp. and its subsidiary, The Maxi Corp., is now under construction on 35-acre site in Puente, Calif. Adjacent to and south of Union Pacific main line, it is located on Turnbull Canyon Road. George Vernon Russell & Associates are architects for plant, where self-propelled cranes and shovel carriers will be made.

PROPOSED REHABILITATION CENTER planned by King County (Wash.) Society for Crippled Children. Several Seattle sites are being considered for building, for which preliminary plans have been prepared by Decker, Christenson & Kitchin, architects-engineers.



UPON COMPLETION of this $85,000 one-story building next October, Walla Walla (Wash.) Chamber of Commerce will move from leased quarters on top of city hall. To be built of expanded shale blocks, it will have brick exterior and 3,750 sq. ft. Architects are Harold Crawford, H. Brandt Gessel and Thomas O. Williams.



Building News - Trends - Views

A SAN FRANCISCO ARCHITECT, Arthur Brown Jr., AIA, has been named one of three chief advisers for the proposed multimillion dollar remodeling of the U.S. Capitol. The designer of San Francisco's City Hall, buildings at Stanford University and at the University of California and the Labor Department and Interstate Commerce buildings in Washington, D.C., will serve with architects John F. Harbeson of Philadelphia and Henry R. Shepley of Boston.

The proposed remodeling will extend the center of the Capitol forward under the dome and improve its proportions relative to the Senate and House wings, according to the project's proponents.

THE BEST LOCATION for Portland's $8 million exposition-recreation center is the South Auditorium site, its architects have declared. Skidmore, Owings & Merrill made their recommendation to the E-R Commission early this month after studying two other centrally located sites termed "feasible"—the Broadway-Steel Bridge and Buckman Field.

A PRIVATE BATH FOR EVERY BEDROOM someday may be commonplace for homes at every level of construction. Paul J. Doyle, president of the Associated Plumbing and Heating Contractors of Montana, told the annual convention in Butte last month that every member of a family should have the enjoyment and benefit of a bath of his own—even the children, with junior-sized fixtures that can be replaced at a later date with those of regulation size. "No one wants a single-bath home any more," Doyle declared. "That's one very good reason why so many older homes are hard to sell."

THE LOS ANGELES BOARD OF EDUCATION has voted to revise agreements with architects concerning re-use of construction drawings. Area school architectural fees formerly were 8% on projects costing up to $1.5 million and 6% for anything exceeding that amount. Where the school district furnished services, the percentages were reduced to 7 and 5%.

Under the new schedule, adopted in an effort to streamline the city's school building program, the compensation to architects will be at the rate of 8% on the first $1 million, 7% beyond that figure to $3 million and 6% for more than $3 million; school services will reduce the fees to 7, 6 and 5% respectively. Where drawings and the same architect are used to rebuild other structures, the fees will be 4, 3½ and 3%.

AIR FORCE ACADEMY BUILDING PLANS, with the exception of the controversial chapel, have been approved by Air Force Secretary Donald A. Quarles. The project will be built near Colrado Springs, Colo.

OREGON'S 1957 LEGISLATURE is expected to give considerable attention to a long-term construction program involving state institutions and higher education centers. The plan would provide a priority schedule so that buildings most needed would be given right of way over other work. Presently construction of state institution buildings is under jurisdiction of the State Board of Control, higher education buildings under the State Board of Education. The State Emergency Board has to approve construction before it can start.

At a recent meeting of the State Board of Control, Gov. Elmo Smith warned that he does not sanction approval of architects' plans for state buildings where the cost exceeds legislative appropriations.

SLUGGISH HOME BUILDING is expected to get a new shot in the arm from federal lawmakers as this year's major housing legislation starts on the bumpy road through Congress. A housing program for elderly persons is the only really new aspect anticipated in a catch-all bill, with stepped-up loans for servicemen and college dormitories thrown in for good measure.

A WORLD CONFERENCE on earthquake engineering will be held on the University of California campus at Berkeley June 12-16 to commemorate the 50th anniversary of the 1906 San Francisco disaster. The five-day meeting will be devoted to the presentation of technical papers on the latest design and construction practices in all the major seismic areas of the world.

A NEW METHOD OF CENTRAL SUMMER COOLING has proved to be economical and highly practical for homes heated by hot water or steam. Research at the University of Illinois shows that a cooling system split from the hot water heating system and operating on the so-called "liquid" or chilled water principle of cooling offers year-round conditioning at low cost. It does not interfere with or detract from heating quality and avoids the need for sheet metal duct work.

In the new cooling system a circuit of small piping is used to hook up a water chiller to a heavy duty forced convector, consisting of fan, coils and filter. The water chiller is placed in the basement, utility closet, outdoors or any other out-of-the-way location.

NORTHERN CALIFORNIA HOME BUILDERS played host last month to a visiting group of 13 Japanese home builders, contractors, engineers and architects who are touring the U.S. on a trip sponsored by the International Cooperation Administration. While in the Bay area they visited Marinwood and were shown some of the 4,000 homes now going up in the tract near San Rafael. Being built by Gerald G. Hoyt, the project is a $70 million investment and includes three schools, two shopping centers and parks.

The Japanese also will visit Phoenix, Kansas City, Chicago, Washington, D.C., and New York.



"HOMES FOR BETTER LIVING" AWARDS JURY meet to select best home designs from 343 entries in first annual AIA contest. Seated (l. t r.): Clarence Stein, FAIA, New York; L. Morgan Yost, AIA, Chicago; Joseph Haverstick, Dayton, Ohio, NAHB president; Neil Connor, director, Architectural Standards Division, FHA, Washington, D.C.; Earl Smith, NAHB past president, El Cerrito, Calif.; Miss Mary Hamman, modern living editor, Life magazine, New York. Standing: Peter Blake, architectural editor, House and Home, New York; Charles Goodman, AIA, Washington, D.C.; Pietro Belluschi, FAIA, dean, MIT School of Architecture and Planning; Worley R. Wong, AIA, San Francisco; P. I. Prentice, editor and publisher, House and Home, New York (jury chairman for merchant built houses); Paul Groesse, director of art and architecture for M-G-M, Culver City, Calif.; Proctor Mellquist, editor, Sunset magazine (jury chairman for custom built homes); Prof. H. L. Vaughn, chairman, department of landscape design, University of California at Berkeley.

CALIFORNIA: ARCHITECTURAL GRAB BAG



Guest Editor

DONALD BEACH KIRBY, AIA
San Francisco, California

This timely evaluation of California architecture has been written by a man who started his professional career in New York City, then moved to Los Angeles and now practices in San Francisco under the firm name of Donald Beach Kirby & Associates, architects-engineers. Long active in AIA affairs, his term as director of the California-Nevada-Hawaii Regional Council expires in 1957.

ARCHITECTS who live in California are lucky—no Gothic, no Cape Cod tradition to haunt them. With all architectural eyes on California at this moment of the national AIA convention in Los Angeles, it is timely to review this product of our creation.

California living is envied by thousands of persons who come here to see whether we do actually produce "Architecture for the Good Life" as advertised in the convention theme.

In general, California architecture has progressed. Design is being more thoroughly studied. We see less self-consciousness. There are examples of open planning, free design elements and inventiveness in structural form. Some structural solutions for large buildings have been translated into smaller work. But the cliches are still with us.

One encouraging trend is the increased use of fine arts in conjunction with architecture. Some architects are beginning to be aware of the advantages of integrating fine arts in their design, particularly in liturgical work. It will take a long time, however, before either architect or layman understands that integration of art and architecture is not just a building with frosting.

Why has design improved in California? There are signs around us to indicate that some laymen appreciate better design. A few home builders are merchandising design by registered architects. The AIA nationwide public relations program has brought slightly more acceptance of the architect. Material producers have encouraged the employment of the architect.

There is ample evidence of recognition of good work done in California. Our colleagues have selected for First Honor Awards in the national AIA program two California architects in a total of five; six out of the 14 awards of Merit also came to California.

California has won a lot of awards, this year, last year, and the year before; however, let us not be **SMUG.** Actually, they represent the creme de la creme: the top off the top. The fantastic volume of building in California is not **all** well designed. Much of it is ghastly, some mediocre, a mere handful distinguished. What is the truth?

The truth is that very few merchant builders are actually working with architects. Lots of tracts are going up based on carpenter-draftsman's rehash of design and well worn floor plans. It is still a seller's market. If you can finance it and build it, you can sell it. Community planning, city planning are largely conversation. Tiresome rows of monotonous white houses march up and over the lovely hills of San Francisco—up and over with no regard for contours, in fact, contrary to contour. Houses with no side yards, built tight together—nothing learned from the fire of '06. Up and down the coast—from Oregon to Mexico—our cities have fallen into similar traps. Mistakes made in old eastern cities have been repeated out here.

Where are the garden apartments with light and air for everyone; with group garbage disposal; group lawn care; central heating; close-in location? No, we go out to suburban lots—too big for the average homeowner to care for; so far out that he must commute for hours. Central heat? No, each owner wrestles his own furnace and water heater. Trash disposal? No, you burn it in the backyard and add to the smog.

Our cities stretch out in straggling, growing tracts so that you drive from San Francisco to San Jose or from Los Angeles to Capistrano without ever being in the country. Decentralization, yes; dispersal, yes. But what are the benefits?

The architect is indicted who gives his client the first thing he asks for, rather than argue for what he needs.

California, with the biggest building boom in its history, is indicted; it has scarcely recognized community living or growth problems and has done little or nothing to solve them.

It is an indictment against both architect and client that neither has faced the fact that buildings, like automobiles, outlive their usefulness. Outmoded buildings are like hand-me-down clothing, makeshift and inconvenient.

We indict the public demand for cheapness in construction which they dignify as economy. The public also seeks so-called permanent construction that is not permanent and has no right to be. To patch a building after it has outlived its economic life is contrary to public interest.

These indictments are true all over the USA, not just California. They are really community growing pains. We can be very proud of our awards. We shouldn't be smug because our sites and climate are spectacular and we have a relatively advanced clientele. We ought to do good work and yet we have relatively few distinguished jobs to point to. We have all the advantages but we've muffed most of them. I'm as guilty as anyone.



THE WINDOWS YOU WANT

made and installed on time by Soulé

Soulé Intermediate Window Wall and Windows in
Hamilton Recreation Center, San Francisco.
W. G. Merchant, A.I.A., M & K Corp., Contractor.

Soulé Intermediate steel windows impose no limit to stock sizes. When you design a window or window wall job, specify the opening sizes you want. Soulé sales engineers will work with you, help assure you the exact window you design at the price you want to pay. All Soulé metal windows are made in the West, for fast transmission of details and delivery to your job on time. A big plus advantage is installation by our own crews, guaranteeing you a workmanlike job. You deal with one responsible Company for the manufacture and the installation of your intermediate steel windows.

Soulé
LEADER IN METAL WINDOWS

SOULÉ STEEL COMPANY

San Francisco 1750 Army St., VAlencia 4-4141 • **Los Angeels** 6200 Wilmington Ave., LUdlow 5-0911
San Diego 3741 Fifth Ave., CYpress 5-6289 • **Portland** 2630 N.W. St. Helens Rd., CApitol 3-5154
Seattle 4100 W. Marginal Way, HOlly 3600 • **Spokane** 405 American Legion Bldg., MAdison 6000
Phoenix 2026 S. Eleventh Ave., ALpine 3-3178 • **Salt Lake City** 200 Greyhound Bldg., EMpire 3-7601
Dallas 528 Interurban Bldg., RIverside 5225

CATALOGS IN SWEET'S

3739

Police headquarters: all facilities under one roof

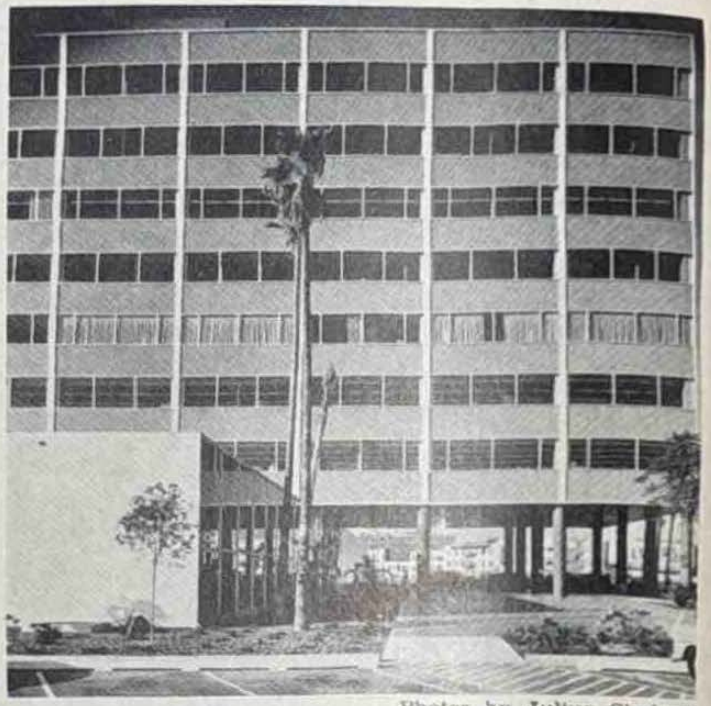
Police Administration Building
Los Angeles, California

WELTON BECKET & ASSOCIATES
and J. E. STANTON, AIA
Associated Architects

MURRAY ERICK and PAUL E. JEFFERS
Associated Structural Engineers

RALPH E. PHILLIPS, INC.
Mechanical-Electrical Engineers

FORD J. TWAITS CO.
and MORRISON-KNUDSEN CO., INC.
Associated General Contractors



Photos by Julius Shulman

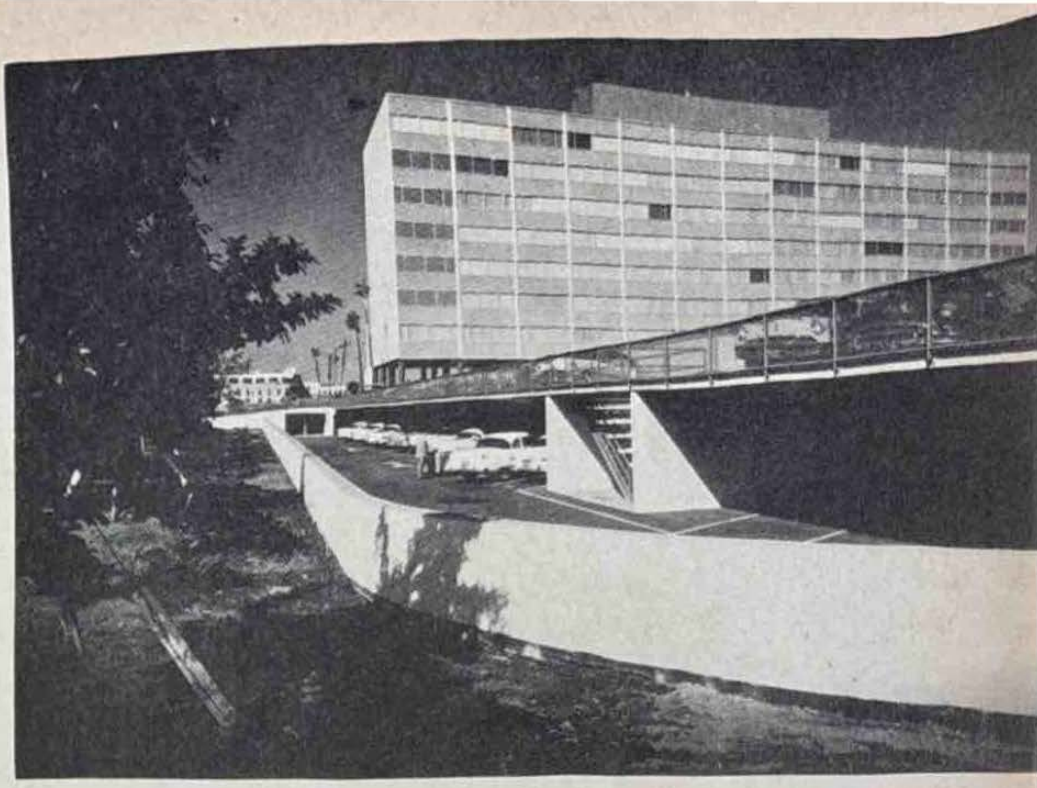
EXTERIOR MATERIALS: mosaic tile spandrels and columns, rigid aluminum sash, ceramic tile windowless wall areas.

COVERING a full city block in the downtown civic center, the eight-story police headquarters with basement represents the first entirely functional approach to the physical problems of police administration and is expected to establish precedents for the planning of similar buildings. And while such projects seldom are worthy of architectural recognition, this one has been selected for a 1956 AIA Award of Merit.

The building is noteworthy too for the incorporation of two unusual pieces of art: Joe Young's glass mosaic mural which hangs in the lobby (see p. 14) and Bernard Rosenthal's controversial sculpture of a family group, mounted on the wall beside the main public entrance.

All of the various units of the municipal police department, formerly scattered among half a dozen different buildings, are brought together under one roof, with the overall plan permitting a closer integration than ever before attained. Related police activities are found on the same floor. This centralization provides better service to citizens visiting the department for informa-





SLOPING SITE provides two-level parking area for more than 850 police cars. Parking also is available for public in separate lot.

tion, advice or assistance; and with all records and report-taking facilities in one place, both officers and public save time and effort.

The $6 million reinforced concrete structure has precast concrete partitions in many cases to cut costs. Rigid sash windows have been installed throughout, ventilation being provided by air conditioning—except in the jail. Windowless wall areas are surfaced with glazed ceramic tile; spandrels and columns with mosaic tile.

To form the multitude of offices needed, the architects specified movable wood partitions wherever possible, allowing flexibility and reorganization at minimum expense. In the jail areas unbreakable glass partitions were frequently used instead of solid wall or bars to afford more supervision of prisoners with less personnel.

An extensive pneumatic tube system for sending messages and reports speeds up administrative operations. The sender merely dials the desired destination on an electronic device and deposits the papers in the tube. Automatic controls route the material to the indicated office outlet.

One of the economy measures designed into the building is the piping of steam from the heating plant of the health building which is directly across the street.

A combination ground and deck area provides parking facilities for more than 850 police cars. Space also is available for public parking. Underground squad rooms and lockers for officers can be easily reached from the lower level parking area. The basement contains assembly rooms for the officers.

The ground floor also houses the property division where a vault and refrigerator guarantee that articles ranging from jewelry to perishables will be stored safely while in custody of the department.

On the first floor are the business offices, information center, communications, traffic division, police commission offices, jail for initial booking procedures and a completely equipped auditorium and stage for "show-ups." Seating 400 persons, the auditorium has a huge screen permitting the victims to identify suspects while the prisoners cannot see the audience. With electric controls it is possible to reproduce the lighting conditions under which victims may have seen the suspects during the commission of a crime.

The felon prison and the record and identification bureaus are on the second floor; the detective bureau on the third floor; various police bureaus and business offices on the remaining five. The eighth floor has an employee cafeteria and lounge.

The typical upper-floor plan consists of a central core of specialized rooms, surrounded by a corridor and perimeter of offices.

The nine levels of the building contain 407,826 sq. ft.: administration, 273,148; jail, 39,930; parking, 95,748.

Cost of construction was $6,142,548, more than $2 million under the proposed city budget for the structure, which was made possible by a bond issue passed by the citizens of Los Angeles in 1947.

In May 1949 preliminary plans for a police building were approved but recommended alterations caused a delay in construction. During 1950-51 rapidly spiraling building costs and material shortages resulting from the Korean War forced a redesign of the building to conform to funds available. Revised plans were approved in March 1952 and construction started the following January.

A total of 2,500 police officers and civilian employees work in or out of the building.

OUTLINE SPECIFICATIONS

Type of Construction: Bethlehem Pacific steel frame and reinforced concrete.

Exterior Walls: Reinforced concrete with Gladding, McBean Ceramic Veneer and mosaic tile spandrels.

Roof: Reinforced concrete.

Floors: Asphalt, rubber and ceramic tile over concrete slab.

Windows: Rigid aluminum sash with aluminum louvers on east and west walls of jail wing.

Interior Partitions: Precast concrete, movable wood and unbreakable glass (jail).

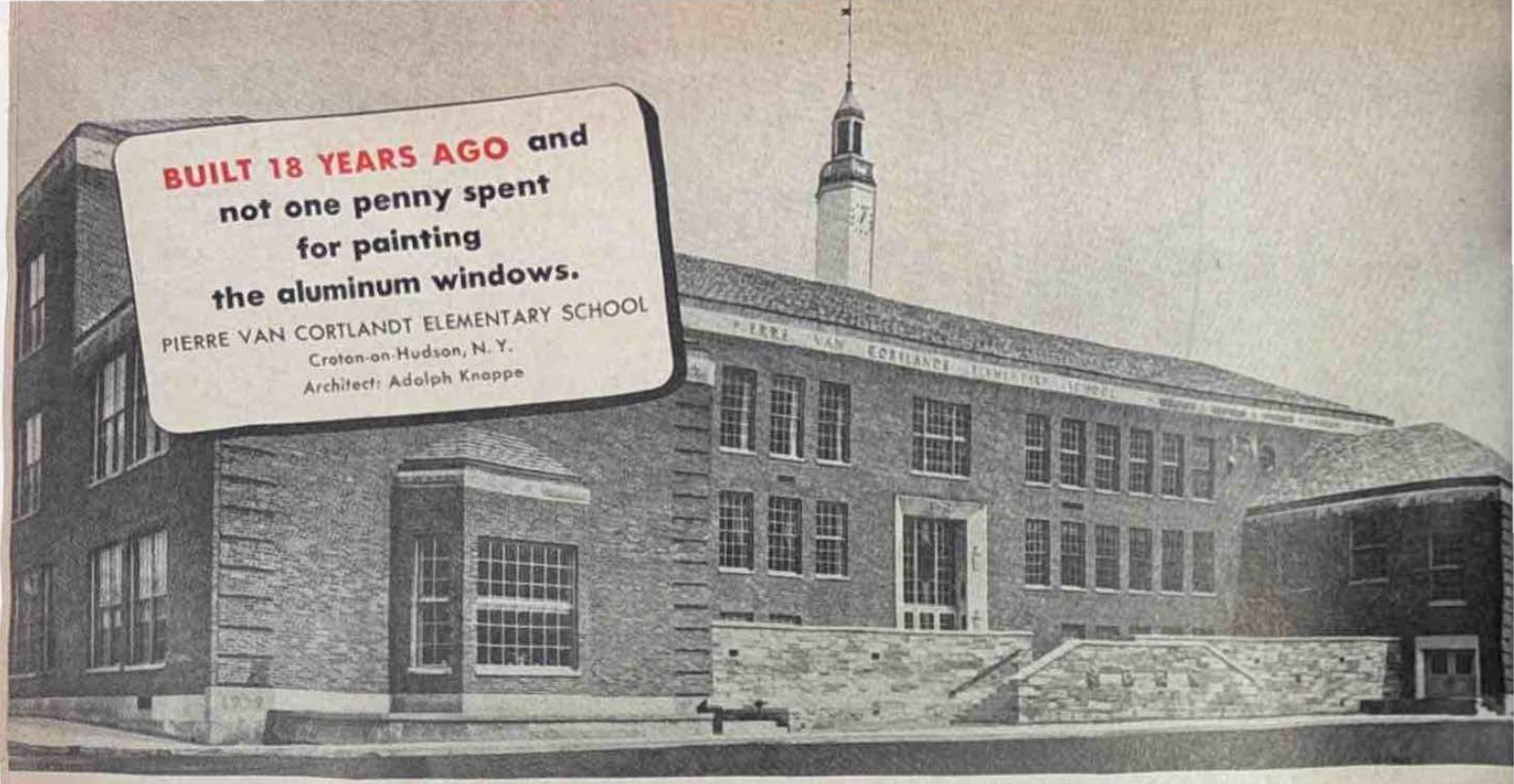
Lighting: Fluorescent and incandescent.

Heating: Steam piped from health building across street.

Total Area: 407,826 sq. ft.

Total Cost: $6,142,548.

Date of Completion: October 1955.



YOU DON'T HAVE TO TAKE OUR WORD FOR IT!

EXPERIENCE PROVES..

YOU CAN... *save money*

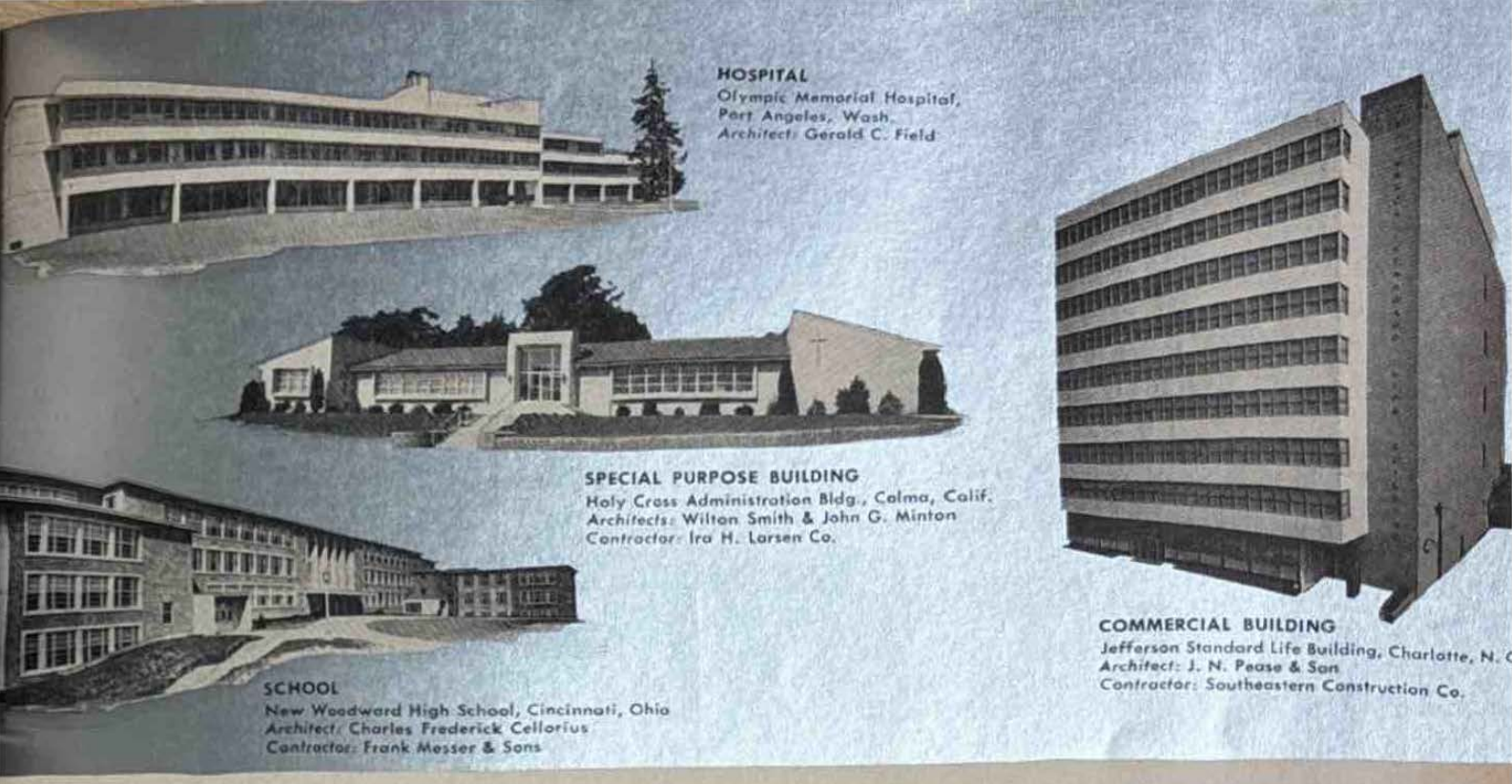
WITH WINDOWS THA

never need painting!

QUALITY APPROVED
(TYPE)
A.W.M.A. Quality Specifications—Materials, Construction, Strength of sections and Air infiltration requirements—confirmed by Pittsburgh Testing Laboratory
MEMBER—ALUMINUM WINDOW MANUFACTURERS ASSOCIATION

Quality Approved

ALUMINUM



HOSPITAL
Olympic Memorial Hospital,
Port Angeles, Wash.
Architect: Gerald C. Field

SPECIAL PURPOSE BUILDING
Holy Cross Administration Bldg., Colma, Calif.
Architects: Wilton Smith & John G. Minton
Contractor: Ira H. Larsen Co.

COMMERCIAL BUILDING
Jefferson Standard Life Building, Charlotte, N. C
Architect: J. N. Pease & Son
Contractor: Southeastern Construction Co.

SCHOOL
New Woodward High School, Cincinnati, Ohio
Architect: Charles Frederick Cellorius
Contractor: Frank Messer & Sons

ALUMINUM WINDOWS KEEP MAINTENANCE EXPENSE AT A MINIMUM

If you're interested in keeping maintenance expense at a minimum you can profit from the experience of many schools (like the one pictured on the opposite page), hospitals and other buildings erected 15 to 25 years ago with aluminum windows.

School officials, hospital superintendents and others responsible for the maintenance of these buildings are unanimous in their praise of the aluminum windows. They all report that not one penny of expense has ever been required for painting them.

Now, just think what this means to the annual school budget. Think of the money that will be saved—extra money that can be well used for salaries, for books and for other necessary items. Certainly, the selection of aluminum windows for any type building is a wise choice that will pay handsome dividends.

As you plan new schools, hospitals, apartments or commercial buildings be sure you, too, include "Quality-Approved" aluminum windows. They are the only practical, reasonably-priced windows that *never* require painting . . . that cannot rust or rot, warp or swell . . . that retain their trim, modern looking appearance for the life of the building.

"Quality-Approved" aluminum windows are available in all types — double-hung, casement, awning, projected, sliding and jalousies — to fit any exterior design.

They are made by many manufacturers (see list below) to rigid quality standards established by the Aluminum Window Manufacturers Association. For your protection and complete satisfaction be sure to insist on the "Quality-Approved" Seal when you specify or OK specifications for aluminum windows.

A WORD OF CAUTION—Remember that only aluminum is rustproof through and through. Mere surface protection against rust is not enough. Wear, unintentional scratches in delivery or installation may nullify any protective coating and soon require painting.

For additional information consult Sweet's (Architectural File, Section 16a/ALU) or any of the approved manufacturers listed below, or write for our latest "Window Specification Book". Address, Dept. PAB-65.

Aluminum Window Manufacturers Association

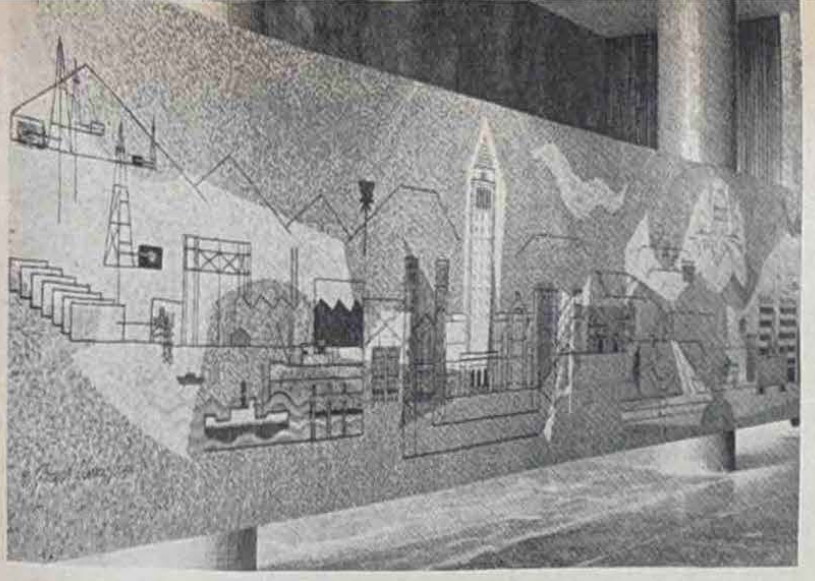
75 WEST STREET, NEW YORK 6, N. Y.

MEMBERS: Alcasco Products, Inc., Detroit, Mich. • The Wm. Bayley Co., Springfield, Ohio • Bourne Products, Inc., El Cajon, Calif. • Ceco Steel Products Corp., (Sterling Aluminum Window Division), Chicago, Ill. • Cupples Products Corp., St. Louis, Mo. • Duralite Window Corp., Knoxville, Tenn. • Fentron Industries, Inc., Seattle, Wash. • Michael Flynn Mfg. Co., Philadelphia, Pa. • General Bronze Corp., Garden City, N. Y. • Luria Building Products, Inc., Bristol, Pa. • Metal Arts Mfg. Co., Inc., Atlanta, Ga. • Reynolds Metals Co. (Parts Division), Louisville, Ky. • J. S. Thorn Co., Philadelphia, Pa. • Universal Window Co., Berkeley, Calif. • Ware Laboratories, Inc., Miami, Fla. • Windalume Corp., Kenvil, N. J.

WINDOWS

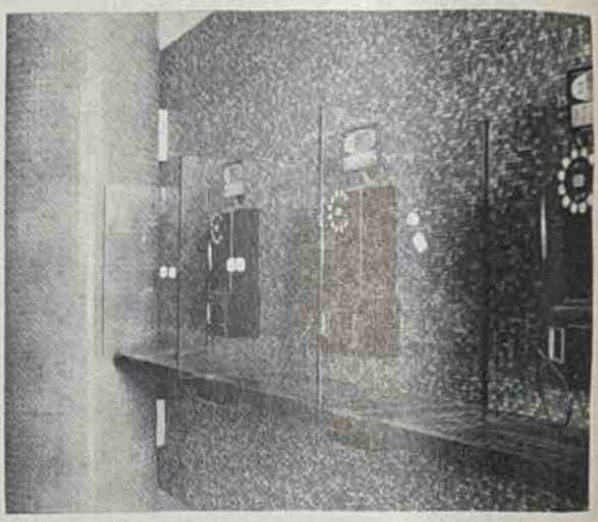
Police Administration Building

Joe Young's Mural



SIX TONS OF MOSAIC MURAL hang from structural columns in lobby. Back of panel supports public telephones.

"This was an unusual opportunity wherein architect and artist were able to collaborate freely. Perhaps in this sense the end result might be described as a 'transitional' mural, i.e., a situation that required the mural to come down from its traditional position on the wall and be employed as the contemporary space modulator it should be. If this turns out to be a contribution to the historical evolution of art integrated within architecture, then much of the credit should go to the planning of Maynard Woodward, AIA, as head designer for Welton Becket & Associates."—*Joe Young.*



CERTAINLY one of the high points of interest in the Police Administration Building is the hanging mosaic mural, first major work of this type to depart from a conventional wall installation and the largest ever executed in the United States.

Seeming to float in the air in the building's lobby, the six-ton monumental mosaic by Joe Young consists of more than 250,000 tiny glass stones, each one set by hand in 50 diverse colors. The mural, 36 ft. long and 6 ft. high, is cantilevered from two structural columns and serves as a divider partition between the lobby and the public telephone area.

The 436 sq. ft. of mosaic surface presents a panoramic theme of Los Angeles and its architectural growth. The city skyline seems to move with the spectator as he walks through the lobby. The rear of the mural, finished in monotone colors of hand-set glass stones, acts as a panel to support the telephones which are installed in the panel itself.

Young took two years to create the mural, using steel, aluminum, copper, concrete and glass. Copper lathing was reinforced with concrete for the basis of the panel structure.

The tiny pieces of glass were set in the artist's studio, mounted on paper sections and then installed on the cantilevered wall. Seams from one section to another are invisible. The mural will last hundreds of years and can be cleaned with a hose.

Briefly, here is the step-by-step process in executing the mural as outlined in the American Artist magazine:

1. Once the design of the mural was decided upon, the first step in making the mosaic was the enlarging of the cartoon to full scale.

2. When this full-scale cartoon was completed, it was cut into sections for working convenience. The size and areas of these sections had been determined in the planning stages of the project. Then, like a huge jigsaw puzzle, the parts were carefully assembled in reverse since, during installation, the face of the mosaic was pressed into the concrete.

3. Mosaic pieces (Italian glass tesserae) had to be cut by hand to assure the right size and color for each space in the design.

4. To set the tesserae in place, mastic was first brushed on the cartoon, which served as a backing for the tesserae as well as a guide to the exact placement of pieces in the design. Tesserae of the proper size and color were selected from small bins of sorted pieces and set in place on the cartoon.

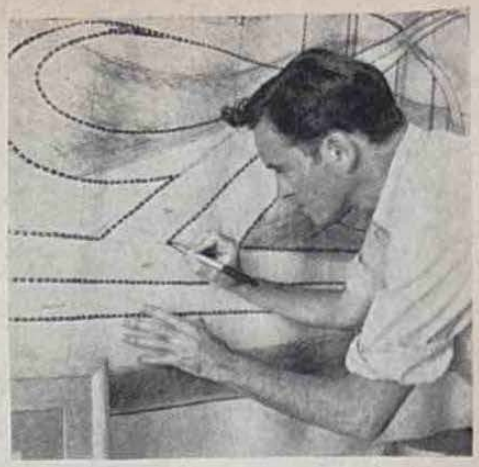
5. As the work progressed, small mosaics were held in position with neighboring sections of the original cartoon to check the accuracy of the linear mosaic design.

6. Small sections of mosaics were stacked on top of each other for packing.

7. The mosaic sections were set into a special brown grouting cement.

8. When all sections were in place and the cement had dried, the paper cartoon — which had served as backing for the tesserae — was removed, revealing the finished mosaic mural.

Integration of the arts in architecture



by JOE YOUNG

Reprinted from the Southern California Chapter, AIA, Bulletin

IN THE PAST 10 YEARS, many panel forums have discussed "integration of the allied arts within contemporary architecture."

In most of these sessions, the invited speakers generally admit that a synthesis of the arts is the unsolved problem of our culture. Some experts explain the lack by pointing to the diversity of our society and say, as long as decentralization is a goal, integration will progress slowly. A few refuse to admit any problem exists and in one instance I actually heard an architect, who never commissioned an artist, argue vociferously with an artist, who had never executed a commission.

Whatever the opinions, these discussions have evoked recognition of a serious shortcoming, often the first step to a solution. If what has been stirring on the West Coast since the war is a portent of the future, then we certainly are no longer in the academic stage of discussion, but beginning to work out an answer.

It is well known that architects in this area are no longer completely oriented by what occurs in the East. This regional self-sufficiency, which had to happen on many levels all over the country before it influenced local building concepts, helped this particular area to lead a significant break-through on some of the important design accomplishments of our time. This leadership meant new responsibilities and how these weights were to be carried became the challenge.

In the Southland alone, the number of architects who have awarded commissions to artists has begun to bridge that vast gap that divides architecture in America from its natural allies. We must admit some planners still haven't learned that art didn't commence with Mattise or Mondrian, any more than it ended with the Renaissance. It is just as urgent that artists come down out of their ivory towers and apply themselves to learning the practical nature of the building profession.

If we are edging out of this period, when suspicion among the arts impeded all coordination, then it is in part due to the architects who first achieved a wider freedom of design and realized that endless facades of textures were not the answer. Glass and stone combined with brick and tile may create a required simplicity, but for the want of an artist's contribution, the essential purpose of the building often goes unexpressed. Everything in our past indicates we are a nation ready to utter dynamic images and yet, in one of America's important decades, how many structures reflect a Spartan purity that underestimates our needs? If the enlargement of our environment into a wider meaning is the mission of the architect, then to succeed, the breadth of this ambition must encompass every activity. Our best schools have accepted this premise, but in getting down to cases, just how does an architect with an opportunity go about selecting an artist for commission?

First, experience shows that following the AIA regulation on providing free sketches works out best when architect, artist and client all agree on this as a guide. Second, in seeking an artist to perform a commission it is also best to encourage mutual confidence by entrusting the problem to one artist as versus running a competition. The ability to make a building speak requires high qualifications and so the artist who can organize a project **with** the architect is the ideal. Admittedly these artists are rare, but it is also important to remember development in this direction by an artist can only come if he is awarded commissions.

An obvious precaution is to avoid the artist who mistakenly believes, simply because he works large, that he is qualified to collaborate. A developed sense of structural scale is more important than mock-heroics. The contemporary architect cannot afford to entrust his building to those artists who abort the architectural medium itself because they have no sense of continuity with the past; men who can only think in terms of obscure allegories or sterile illustrations of sentimental ideas—and this exists in the most advanced forms of cubism as well as in the more representative forms of art!

Generally the commissioning architect wants his buildings to feel human and the imaginative artist has much to offer. His knowledge of color-form has developed his sense of imaginary space and controlled illusory space can be an indispensible foil when integrating actual planes. Since the artist's direct language of visual imagery is of ancient and almost magic potency, then great care must go into every stage of the planning.

This artist can't be the sort of fellow you telephone if the finishing-up budget will permit, nor is he of any value if his work is arbitrarily added like a patch to conceal the haste of hurried planning. Successful integration cannot afford such luxurious crutches. Synthesis depends on the architect's willingness to persuade the client that his own best interests are at stake and that art integrated within a structure is essential to the function of a building.

Today a creative architectural artist knows the optics of wall perspectives, how to utilize color in a unified sense and the infinite possibilities of acoustical and mobile structures coordinated with light engineering. The tasteful use of plastics as transparent or translucent planes is understood. Photo-murals, collages, stereoptic walls and sculpture—all have departed from the genre to become contemporary architectonic means.

The contemporary artist with a thorough knowledge of the architect's spatial problems will accept all op-

Continued on page 32



Photos by William Ladner

FIRE STATION AND SNACK BAR with tree preserved to add to homey, small town touch.

Washington State Veterans' Home
Retsil, Washington

Village living keynote

Victor N. Jones & Associates
Architects

Peter H. Hostmark
Structural Engineer

E. W. Weber
Mechanical Engineer

Beverly A. Travis & Associates
Electrical Engineers

Dahlgren Construction Co.
General Contractor

HOW FAR CAN architectural design go toward improving the living patterns within a state institution?

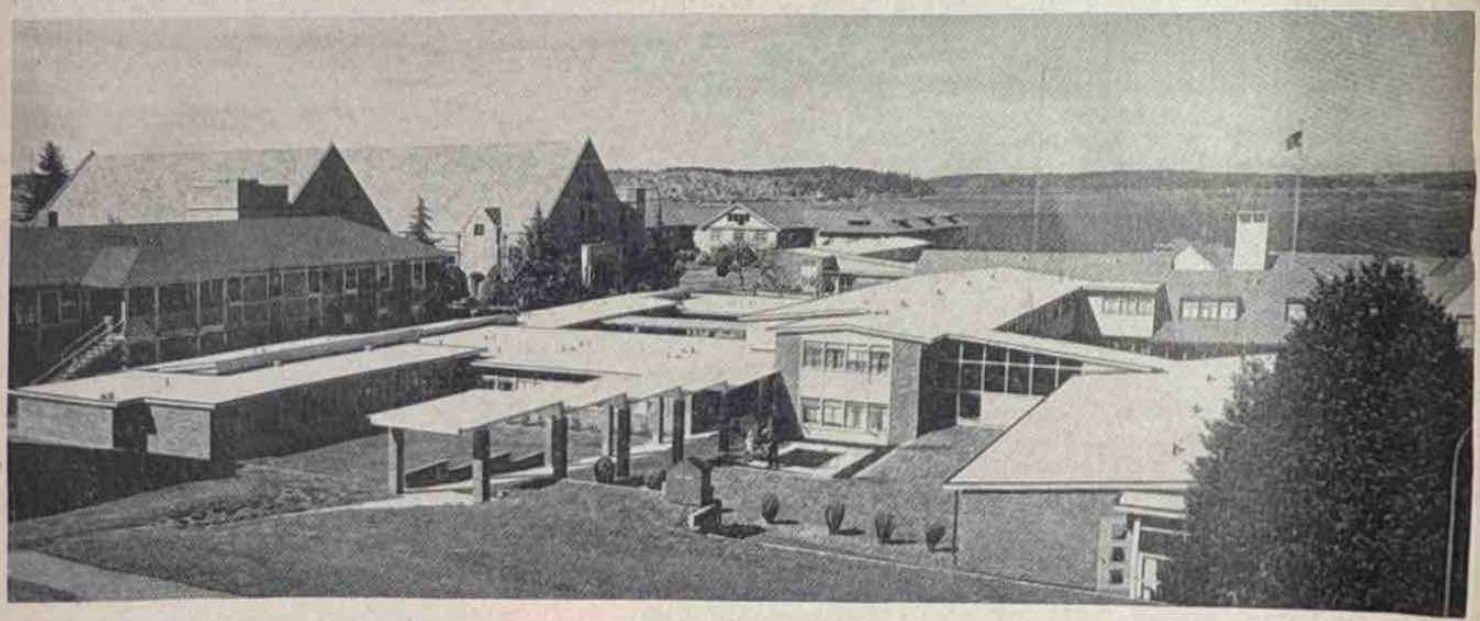
Can mere sketches off a drawing board hope to change age-old concepts of life within the confines of a government-operated "home?"

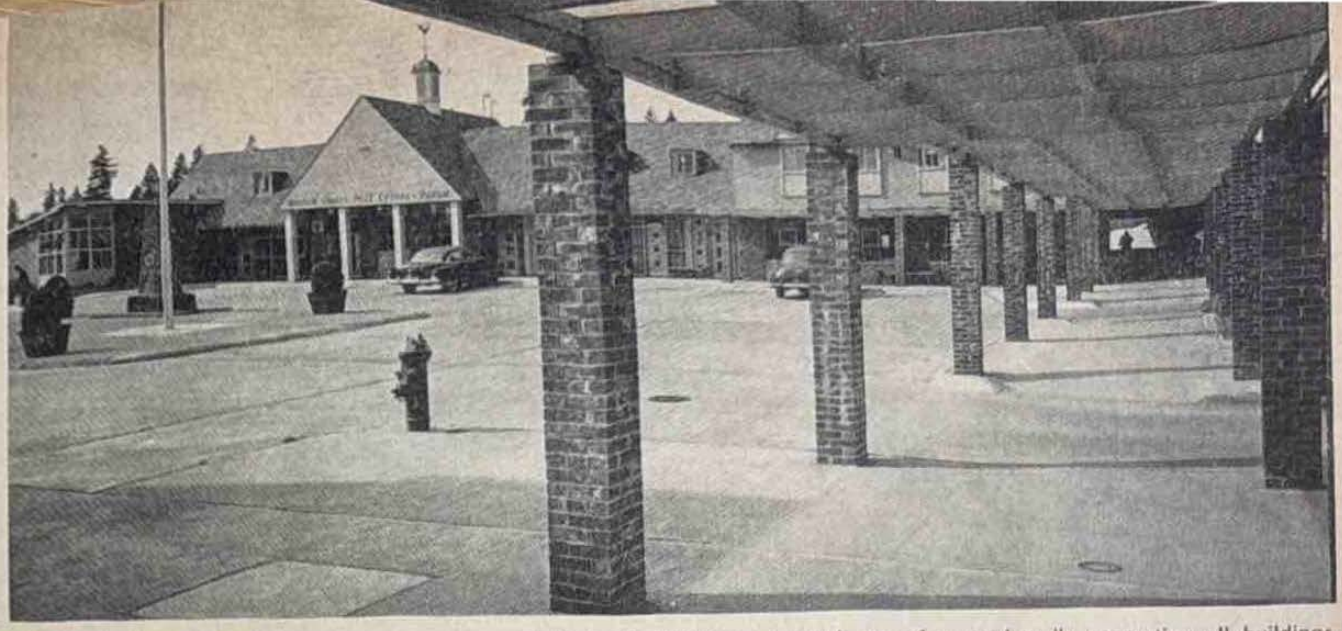
Answers to these queries can be found quite readily at the Washington State Veterans' Home in Retsil where a program of expansion has also included a new approach to institution living.

Here's the background of the story:

In 1910 the State of Washington dedicated a home for needy war veterans, their wives and widows. It was located on a 10-acre tract at Retsil, overlooking Sinclair Inlet and with a sweeping view of the Olympic Mountains.

SINCLAIR INLET AND OLYMPIC PENINSULA form backdrop for some new construction at veterans' home.





SQUARE AS SEEN from beneath one of covered walks connecting all buildings.

veterans' home expansion

by BOB KAROLEVITZ

That, of course, was three wars ago. Since then the population of the home has increased considerably until now it is on a waiting-list basis. The original living quarters became more and more crowded and, because of the increasingly older age-average of the inhabitants, some of the early facilities were proving hazardous, especially to the wheel chair portion of the population.

With those conditions existing, the State Department of Public Institutions under its director, H. D. Van Eaton, launched in 1951 a long-term program of additions, modernization and rehabilitation of the Retsil establishment.

The program afforded these prime considerations:

1. The addition of sufficient living quarters to eliminate the overcrowding, to permit the housing of more eligible veterans and to anticipate as far as possible the future needs of an ever-growing veterans' population in the state.

2. To provide further community facilities such as lounges, a post office, a fire station, administration offices and even a snack bar.

3. To confine this development to the original tract since property limitations precluded any expansions.

4. To locate the new living quarters close to the existing dining hall and hospital.

Faced with these problems, plus the generally accepted principle of designing institutional buildings to facilitate maintenance to the highest degree possible, the architects could immediately visualize a practical solution. Fireproof, multistory elevator buildings would make the most economical use of limited ground area, would allow for more apartment-like units and would provide off-the-ground views of the Olympic Peninsula's beautiful mountains. At the same time such buildings would cause minimum dislocation of established day-to-day operations of the home.

But there was another consideration much more important than any of these cold, practical, dollars-and-cents views. That was the human element: the requirements and the niceties which would make life more livable for the elderly inhabitants.

The first move then was to make a considerable study of the habits and desires of those who would be most affected by the new construction, the veterans themselves.

It was readily ascertained that the majority of inhabitants were Spanish-American War veterans whose average age exceeded 70 years. Many were confined to wheel chairs, and none were very active physically. The study just as readily indicated that these men, their wives and their widows would never be happy in a big-city apartment atmosphere; neither would the people of the World War I era now seeking entry into the home in ever-increasing numbers.

To them home is something informal, neighborly and intimate. The bigger the building, the more they feared the idea of becoming inmates rather than free-to-come-and-go citizens forced by circumstances into government facilities.

The first conclusion the architects arrived at was that living quarters must fit the veterans' concept of home. They must be tied to the earth and have an intimate scale. Only in such dwellings could fighting men of another generation live out their final years happily and in comfort—the ultimate reason for building such an institution in the first place.

These were the factors which forced the architects' thinking beyond mere walls, roofs and patios and into the realm of social considerations. The result was a new village type approach to institution living, featuring a village square, a semi-colonial style of architecture and the friendly, informal atmosphere so definitely hoped for by the Retsil veterans.

The final solution called for seven buildings of one and two stories grouped almost casually around the village square, which itself was developed on the site without changing the existing road pattern or displacing any important buildings.

Most of the buildings have been developed around



RAMPS used throughout new construction in place of stairs make walking easier for elderly members of home and facilitate wheel chair transportation.



OFF-THE-SQUARE VIEW shows rockeries and flower beds which offer recreational opportunities for oldsters who sport green thumbs. Ramps also are used outside buildings.

quiet interior courts, large enough to afford not only light and air but landscaping and sitting areas. The landscaping was planned to include flower beds and small rockery areas where veterans themselves can work at growing things.

The community facilities—the post office, the fire station, two large lounges, TV room, card room and snack bar, post exchange, beauty shop, barber shop and the administrative offices—face the village square.

The basic housing unit is a single bedroom of 136 sq. ft. with wash basin and 8 sq. ft. additional for wardrobe. Each pair of such bedrooms has a shared toilet. There are eight community bathrooms with showers, tubs, toilets and basins to serve the 228 rooms of this type.

A secondary type consists of 18 bedrooms and wardrobe with shared baths consisting of toilet, shower and basin. These rooms have individual exterior entrances independent of main buildings. They are for the use of members (as home inhabitants are called) whose physical conditions make desirable an adjacent bathroom. They are also used by single employees of the home.

Finally, there are seven suites with living room, bedroom and semi-private or private bath. These suites, on second floors, are assigned to married members and married employees.

All of the new buildings are connected by covered walks which lead eventually to the dining hall in an existing building. Covered walks also lead to the chapel and hospital facilities.

Throughout the new development, the physical inabilities of members are considered. Ramps have replaced stairways, lighting has been designed to make seeing easier for failing eyes and bathtubs have been equipped with handrails to prevent falling accidents. In the event of any emergency requiring evacuation of the buildings, the ramps and numerous outside entrances will facilitate such an exodus.

Many public institutions are built to house those who are paying a debt to society. However, those like the Washington State Veterans' Home have a direct opposite goal: to make a final installment on society's debt to old soldiers, sailors and marines who long ago defended their country in battle but who now are in the twilight years of their lives. Without a doubt the designers of the new facilities at Retsil organized the true purpose of the home.

Outline Specifications

Type of Construction: Masonry and wood frame combinations on reinforced concrete foundations.

Exterior Walls: Select common brick veneer backed with 4-in. concrete block; finished with ¼-in. cement asbestos board and fir siding, painted.

Roof: 3x6 t&g, supported by wood beams located about 11 ft. apart; 1-in. insulation board on top of deck, covered with built-up asphalt roofing and white marble chips.

Floors: Asphalt tile on concrete slab and on some wood second floors.

Windows: Aluminum sash.

Doors: Flush solid core fir cut for three glass panels, painted finish, exterior; hollow metal for all corridor doors to bedrooms; flush panel fir to private toilets and for sliding wardrobe closets.

Corridor Walls: 4-in. concrete block.

Room Partitions: 2-in. t&g solid wood, covered either side with ⅝-in. gypsum wallboard, taped joints.

Interior Trim: Fir base, chair rail and all trim, painted finish.

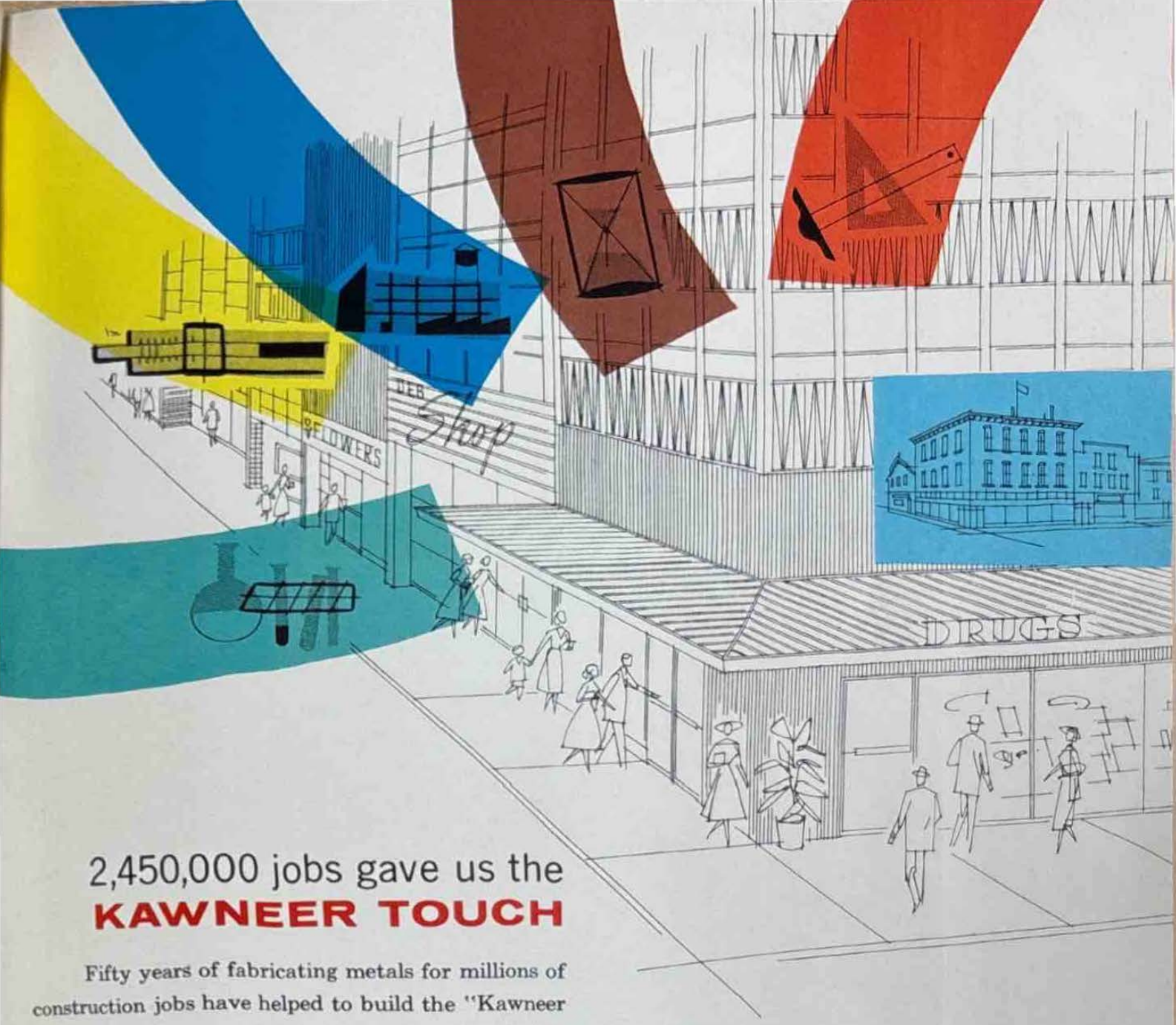
Ceilings: ⅝-in. gypsum wallboard nailed to bottom of wood roof deck and to wood furring on suspended ceilings.

Equipment and Specialties: Medicine cabinet and lavatory in each room; toilet room between each pair of rooms with grab bar on wall facing water closet; wide wood window stool (6 to 12 in. wide) covered with linoleum; built-in wood desk in corner of each bedroom; wood shelf (8 in. by 5 ft.) on wall side of each bed location; wardrobe closet (2x4 ft.) in each bedroom.

Lighting: Swing lights at head of bed, at end of desk and over medicine cabinet in each bedroom, bracketed to wall and provided with metal shade and indirect reflectors; bracket light in toilet rooms; no ceiling lights; corridor lights of dense boxes specially designed to mount in wall, with face of box at angle to throw main beam at 45 deg., about 20 ft. on centers.

Electrical: Service and distribution 440-volt, three-phase; dry type transformers located in each building; additions to main switchboard in boiler house with new feeder through existing tunnel to distribution center in village; all panels Westinghouse circuit breaker type.

Fire Alarm: Coded, supervised system providing continuous ringing bells in each building and setting off code box to give coded signal at fire station; break-glass stations at rear of each door.



2,450,000 jobs gave us the **KAWNEER TOUCH**

Fifty years of fabricating metals for millions of construction jobs have helped to build the "Kawneer Touch". All the new construction and modernization jobs from small store fronts to steamships have given us *our* skills . . . a "touch" that makes your job sparkle with finesse. On top of design and finish we offer construction "sense" that brings you metals that are easy to assemble on the job. You enjoy the benefits of *factory-controlled construction labor*. See your Kawneer representative and dealer. Their job is to serve you—to help you with information, details and specifications.

50TH ANNIVERSARY

Kawneer

General Offices
NILES, MICHIGAN

ARCHITECTURAL PRODUCTS DIVISION

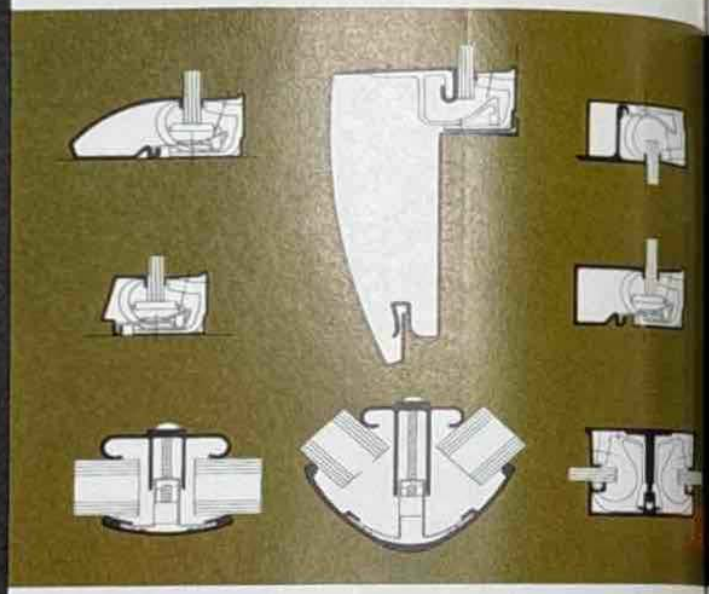
1906 – 1956

foremost fabricator of aluminum and plastics for the construction, aircraft and appliance industries since 1906.



the complete Kawneer line plus **NEW** 50th Anniversary products







a. doors and entrances
A complete line of narrow stile doors with the unique interchangeable hardware feature; wide stile doors; honeycomb core flush doors; and **new** full-vision, sliding glass doors for homes, offices and stores.

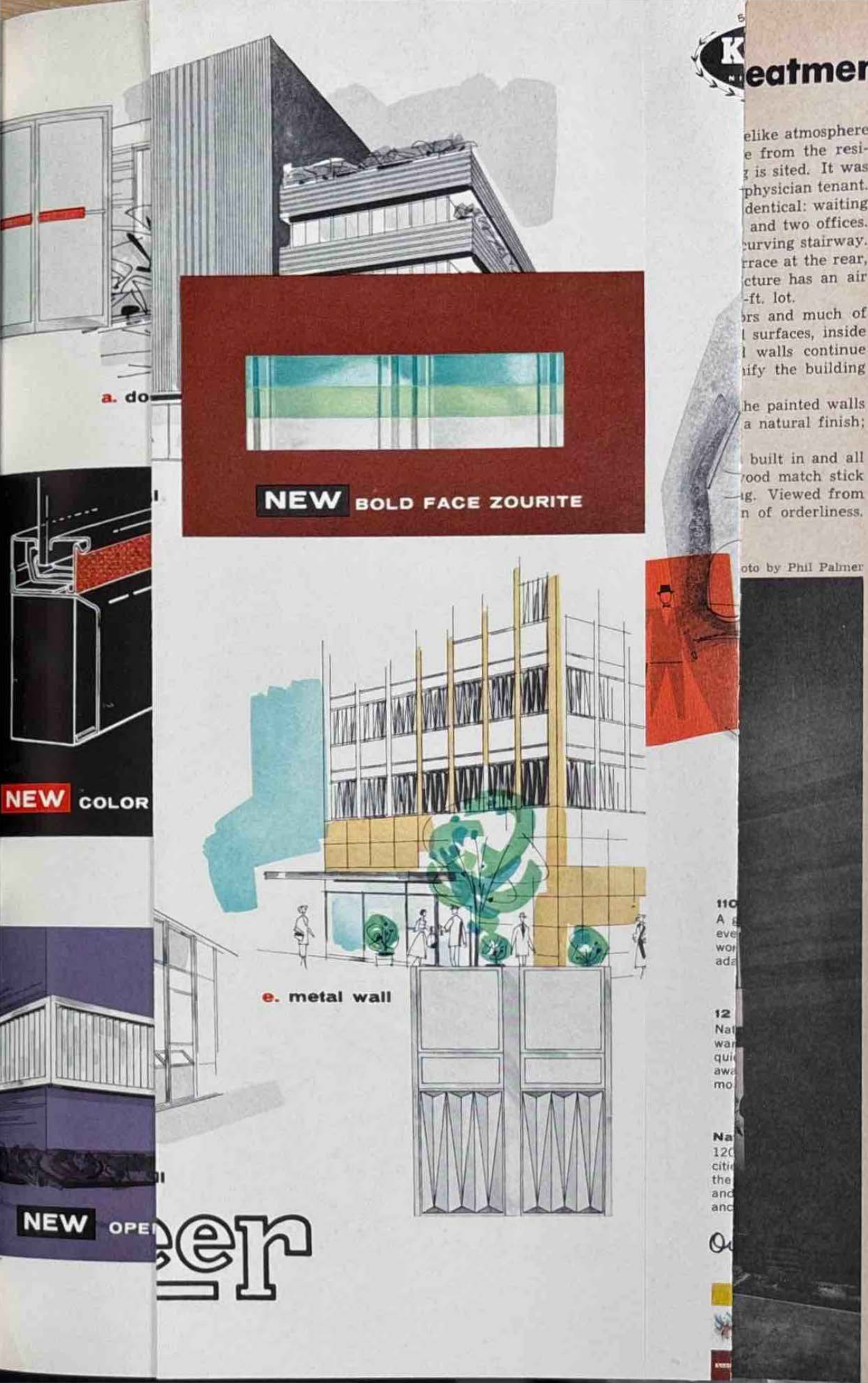
b. store fronts
An extensive variety of sash assemblies, trim members and facings to complement the store front design. **New** sash with a striking color stripe combines aluminum and vinyl.

c. sun control products
Durable, aluminum, sun-reflecting, canopies for store fronts, walks or parking. Sun-heat and glare controlling aluminum Kawneer K-Louvers, including the **new** *operating* unit help solve sun control problems.

d. facing material
Kawneer porcelain enamel and alumilited Zourite facing, now in two modular sizes and a variety of colors; the narrow-face 2″ and the **new** bold-face 6″. Can be used in combination or individually.

e. metal wall
Kawneer will provide shop-prefabricated and water-resistant window-spandrel units on the job, including erection. One responsibility from inception through installation.

f. unit wall
New unit wall system for single or 2-story buildings. Complete flexibility of design through a wide selection of color, unit types, unit sizes and choice of proportions, all with basic standard units. Superior weatherproofing system.


NEW BOLD FACE ZOURITE
NEW COLOR
e. metal wall
NEW OPE
eer
eatment
elike atmosphere
e from the resi-
g is sited. It was
physician tenant.
dentical: waiting
and two offices.
curving stairway.
rrace at the rear,
cture has an air
-ft. lot.
ors and much of
l surfaces, inside
l walls continue
nify the building
he painted walls
a natural finish;
built in and all
ood match stick
g. Viewed from
n of orderliness.
oto by Phil Palmer

OTH ANNIVERSARY

awneer

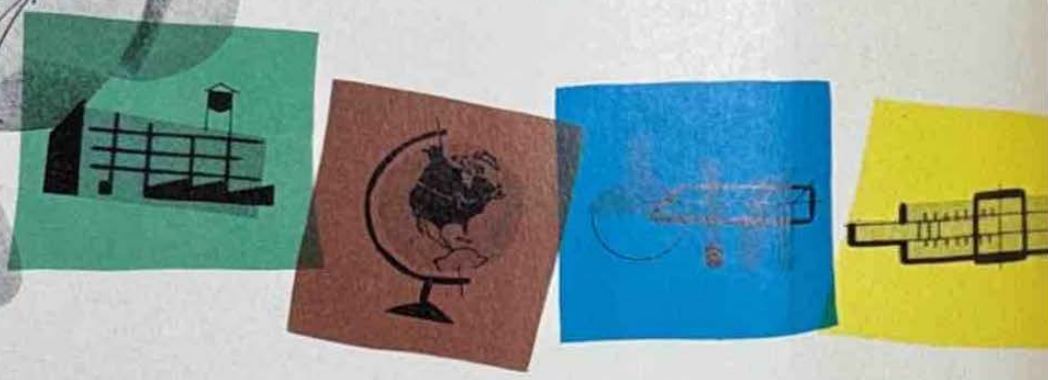
General Offices
LES, MICHIGAN

ARCHITECTURAL PRODUCTS DIVISION

1906–1956

co
Kawn
plus
50th





how kawneer assures your construction team

quality of materials, manufacture, design and application

a.

A complete line
unique inte
wide stile door
and **new** fu

An extensive
members and f
front design.
stripe

c.

Durable, alur
for store fron
and glare
K-Louvers, in
h

Kawneer p
Zourite facing,
variety of col
new bold-face

Kawneer will
water-resistan
job, including er

New unit w
buildings. Compl
a wide selection
and choic
standard units. Su

Field Representatives

roup of men thoroughly experienced in
y phase of architectural metal work. They
k with you and for you. Their job is to help
pt Kawneer products to your jobs.

Factories—Warehouses

ionwide warehousing in factories and
ehouses assures Kawneer customers
k service. Materials are just a few hours
y from any job. Your jobs get done faster,
e efficiently and economically.

tionwide Service

0 factory-trained dealers in towns and
s throughout the U. S. and Canada are on
job to service you. Their metal inventories
skills assure you a finished job in accord-
e with your plans.

50 Years of Production

This experience provides a storehouse of building front information, ideas and know-how. It's at work on your job from beginning to end, solving problems and working out new ways to help you.

Research and Development

A special department devoted to architectural products development and design. A crew of designers and research engineers who know the building field help your ideas grow.

Engineering Job Applications

Kawneer endeavors to help the architect and builder control construction costs wherever possible. By factory pre-assembly of metal wall units, for example, erection time can be predetermined to establish a fixed cost.

t front for 50 years with the Kawneer Touch



Architectural prescription: homey treatment

BECAUSE of the doctor-owner's belief that a homelike atmosphere is beneficial to his patients, the architect took his cue from the residential area in which this small medical office building is sited. It was designed to house the practice of the client and that of a physician tenant.

Except for a center court patio, the two floors are identical: waiting room, reception desk, two treatment rooms, laboratory and two offices. The upper floor is served by an elevator and a unique curving stairway.

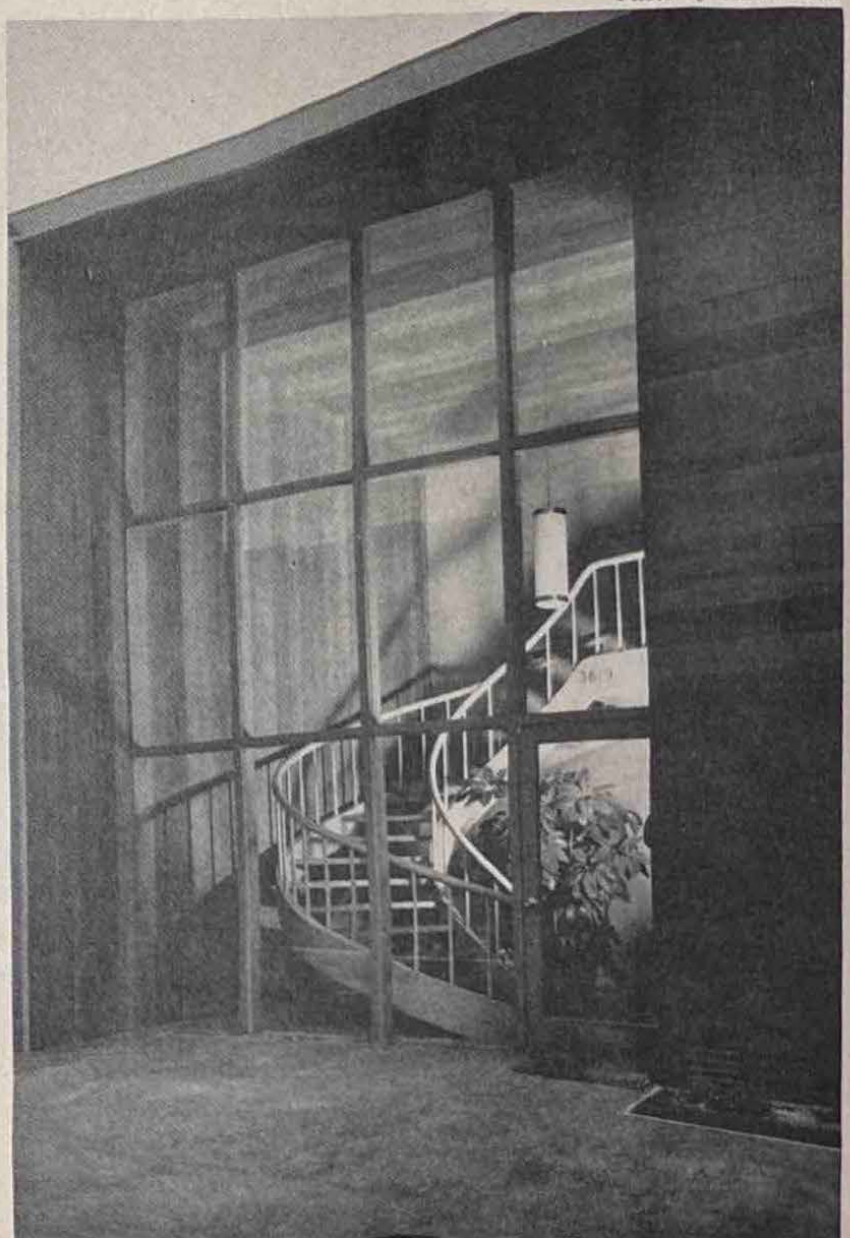
With the courtyard in the center and a screened terrace at the rear, all of the rooms get natural light and the entire structure has an air of spaciousness belying the narrowness of the 100x25-ft. lot.

To carry out the residential character, all exteriors and much of the interior are of a mellow California redwood. Wall surfaces, inside and out, are of surfaced 6-in. shiplap. The redwood walls continue from the interior out into the patio and terrace to unify the building with the outdoor space.

The redwood is finished in a natural, clear color; the painted walls are a soft gray green. The stairway is of oak, left in a natural finish; the woodwork is either redwood or birch.

Much of the furniture designed by the architect is built in and all of the windows, except those in the lobby, have redwood match stick drapes. Surfaces were kept simple for ease of cleaning. Viewed from the street, the building gives an immediate impression of orderliness.

Photo by Phil Palmer



Medical Office Building
San Francisco, California

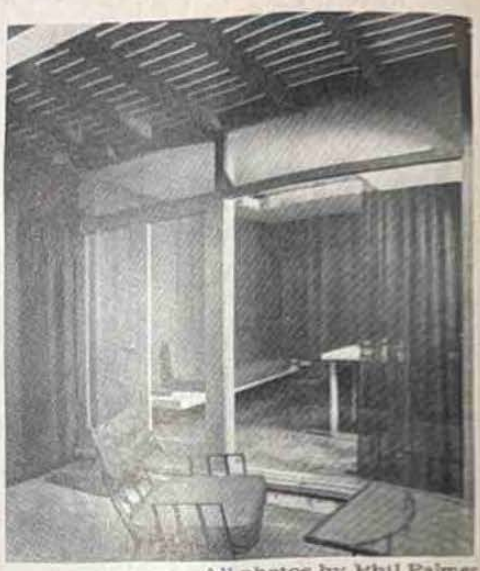
WARD THOMAS, AIA
Architect

A. L. VERDIER
General Contractor

STAIRWAY OF OAK dramatices lobby and main entrance. Second floor also is served by elevator.

Medical Office Building





All photos by Phil Palmer

LOOKING into waiting **room from patio** (left) which offers extra **space for use of patients** and visitors. Redwood **walls continue** into courtyard to unify building **with outdoor space** (below). Obscure glass, **backed by drapes** admits light to treatment **rooms (above)**.



Outline Specifications

Type of Construction: Frame on L-and T-shaped concrete continuous footings.

Exterior Walls: Surfaced California redwood 6-in. shiplap finished in natural color.

Roof: Flat, built-up composition, with rigid insulation.

Windows: Sugar pine casements and French doors.

Doors: Built-up redwood and Douglas fir, painted.

Floors: Concrete slab and rubber tile over wood.

Interior Walls: Surfaced California redwood 6-in. shiplap in natural finish and painted drywall.

Ceilings: Drywall.

Stairway: Oak in natural finish.

Built-ins: Lounges, etc., in redwood and birch.

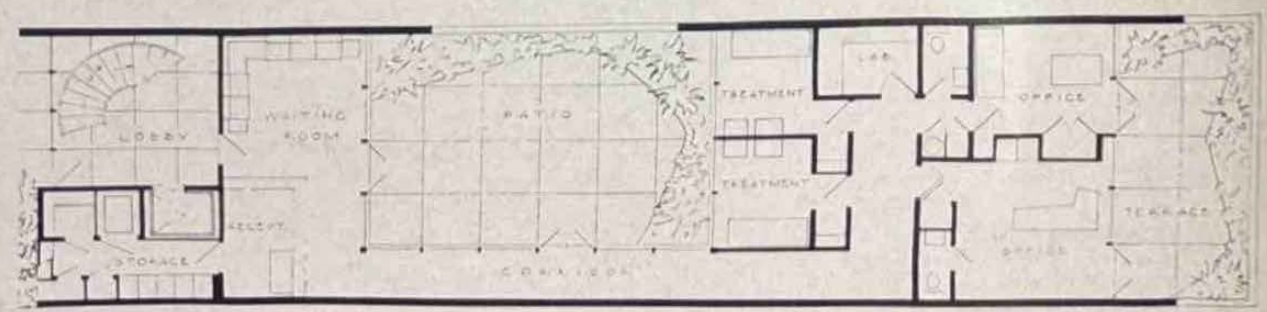
Heating: Forced hot air, one furnace for reception area and one for treatment area.

Total Area: 3,788 sq. ft., including patio; 2,959 sq. ft., floor space only.

Total Cost: $47,473, including patio, sidewalks and fences.

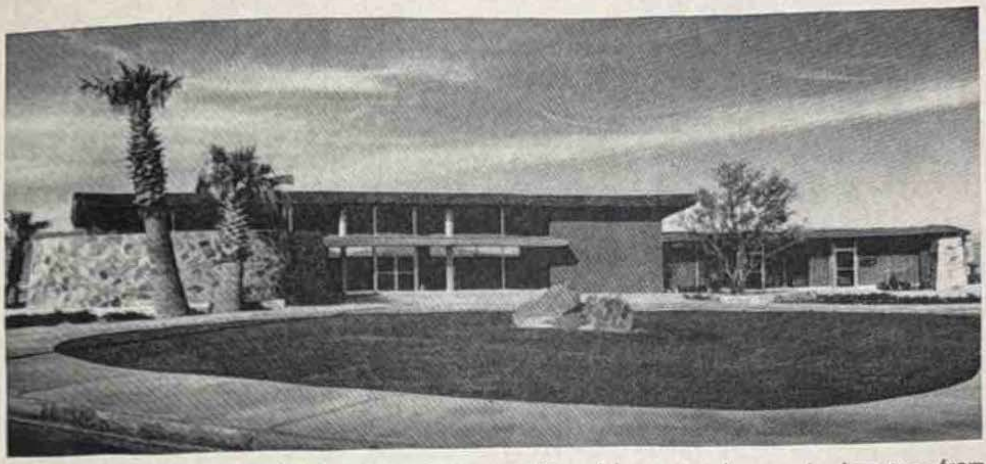
Cost per Square Foot: $12.53; $16.05, floor space only.

Date of Completion: August 1953.

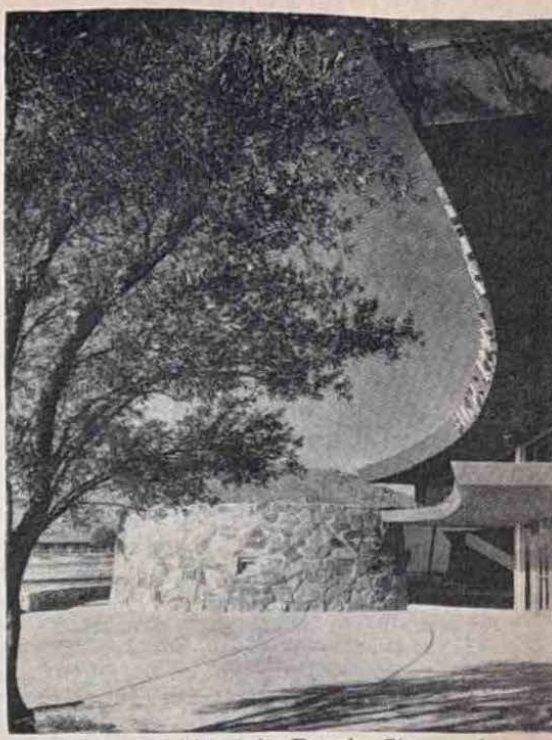


Security, dignity and beauty

Bank of Apple Valley
Apple Valley, California



WITH PLENTY of space available, architects have achieved beauty and grace in departure from traditional bank design. Wing at right has three suites of offices.



Photos by Douglas Simmonds

CURVED OVERHANG and native stone enclosure for vault highlight exterior. Detail view of vault shows how stone is used inside.

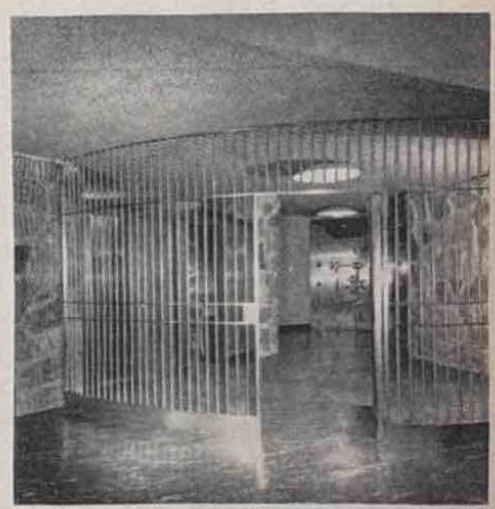
McFARLAND, BONSALL & THOMAS, Architects
WILLIAM T. WHEELER, Structural Engineer
DON CLOUGH, Mechanical and Electrical Engineer
BENNINGTON & SMITH, General Contractors

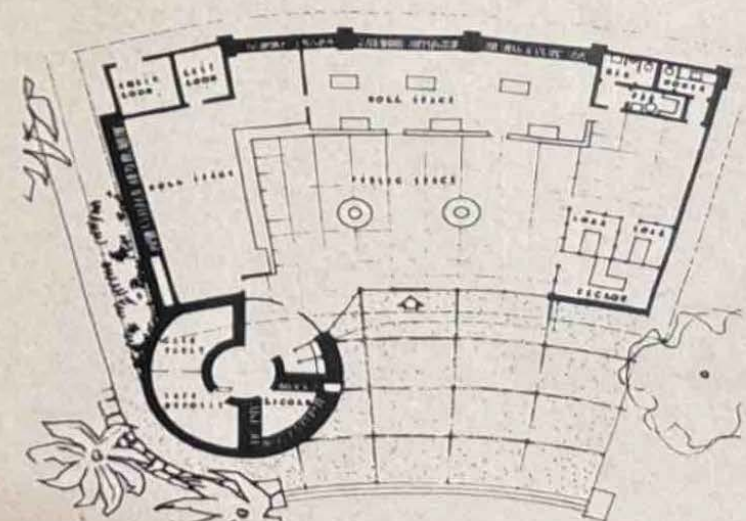
THE BANK EXECUTIVES wanted a structure that would meet all of the technical requirements of banking but also would be unique, beautiful and a credit to the community—a comparatively simple problem although often difficult to solve.

The architects took advantage of their clients' willingness to sacrifice the traditional massive effect in favor of beauty, utilizing native, natural stone with which to encase the vault and produce a focal point on which the eye would center. For complementary materials they selected frame walls, aluminum trim outside and walnut inside to create a bank that is warm and friendly in both its exterior and interior treatment.

Built on spread concrete footings, the structure has 5,300 sq. ft. of space in the bank portion and 2,700 sq. ft. in the wing on the right side (added a year later) which houses three suites of offices.

The project was cited for an AIA Award of Merit in 1955.





OUTLINE SPECIFICATIONS

Type of Construction: Frame with steel beams on concrete footings.
Exterior Walls: Frame with plaster, native stone and aluminum trim.
Roof: Flat, steel beam, composition built-up with rigid insulation.
Floors: Concrete slab with asphalt tile finish.
Windows: Aluminum.
Doors: Herculite, exterior; hollow core, interior.
Interior Walls and Partitions: Frame and plaster on gypsum lath with walnut trim.
Ceilings: Acoustical plaster.
Heating: Forced air.
Total Area: 8,000 sq. ft. (5,300 sq. ft., bank portion; 2,700 sq. ft., office wing).

Oregon's School of Architecture

Eugene, Oregon

ANNAND, BOONE & LEI
Architects

SIDNEY W. LITTLE, AIA
Consulting Architect



COMPLETED STRUCTURE will consolidate into one building the school's nine areas: architecture, interior architecture, landscape architecture, urban planning, drawing and painting, sculpture, applied design, art history and art education.

TWO ADDITIONS to the School of Architecture and Allied Arts at the University of Oregon will put under a single roof the nine areas formerly housed in three separate buildings.

Scheduled for completion by the fall term of 1957, the structure will be named Lawrence Hall in honor of the late Dean Ellis F. Lawrence, who organized the school in 1916 and served as its first head until 1945. Total area of the school will not be substantially increased but it is expected to be adequate for the next 10 or 20 years.

The old gallery wing has been demolished to make room for the three-story architecture unit, old portions of the building will be remodeled and a second new unit will be added.

Of particular interest to graduates will be a seminar room dedicated to the late Prof. W. R. B. Willcox, who directed the architecture curriculum for many years. Alumni who studied under his direction will furnish the Willcox Memorial Room.

The old patio will be retained and slightly enlarged; and the old Hawthorne tree will be returned to the area.

The architecture unit will be of reinforced concrete with curtain window wall construction for the exterior. The first floor will contain the main entrance lobby, the dean's office suite, lecture room and drawing review room. The second floor will be devoted to a series of small offices along the south side, with drafting and review rooms occupying the balance. The third floor will have offices and a drafting room.

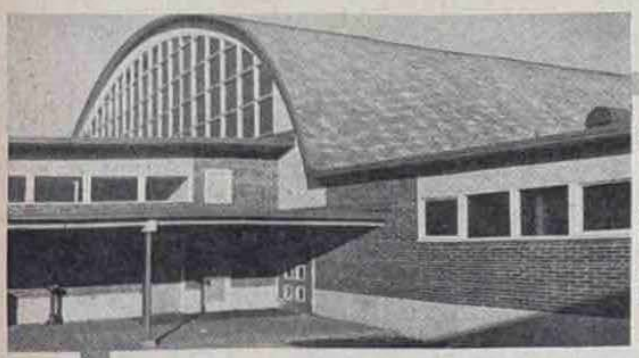
Attached to the architecture unit will be the library unit—an open first floor and second floor housing the passage between the new architecture unit and the present architecture building, as well as the library. Access to the various floors will be divided by a primary stairway on the west.

The first floor lobby and entryway will be of plate glass from floor to ceiling; the second and third floor window walls will be of aluminum.

Interior finish will be confined to the offices, lecture room and review rooms. The drafting room areas will be left as loft space. The exterior finish of the lecture room will be left in the rough and it is proposed that the mural designs developed by the school will be applied over this surface as a finish. The balance of the building will be painted architectural concrete.

The second addition, the sculpture unit will connect the present east wing, in which is now housed ceramics and weaving, to the present architecture building. It will be a one-story building with a concrete slab floor, Q-deck roof, concrete exterior, walls, and steel sash. Space will be provided for an entrance lobby, office, sculpture studios and storage, with a crane rail serving each of these areas.

The Portland architects and Dean Little have been assisted in planning by the school's staff, with Robert R. Ferens and Lionel T. Chadwick as coordinators in building design and Frederick A. Cuthbert as landscape consultant.



architect:
William Arild Johnson

contractor:
Barrows & Shaffer

masonry contractor:
Ray Shupp, Sr.

North Thurston High School features . . .

Attractive — Practical

Chehalis Red Norman Brick

Here is modern school design at its best . . . solid 9" masonry walls for permanence and fire safety . . . plus the warm, pleasing texture of the Pacific Northwest's most distinctive brick—CHEHALIS Smooth Red Norman Face Brick—to create a happy combination of eye-appealing design plus low maintenance costs. Only brick—and preferably beautiful CHEHALIS BRICK—can do the job so well.

SCPI

CHEHALIS BRICK and TILE Co.

BOX 868, CHEHALIS, WASHINGTON

FOR DOLLAR-SAVING TOOLS AND PRODUCTS

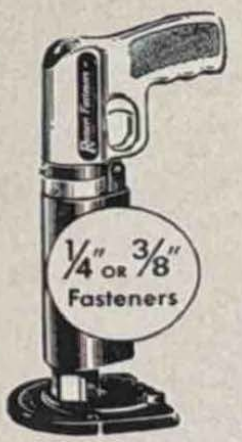
Check with CASCADE DISTRIBUTORS First!

KINDORF Steel Framing, Concrete Inserts, Channel and Framing, Pipe-Hanging Devices

GRIP-STRUT Safety Steel Grating — non-skid cat-walks, stair treads, platforms, etc.

BLACK & DECKER Complete line of industrial Electric tools — hammers, drills, saws

CADWELD PROCESS Bonded electrical connections



RAMSET FASTENING SYSTEM

Powder actuated tools and fasteners—Economical — Permanent — Fast — and safety approved in Oregon and Washington

AND we carry

- ★ STAR expansion bolts
- ★ BULLDOG self-drilling shells
- ★ NEW ENGLAND carbide masonry drills
- ★ Construction Fasteners of All Kinds

For
- **ON-THE-JOB SERVICE**
- **FAST LOCAL DELIVERY**
- **RENTAL EQUIPMENT**

CALL —

CASCADE DISTRIBUTORS, INC.

SEATTLE 1918 First Ave. So. SEneca 5625 •
SPOKANE 2228 North Division, GLenwood 8114 •
PORTLAND 1230 S.E. 7th Ave. BElmont 2-7887

Housing slows building volume in West

BUILDING PERMITS for the five Western states totaled $214,276,627 for April, a 15% drop from March and also a 15% drop from April 1955.

The decreases reflected a continuing trend toward less home building activity in the entire area. For example, Los Angeles County was down $16 million from the same period last year, mainly because of a big decrease in tract housing; Orange County was down $5 million; and San Bernardino County was down $4 million.

Although King County showed a $1¼ million increase, housing was down $700,000. Seattle and Portland also reported decreases in housing starts.

On a statewide basis, only California showed a drop from April of last year, 21%. Oregon was up 17%; Washington, 16%; Montana, 4%; and Idaho, 7%. This is the first time this year that the Washington total has risen above last year's volume.

Two states reported decreases from March. California was down 22% and Montana, 38%. Oregon, Washington and Idaho reported increases of 22%.

By the end of April, the 116 building permit agencies participating in the survey, had recorded a total of $846,821,642, a bare $2,566,140 higher than the first four months of 1955 (and a 3% increase).

Only one state, Washington, is running behind last year. With $94,491,654 that state's volume is down 10%. Montana shows the highest rate of increase, 34%, with a dollar volume of $8,194,907 for the four months. Oregon with $42,555,766 is up 5%; Idaho with $6,944,538 is up 5%; and California with $697,200,917 is up 1%.

Following is a breakdown of building permits issued by several of the major agencies during March.

	DWELLING UNITS		COMMERCIAL & INDUSTRIAL		PUBLIC	
Portland	145	($ 1,619,200)	30	($1,253,735)	4	($ 655,000)
King County	647	(6,452,175)	66	(1,977,417)	5	(718,195)
Seattle	221	(3,385,685)	26	(857,630)	1	(1,350,000)
Tacoma	209	(847,519)	50	(695,498)		
Los Angl. Co.	1655	(19,185,871)	205	(3,963,650)	143	(1,495,340)
Orange County	840	(9,794,217)	35	(736,915)	11	(292,992)
Sacrmnto. Co.	582	(5,082,739)	51	(299,770)	9	(289,080)

Building Permit Totals for 116 Western Agencies for April 1956

CALIFORNIA	Apr. 1956	Mar. 1956	Apr. 1955
Alameda County	$ 2,786,750	$ 4,314,112	$ 6,139,263
Anaheim	2,851,141	4,153,750	4,700,865
Bakersfield	1,240,204	1,537,180	892,568
Burbank	1,955,781	822,046	1,001,776
Contra Costa County	4,175,844	6,759,649	4,531,884
Fresno	1,730,381	2,462,608	4,149,625
Fullerton	1,823,007	4,678,395	4,029,165
Glendale	1,519,776	1,546,606	2,167,234
Inglewood	836,130	1,057,852	879,158
Long Beach	3,800,220	17,413,290	9,493,925
Los Angeles	36,499,805	40,122,647	35,386,162
Los Angeles County	29,879,118	42,065,510	46,143,350
Oakland	3,938,634	3,210,475	2,493,976
Ontario	1,321,380	1,125,562	483,167
Orange County	11,196,118	6,420,135	16,292,690
Palo Alto	695,228	3,346,119	1,524,486
Pasadena	1,398,262	2,741,543	1,766,772
Pomona	351,017	3,662,169	1,117,118
Richmond	610,545	1,157,197	434,300
Riverside	2,796,752	2,362,844	2,460,438
Sacramento	3,384,584	2,596,933	2,296,318
Sacramento County	5,726,688	7,106,782	5,604,158
San Bernardino	1,107,959	2,476,214	2,659,220
San Bernardino County	4,242,468	5,563,527	8,175,413
San Diego	8,588,699	10,711,618	6,125,265
San Diego County	3,615,900	3,495,120	3,707,082
San Francisco	5,515,258	4,460,900	4,830,984
San Jose	5,270,810	5,848,274	6,176,739
San Mateo	1,269,986	1,013,342	2,083,923
San Mateo County	1,762,611	2,472,350	3,014,658
Santa Ana	1,299,994	1,889,692	2,420,745
Santa Monica	1,523,557	1,628,531	1,302,961
Stockton	1,700,413	740,615	766,945
Sunnyvale	1,052,900	2,560,795	1,865,152
Torrance	4,155,543	2,937,828	5,425,115
West Covina	883,085	2,236,430	3,573,400
TOTAL	$162,506,548	$208,698,640	$206,116,000

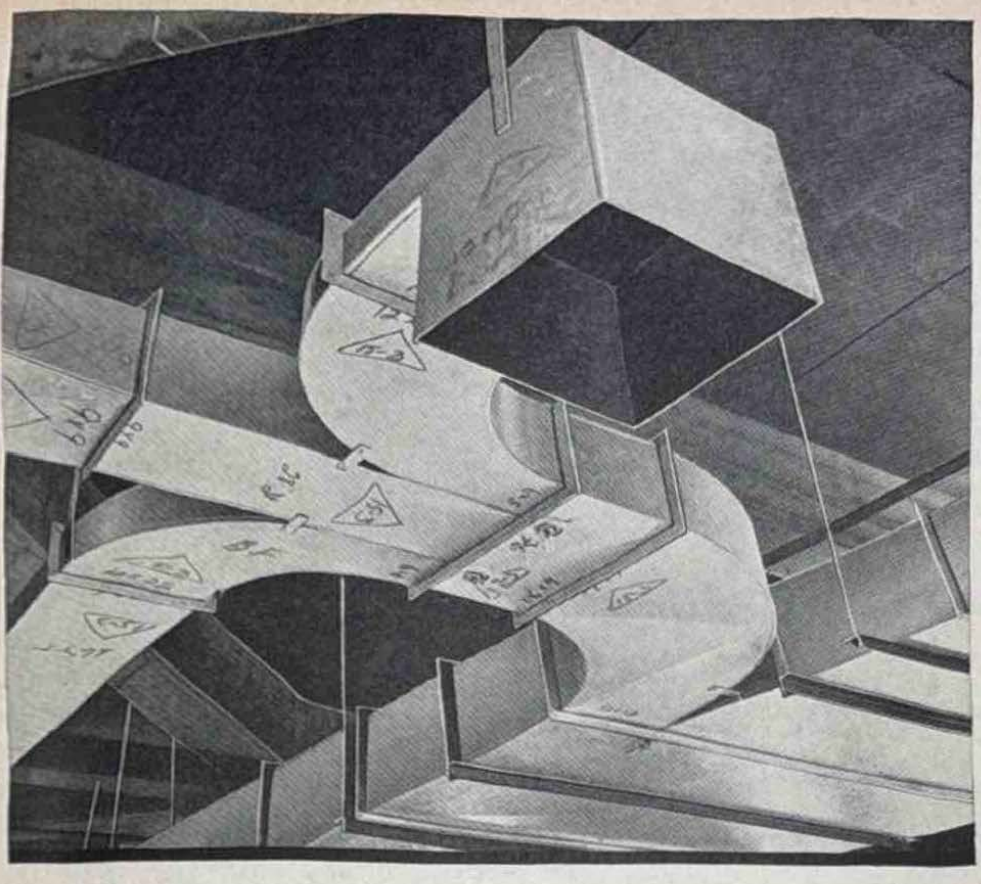
OREGON	Apr. 1956	Mar. 1956	Apr. 1955
Albany	$ 497,600	$ 82,200	$ 52,600
Astoria	46,321	59,328	63,703
Baker	57,960	41,967	122,863
Bend	134,635	107,500	181,790
Coos Bay	109,843	108,880	125,885
Corvallis	374,415	287,547	150,410
Eugene	261,535	310,661	365,972
Grants Pass	134,590	65,130	94,125
Gresham	135,800	211,200	18,000
Hillsboro	95,560	223,300	96,950
Klamath Falls	359,527	337,490	223,260
LaGrande	17,949	57,640	345,499
Lane County	1,461,742	834,777	1,049,237
Medford	206,713	285,448	158,800
Multnomah County	2,453,131	2,572,425	2,647,934
North Bend	42,788	101,390	28,820
Oregon City	315,360	31,700	20,335
Pendleton	529,719	209,845	51,250
Portland	5,302,375	4,295,520	4,538,565
Roseburg	208,565	88,735	117,445
Salem	429,064	470,498	800,231
Springfield	156,225	197,486	205,240
The Dalles	146,478	110,342	96,744
TOTAL	$ 13,477,895	$ 11,091,549	$ 11,555,658

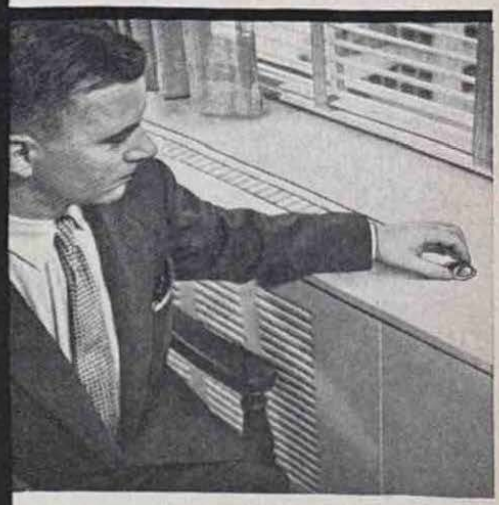
WASHINGTON	Apr. 1956	Mar. 1956	Apr. 1955
Aberdeen	$ 81,327	$ 80,608	$ 76,097
Anacortes	45,670	148,930	210,935
Auburn	40,825	37,720	71,950
Bellingham	562,228	407,569	303,391
Bremerton	265,578	605,276	123,425
Centralia	115,317	28,096	81,820
Chehalis	208,068	39,927	65,000
Clarkston	71,355	97,312	133,408
Ellensburg	116,660	25,600	79,011
Ephrata	288,471	267,140	289,866
Everett	325,627	156,408	259,003
Kelso	45,300	45,200	46,300
Kennewick	74,425	118,100	331,550
King County	9,131,092	5,702,036	7,885,895
Kirkland	67,850	79,050	65,820
Longview	292,166	73,231	328,370
Moses Lake	381,711	801,436	586,468
Olympia	243,563	218,040	198,206
Pasco	73,835	105,225	215,280
Pierce County	2,307,218	2,027,595	2,159,850
Port Angeles	255,190	95,100	58,825
Puyallup	91,980	27,325	82,400
Ritzville	39,700	25,500	66,800
Seattle	8,339,605	6,857,290	6,259,905
Shelton	132,425	269,400	35,500
Spokane	2,683,552	2,725,600	2,689,176
Spokane County	1,760,980	2,308,308	3,262,576
Sumner	40,689	33,001	25,500
Tacoma	1,720,896	1,502,115	752,623
Vancouver	733,695	647,169	407,533
Walla Walla	215,513	593,093	467,935
Wenatchee	1,648,641	216,390	258,770
Yakima	539,540	697,278	455,495
TOTAL	$ 32,940,692	$ 27,062,068	$ 28,334,617

MONTANA	Apr. 1956	Mar. 1956	Apr. 1955
Billings	$ 580,400	$ 1,095,000	$ 535,600
Bozeman	121,000	39,000	133,100
Butte	166,115	61,986	66,544
Glasgow	80,124	11,525	23,820
Glendive	111,627	129,874	89,575
Great Falls	472,720	1,284,381	911,543
Helena	318,200	958,385	180,438
Kalispell	205,251	15,400	162,214
Lewistown	59,250	109,500	48,650
Livingston	41,276	32,600	35,375
Miles City	20,934	128,320	1,627
Missoula	260,710	51,178	163,150
TOTAL	$ 2,437,697	$ 3,917,149	$ 2,351,636

IDAHO	Apr. 1956	Mar. 1956	Apr. 1955
Boise	$ 442,992	$ 377,618	$ 477,682
Caldwell	103,715	*	*
Coeur d'Alene	621,750	164,400	315,570
Idaho Falls	572,230	216,700	627,714
Jerome	310,150	56,625	24,950
Lewiston	202,932	176,085	313,400
Nampa	101,125	234,725	213,025
Payette	5,900	41,760	4,750
Pocatello	141,041	202,364	250,372
Sandpoint	46,150	34,550	14,200
St. Maries	41,500	Nil	7,500
Twin Falls	324,310	874,170	280,750
TOTAL	$ 2,913,795	$ 2,378,997	$ 2,733,603
GRAND TOTAL	$214,276,627	$253,148,403	$251,091,514

*Totals not available





A unique feature of the Equitable Building's air-conditioning is 1,180 of these air blending units. There is a blender installed in every perimeter office. The units are connected to the central duct system and they act as independent thermostats delivering conditioned air according to an individual's wants.

Pinched inside a space 11½ inches deep–

Steel ductwork stands rigid air-conditioning test

The 25-story Equitable Building is San Francisco's newest skyscraper and the city's first office building to be completely air-conditioned. The Scott Nelson Company, Mechanical Contractors, had a job on their hands fitting a duct shape in the 11½-inch furred ceiling space. The problem was to fabricate ductwork flat and narrow, yet rigid enough to withstand constant vibration and pulsation. Adding frame reinforcement to the duct was only part of the answer. The rest depended on the selection of the right metal sheet.

The job required metal properly ductile to form sharply angled, tight seams; yet rigid enough to prevent seams from cracking or opening under the stress of high velocity airflow. The Scott Nelson Company selected steel . . . USS Galvanized Steel Sheets for the job . . . and report the USS sheets did a perfect job.

Free Booklet! PA&B-5

UNITED STATES STEEL CORPORATION
COLUMBIA-GENEVA STEEL DIVISION
120 MONTGOMERY STREET
SAN FRANCISCO 6, CALIFORNIA

Please send me your free handbook that gives useful information on the production, properties and characteristics of steel sheets.

*Name*_____

*Address*_____

*City*_____ *State*_____

USS Steel Sheets

USS

UNITED STATES STEEL

Integration of the arts in architecture

(Continued from page 15)

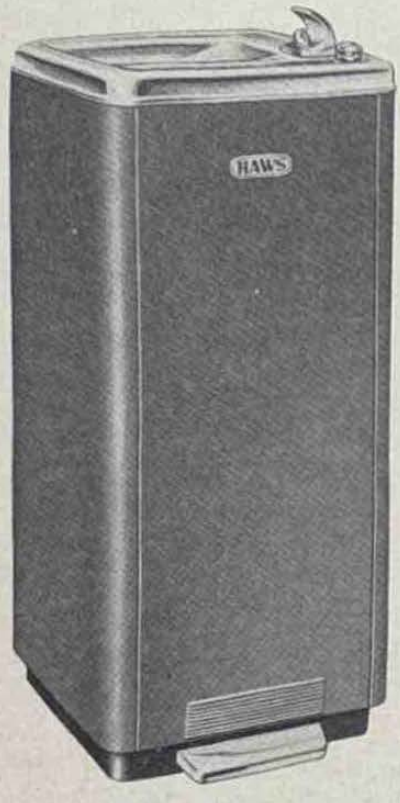
portunities as a challenge. Industrial, commercial, educational and recreational buildings all arouse his enthusiasm and call forth exciting, practical solutions. Since commercial and industrial structures do have a shorter lift, the art should be conceived with this limitation in mind: inexpensive, transportable expressions that can be redesigned as necessary. Educational recreational and religious buildings, however, require statements projected with vigor and insight. Contemporary living can be reflected with an impact that will increase the civic value of a structure as it ages. Thematic material visualizing what our way of life means and where it is leading can produce an integrated architecture of **lasting** interest.

As our society moves forward, opportunities for spiritual rejuvenation through self-evaluation must be created. Our timidity will be conquered if we realize that within our power to see ourselves honestly lies the greatness of our democracy. With new mediums at his command and a sense of historical purpose to direct his efforts, the architectural artist can create buildings that will stand as an inspiring revelation of our past and as a testament to our faith in the future. The roll of the artist is developing as the architect grows. No longer is he thought of as a specialist, but as a broad creative personality, capable of contributions vital to the healthy growth of the building professions.

True integration can only return when the architect and artist sit down to break honest bread together and when the architect insists that the artist be capable of executing every step of his work, since personal command of technique is the only way creativity can be evolved. As John Steinbeck recently wrote, "People need responsibility. They resist assuming it, but they cannot get along without it. Man is a double thing . . . a group animal and at the same time an individual. And he cannot successfully be the second until he has fulfilled the first."

distinctive...
reliable...
HAWS
ELECTRIC
WATER
COOLERS!

Add beauty and convenience to your interior plan! Specify HAWS Coolers—designed in smooth, functional lines that complement today's architecture—with custom-styled cabinets, lifetime stainless steel tops, chrome trim. They are ideal for school, office, restaurant or cafeteria, commercial, industrial and institutional application.



No complex planning is necessary! HAWS Electric Water Coolers merely require an electric outlet, water source and drain. There are many models for many needs...bubbler faucets, bottle cooler types, fill-glass faucets...all with HAWS complete sanitation features.

HAWS also features complete lines of drinking fountains and Emergency Eye-Wash Fountains...also **KRAMER Flush Valves** for every make plumbing fixture that requires an automatic closing valve.



For full information and specifications, see the HAWS Catalog. Write today!

HAWS DRINKING FAUCET CO.
1443 FOURTH STREET (Since 1909) BERKELEY 10, CALIFORNIA

Steel framed houses get push in Far West

Architects and engineers in the West are showing increased interest in the use of light structural steel in the framework of new single-family dwellings. This is indicated, at least, by an increasing number of experimental projects being developed in this area.

One such project is the X-100 research house which Eichler Homes of Palo Alto, Calif., is building in San Mateo Highlands for the primary purpose of showing the public what may be expected in contemporary home design within a few years. A. Quincy Jones, AIA, and Frederick E. Emmons, AIA, are the architects for the home, scheduled for public viewing about September 1. Color coordination is under the direction of Matt Kahn of the fine arts department of Stanford University.

There seems to be a reasonable possibility that steel framing for single-family units can become competitive costwise with conventional material according to Ralph W. Seely, vice president of sales for U. S. Steel's Columbia-Geneva Division.

"Steel permits the use of slim structural members and longer spans," Seely points out, "providing greater footage of usable space, permitting greater freedom in floor plan and design and allowing a broader use of materials for walls and roofs."

Corrugated aluminum sheeting applied on steel frame without scaffolding



Sheeting impaled on aluminum studs that had been end welded to the frame cuts labor cost in half on Long Beach job

When a new type of dome-shaped storage warehouse, without interior bracing, was built recently for Kaiser Gypsum Co. in Long Beach, Calif., the corrugated aluminum sheeting was secured with end-welded composite aluminum Rivweld studs at an estimated labor cost saving of at least 50%.

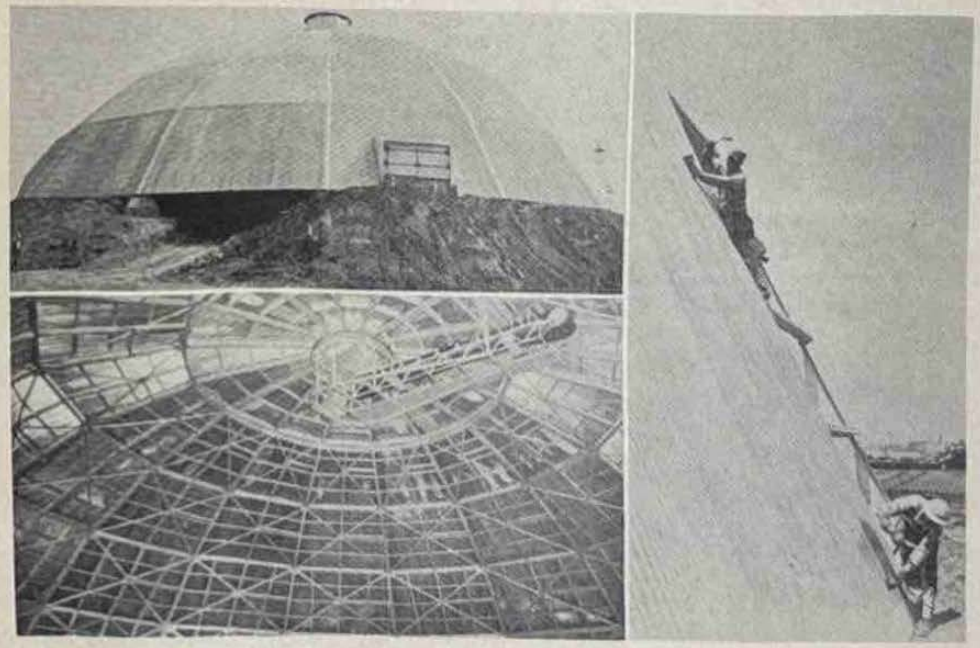
Actually, stud welding was the only fastening method considered by the designers, Kaiser Engineers, Oakland, because of its speed and the fact that it could be accomplished without interior scaffolding. Operators with portable Nelson stud welding guns simply climbed over the steel framework to which the studs were welded. Use of other types of fasteners requiring scaffolding would have doubled labor costs, according to M. M. Walker, superintendent for Mitchell Steel Inc., Torrance, Calif., who installed the corrugated aluminum sheathing.

Twelve thousand Nelson composite aluminum Rivweld studs were used on the job. Two Nelson stud welding guns were employed, operating off a single Nelwelder battery power unit. Templates established stud locations. The aluminum sheeting was impaled over the studs with rubber hammers and the ends of the studs were then upset.

Since the portions of the composite studs that come in contact with the sheeting are aluminum, there will be no electrolytic action between the sheeting and the steel building framework. Appearance of the building was improved because the studs are almost invisible.

The 35,000-ton capacity rock storage building is part of an expansion costing about $3 million, which began in March 1955. It increased the productive capacity of the Long Beach plant to 210 million square feet of gypsum board and lath and 50,000 tons of plaster annually.

The plant supplies the 19 counties of southern California, southern Nevada and Arizona and employs 150 persons, with an annual payroll of more than $750,000.



KAISER GYPSUM'S unique new bulk storage warehouse at Long Beach, top, and the steel framing of interior, bottom, to which Rivweld aluminum studs were welded by Nelson guns. Corrugated aluminum sheeting then was impaled on the studs and studs were upset. Construction without scaffold saved 50% of labor costs.



Lightest handful of concrete masonry material...

CASCADE PUMICE

The extra light weight of Cascade Pumice Concrete saves you money on handling costs, speeds up building. When weight is a factor, always specify Cascade Pumice Concrete for best results.

Cascade Pumice Concrete gives you tops in:



LIGHT WEIGHT
STRENGTH
FIRE RESISTANCE
HIGH INSULATION VALUE

Insist on A.S.T.M. specs.:

When specifying ANY concrete masonry demand blocks "in accordance with ASTM specs., on adequate foundation." Also Bond Beam Blocks, used where needed, end masonry problems.

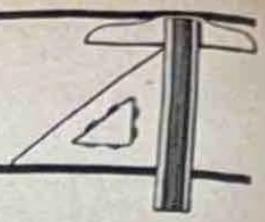
WILLIAMSON Cascade PUMICE

Plant and Office:
P. O. Box 1083 · Bend, Oregon

Pacific Architect and Builder

T-square talk

about architects • planners • engineers



NEW PARTNERSHIP: Walter Wagner, AIA of Fresno has announced the formation of a partnership with six key men who have been associated with his office for the past 10 years. The firm is now known as Walter Wagner & Partners, architects and engineers.

Partners of Wagner, who also is a civil engineer, are Paul Harris, AIA; James A. Blayney, mechanical and electrical engineer; Henry DuPertuis, architect and manager of the firm's Merced office; Paul Schoenwald, architect; Will Thomas, architect; and Harry Bode.

The firm is one of the largest in the San Joaquin Valley, specializing in the design of public schools.

Gordon N. Johnston, AIA, and Robert W. Evans, AIA, have announced their association for the practice of architecture under the firm name of Johnston & Evans, Associates, in the Washington Building, Tacoma (BRoadway 4768).

NEW ASSOCIATES: Two project directors, Harry Saunders and Kaz Nomura, have been made associates in the architectural firm of A. Quincy Jones & Frederick E. Emmons, Los Angeles. Saunders is a graduate of Texas A&M College, Nomura of the University of Southern California. Both have served with the firm for several years. Emiel Becsky continues as associate architect.

ON THE MOVE: Raymond Kermit Thompson, AIA, and Polly Povey Thompson, AIA, are occupying the home and office at 1728 N.W. 32nd Ave., Portland, of Herman Brookman, FAIA, who left in April to spend a year traveling in Europe. The Thompsons were formerly located in the George White Veterans Building.

NEW OFFICE: Neil Farnham, formerly on the staff of Hollis Johnston and of Stanton & Johnston, has opened his own office in his home at 2850 N.W. Westover Road, Portland. Farnham, an associate member of the Oregon chapter, AIA, is a graduate of the University of Oregon.

PRIVATE PRACTICE: Thomas M. I. Leake, AIA, of Boise has severed his contract with Boise Payette Lumber Co. to devote full time to his private architectural practice. While serving as consultant architect and product development director for the lumber firm the past two years, Leake has engaged in private work at 1321 Vista Ave., where he will continue to occupy offices.

Rodney James Grider, who joined Leake's staff upon graduation from the University of Idaho in 1953, has been named associate and designer in the new endeavor.

Leake has been active in affairs of the Northwest Regional Council, AIA, and has served as an officer of the Idaho chapter, of which Grider also is a member.

DIED: Robert L. Tidball, 44, structural and mechanical engineer, died May 1, in Veterans Hospital in Portland after a long illness. He was a graduate of Oregon State College. Before opening his own firm in 1946, Tidball served in the Navy and was in the power design section of the Corps of Engineers.

Albert A. Geiser, 64, retired architect, died May 4 in Seattle, where he had designed many commercial buildings and residences. Born in Chicago, he had lived in the Northwest since 1907.

Homer B. Mathes, architect and lifetime resident of Bellingham, Wash., passed away April 27 at the age of 51.

HONOR PROF: University of Idaho students of Ted J. Pritchard, who heads the department of architecture, presented him with a wrist watch, marking his 30 years of teaching at the Moscow institution.

Paul L. Blanton of Pasco, Wash., president of the student AIA chapter, made the presentation during the department's annual dinner. Principal speaker was Carroll Martell, AIA, of Spokane, who discussed "Education of an Architect."

Blanton and Paul L. Duffy shared first place honors in the C. F. Hummel prize awards, with William E. Ostrander taking third. An elementary school was the subject of this year's design competition, sponsored by the architectural firm of Hummel, Hummel & Jones and Chester Shawver, associate, of Boise.

AWARDS: Robert P. Darlington of Pullman, Wash., on a year's leave of absence from Washington State College where he is an instructor in architectural engineering, won the $2,500 third prize in a nationwide competition for new design and construction ideas for aluminum curtain wall buildings. Darlington is now working on his MA degree at the University of Illinois.

Among the 15 honorable mention award winners in the contest sponsored by Aluminum Company of America and the National Association of Architectural Metal Manufacturers were three West Coast entrants: Wendell H. Lovett, AIA, Bellevue, Wash.; Dike Nagano, Culver City, Calif.; and Richard Blanchard, San Francisco.

TO HONORARY: The two West Coast chapters of Tau Sigma Delta, scholastic honorary in architecture and allied arts, have announced election of new members.

Iota chapter at the University of Washington has initiated Richard Alden, Alvin Dreyer, Ching-Hwa Hsiao, Dean Latourell, Richard Lundstrom, John K. Miller, Joseph Onuma, Gerard R. Torrence, Barry Upson and David Wright.

New members of the Lambda chapter at the University of Southern California are Sheldon B. Caris, Loch Crane, Charles R. Erickson, Harry Gittelson, John A. Rinaldi and Paul S. Wuesthoff.

Lambda chapter marks its 25th anniversary this year while Iota chapter was founded in 1924.

SAN SALVADOR PROJECT: Raymond R. Shaw, AIA, and William D. Coffey, structural engineer, both of Los Angeles, have been selected by the Banco Hipotecario de El Salvador to design and supervise construction of its new $2 million head office building, the first multistoried steel frame structure to be erected in San Salvador. With 95,000 sq. ft. of floor space, it will comprise a basement and three or four floors above.

Correction: The item in PA&B for March concerning the move of Jesse W. Green, AIA, to 3907 Duquesne Ave., Culver City, Calif., was incomplete since it failed to mention that he joined forces with Thomas B. McGhee.

AIA OFFICE MOVES

The Northern California chapter, AIA, has expanded and moved into new offices at 47 Kearny St. in San Francisco. There will be two telephones: DOuglas 2-7397 and DOuglas 2-3041.

Role of architectural school outlined by director

A worthy school does not teach architecture but creates a climate into which students come for direction, inspiration and guidance, according to Arthur P. Herrman, FAIA, director of the School of Architecture, University of Washington.

He addressed a group of Tacoma high school students who were guests of the Southwest Washington chapter, AIA, at its monthly meeting April 24.

"Architecture is not only a science of building," Director Herrman explained. "Vitruvius defined it as a combination of commodity, firmness and delight. To redefine it, architecture is primarily emotion—the emotion of the designer expressed in materials with the resultant effect on the emotion of the observer." Other excerpts from his talk:

"The architect is born not made. An architectural climate is created for five years, the student's perception sharpened, his imagination and sensitivity developed, his taste and judgment formed. These are fundamentals gained; the rest is his.

"The 'complete' architect is not trained in five years. The danger in architectural training today is that such close association is forced in school that the new architect is frustrated in the outside world.

"The prospective architect must possess the qualities of fondness for artistic and spiritual things. He must know how to draw and to communicate graphically and he must know people. If he possesses these things, he has great opportunity for self-expression. Since the architect has a responsibility to society, he must discipline himself to the practical aspects as compared to the designer who designs, then rationalizes. Without technical skill and imagination, the man will fail as an architect.

"He must then communicate on the level of society in which he works. He must know many things—politics and community problems, for instance—and must gain people's respect and confidence. The physician deals with one individual plus mysticism; the architect deals with one individual plus society. Danger lies in too much technical training without a citizen's responsibility."

Plug for Aspen Conference

As an opening feature of the evening's program, Gerald Davis, marketing manager of Heidelberg Brewing Co., presented a color film of the fifth International Design Conference held at Aspen, Colo., in the summer of 1955. Stating that the 1956 sessions will be devoted to "Ideas on the Future and Design," he explained that the conference stresses the importance of contact between all fields of design and makes possible discussion and study of all pertinent problems occurring in each field.



TACOMA AREA ARCHITECTS and student guests meet in Scotty's Caravan Inn to hear Arthur P. Herrman (seated, center of photo), director of the School of Architecture, University of Washington.

Cut hours of travel time to minutes...FLY WCA!

Serving Paul Bunyan's Empire. Fast, frequent service to 44 communities in Washington, Oregon, and Idaho. Fly West Coast Airlines . . . both passenger service and air freight.



Materials – Products – Tools

and the latest literature

ROOFING STONES: Coarse aggregate roofing stones for low pitch, built-up roofs are now available in a range of 10 colors: light green, dark green, bronze, brown, blue, red, coral, silvertone, sea green and rose.

Colors are fired on the aggregate. Uniform gradation allows the pebble-size stones—called Ceramic-Color—to pack tightly, producing a shadow effect and appearance of depth.

(Item No. 1)

CLOSET DOOR: To resist warping, Metaloc sliding closet doors are completely vapor sealed internally and have built-in expansion seams to take up any expansion or contraction.

Faces of the doors are Masonite Duolux, three-ply mahogany or a combination of the two. They are metal edged and framed. Doors are delivered ready for installation with complete steel track, nylon rollers, pulls and floor guide.

(Item No. 2)

FASTENING TOOL: Ramset this month will begin marketing a fastening tool developed to handle many jobs between the light duty hammer and nail and heavy duty, powder actuated fastening tool.

With Shure-Set a worker can manually drive a fastener through ¼-in. steel. It seats a specially constructed fastener into a variety of materials, such as concrete, concrete block, cinder block, brick and steel. It can be used where anchors, toggle bolts, expansion shields and concrete nails were formerly used and ends the tedious job of star drilling or the aggravating job of pounding at stubborn concrete nails.

(Item No. 3)

PLASTIC PANELS: Women will be particularly pleased with a Fiberglas reinforced plastic sheet inlaid with coarsely woven natural fabrics whose reflected light does not change the colors of cosmetics, flesh or clothing.

The Rend-O-Lite flat and corrugated sheets, manufactured by Commodore Industries, contain jute netting, natural burlap, bleached burlap, Osnaburg cloth or Philippine Grass.

(Item No. 4)

WEATHERSEAL: A plastic backed, woven wool pile weatherseal that will not mat or take a set no matter how many times it is pounded has been developed by Schlegel. The stripping is impervious to Arctic cold, summer heat or strong cleaning solutions and will not corrode, rot or get moldy.

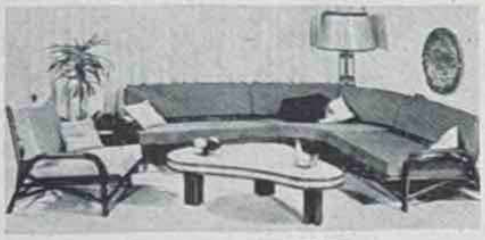
A selection of 90 extruded shapes is available for use on prime and secondary windows of all types and on all styles of doors or sliding panels, including plate glass.

(Item No. 5)

PANEL SAW: For easy, one-man cutting of large plywood, Masonite or plastic panels, Richard C. Bennett offers the two-way panel saw mounted on a turntable to permit either ripping or crosscutting. The saw runs between tubular steel tracks on a sturdy wood frame. The unit measures 12 ft. long, 6 ft. 7 in. high and 24 in. wide.

(Item No. 6)

FURNITURE: An original group of casual furniture with what the designer calls authentic Nordic ancestry



NORDIC FURNITURE

has been added to the Ritts line.

The Scandia group features hazelnut finish, a touch of woven cane, ash marproof plastic table tops, foam rubber cushions and imported upholstery designs. Included are Viking chairs, two-piece sectionals, curved corner units, dining groups, bar and bar stools and other pieces.

(Item No. 7)

TROFFER: To save space for air conditioning ducts, piping, etc., Lighting Products is offering Thin-Lite troffers that require only 2⅞ in. depth in the ceiling.

Three models are available: the one-piece polystyrene louver panel, the Corning No. 70 low brightness flat glass lens and a formed acrylic diffuser.

(Item No. 8)

DECORATIVE BOARD: Using "even the squeal," Pack River Tree Farm Products has come up with a distinctive waferboard for interior use which combines the appearance of a three-dimensional pattern with good strength and stability.

Tenex is made of thin wood wafers bonded under heat and pressure with chemical resin to make a solid wood board ¼-in. thick. It uses debarked slabs and edgings that have all too often ended up in the sawmill burner.

(Item No. 9)

PLYWOOD FORMS: Eight to twelve re-uses of plywood forms before recoating is possible with a protective finish recently developed by L. Sonneborn.

A blend of synthetic resins in fast-evaporating solvents, Form-Saver permits clean, smooth stripping of the forms with no pitting of the concrete surface or transference of raised grain from forms to masonry.

(Item No. 10)

FASTENER: For faster assembly and better appearance of insulated metal sandwich and other curtain walls, Nelson Stud Welding has developed a stud welded construction fastener with an aluminum cap.

Setlock employs a steel shoulder type stud with serrated tip which is end welded to structural girts with the Nelson stud welding gun. The aluminum cap is placed over the serrated tip of the stud and driven into position with a tool which causes the aluminum to grip the serrations.

(Item No. 11)

SCAFFOLDING: Superior Scaffold is marketing a Double-Grip stud scaffold jack which can be quickly hung, without nails, on any exposed stud to provide instant scaffolding at low cost.

(Item No. 12)

GLASS DOORWALL: An all-aluminum sliding glass doorwall designed specifically for the volume builder is offered by Modern Specialties.

Mass produced at low cost, the Panorama offers twin-seal silicoated mohair pile weatherstripping, easy, noise-free operation, easy installation and a wide range of sizes.

(Item No. 13)



LOW COST DOORWALL

Latest Handbooks, Manuals and Literature

Yours for the Asking

STEEL BUILDING PANELS: Detroit Steel's latest catalog on Fenestra steel and aluminum building panels is packed with technical information, installation drawings and excellent photographs of completed buildings.

Material covers panels for long span structural floors, acoustically treated roofs and ceilings, the TAC system for reinforced concrete, fluted wall panel, fire partition, steel roof decks and reinforcing floor forms.

(Item No. 14)

ARCHITECTURAL PORCELAIN: Drawings give typical details for porcelain panels for curtain wall construction and facing in a 16-page brochure offered by Davidson Enamel Products. The brochure also includes four pages of illustrations showing schools, medical buildings, banks and other types of structures where the panels were used.

(Item No. 15)

GLASS BLOCK: Various glass block patterns manufactured by Kimble Glass, an Owens-Illinois subsidiary, are pictured and described in a catalog recently published by the firm.

Included are instructions and construction details for both large and small size panel installations in steel, wood frame, brick or brick veneer construction. The catalog also has a convenient table of dimensions, a section on how to calculate illumination and brightness, and tables on solar heat control and fuel savings.

(Item No. 16)

RADIANT HEATING: A. M. Byers has prepared a report featuring sketches of various types of radiant heating construction arranged in order of preference. Each sketch shows the position of the wrought iron pipe coils in the concrete slab and relation of coils and slab to the structural features of both on grade and above grade construction.

A one-page digest of recommendations discusses floor surfacing, heating slab, radiant heating coils, insulation base or fill, waterproof membrane and support brackets for radiant heating coils.

(Item No. 17)

LIGHTING SYSTEM: Wakefield's Sigma type architectural unit, a system of lighting and other services combined with movable partitions on 4-ft. modules, is featured in an eight-page bulletin. Drawings are used almost entirely to tell the story.

Text lists such advantages as maintenance of high illumination with low source brightness, control of brightness ratios, virtual elimination of shadows, reduction of specular reflection and flexibility.

(Item No. 18)

AUTOMATIC ELEVATOR: The elevator with the electronic brain, Autotronic, which automatically adjusts itself to peak load requirements, is explained in a well illustrated brochure put out by Otis. Drawings, charts and text are used to simplify, as much as possible, a description of the system for handling basic traffic patterns and detecting and reacting to traffic changes, either by an individual car or with an entire bank of attendantless elevators.

(Item No. 19)

WINDOWS: Complete stock sizes of Calco aluminum casement windows are given in a recent brochure produced by the new California firm. It includes installation detail drawings for brick veneer, solid brick and concrete block.

(Item No. 20)

AIR CONDITIONING: A two-page mean temperature difference table is just one of many tables and graphs contained in the 40-page engineering manual on air conditioning put out by Drayer-Hanson. The publication includes data on the company's ceiling suspended and floor mounted series of air handling units, plus a great deal of general interest information, such as recommended fan outlet velocities for residential, church, school classroom and other types of installations.

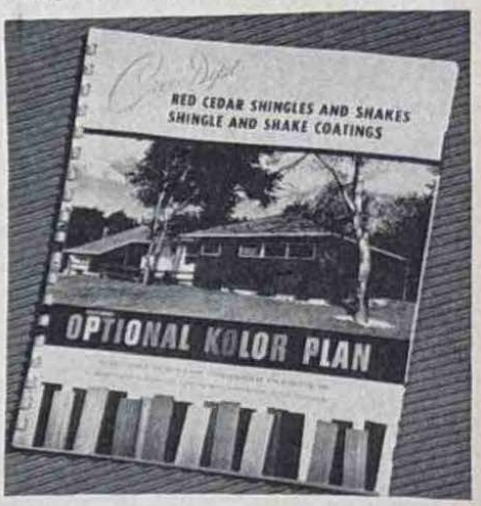
(Item No. 21)

CERAMIC TILE: Gladding, McBean and W. P. Fuller have joined forces to produce a decorating idea called California Coordinates that matches glazed ceramic tile and handprint wallpaper.

A full-color brochure shows off the five basic designs in 11 color combinations developed specifically for western homes.

(Item No. 22)

RED CEDAR SHINGLES: To provide greater flexibility in the selection of shingles, shakes and colors, Creo-Dipt



FLEXIBLE COLOR PLAN

has expanded its Kolor plan under which the factory primed shakes or shingles are sold as a unit with Fynal-Kote, a heavy bodied linseed oil base finish coating.

The plan is explained in a 40-page bulletin which also includes detailed information on the eight styles of shingles and shakes sold with Fynal-Kote, a 22-color chart, installation data and a two-page illustrated discussion on what happens when shingles are applied improperly.

(Item No. 23)

OFFICE PARTITIONS: Arnot Partition-ettes, Office-ettes and modular furniture are shown in some of the innumerable possible varieties in a 16-page brochure. The line features work stations that provide privacy without loss of valuable space and that are easily rearranged when necessary. Furniture is designed to cater to specific needs of each worker.

The booklet devotes space to construction and assembly features and shows a complete office layout for supervisory and clerical staffs.

(Item No. 24)

READER SERVICE

Pacific Architect and Builder
2418 Third Ave., Seattle 1, Wash.

Please send the literature or data about the material, products and tools listed on these pages.

MAY 1956

ITEM NO. (Circle those you wish): 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32

Name_____ Title_____

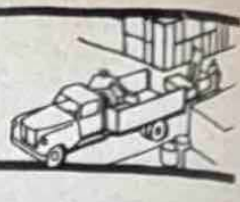
Firm_____

Address_____

City_____ Zone____ State_____

Builders and Suppliers

headlining the news



Seattle meeting scheduled for lumber producers

More than 100 leaders of the nation's lumber industry will meet in Seattle May 28-30 to consider ways of improving their products and services and otherwise strengthening their sales position against competitive materials. The occasion will be the 1956 spring meeting of National Lumber Manufacturers Association.

Among the speakers scheduled to address the lumber meeting at the Olympic Hotel are Reno Odlin, president, Puget Sound National Bank, Tacoma; H. R. Northup, executive vice president, National Retail Lumber Dealers Association, Washington, D.C.; Gilbert E. Morris, superintendent of building, Los Angeles, and Albert Balch, Seattle home builder.

Odlin will address a luncheon meeting of lumber association directors and committee members, May 28. Northup, Morris and Balch will participate in a panel discussion the same day on the subject, "A Long Look at Lumber's Future."

A highlight of the meeting will be a field trip of logging and sawmill operations of Weyerhaeuser Timber Co., at Everett, Wash., May 29.

• **Lionel J. Tilson** of San Jose and three others were killed instantly early in April in the crash of a single-engine Beechcraft Bonanza being piloted by the 41-year-old home builder. His wife Ann, 40; their daughter Judith, 15; and Vern S. Jopling, 50, Tilson's field manager, also died when the plane apparently lost a wing in a sudden, violent hailstorm and crashed, bursting into flames.

• **Champion bricklayer apprentice** of 1956 is Robert G. Neasham, 22-year-old apprentice from Santa Clara, Calif., who won his title at a six-day elimination contest held last month at the Union-Industries Show in Seattle.

Neasham won out over 37 other apprentices from the United States and Canada who participated in the eighth annual competition sponsored by the Bricklayers, Masons and Plasterers International Union.

• **Midwood Construction Co.** will start construction soon of the first homes in what is expected to be the largest single housing subdivision ever built in Orange County, Calif. the 400-acre site in the Long Beach-Garden Grove area, will include 1700 houses, a complete shopping center and other buildings at a cost of some $24 million.

• **The California Drywall Contractors Association** has been organized at Oakland by delegates from all three of the state's reigonal groups. New offices will be established at 608 S. Hill St., Los Angeles. Officers are Wayne Vaughn, Los Angeles, president; Paul Johnson, Oakland, first vice president; Hugh Hathcoat, Concord, second vice president; Fred O'Haver, San Jose, secretary; and Earl Kirby, Los Angeles, treasurer.

• **T Steel Corp.** of Seattle, manufacturer of long-span steel roof decking, has opened its Los Angeles office at 429 S. Western Ave. The new office is headed by John J. Miles, structural engineer, formerly with Young, Richardson, Carleton & Detlie, architects-engineers of Seattle.

• **Fenestra, Inc.**, formerly Detroit Steel Products Co., has opened its Portland branch offices at 337 Pittock Block, with Quenton Coble as sales manager.

Stockholders adopted the new com-

Built-in telephone outlets are a big selling point in today's home

says H. J. HARLOW, Jr., Harlow Construction Company, Sacramento, California



Homes built by the Harlow Construction Company have telephone outlets located for maximum convenience—in rooms where the family spends a lot of time. Concealed telephone wiring is another feature that adds to the livability and value of Harlow homes.

To successful builders like Mr. Harlow, who are setting living standards in the Pacific West, complete telephone planning is as basic as adequate electrical wiring. Pacific Telephone is always ready to help you plan built-in telephone facilities. Just call us and ask for our *free* Architects and Builders Service.

Specify built-in telephone facilities —a sign of good planning

Pacific Telephone

WINNER 1955
Award of Merit



Architects, Belluschi and Skidmore, Owings & Merrill.

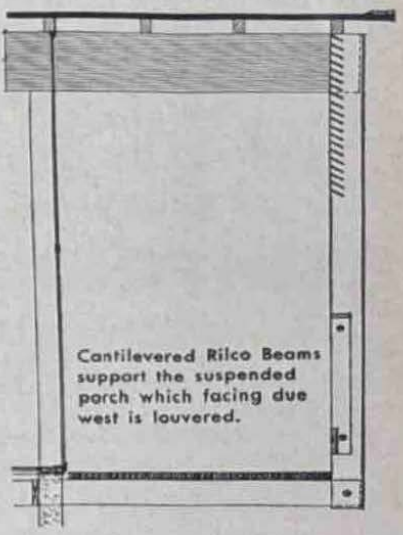
Consulting Structural Engineer, Cooper and Rose.

Rilco Beamed School Wins American Association of School Administrators Award

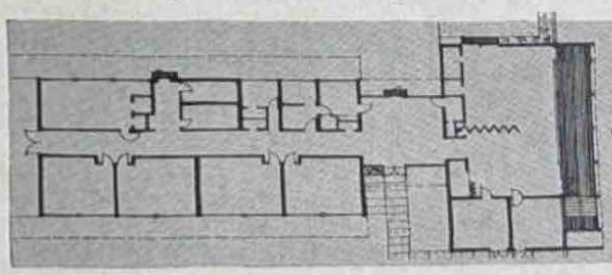
We don't know what part Rilco Laminated Beams played in winning the 1955 Award of Merit for the Tucker-Maxon School in Portland, Oregon. They must, however, have been instrumental in helping the architect to carry out this practical award winning design.

For graceful Rilco arches, beautiful beams, rugged trusses and four inch insulating cedar deck offer the warmth that only wood can give—warmth to the eye and warmth to the touch. And because each member is tailored to specification, Rilco imposes no design limitations.

Today Rilco Laminated Wood Members provide fire safety with less bulk to schools, churches, homes, factories and commercial buildings helping to fulfill new concepts of practical design for the architect. Rilco experience can be yours for the asking.



Cantilevered Rilco Beams support the suspended porch which facing due west is louvered.



Rilco Laminated Beams support roof over the preschool and dining area.

RILCO

works wonders with wood

RILCO LAMINATED PRODUCTS, INC.

ROOM 207 TACOMA BLDG., TACOMA 1, WASH.

Phone: BRoadway 2249

pany name at their annual meeting in Detroit in March. President H. D. Palmer explained that "the name Fenestra, the Latin word for window, has been inseparably identified with our company since 1907 when he entered the steel window field."

Incorporated in 1904 to make leaf springs for the then infant automobile industry, the company acquired in 1907 from an English firm the exclusive patent rights to manufacture and market the Fenestra window in the United States. Today's products which bear the Fenestra label also include wall, floor and ceiling panels, exterior and interior metal doors and roof deck.

• **Unit Masonry Association** of Seattle now has a full-time manager, Carl Robertson, with offices at 2413 Western Ave. He has been associated with a number of newspapers and trade publications, including Pacific Architect and Builder.

Founded in Seattle in 1953, the association has spread to many parts of the country and includes all elements of the masonry construction industry.

• **Pomona Tile Manufacturing Co.** has appointed Richard L. Scherbacher as advertising and promotion manager, succeeding Robert Rexroad who has been promoted to administrative manager.

Upon opening its new $200,000 administrative building addition at 629 La Brea, Los Angeles, last month, Pomona announced plans to increase production substantially, despite a "slight dip" anticipated in 1956 home construction.

• **Concrete Products Association of Washington** awarded top honors to Graystone of Olympia, Inc., and Bellingham Builders Supply in submitting heavy and lightweight aggregate blocks respectively in a competition. Each unit was judged for dimensional tolerance, symmetry, overall appearance, sharpness of detail and uniformity of color.

The jurors were Barrie Branch, AIA, of Bremerton; James Lindstrom, Superior Concrete Products Co., Seattle; and E. J. Dale, Portland Cement Association, Seattle.

• **Nudor Manufacturing Corp.** announces expansion plans that will increase production at the North Hollywood, Calif., plant by 100%. The new building is the third addition at the Nudor plant in the past six years.

• **Northwest Hardwood Association** adopted grading rules on Pacific Coast alder and maple logs and shop lumber at its quarterly meeting in Vancouver, B.C., April 14.

The new rules will govern the measurement, sale and purchase of hardwoods by association members and are designed to set up standards that will insure a higher quality product, comments president E. J. Nist. Printed copies may be obtained from the association's headquarters, 3253 Commodore Way, Seattle 99.

A. P. York of Educators Mfg. Co., Tacoma, headed the log rules committee and L. R. Smith of L. R. Smith Hardwood Co., Longview, Wash., the lumber rules committee.

• **Coast Aluminum Co.** has begun production of a complete line of residential aluminum casement windows, first in a line of aluminum building products planned by the new Gardena, Calif., firm.

Heading the company are Saul Pick, who has been in the construction supply business the past nine years, and Dave Griffith, who has had 18 years' association with the aluminum industry.

• **Ames Co.**, Hollywood, Calif., has been appointed West Coast representative for E. G. Building Fastners Corp., producer of the Fitsall screwshield.

FORMULA FOR HIGHEST VALUE IN BUILDING

Desirability divided by Price, equals Value.

REINFORCED

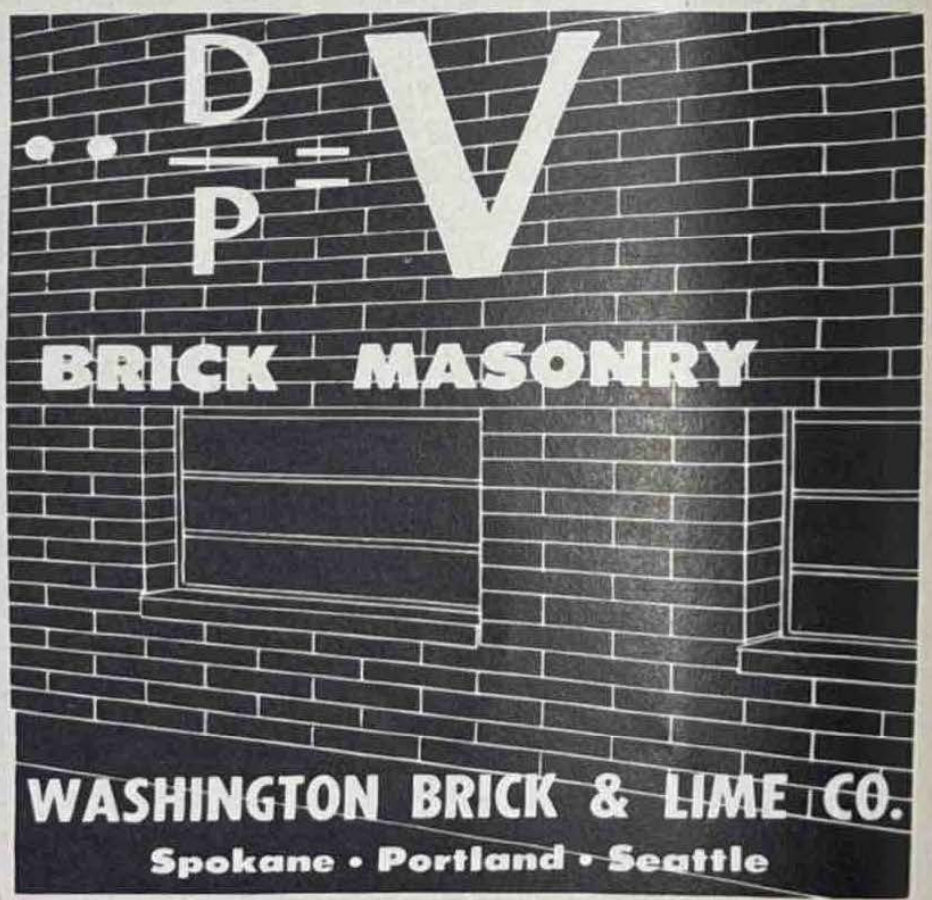
FOR + VALUES IN BUILDING

+ 1. Maintenance-free beauty of brick.
+ 2. Optional interior finishes — plaster, panelling, or face brick.
+ 3. Same structural wall at cost comparable to architectural concrete.
+ 4. Less structural steel required.
+ 5. Greater wall height without pilasters.

For the Future

Build Today With RBM.

Ask Your Architect!



Construction News Bulletin

Vol. 62—No. 10 (PA&B) News Section of Pacific Architect and Builder May 19, 1956

D. F. McCormick.....News Editor
G. M. Westman.....News Staff
Win Romtvedt.....Portland News Manager
S. S. Phillips.....News Staff
Newsroom • 2418 Third Avenue, Seattle 1, Washington • Phone MAin 0285

BUILDING NEWS

Washington, Oregon, Idaho, Montana, Wyoming, Utah, Alaska

- ● Bids Called
- ★ Contract Awards
- ▲ Low Bids—Bid Received
- ■ Planholders—Prospective Bidders

OREGON

STARTER SCHOOL— Aloha, Ore.

Bond issue for $47,000 approved by School District No. 81, Washington County, clerk, 81 Wheeler Ave., Aloha, for starter unit school. Plans by James C. Gardiner, architect, 3158 S.W. 87th Ave., Portland. Two classrooms, boiler room, storage room, sick room, two lavatories, corridor and paved covered play area. Post and beam construction; solid decking; concrete floor with asphalt tile; aluminum sash; masonry boiler room; hot water convectors. WB 5-12

LIME PLANT— Baker, Ore.
(Estimated cost $1,100,000)

Plans announced by Anthony Brandenthaler, president and owner of Burnt River Lumber Co., 3100 Broadway, for construction of a plant north of Baker for production of chemical grade and hydrated lime, for the newly formed Chemical Lime Co. Plans include erection of two kilns and foundations for two others to allow for expansion. Consulting engineers are Stoyanov & Johnson, 833 N. Shaver, Portland. Construction to be completed by fall. SC 5-8

● SCHOOL ADDITIONS— Beaverton, Ore.

Bids to be opened 8 p.m., May 31, by School District No. 57-J, Washington County, Calvin R. Evans, clerk, Cedar Hills School, Cedar Hills Blvd. and Park Way, Cedar Hills, Beaverton, for additions to the school. Plans with Stokes & Allyn, architects, 205 Hughes Bldg., Portland. $25 deposit. Certified check, cashier's check or bid bond 5%.

One-story, 63'x108' addition with five classrooms and toilets; another one-story and basement addition, 40½'x63' with two classrooms upstairs, and board room, offices and work room in basement. Reinforced concrete construction; wood joist first floor; wood joist roofs with built-up roofing; bat insulation between joists; cement stucco exterior finish; gypsum board interior finish; steel sash; asphalt tile flooring; acoustical tile ceilings; unit ventilators with heat from existing boilers; concentric ring lighting fixtures. WB 5-11. Previous report 2-4

COLLEGE— Bend, Ore.

Property granted to Central Oregon College Foundation, William E. Miller, president, 1540 W. 5th, Bend, by School Board, District Office, Wall and Kansas Streets, Bend, for construction as planned in the college building program. Plans include combination library and student union building, liberal arts building, science hall, museum. Five acres allocated to the college are in northwest corner of the new high school area. Grounds bounded on the west by E. 5th St., on the north by E. Emerson Ave., on the east by E. 7th St., and on the south by E. Elden St. and high school. SC 5-3

● TWO GRADE SCHOOLS— Burns, Ore.

Bids to be opened 8 p.m., June 1, by Harney County School District No. 501-C, Mildred L. Mayo, clerk, superintendent's office, Burns, Ore., for the Fillmore St. and Washington St. grade school buildings. Separate or combination bids. Plans with Freeman, Hayslip, Tuft & Hewlett, architects, 2040 S.W. Third Ave., Portland. $25 deposit. Certified check, cashier's check or bid bond 5%. Previous bid call was cancelled.

Each school to have four classroms, multi-purpose room, health room, kitchen and teachers' room. Fillmore school will also have eating area in multi-purpose room. Concrete slab floors; post and laminated beam construction; beveled cedar exterior siding; aluminum or steel sash; built-up roofing; asphalt tile flooring; ceramic tile in toilets; gypsum board upper walls; plywood wainscots; acoustical tile ceilings; fluorescent lighting; radiant heating in floors. WB 5-12. Previous report 3-29

★ GRADE SCHOOL— Canyonville, Ore.

Award by School District No. 8, Douglas County, Mrs. Helen Altree, clerk, Canyonville, Ore., for new grade school at Canyonville. Plans by Freeman, Hayslip, Tuft & Hewlett, 2040 S.W. 3rd Ave., Portland. AWARD: S. Ferche, P.O. Box 542, Roseburg, $100,756. 2ND LOW: Clyde Hamilton, 57 N.E. "A" St., Grants Pass, $101,195. 3RD LOW: Hampton C. Platt, P.O. Box 27, Salem, $102,500. Bids opened May 8. WB 5-15. Previous report 4-24

★ SCIENCE BUILDING, DORMITORY— Corvallis, Ore.

Awards by Oregon State Board of Higher Education, Earl M. Pallett, secretary, for the Agricultural and Biological Science Building, including utility tunnel system and the men's dormitory, Units A and B, and cafeteria at Oregon State College, Corvallis. Plans by Burns, Bear, McNeil & Schneider, architects, 2940 S.E. Belmont St., Portland. AWARDS — SCIENCE BLDG. — GENERAL: Ross B. Hammond Co., Box 3901, Portland, $1,104,597. MECHANICAL: Buchanan Co., 1518 N.E. Killingsworth St., $337,787. ELECTRICAL: Watco Electric Co., 4715 S.W. Macadam Ave., $117,551. LABORATORY EQUIPMENT: Weber Showcase & Fixture Co., Los Angeles, $144,000. DORMITORY-CAFETERIA — GENERAL: Ross B. Hammond Co., $1,446,798. MECHANICAL: Lord Bros., 9233 N. Calvert, $314,490. ELECTRICAL: Electric Corporation, P.O. Box 266, Salem, $116,960. STRUCTURAL STEEL: American Steel Warehouse Co., 425 N.E. 9th Ave., $16,507. KITCHEN EQUIPMENT: Losli Sheet Metal Works, 1729 S.W. 1st Ave., $72,145. Of Portland except as noted. Bids for refrigeration system for science building were rejected as too high and will be readvertised. WB 5-16. Preivous report 4-21

★ MEDICAL-DENTAL CLINIC— Eugene, Ore.

Award to John M. Steinmuller, 907 W. 3rd Ave., Eugene, $105,289, by Brothers Investment Co., c/o Percy D. Bentley, architect, U.S. National Bank Bldg., Eugene, for a 15-unit medical-dental clinic to be built on the southwest corner of E. 18th Ave. and Oak St., Eugene.

SP 5-11. Previous report 5-5

▲ SCHOOL ADDITION— Eugene, Ore.

Bids received by School District No. 4, Clarence Hines, superintendent, 275 E. 7th Ave., for a classroom addition to the Santa Clara Elementary School building in Eugene. Plans by John Laurin Reynolds, architects, 264 E. Broadway, Eugene. LOW BIDS: Elson C. Shields Co., 170 Patterson Road, Eugene, $14,830; V. A. Nelson, Route 1, Box 736, Creswell, $15,397; J. M. Steinmuller, Jr., 907 W. 3rd Ave., Eugene, $16,145. Bids opened May 9. DW 5-15

● FIRE STATION— Eugene, Ore.

Bids will be opened 11 a.m., May 28, by Bethel Water & Fire District, 2485 Roosevelt Blvd., Eugene, for construction of a Bethel fire station in Eugene. Plans with Paul Bogen, architect, 858 Pearl St., Eugene.

Two-story 40'x72'; reinforced concrete block construction for first floor, wood frame for second floor; built-up roof; concrete slab floors; glued laminated beams; acoustical tile ceilings; gypsum board walls; vinyl-asbestos tile, ceramic tile; plastic skylights; overhead doors; hot water radiant heating system. DW 5-15

● SCHOOL ADDITIONS— Eugene, Ore.

Bids will be opened 2 p. m., May 28, by Eugene School District No. 4, Clarence Hines, superintendent, 275 E. 7th Ave., Eugene, for classroom and corridor extension to Harris Elementary School, 1150 E. 29th Ave., Eugene, and a seven-classroom addition to Willagillespie Elementary School, 245 Willagillespie Road, Eugene. Plans with Hamlin & Martin, architects, 159 W. 12th Ave., Eugene.

Wood frame construction; concrete slab floor; built-up roof; asphalt and acoustical tile; new boiler to existing hot water heating system in Willagillespie School, connection to existing heating system in Harris School. DW 5-15

RESIDENCE— Gilchrist, Ore.

(Estimated cost $68,000)

Contract negotiated with Duncan Construction Co., Box 1088, Klamath Falls, by Gilchrist Timber Co., Gilchrist, for construction of a residence for Frank R. Gilchrist, president of timber company, in Gilchrist. Plans by Nina Pence, architect, 5241 Alva St., Klamath Falls. Completion date December 1, 1956.

One and a half stories; 4,000 sq. ft.; reinforced concrete footings and foundation; frame walls; pitched rafters; wood windows; drywall and wood panel partitions; wod, linoleum and cork floor finish; drywall and wood paneling ceilings; batt insulation in ceilings and wall. ZZ 5-11

● CHURCH ADDITION— Gresham, Ore.

Bids to be opened at 8 p. m., May 24, by St. Luke's Episcopal Church, Rev. Rene Bozarth, rector, 1205 S.E. Cathey Road, Gresham, for an addition to the church. Plans with Stuart B. Mockford, 723 Washington St., Oregon City.

One-story and daylight basement; includes two Sunday school rooms, toilets; concrete basement; upper story frame with redwood siding; wood sash; composition shingle roofing; asphalt tile flooring; acoustical tile ceiling; dry wall interior finish. WB 5-11

★BUILDING ADDITIONS, ALTERATIONS— Medford, Ore.

Award by Pacific Telephone and Telegraph Co., G. F. Zolling, chief engineer, 509 S.W. Oak St., Portland, for additions and alterations to the North Central Avenue telephone exchange, Medford. Plans by Church, Newberry & Roehr, architects, Kurt P. Schuette, associate, 619 Builders Exchange Bldg., Portland. AWARD: Smith-Phillips Co., 7402 S.W. Macadam Ave., Portland, $247,768. OTHER BIDS: H. Barnhart, 722 Dakota St., Medford, $257,000; Wiley Co. and L. C. McLaughlin, 252 Ridge Road, Ashland (joint venture) $271,400. Bids opened May 9. WB 5-15. Previous report 4-28

▲CREAMERY— Oregon City, Ore.

Bids received May 9 by Larsen's Creamery, 707 Railroad, Oregon City, for a new creamery building at 13th and Center Streets. Plans by Stuart Mockford, architect, 218 8th St., Oregon City. GENERAL—LOW BIDS: David W. Lind, 1115 Molalla Ave., $26,733; Serge R. Perrin, 405 Ogden Drive., $31,494; V. C. Johnson, 445 W. Clarendon, Gladstone, $33,196. ELECTRICAL—LOW BIDS: Coleman's Electric, 1001 Main, $3,352; Electric Service,, 104 8th St., $3,600; Adams Electric, 1800 S.E. Union Ave., Portland, $4,244. PLUMBING—ONLY BID: Straight & Salisbury, 914 Main St., $3,500. PAINTING—ONLY BID: Jim Garvison, Route 3, $2,906. Of Oregon City except as noted. WB 5-12. Previous report 5-5

● PACKING PLANT— Portland, Ore.

Owner, Max Lehmann, 3910 N. Suttle Road, Portland, plans to rebuild the Northwest Packing Co., No. 1 plant, 554 N. Columbia Blvd., which was destroyed by fire. Loss to building estimated at $500,000, to equipment, $500,000. No. 2 plant at Suttle Road address to be reactivated. WB 5-4

ARMY RESERVE TRAINING CENTERS— Portland, Ore.

(Estimated cost $1,572,000)

Congress has been asked to appropriate $1,572,000 for construction of reserve training centers in the Oregon Military District, Colonel Robert C. White, senior adviser, Vancouver Barracks, Vancouver, Wash. Following facilities will be built if money is appropriated: 400-man training center and motor vehicle storage facility in southern area of Portland ($401,000); 400-man center in western area of Portland ($338,000); 100-man centers at Coos Bay, Medford and Roseburg; 200-man centers at Corvallis and Eugene; National Guard warehouse at Camp Withycombe near Clackamas ($130,000) and National Guard armory at Woodburn. WB 5-4

▲REMODELING— Portland, Ore.

Bids opened May 9 by Portland School District No. 1, L. J. Baker, business manager, 620 N.E. Halsey St., Portland, for alteration to cafeteria at Beaumont School, 4043 N.E. Fremont St., Portland. LOW BIDS: Heigele Home Construction Co., 4034 N.E. 18th Ave., $33,196; James & Yost, P. O. Box 1025, $34,865; E. Carl Schiewe, 1024 N.E. Davis St., $35,122. Of Portland. WB 5-11. Previous report 4-28

SCHOOL ADDITION— Portland, Ore.

Scott & Payne, architects, 511 Builders Exchange Bldg., Portland, retained by Russellville School District No. 40, Frank C. Dempsey, clerk, 124 S.E. 102nd Ave., Portland, for multipurpose room addition to Cherry Park School, 104th Ave. and S.E. Harrison St. WB 5-12

★LOOKOUT TOWERS, HOUSES— Portland, Ore.

Awards by (bids opened May 7) U. S. Forest Service, Frank Walisch, regional supply officer, 729 N.E. Oregon St., room 18, Portland, for lookout towers and houses. WOOD—AWARD: Wood Fabricating Co., Foot of N.E. 162nd Ave., (Item 1) $2,426; (Item 2) $2,466. 2ND LOW: Carlton Lumber Co., 712 N. Tillamook St., $2,750 each. 3RD LOW: D & M Molding Co., 11320 N.E. Marx St., $7,110, $7,290. STEEL—AWARD: Screw Machine Products, 7737 N.E. Killingsworth St., (Total) $19,525 (One house to be eliminated from award due to shortage of funds). ONLY OTHER BID: Schmitt Steel Co., 2765 N.W. Nicolai St., $45,807. Bidders all of Portland. WB 5-15. Previous report 5-1

● SCHOOL ADDITION— Portland, Ore.

Bids to be opened 8 p. m., May 29, by Lynch School District No. 28, Multnomah County, Mrs. Dora L. Stevia, superintendent's office, 16301 S.E. Division St., Portland, for addition to Southwest Lynch School, 2801 S.E. 148th Ave. Plans with Annand, Boone & Lei, architects, 1530 S.W. Taylor St., Portland. Certified check, cashier's check or bid bond 5%.

Addition of seven classrooms and offices, 240'x47'; additional oil-fired boiler; concrete walls; concrete slab floor; steel sash; built-up roof; plaster wall finish; acoustical tile ceilings; asphalt tile flooring; incandescent lighting. WB 5-15. Previous report 4-11

● WAREHOUSE— Portland, Ore.

Bids to be opened 2 p. m., May 23, at office of Irving G. Smith and Charles C. Kotchik, 701 Portland Trust Bldg., Portland, for a warehouse and sales building in Guilds Lake area for Colyer Motor Sales, 34 N.W. 8th Ave., Portland. Plans by Earl Heitschmit, architect, Los Angeles. Smith & Kotchik are associate architect on the project.

Planholders: A. V. Peterson, P. O. Box 2368; Henry M. Mason Co., 2206 N.W. Thurman St.; Robertson, Hay & Wallace, 1801 S.E. Grand Ave.; Donald M. Drake Co., 1600 N.W. Savier St.; Reimers & Jolivette, Builders Exchange Bldg.; Smith-Phillips Co., 7402 S.W. Macadam Ave.; Andersen-Westfall Co., 2470 N.W. Nicolai St. Planholders of Portland. WB 5-15

★SCHOOL ADDITION— Portland, Ore.

Award to St. Pierre & Vermilyea, 10505 N.E. Beach St., Portland, approximately $60,000 (basic bid plus two alternates), by Rockwood School District No. 27, Multnomah County, Gladys Nicholls, clerk, 740 S.E. 182nd Ave., Portland, for addition and finishing at North Rockwood Primary School, 330 N.E. 172nd Ave. WB 5-15. Previous report 4-28

▲CITY HALL— Prineville, Ore.

(Estimated cost $141,000)

Bids opened May 10, by City Building Committee, John Gordon, chairman, City Hall, Prineville, for a new city hall. Plans by Skidmore, Owings & Merrill, architects, 2040 S.W. Jefferson St., Portland. LOW BIDS: Fred Kaiser, Madras, $136,290; Lewis Kowolowski, P. O. Box 26, Madras, $141,946; Degree Construction Co., 1828 Aubrey Road, Bend, $142,000. WB 5-15. Previous report 5-3

■ SCHOOL ALTERATIONS— Riddle, Ore.

Planholders announced for alterations to Riddle High School. Bids to be opened 8 p. m., May 21, by School District No. 70, Douglas County, Mildred Vaughn, clerk, High School, Riddle, Ore. Plans with McCoy & Bradbury, architects, 7007 Highway 99, Vancouver. $15 deposit. Certified check, cashier's check or bid bond 5%.

Planholders: Todd Building Co., P. O. Box 27, Roseburg; Mann Construction Co., P. O. Box 577, Redmond; S. Ferche, P. O. Box 542, Roseburg. WB 5-12. Previous report 5-3

CORRECTIONAL INSTITUTION— Salem, Ore.

(Estimated cost $6,000,000)

New site selected by Oregon State Board of Control(William Ryan, secretary, room 124, Capitol Bldg., Salem, for the Oregon State Correctional Institution, penitentiary for young offenders. New site is part of Oregon State Hospital Cottage farm, five miles southeast of Salem. Site formerly chosen near St. Paul will be part of new air base. Working drawings to start soon by Annand, Boone & Lei, architects, 1530 S.W. Taylor St., Portland. State-owned sewer will be utilized in place of sewage disposal plant. WB 5-12. Previous report 1-19

★SCHOOL ADDITION— Salem, Ore.

Award announced by School District No. 24CJ, Marion County, Connell C. Ward, clerk, 1309 Ferry St., Salem, for construction of additions and alterations to the Four Corners School in Salem. Plans by John Grimmer Groom, architect, 2319 State St., Salem. AWARD: Hampton C. Platt, 4433 Macleay Road, $55,250. 2ND LOW: Mills Construction Co., 502 Kingwood Drive, $56,965. 3RD LOW: H. G. Carl, 1210 S. 22nd St., $59,871. All of Salem. Bids opened May 10. SP 5-15. Previous report 5-9

■ FAIRVIEW HOME BUILDINGS— Salem, Ore.

Planholders announced for construction of three buildings at Fairview Homes in Salem. Bids will be opened 2 p. m., June 1, by Oregon State Board of Control, William C. Ryan, secretary, 124 Capitol Bldg., Salem. Plans with Wilmsen & Endicott, architects, 863 13th Ave. E., Eugene.

Planholders: Viesko & Post, Box 69, Salem; E. E. Batterman, 147 N. Commercial St., Salem; Donald M. Drake, 1600 N.W. Savier Road, Portland. DW 5-16. Previous report 1-4

● SCHOOL ADDITION— Scio, Ore.

Bids to be opened 8 p. m., May 29, by School District No. 95C, Mrs. Ardyth L. Badger, clerk, High School, Scio, Ore., for addition to the high school. Plans with John K. Smeed, architect, 8313 S.W. Barbur Blvd., Portland. $50 deposit. Bid guarantee 5%.

Addition of two units; first includes four classrooms, two toilets, janitorial and storage space, corridor and cross corridor; second includes music room, three practice rooms, small control room, vestibule and remodeling of space for instrument storage and instructor's office. Lightweight block construction; brick veneer exterior; concrete slab floor with asphalt tile; steel sash; built-up roof on wood joists; acoustical tile ceilings; painted block walls; acoustical treatment on music room walls; extension of existing steam heating with unit ventilators; incandescent lighting (alternate for fluorescent. WB 5-16

▲**SUPERMARKET ADDITION—** **The Dalles, Ore.**

Bids received May 8 by Ninth Street Super Market, The Dalles, for addition and remodeling to the market. Plans by Warren Weber, architect, 610 Fenton Bldg., Portland. BIDDERS: Mid-State Construction Co., 810 Union St., The Dalles, $100,693; Robertson, Hay & Wallace, 1801 S.E. Grand Ave., Portland, $104,930. WB 5-15. Previous report 5-8

▲**RESIDENCE, MACHINE SHED—Troy, Ore.**

Bids received May 10 by Oregon State Game Commission, P. W. Schneider, director, 1634 S.W. Alder St., P. O. Box 4136, Portland, for construction of a residence and a machine shed at Wenaha Game Management Area near Troy, Ore. LOW BID: W. N. Young, Enterprise, $23,923. OTHER BIDS: Hampton C. Platt, 3805 Thorndale Road, Salem, $24,000; K. L. Clark, Hermiston, $25,987. WB 5-12. Previous report 5-2

★**LIBRARY ADDITION— Umatilla, Ore.**

Award by Umatilla County Library Board, Umatilla County Courthouse, Umatilla, for construction of an addition to the Hermiston Branch of the Umatilla County Library at Umatilla. Plans by Wesley V. Korman, architect, Raley Bldg., Pendleton. AWARD: Vickers Construction Co., Route 1, Box 143-D, Hermiston, $2,385.
GW 5-16. Previous report 4-28

MENTAL HOSPITAL— Wilsonville, Ore.
(Estimated cost $14,000,000)

Site has been selected for new mental hospital by State of Oregon, Board of Control, Colonel William Ryan, secretary, room 124, State Capitol Bldg., Salem. Site is one mile west of Wilsonville on Portland-Salem expressway and contains 506 acres. First unit of hospital will contain 450 beds and $6,300,000 has been appropriated for construction. Plans by Stanton, Boles, Maguire & Church, architects, 600 Concord Bldg., Portland. WB 5-9. Previous report 10-5

AIR BASE— Woodburn, Ore.
(Estimated $13,508,000)

Construction is expected to start after July, 1957, on a new air base for the Air Force and Navy at French Prairie site west of Woodburn and south of St. Paul, 25 air miles southwest of Portland. Site is 5,000 to 6,500 acres; will include 9,000' or longer runway, expandable to 15,000' as needed. Base will be occupied by 460th Fighter-Interceptor Squadron and other unit by Naval Reserve training units now located at Portland airport. The 13th Naval District Public Works office in Seattle will handle detailed planning and construction.
WB 5-8. Previous reports 5-8 and 3-6

WASHINGTON

■ **COLLEGE— Aberdeen, Wash.**

Planholders announced for construction of a new junior college in Aberdeen. Bids will be opened 8 p. m., May 24, by Aberdeen School District No. 5, H. J. Kramer, superintendent, Weatherwax High School Bldg., 3rd and H Streets, Aberdeen. Plans with Jensen & Mills, architects, 308 S .Tacoma Ave., Tacoma.

Planholders—GENERAL: Andy Johnson, 339 Eklund, Hoquiam; Grays Harbor Construction Co., Aberdeen; Ed Lundgren, 809 N. "K" St., Aberdeen; Dahlgren Construction Co., 1700 21st Ave. S., Seattle; Roy T. Early Co., 321 Middle Waterway, Tacoma; Anderson Construction Co., 115 S. 9th, Tacoma. MECHANICAL: Grays Harbor Plumbing & Heating Co., 318 E. Market, Aberdeen; Rainier Mechanical Contractors, Inc., 2702 E. 112th, Tacoma; P. S. Lord Mechanical Contractors, Inc., 4507 S.E. Milwaukie, Portland. ELECTRICAL: Pioneer Electric Co., 735 Commerce, Longview; Aberdeen Electric Co., Aberdeen.
SP 5-11. Previous report 5-5

★**PARTITIONS— Aberdeen, Wash.**

Award to Lamb Construction Co., 506 S. "F" St., Aberdeen, $7,678, by 13th Naval District, Bureau of Yards and Docks, Rear Admiral A. H. Meads, chief of bureau, Public Works Office, room 100, Building 232, U. S. Naval Station, Seattle, for providing partitions in the head house at the U. S. Naval and Marine Corps Reserve Training Center, Aberdeen; NBy-1928; Spec. No. 1928/56. GW 5-15. Previous report 4-20

★**RESTROOM, PARK FACILITIES— Anacortes, Wash.**

Award to Dave Snyder, 1313 Alaska, Anacortes, $3,627, by City Council, City Hall, Anacortes, for construction of restroom and park facilities at Washington Park in Anacortest. JD 5-10. Previous report 4-21

★**REMODELING STORE— Anacortes, Wash.**

Award to Pearson Construction Co., 2034 Franklin, Bellingham, $6,000, by Diamond Stores, Robert B. Miller, manager, 607 Commercial, Anacortes, for remodeling front of existing store and adding balcony at rear of store. JUD 5-12

●**MECHANICAL WORK—** **Battle Ground, Wash.**

Bids to be opened 1:30 p. m., May 31, by School District No. 119, Clark County, Earl Jackson, clerk, Administration Bldg., Battle Ground, Wash., for extensions to the steam distributing system and mechanical revisions at Slevoir Hall and the Home Economics Building. Plans with Freeman, Hayslip, Tuft & Hewlett, architects, 2040 S.W. 3rd Ave., Portland. $10 deposit. Certified check, cashier's check or bid bond 5%. WB 5-12

●**ART EQUIPMENT, TOOLS, LOCKERS— Bellevue, Wash.**

Bids will be opened 2 p. m., May 23, by Bellevue School District No. 405, George B. Brain, superintendent, Box 67, Bellevue, for furnishing industrial art equipment, tools and lockers for the school district. Specifications with superintendent, Junior High School, Bellevue. Certified check, cashier's check or bid bond 5%. GC 5-11

●**HIGHLAND ELEMENTARY SCHOOL— Bellevue, Wash.**

Bids will be opened 2 p. m., June 5, by School District No. 405, King County, George B. Brain, superintendent, Box 67, Bellevue, for construction of an elementary school in the Highland area of Bellevue. Plans with Jones & Bindon, architects, 715 Hoge Bldg., Seattle. $25 deposit, general; $15 deposit, mechanical; $15 deposit, electrical. Bid bond 5%.

One-story; 20 classrooms, cluster type buildings, four classrooms per unit with covered play area to each unit; administration and multipurpose units, covered walks connecting all buildings; light steel frame; SCR brick in set panels; aluminum window walls; 2" t&g rof deck, built-up roof; parking space for 45 cars.
SP 5-16. Previous report 4-27

●**STORAGE BUILDINGS, ADDITIONS— Bremerton, Wash.**

Bids will be opened 1 p. m., May 28, by Public Works Office, P. J. McEleney, officer in charge of construction, Bldg. 1, U. S. Naval Ammunition Depot, Bangor, Bremerton, for construction of two new storage buildings and additions to three buildings; Spec. No. 1975/56. Specifications with above office.

Project includes the following construction: 1—paint and oil storage building; 10'x12' concrete foundation and floor; concrete block walls; frame roof with rolled roofing. 2—storage shed; 32'x54'; frame construction on existing concrete slab; corrugated aluminum roofing. 3—addition to Bldg. No. 192; 12'x12'-3"; concrete foundation and floor; concrete ramp; frame construction; explosion-proof electrical fixtures; rolled roofing. 4—addition to Bldg. No. 274; 14'x13'-9"; concrete foundation and floor; concrete block construction; corrugated cement-asbestos roofing; standard electrical fixtures. 5—addition to Bldg. No. 195; 32'x40'; concrete footings; frame construction; rolled roofing. SP 5-11

★**BUILDING REHABILITATION— Camp Murray, Wash.**

Award to Douglas Pravitz, 216 Bowlin St., Orting, Wash., $8,246, by Departments of Army and Air Force, National Guard Bureau, Bldg. 4, Tacoma Naval Annex, 5114 Steilacoom Blvd. S.W., Tacoma, for rehabilitation of buildings 45B, 46B, 47B, Camp Murray, Fort Lewis; Inv. No. NG-45-113-56-12. Bids opened May 3.
SP 5-10. Previous report 4-24

■ **SCHOOL ADDITION— Carson, Wash.**

Planholders announced for addition to Carson Grade School. Bids to be opened 8 p. m., May 22, by School District No. 30, Skamania County, Evelyn O. Hutchings, clerk, Grade School, Carson, Wash. Plans with Freeman, Hayslip, Tuft & Hewlett, 2040 S.W. 3rd Ave., Portland. $25 deposit. Certi-

If the job calls for WALL HYDRANTS specify GREENBERG!



BRONZE PRODUCTS by GREENBERG

M. GREENBERG'S SONS
765 FOLSOM ST. • EXbrook 2-3143
SAN FRANCISCO 7, CALIFORNIA
Offices in Principal Cities throughout the United States



Flush type wall hydrant with locking type hinge (will rough into 6" wall).
Nipple and adapter allow placing inlet at either side or back.

fied check, cashier's check or bid bond 5%. Planholders: Spencer Construction, 465 W. Garibaldi, Hillsboro; Larry O. Collins, 7017 Highway 99-N, Vancouver; L. C. Baldwin & Son, Belmont Road, Hood River; Simonton & Steele, 3805 S.W. Garden Home Road, Portland. WB 5-16. Previous report 5-8

▲FIRE STATION— Centralia, Wash.

Bids received by City Commissioners, City Hall, Centralia, for construction of a fire station at Centralia. Plans by G. Ekvall, architect, 1620 E. 4th, Olympia. LOW BIDS—GENERAL: K. T. Henderson, 1362 Colorado, Longview, $74,383 (general), $101,802 (general, electrical, mechanical); Osborne Construction Co., Route 2, Chehalis, $88,482 (general); Noel Construction Co., 11014 Main St., Bellevue, $111,947 (general, electrical, mechanical). MECHANICAL: Capitol Plumbing & Heating, 424 Jefferson St., Olympia, $19,872; Modern Plumbing & Heating, 1313 Market St., Chehalis, $19,200. PLUMBING AND HEATING: I. J. Wilson, 316 S. Tower St., Centralia, $17,689. ELECTRICAL: E & L Electric, Route 1, Centralia, $7,460; War-Mur Electric, Centralia, $7,600. Bids opened May 8. SP 5-11. Previous report 4-7

★VHF/FM RELAY BUILDING— Chewelah, Wash.

Award to Schoenberg & Kaiser, Chewelah, $8,164, by Procurement Officer, C. S. Phelps, Geiger Field, Spokane, for construction of a VHF/FM relay building in the vicinity of Chewelah; IFB 46-614-56-59. CE 5-16. Previous report 4-20

★POST OFFICE— Connell, Wash.

Award to C. F. Griggs & Associates, Pasco, by City Council, City Hall, Connell, for construction of a building on Mottet St., across from Aubert Theater, in Connell, to house the post office. Builders have a 10-year lease with the federal government with two 5-year options. One-story; concrete block construction; 1,620 sq. ft. SC 5-16

●■HIGH SCHOOL— Davenport, Wash.
(Estimated cost $300,000)

Bids will be opened 8 p.m., May 24, by Lincoln County School District 207, Jack Newell, Davenport, for construction of a high school in Davenport. Plans with Culler, Gale, Martel & Norrie, architects, 615 Realty Bldg., Spokane. $25 deposit. Bid bond 5%.

One-story; partial basement under shop; 19,000 sq. ft. area; reinforced concrete footings and foundation; brass and steel frame walls; concrete slab floors; built-up roof; concrete masonry partitions; steel windows; vinyl asbestos tile floor finish; rigid insulation in roof; low pressure steam heating system with oil fuel.

Planholders: AAA Construction, N. 739 Helena St.; Busboom & Rauh, N. 601 Cedar St.; Hansen & Parr Construction Co., W. 315 Boone Ave.; Phil McInnic & Henry George & Sons, 412-217 Hutton Bldg.; E. R. Haynes Construction Co., W. 2028 Sinto Ave.; Selkirk Co., E. 601 Trent Ave.; Sceva Construction Co., Inc., N. 2928 Madelia St. All of Spokane.

CE 5-12. Previous report 1-12

●SCHOOL ADDITION— Edmonds, Wash.

Bid opening time change from 8 p.m. to 3 p.m., May 28, by Edmonds School District No. 15, Edmonds, for construction of 13-classroom addition to Martha Lake Grade School, Edmonds. Separate bids on general, mechanical, electrical. $25, $15, $15 deposit respectively. Bid bond 5%. Plans with William Arild Johnson & Associates, architects, 3506 Broadway, Everett. DC 5-11. Previous report 5-9

●STRUCTURAL STEEL— Edmonds, Wash.

Bids will be opened 1 p.m., May 21, by Edmonds School District No. 15, Harold Silvernail, superintendent, Box 308, Edmonds, for furnishing structural steel for the proposed new Edmonds High School to be built at Holmes Corner, 212th S.W. and 76th Ave. W., Edmonds. Plans with Waldron & Dietz, architects, room 8, 208 Columbia St., Seattle, and with superintendent in the high school building, Edmonds. $20 deposit.

One-story; 156,000 sq. ft.; steel frame; precast concrete exterior walls; flat steel roof deck. GW 5-11

HOUSING— Fairchild AFB., Wash.

Plans to be complete late in July by Bassetti & Morse, architects, 1602 Tower Bldg., Seattle, for construction of 250 housing units at Fairchild AFB. Bids will be called beginning August, by purchasing and contracting officer, Major R. C. Axel, Fairchild AFB.

Project includes 30 single houses, 220 unit duplexes, and 100 duplex buildings; SCR brick and frame walls; frame floors; timber beams; built-up roofing with marble chips; wood windows; plasterboard wall interior finish; asphalt tile floors; plaster ceilings. GW 5-12. Previous report 1-20

●HANGAR REPAIR— Geiger Field, Wash.

Bids will be opened 2 p.m., June 11, by U.S. Air Force, Procurement Office, C. S. Phelps, contracting officer, Geiger Field, Spokane, for hangar repair at Bldg. 725 at Geiger Field; IFB 45-614-56-78. Specifications with above office. Bid bond 20%. CE 5-15

★FLOORING— Geiger Field, Wash.

Award by Department of Air Force, Procurement Division, C. S. Phelps, procurement officer, Geiger Field, Spokane, for furnishing and installing flooring in buildings 2, 214, 412, 1397 and 1591 at Geiger Field, Spokane, Wash.; IFB 45-614-56-61. AWARD: Fashion Flooring Co., N. 5011 Division, Spokane, $3,640. Bids were opened April 24 and held under advisement. CE 5-16. Previous report 4-5

■DOG RUNS— Geiger Field, Wash.

Planholders announced for construction of three dog runs at the 636th Squadron in the vicinity of Condon, Ore., and three dog runs in vicinity of Othello, Wash.; IFB 45-614-56-75. Bids will be opened 2 p.m., May 22, by U.S. Air Force, Procurement Office, C. S. Phelps, procurement officer, Geiger Field, Spokane.

Planholders: AAA Construction Co., N. 739 Helena St., Spokane; Beaver Construction Co., Inc., N. 2619 Hamilton St., Spokane; Anton J. Popp Construction Co., 205 29th Ave., Spokane; P & B Co., Inc., N. 2004 Bessie St., Spokane; J. R. Yarno, S. 1517 Maple St., Spokane; Harvey N. Yager, 1st Ave. at "A" St. S.E., Ephrata; Cherf Bros. & Sandkay, Inc., Box 506, Othello; W. L. Reid Co., 3178 S.W. 87th Ave., Portland, Ore.; B & F Co., Box 503, Pendleton, Ore.; Levage Construction Co., Box 655, Parkland; Zeikler Construction Co., John Day, Ore.; E. A. Oman & Sons, Bitter Creek Highway, Hermiston, Ore.; McCormick Construction Co., S. E. 3rd and Goodwin, Pendleton; Schoenberg & Kaiser, Chewelah. CE 5-11. Previous report 5-8

★SCHOOL ADDITION— Grandview, Wash.

Correction: Jensen-Rasmussen & Co., Box 89, Sunnyside, $85,980, was awarded a contract by School District Jt. No. 116-200, Grandview, for construction of a shop addition to Grandview High School. In a previous report, it was erroneously stated that bids had been rejected. DM 5-16. Previous report 5-3

●DEMOLITION OF BUILDINGS— Hadlock, Wash.

Bids will be opened 2 p.m., P.S.T., June 6, by 13th Naval District, Bureau of Yards and Docks, Rear Admiral R. H. Meade, chief of bureau, Public Works Office, room 100, Building 232, U.S. Naval Station, Seattle, for demolition of five buildings, U.S. Naval Ammunition Depot, Bangor, Indian Island Annex, Hadlock, Wash.; NBy 2030; Spec. No. 2030/56.

Work includes demolition or removal of six residential buildings and three one-story storage sheds;-all buildings wood-frame construction supported with concrete pier footings or wood blocks or skids and sills on the ground. The residential buildings have outlying structures such as garage, sheds, barns, elevated oil storage tanks, wood and wire fences, a pumphouse and walkways, these also to be removed. GW 5-15

●GAME RANGE PROJECT— Johns River Range, Wash.

Bids to be opened 2 p.m., May 28, by John A. Biggs, director of game, 509 Fairview Ave. N., Seattle, for construction of the Johns River game range project located at the mouth of Johns River, about 13 miles southwest of Aberdeen. Plans with the director. $20 deposit. Project involves three-bedroom residence, foundation for garage and workshop, curbs and walks, access road, parking area, launching ramps and river dikes. DC 5-12

HOSPITAL— Kelso, Wash.

Plans for forming hospital district and construction of a hospital in the Longview-Kelso area are under consideration by Cowlitz County Commissioners, Kelso. County has $54,000 available in two hospital funds and a $46,000 building site. SC 5-8

CHURCH, CONVENT, RECTORY AND SCHOOL— Kirkland, Wash.

Plans to be complete late in June, by Johnston-Campanella, architects, 600 Orpheum Bldg., Seattle, for construction of buildings to house the Catholic church, convent, rectory and school at Rose Hill, Kirkland. Bids will be called by Catholic Archdiocese of Seattle, Most Rev. Thomas A. Connolly, archbishop, 907 Terry Ave., Seattle. Rev. Donald Conger will be pastor of the new church.

One story; convent 6,000 sq. ft.; rectory, 3,500 sq. ft.; church and school 28,000 sq. ft.; steel frame with masonry filler walls; tilt-up concrete walls in the church; concrete slab floors; steel girders, beams and columns; wood exposed roof in church, steel in school; masonry partitions; aluminum sash; tin deck insulation; asphalt tile flooring, acoustical fiberglass ceilings; wood cabinets. GW 5-12. Previous report 12-17-55

▲SCHOOL ADDITION— Kirkland, Wash.

Bids received May 10 by Lake Washington School District No. 413, King County, Morton A. Johnson, superintendent, Box 188, Kirkland, for construction of a four-room addition to Rose Hill Elementary School at N.E. 80th and 128th Ave. N.E., Kirkland. Plans by Mallis & DeHart, architects, 631 Lyon Bldg., Seattle. LOW BIDS: Poston Construction Co., 5619½ University Way, Seattle, $47,000; Clair E. Prescott, 3516 Airport Way, Seattle, $48,314; Wick Construction Co., 720 N. 35th, Seattle, $50,000. GW 5-12. Previous report 5-8

▲SCHOOL ADDITION— Othello, Wash.

Bids received by Othello School District 147-163-55, Othello, for construction of a 10-classroom addition to Lutacaga Elementary School. Plans by Victor Louis Wulff, architect, 1526 W. Riverside, Spokane. LOW BIDS—GENERAL: William F. Spilker, Route 5, Spokane, $96,106; Cherf Bros., Inc., and Sandkay, Inc., Box 938, Ephrata, $102,900; E. Chuck Mardis, 423 W. Lewis, Pasco, $111,549. MECHANICAL: Randolph & Taylor, Pasco, $5,295. ELECTRICAL: Baldwin & Briggs Electric Co., N. 1303 Monroe, Spokane, $33,538. Bids were opened May 8. DC 5-11. Previous report 5-3

●CONTROL HOUSE ADDITION— Pasco, Wash.

Bids will be opened 2 p.m., May 29, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for construction of control house addition at Franklin substation, approximately six miles southeast of Pasco, Franklin County, Wash.; Inv. No. 7994. Specifications with above office. $25 deposit. Bid bond 25%. Completion time 150 calendar days.

Quantities: 200 c.y. excavation and grading; 133' switchyard fencing with curb; 610 sq. ft. concrete sidewalks; 150 c.y. crushed rock; 255' concrete curb; 275 c.y. excavation and backfill. Project also includes concrete and cement finish; building masonry; roofing and sheet metal; acoustical plaster; hollow metal doors and frames; metal windows and screens; heating and air conditioning; plumbing; electrical work; glass and glazing; metal work; painting; finish hardware; rubber and asphalt tile; toilet partitions;

suspended ceilings; venetian blinds; flagpole. SP 5-11

COLLEGE BUILDING ADDITION— Pullman, Wash.

Preliminary plans underway by Culler, Gale Martell & Norrie, architects, Realty Bldg., Spokane, and Decker, Christenson & Kitchin, architects, 1411 4th Ave. Bldg., Seattle, for construction of addition to McCoy Hall, the veterinary clinic building on campus at State College of Washington in Pullman. Addition is part of the maintenance work planned for the college. MH 5-8

★PHEASANT PENS— Pullman, Wash.

Award to C & S Builders, Pullman, $3,960, recommended by Board of Regents, State College of Washington, Pullman, for construction of 18 pheasant pens, to be used for experimental purposes in research conducted under guidance of professor of wildlife management, erected on college farmland. Alternate for 8 more pens not accepted. Plans by Philip E. Keene, college architect, Services Bldg., Washington State College, Pullman. MH 5-10. Previous report 5-8

HOSPITAL ADDITION— Seattle, Wash.

Plans underway by John Graham & Co., architects, 1436 5th Ave. Bldg., Seattle, for construction of a seven-story addition to St. Francis Xavier Cabrini hospital, formerly Columbus Hospital, at Madison and Terry, Seattle. The work includes alterations to the existing building.

Addition will be connected to existing building and will consist of seven-story main wing approximately 56'x130', a three-story, 50'x120' wing facing Terry Ave.; of reinforced concrete faced with marble and brick; operating aluminum mold bar sash. A covered concourse is provided for loading of patients. GW 5-10

★BUILDING REMODELING—Seattle, Wash.

Award to Palmer Shops, 538 N. 78th, Seattle, $8,993, for remodeling of the Knights of Columbus Club building, 722 E. Union, Seattle, Stanley McNaughton, chairman building development committee. Plans by Johnston - Campanella, architects, 600 Orpheum Bldg., Seattle. GW 5-11. Previous report 4-19

■ MERIDIAN SCHOOL— Seattle, Wash.

Planholders announced for the construction of a 16-classroom elementary school between N. 170th and N. 172nd and Meridian Ave., Seattle. Bids will be opened 8 p. m., May 29, by Shoreline School District No. 412, Ray M. Howard, superintendent, N. 137th and Roosevelt Way, Seattle. Plans with Jones & Bindon, architects, 715 Hoge Bldg., Seattle. $25 deposit on general, $15 on mechanical and electrical plans. Certified check, cashier's check or bid bond 5%.

Planholders—GENERAL: Lewis Construction Co., 1711 Jackson; Dahlgren Construction Co., 1700 21st Ave. S.; Wick Construction Co., 720 N. 35th; Brady Construction Co., 707 Spokane St. ELECTRICAL: Hooper Electric Co., 215 Marion St.; Beckstrom's Electric Co., 14-58 Bothell Way; Watts Electric Co., 1722 Market St., all of Seattle. GW 5-11. Previous report 5-1

● INTERIOR ALTERATIONS— Seattle, Wash.

Bids will be opened 3 p. m., May 29, by General Services Administration, W. W. Southworth, chief of Construction and Repair Division, room 126, Federal Office Bldg., 909 1st Ave., Seattle, for installation of additional partitions, installation of new radiators, relocation of existing radiators, and miscellaneous items, at 2400 4th Ave. S., 4th S. and Lander St., Seattle; Project No. CR-10-432. Plans with General Services Administration, at above address. GW 5-11

■ CHRISTIAN EDUCATION BUILDING— Seattle, Wash.

Planholders announced for the construction of a new Acheson Memorial Christian Education building at E. 47th and 15th Ave. N.E., Seattle. Bids will be opened 2:30 p. m., May 25, in the office of Rich & Trimble & Associates, architects, 4507 University Way, Seattle, by University Presbyterian Church, Rev. David L. Cowie, pastor, 3733 47th Place N.E., Seattle. Select list of bidders. Peter H. Hostmark, Mayberg & Associates, Lloyd Bldg., are structural engineers; Stern & Towne, mechanical engineers, and Thomas E. Sparling, electrical engineer, both of 615 Lakeview Blvd. All of Seattle.

Planholders—GENERAL: J. C. Boespflug Construction Co., 1912 4th Ave. S.; W. G. Clark Co., 408 Aurora; Jentoft & Forbes, 927 W. 46th; Nelse Mortensen & Co., Inc., 1021 Westlake Ave. N.; John H. Sellen Construction Co., 228 9th Ave. N.; George E. Teufel Co., White - Henry - Stuart Bldg.; Henrik Valle Co., Inc., 413 3rd Ave. W.; Wick Construction Co., 720 N. 35th. MECHANICAL: W. E. Beggs, Inc., 234 9th Ave. N.; W. A. Botting, 5625 University Way; Boyker Plumbing and Heating Co., Inc., 2627 Eastlake; Thorn & Marble Co., Inc., 4225 23rd Ave. W.; University Plumbing and Heating Co., 3941 University Way; West Coast Heating and Plumbing Co., 657 7. Northlake. ELECTRICAL: Carlson-Collingwood, Inc., 8945 Aurora; City Electric & Fixture Co., 433 8th Ave. N.; Geddes Electric Co., Inc., 1316 N. 105th; Holert Electric Co., 2300 W. Spokane; Industrial Electric Co., 1828 Yale Ave.; Northwest Electric Co., 420 Yale Ave. N.; Van S. McKenny Co., 104 Wall; Selo Electric Co., Inc., 1050 N. 38th; Donald W. Close Co., 2921 13th Ave. S.W. All of Seattle. GW 5-12. Previous report 5-2

▲ OFFICE BUILDING— Seattle, Wash.

The low bid for construction of an office building at 212 Queen Anne Ave., Seattle, was submitted by Joe Rentel, 123 Mercer, Seattle, when bids were opened May 9. Amount of the bid has not been released by the owner, Delmar H. Noonan. Bids are being held under advisement. Plans by John C. O'Brien, architect, 332 2nd Ave. W., Seattle. GW 5-12. Previous report 5-2

★HEATING CONTROL— Seattle, Wash.

Award to Selo Electric Co., 1050 N. 35th, Seattle, $18,285, by 13th Naval District, Bureau of Yards and Docks, Rear Admiral R. H. Meade, chief of bureau, Public Works Office, room 100, Building 232, U. S. Naval Station, Seattle, for automatic heating control for 13 buildings at U. S. Naval Station, Seattle; NOy-90556; Spec. No. 49235. GW 5-15. Previous report 5-1

★SWIMMING POOL ALTERATIONS— Seattle, Wash.

Award to L. G. Massart Plumbing and Heating Co., 4501 9th Ave. N.W., Seattle, $3,458, by 13th Naval District, Bureau of Yards and Docks, Rear Admiral R. H. Meade, chief of Bureau, Public Works Office, room 100, Building 232, U. S. Naval Station, Seattle, for renovation of mechanical installation for swimming pool, building No. 269, U. S. Naval Station, Seattle; NBy-1010; Spec. No. 2010/56. GW 5-15. Previous report 5-1

★ELECTRICAL WORK— Seattle, Wash.

Award to Donald W. Close Co., 2921 13th Ave. S.W., Seattle, $7,775, by Alaska Communications System, U. S. Army Signal Corps, A. G. Muttart, contracting officer, 4735 E. Marginal Way, Seattle, for addition of a fourth wire, third phase to Alaska Communication System, communications center on the 5th floor, Federal Office Bldg., Seattle; DA 45-041-sc-56-11. GW 5-15. Previous report 4-26

★MODIFICATION OF HEATING AND VENTILATING SYSTEMS—Seattle, Wash.

Award to University Plumbing and Heating Co., $82,820, by Corps of Engineers, Seattle District, Colonel N. A. Matthias, district engineer, 4735 E. Marginal Way, Seattle, for modification of heating and ventilating systems at Seattle General Depot, Building T-20, at 4735 E. Marginal Way, Seattle; CIVENG-45-108-56-100. GW 5-16. Previous report 5-4

■ SCHOOL— Seattle, Wash.

Planholders announced for the construction of the Jefferson Junior High School at 16th Ave. S., and Columbian Way, Seattle. Bids will be opened 2 p. m., May 22, by Seattle School District No. 1, Frank M. Brock, secretary, 815 4th Ave. N., Seattle. Plans with John W. Maloney, architect, 754 Central Bldg., Seattle. $50 deposit. Three separate contracts, general, mechanical and electrical. Certified check, cashier's check or bid bond 5%.

Additional Planholders—GENERAL: Kuney-Johnson, 1266 Mercer, Seattle. ELECTRICAL: Holert Electric Co., 2300 W. Spokane, Seattle; Faddens Electric Co., 7902 9th Ave. S.W., Seattle; Beckstrom's Electric Co., 14058 Bothell Way, Seattle. GW 5-16. Previous report 5-9

▲ SCHOOL ADDITION— Seattle, Wash.

Bids received May 15 by Shoreline District No. 412, King County, Dr. Ray W. Howard, superintendent, Administration Bldg., E. 158th and 20th Ave. N.E., Seattle, for construction of an addition to the Paramount Park Elementary School at E. 155th and 10th Ave. N.E., Seattle. Plans by Peterson

For Permanent Insulation that Saves TWO Ways

-- Specify New REFLECTIVE Kimsul

The only insulation which gives both heat-barrier and vapor-barrier savings is the new reflective type Kimsul. Kimsul's aluminum foil backing stops heat loss. Kimsul is a permanent, fire-resistant installation, applied easily and at low cost to walls, floors, attics. Prefabricated in standard sizes, will not sift or settle.

PIONEER SAND & GRAVEL CO.

901 FAIRVIEW AVE. N. • 910 W. SPOKANE ST. • SEATTLE • MAin 2900

& Adams, architects, 1905 Smith Tower, Seattle. LOW BIDS: Dahlgren Construction Co., 1700 21st Ave. S., Seattle, $43,762; H. E. Forsman, 3833 Stone Way, Seattle, $45,831; W. G. Clark Co., 408 Aurora, Seattle, $46,269. It is anticipated that the contract will be awarded May 21.
GW 5-16. Previous report 5-10

● CHURCH— Seattle, Wash.

Bids will be opened 8 p.m., May 31, by Broadview Lutheran Church, Jack Thornton, chairman, 132nd and Greenwood, Seattle, for construction of new church and social hall at above address. Plans with Steinhart, Theriault & Anderson, architects, 404 Medical Arts Bldg., Seattle. Select list of bidders.

One-story; basement; wood frame; steel (main floor), glued laminated (first floor) beams; 3"x6" decking covered by shake roof; stained glass on east and west walls, chancel wall stone, redwood on north and south walls; plaster walls and ceilings; exposed concrete floors; wood slab doors; oil fired hot water radiant heating system, unit ventilators in slab.
GW 5-16

★MUSIC BUILDING— Snohomish, Wash.

Awards announced by School District No. 200, George A. Moore, superintendent, 5th and D Streets, Snohomish, for construction of a music building for the high school at the above address. Plans by James Klontz & Associates, architects, 784 Dexter Horton Bldg., Seattle. AWARDS—GENERAL: A. W. Robertson, 8233 Overlake Drive, Bellevue, $80,829. MECHANICAL: Haskell Plumbing & Heating, 3014 Wetmore, Everett, $18,595. ELECTRICAL: Rogers Electric Co., 2805 Hoyt, Everett, $7,722.
SP 5-11. Previous report 4-26

SCHOOL— Spokane, Wash.
(Estimated cost $450,000)

Bond election will be held June 5 by Moran School District No. 37, Route 3, Spokane, for $28,350 bond issue to finance the district's share of construction of the high school in Freeman School District No. 358, Valleyford. Building will include 10 classrooms, multi-purpose unit, vocational agriculture shop.
SC 5-5

★POST OFFICE, COURT HOUSE ALTERATIONS— Spokane, Wash.

Award to Beaver Construction Co., N. 2619 Hamilton, Spokane, $1,458, by General Services Administration, room 126, Federal Office Bldg., 909 1st Ave., Seattle, for alterations to rooms 338 and 340 at U. S. Post Office and Courthouse, Spokane; Project No. CR-10-407.
GW 5-12. Previous report 4-27

●■ SERVICE STATION— Spokane, Wash.
(Estimated cost $20,000)

Bids will be opened 2 p.m., May 21, by True's Oil Co., N. 717 Hamilton St., Spokane, for construction of a 6-pump service station at Hamilton St. and Ermena Ave. in Spokane. Plans with Wattern Cummings Heylman, architect, room 422, American Legion Bldg., Spokane. $25 deposit.

One-story; 24'x40'; block walls; concrete slab floors; built-up roof; frame partitions; wood windows; drywall ceilings; wood doors; painted exterior, block interior doors.

Planholders: AAA Construction Co., N. 739 Helena St.; Sceva Construction Co., Inc., N. 2928 Madelia St.; Smith & Roberts Co., Box 6086; Barlow Construction Co., N. 415 Bowdish Road; Purvis Construction Co., E. 5019 Sprague Ave.; Anton J. Popp Construction Co., W. 205 29th Ave. All of Spokane.
CE 5-12

● SCHOOL ADDITION— Spokane, Wash.

Bids will be received until 5 p.m., in the the office of the architect, F. A. Long, 500 Columbia Bldg., Spokane, and will be opened at 8 p.m., May 29, by Otis Orchards School District No. 348 in the Otis Orchards Primary School, Spokane, for construction of an addition to the Otis Orchards Elementary School. Plans with architect. $25 deposit. Certified check, cashier's check or bid bond 5%. Separate bids on general, mechanical, electrical. Six-classroom addition to rear and left of existing building, a multipurpose addition to rear and right.
CE 5-12

●■ CHURCH— Spokane, Wash.
(Estimated cost $35,000)

Bids will be opened 3 p.m., May 24, by the architect for Community Lutheran Church, Rev. H. A. Johnson, pastor, for construction of a church on Driscoll Blvd. and Rowan Ave., in Spokane. Plans with Eddy, Carlson & James, architects, N. 1205 Washington St., Spokane. $25 deposit. Bid bond 5%.

One-story; reinforced concrete footings and foundation; solid masonry brick walls; concrete floors; glued laminated roof arches; blanket type aluminum foil insulation in walls and ceilings; gas fired hot water radiant floor heat.

Planholders: Hefte Construction Co., E. 11607 Trent Ave.; Sceva Construction Co., Inc., N. 2928 Madelia St.; Hazen & Clark, Inc., W. 108 Boone Ave.; Gil Bauer, 3924 17th Ave.; Selkirk Co., E. 601 Trent Ave. All of Spokane. CE 5-12. Previous report 4-25

★RECTORY— Spokane, Wash.

Award to AAA Construction Co., N. 739 Helena, Spokane, approximately $183,835, by Spokane Diocese, 317 S. Howard St., Spokane, for construction of a rectory at St. Aloysius Catholic Church, Boone Ave. and Astor St., Spokane. Plans by Culler, Gale, Martell & Norrie, architects, Realty Bldg., Spokane. CE 5-15. Previous report 3-29

DEPARTMENT STORE ADDITION— Spokane, Wash.

General contract will be negotiated soon by Allied Stores, Inc., Spokane, for construction of an addition with basement and for interior alterations to the Bon Marche store in Spokane. Plans by John Graham & Co., architects, 1426 5th Ave. Bldg., Seattle. Sub-bids will be called in June and summer construction is planned.
CE 5-16. Previous report 2-17

★WAREHOUSE— Spokane, Wash.

Award to Busboom & Rauh, N. 601 Cedar, Spokane, amount not disclosed, by Zellerbach Paper Co., W. 519 Railroad, Spokane, for construction of a one-story concrete warehouse at Freya and Ferry streets, Spokane. Zellerbach's district engineer, B. Beuter, 534 Battery St., San Francisco, Calif., will be in charge of construction.
CE 5-16. Previous report 5-9

CHURCH— Spokane, Wash.
(Estimated cost $35,000)

Bids being received on general contract by Eddy, Carlson & James, architects, N. 1205 Washington St., Spokane, for construction of the new Hamblen Park United Presbyterian Church in Spokane for United Presbyterian Church, 209 9th St., Pittsburgh, Pa. Contract to be negotiated soon.

One-story; no basement; reinforced concrete foundation; Washington Brick and Lime "Titan" brick walls; concrete slab floors; frame partitions; glued laminated arches; wood sash; some cathedral glass; asbestos vinyl tile floors; acoustical tile ceilings; gas fired hot water radiant heat.
CE 5-16. Previous report 3-20

COUNTY-CITY BUILDING— Tacoma, Wash.

Plans will be completed May 29 by Gordon A. Lumm, architect., 321 S. 11th Ave., Tacoma, for the County-City Building in Tacoma. Bids will be called late in May by Pierce County Commissioners, Courthouse, Tacoma. Plans are revised to eliminate the law enforcement wing and health department floors.
GW 5-11. Previous report 2-7

★DEPARTMENT STORE— Tacoma, Wash.

Award to Quality Builders, Box 15-3, Tacoma, $359,000, by Norman L. Iverson, owner of the Bankers Trust Bldg., for an addition to the People's Department Store in Tacoma. Plans by Robert Billsbrough Price, architect, 2901 A St., Tacoma.
GW 5-11. Previous report 3-14

★BUILDING ALTERATIONS— Tacoma, Wash.

Award to R. G. Foster, 11725 Pacific Highway, S. Tacoma, $14,570, by 13th Naval District, Bureau of Yards and Docks, Rear Admiral R. H. Meads, chief of Bureau, Public Works Office, room 100, building 232, U. S. Naval Station Seattle, for alterations to building No. 319, U. S. Naval Station, Tacoma; NBy 2003; Spec. No. 2003/56.
GW 5-15. Previous report 5-1

★BANK— Vancouver, Wash.

Awards revised to exercise alternates for electric heating for First Independent Bank, E. W. Firstenburg, president, Highway 99-N, Vancouver, for new bank building at Fourth Plain Ave. and Laurel Place, Vancouver. REVISED AWARDS—GENERAL: L. F. Raley, 5707 Evergreen Highway, $36,649. MECHANICAL: Manor Plumbing, R.F.D. 1, $3,089. ELECTRICAL: MacPherson Electric Co., 3915 T St., $6,366. All of Vancouver.
WB 5-15. Previous report 5-1

SCHOOL CONSTRUCTION— Vancouver, Wash.

Bond election for $1,225,000 approved for Vancouver School District No. 37, Clark County, L. C. Matson, business manager-secretary, 2223 Kaufman St., Vancouver, to aid in the following school construction: New Clark Junior College on former Vancouver Barracks property (McCoy & Bradbury, 7007 Highway 99-N, Vancouver, have prepared preliminary plans); addition to Peter Ogden Elementary School; renovations to Fort Vancouver High School, 26th and Main Sts.; possible construction of a new grade school; various improvements to existing school grounds.
WB 5-12. Previous report 3-27

★SCHOOL ADDITION— Vancouver, Wash.

Award to only bidder, Larry O. Collins, Inc., 7017 N. Pacific Highway, Vancouver, $72,950, by School District No. 81, Clark County, Orville Hammond, clerk, 6115 N.E. Jaggy Road, Vancouver, for Walnut Grove School, on Jaggy Road. Plans by McCoy and Bradbury, architects, 7007 Highway 99-N, aVncouver. Collins' basic bid was $74,300. Bids were opened May 10.
WB 5-16. Previous report 4-28

● IMPLEMENT SHED— Vancouver, Wash.

Bids to be opened 1:30 p.m., May 28, by city purchasing agent, Robert Moisant, 712 Washington St., Vancouver, for implement shed at city shops. $10 deposit. Bid bond 5%.
WB 5-16

● STUDENT UNION BUILDING— Yakima, Wash.
(Estimated cost $50,000)

Bids will be opened 7:30 p.m., May 29, by Yakima Valley Junior College, School District No. 7, Milton Martin, superintendent, Yakima, for construction of a student union building at S. 16th Ave. in Yakima. Plans with Maloney & Whitney, architects, Larson Bldg., Yakima.

One-story; 5,075 sq. ft. area; concrete footings and foundation; poured concrete walls; concrete slab floors; concrete girders, beams, columns; hyperbolic paraboloid poured concrete roof; masonry, frame partitions; steel windows; floor-to-ceiling window walls with plastic sandwich panels; pre-finished hardboard drywall partitions; ceramic tile, concrete floor finish; concrete ceilings; hollow metal exterior, wood interior doors; finned pipe radiation heating system, existing boiler plant; ventilating system.
IG 5-11

IDAHO

★SPERT AREA ADDITIONS— Idaho Falls, Idaho

Award to Wadsworth Construction Co., 255 Broadway, Idaho Falls, $124,600, by Atomic Energy Commission, Idaho Operations Office, Box 1221, Idaho Falls, on construction of additions to SPERT area control building at the National Reactor Testing Station, Idaho; Inv. No. AT(10-1)-819.
SP 5-11. Previous report 5-8

▲ROOFING— Idaho Falls, Idaho

Bids received by U.S. Atomic Energy Commission, Idaho Operations Office, Box 1221, Idaho Falls, for replacement of roof-

ing on six buildings in the MTR area at the National Reactor Testing Station at Idaho Falls: Inv. No. AT(10-1)-824. LOW BIDS: Idaho Falls Roofing Co., 197 Lomac, Idaho Falls, $15,865; Rocky Mountain Roofing Co., 708 S. 2nd Ave., Pocatello, $20,459; Deming Roofing & Insulation Co., 1319 W. Nickerson St., Seattle, Wash., $22,557. Bids opened May 9. SP 5-15. Previous report 4-28

SCHOOLS— Meridian, Idaho

Voters in Ada County Class A School District No. 2 rejected a bond issue of $1,450,000 for new school buildings in the district. Funds would have been used for a new high school and adequate grade school facilities throughout the county.
DC 5-15. Previous report 4-6

★SCHOOL— Nampa, Idaho

Award to G & M Construction Co., Box 1276, Boise, $123,990, by Class A School District No. 131, Nampa, for construction of additional classroom unit at the high school site in Nampa. Plans by Anton E. Dropping, architect, 2504 Kootenai Ave., Boise.
SC 5-11. Previous report 5-8

▲SCHOOL ADDITION— Pocatello, Idaho

Bids received by Pocatello School Board, Gerald R. Wallace, Pocatello, for an addition and alterations to Franklin Junior High School. Following are low base bids: Erhardt Andersen Construction Co., 167 Foothill Blvd., Pocatello, $111,400; Hershberger Co., Pocatello, $111,985; C. H. Elle Construction Co., 390 Yellowstone, Pocatello, $112,813.
DC 5-11

★JUNIOR HIGH SCHOOL—Pocatello, Idaho

Contract was awarded to C. H. Elle Construction Co., 390 Yellowstone Ave., Pocatello, $785,831, by the Pocatello School Board, on construction of the Hawthorne Junior High School. Elle's original base bid of $839,000 was pared $55,169 by eliminating some items and substituting others. The main item substituted was asphalt tile in place of maple floors, saving $30,000. Other base bids were as follows: Brennan Construction Co., 718 S. 2nd, Pocatello, $875,000; W. R. Cahoon Construction Co., 3208 Pole Line Road, Pocatello, $188,000. DC 5-11

SCHOOL ADDITIONS, ALTERATIONS— Potlatch, Idaho

Bond issue approved by voters in Potlatch School District, J. Lowell Scott, superintendent, Potlatch, for school construction in Potlatch. Funds will provide for: six additional classrooms to elementary school; improvement of seating and acoustical effects in high school gymnasium; modernizing of science classrooms; construction of sidewalks and playground. MH 5-16

★ELECTRICAL EQUIPMENT, LIGHTING— Twin Falls, Idaho

Award to Shotwells Utility Co., 152 2nd Ave. N., Twin Falls, $27,954, by Idaho Independent Class A School District No. 411, Ernest G. Ragland, superintendent, 511 Shoshone N., Twin Falls, for electrical and lighting equipment in remodeling a portion of Twin Falls Junior High School. Plans by Cecil Jones & Eugene Brierholt, architects, 131 2nd St. W., Twin Falls.
FJ 5-11. Previous report 5-8

MONTANA

▲MEN'S DORMITORY— Billings, Mont.

Bids received by State Board of Education, Capitol Bldg., Helena, for construction of a men's dormitory on the campus of Eastern Montana College of Education in Billings. Plans by Cushing, Terrell & Associates, architects, 1333 Airport Road, Billings. LOW BIDS—GENERAL: Lowe Construction Co., 2325 9th Ave. N., Billings, $226,800; H. Halvorson, Inc., Box 6, Yardley, $239,202; Haggerty-Messmer, Bozeman, $244,000. MECHANICAL: Midland Construction Co., Plumbing & Heating Co., 425 N. 19th Ave., $55,789; Christensen Plumbing & Heating, 3615 Montana Ave., $57,775; Frisby Plumbing & Heating, 208 Grand Ave., $61,400. ELECTRICAL: Empire Electric, 2412 4th Ave., $16,258; Curley-Naylor Electric Co., 123 N. 16th St., $16,373; Dahlstrom Electric, 223 N. 15th St. All of Billings unless otherwise noted. Bids opened May 10.
LS 5-12. Previous report 5-2

★SCHOOL ADDITION— Billings, Mont.

Award announced by Yellowstone County School District No. 2, superintendent, 3201 4th Ave. N., Billings, for construction of a multipurpose room addition to North Park School, 615 N. 19th, Billings. Plans by Gene E. Trotter, architect, 219½ N. Broadway, Billings. AWARD: Cop Construction Co., 617 Central Ave., $58,717. 2ND LOW: Pogue Construction Co., 1715 2nd Ave. N., $63,900. 3RD LOW: Hardy Construction Co., 420 N. 25th St., $65,810. All of Billings. Bids opened May 10.
EE 5-15. Previous report 5-2

★SCHOOL ADDITIONS— Billings, Mont.

Awards announced by Yellowstone County School District No. 2, superintendentt, 3201 4th Ave. N., Billings, for an addition to Orchard School, 120 Jackson St., Billings. Plans by Chandler C. Cohagen, architect, Hedden Bldg., Billings. GENERAL—AWARD: Frates Construction Co., 424 Rimrock Road, $127,370. 2ND LOW: Hitz Construction Co., 2111 4th Ave. N., $128,840. 3RD LOW: Wells Bros. Construction Co., 704 Dunham Ave., $133,140. MECHANICAL—AWARD: Wagner Plumbing & Heating, 1043 Miles Ave., $9,817. 2ND LOW: Midland Plumbing & Heating, 425 N. 19th, $10,831. 3RD LOW: Biegel Plumbing & Heating, 1119 Miles Ave., $10,880. HEATING—AWARD: Christensen Plumbing & Heating, 3615 Montana Ave., $12,000. 2ND LOW: Dusapin Heating, 635 Central Ave., $14,721. 3RD LOW: Empire Heating & Cool-



ROOF TRUSSES-Give Ring a Ring

Cover the overhead with custom cut "BOWSTRING" or "A" type TRUSSES for stores, warehouses, commercial, farm and utility buildings.

SHOW US THE WALLS—WE'LL COVER THE ROOF . . . OR YOU CAN!

RING & PITTS CLEAR SPAN ROOF TRUSSES

N. 2607 MONROE, SPOKANE 17, WASH. EMpire 4465

COMFORT with ECONOMY in PORTLAND OREGON

Portland's fine home-like hotel in the center of the city—Unsurpassed service and fine cuisine makes your visit one of happiness and comfort.

Campbell Court Hotel

ELEVENTH AND MAIN STREETS

Our rates are especially reasonable. All rooms with private bath. Singles from $3.50. Doubles from $4.50

Porcelain ENAMEL... for the building industry

A Church Steeple exemplifies the part PORCELAIN ENAMEL is accomplishing in modern architecture . . . enduring the ravages of time and weather . . . maintaining everlasting attractiveness.



Temple Methodist Church, San Francisco
Architect: Alfred W. Johnson
Contractor: Morris Daley

Write for detailed information, TODAY!

ARCHITECTURAL DIVISION

PORCELAIN ENAMEL PUBLICITY BUREAU

P. O. BOX 186 • EAST PASADENA STATION • PASADENA 8, CALIFORNIA

1444 WEBSTER STREET • ROOM 4 • OAKLAND 12, CALIFORNIA

ing, 1309 Division St., $16,892. ELECTRICAL—AWARD: Billings Electric Supply Co., 214 N. 25th St., $12,323. 2ND LOW: Yellowstone Electric, 520 N. 32nd St., $12,722. 3RD LOW: Empire Electric, 2412 4th Ave. N., $12,835. All bidders of Billings. Bids opened May 10. EE 5-15. Previous report 5-2

★**DISTRIBUTION CENTER— Butte, Mont.**
(Estimated cost $2,000,000)

Award to Naranche & Konda, contractors, 2801 S. Montana Ave., Butte, by Safeway Stores, Inc., C. A. Bradburn, division manager, Mayer Bldg., Butte, for construction of a distribution center on land west of Harrison Ave. and east of Timber Butte, in Butte. Plans by J. Hamill & Associates, architects, 122 W. Granite St., Butte.

Plans include construction of grocery (123,000 sq. ft. area), meat (21,000 sq. ft.), and perishable goods (52,000 sq. ft.) warehouses; repair shop; enclosed trucking equipment area including loading zone; fenced parking facilities for 125 automobiles.

SC 5-16. Previous report 4-26

★**ARMORY— Glendive, Mont.**

Award announced by State Board of Examiners, State Capitol Bldg., Helena, for construction of an armory in Glendive. Plans by Carlo DiCicco, architect, 117½ N. Merrill Ave., Glendive. AWARD: Sterhan Construction Co., 800 N. Merrill, Glendive, $59,224. 2ND LOW: Midland Construction Co., Box 608, Miles City, $64,360. 3RD LOW: Rockne & Son, Box 396, Glendive, $70,133. Bids opened May 10.

LS 5-12. Previous report 5-4

●**LAMPS— Great Falls, Mont.**

Bids will be opened 10 a. m., May 21, A. M. Johnson, state controller, State Purchasing Department, Capitol Bldg., Helena, for furnishing and delivery fob. Cascade County Yard, Great Falls, incandescent and fluorescent lamps for all institutions and departments of State of Montana for the fiscal period ending June 30, 1957. Specifications with above office. SC 5-12

▲**SUNDAY SCHOOL ADDITION— Great Falls, Mont.**

Bids received by West Side Methodist Church, Rev. J. H. Ristow, pastor, 726 Central Ave. W., Great Falls, for construction of a Sunday School addition to the existing church. Plans by Holland & Lund, architects, 306 Electric Bldg., Great Falls. LOW BIDS—GENERAL: J. Jones Construction Co., $42,877; Yarno Construction Co., $47,444; Witty Construction Co., 815 25th N., $47,500. MECHANICAL: Central Plumbing & Heating, 923 Central Ave. W., $7,968; Hodges & Son, 1704 8th Ave. N., $9,670; Tynes Plumbing & Heating Co., 800 3rd Ave. S.W., $9,863. ELECTRICAL: Palmquist Electric Co., 1607 Central Ave., $4,953; Cascade Electric Co., 903 10th Ave. N., $5,350. All of Great Falls. Bids opened May 8.

SP 5-15. Previous report 5-4

●**ADMINISTRATION BUILDING ADDITIONS, ALTERATIONS—Great Falls, Mont.**

Bids will be opened 5 p. m., May 21, by City Council, Fred L. Hill, clerk, Civic Center, Great Falls, for construction of additions and alterations to north and south wings and lounge in the Administration Bldg. at Municipal Airport in Great Falls. Plans with McIver, Hess & Haugsjaa, architects, 603 Strain Bldg., Great Falls. $25 deposit. SC 5-15

●**DORMITORIES— Havre, Mont.**

Bids rejected by Montana State Board of Education, Mary M. Condon, secretary, State Capitol Bldg., Helena, for construction of men's dormitories at Northern Montana College in Havre. Plans by Cushing & Terrell, architects, 1333 N. 27th St., Billings. Bids were opened May 10.

LS 5-15. Previous report 5-4

●**BUILDING ALTERATIONS— Helena, Mont.**

Bids will be opened 3 p. m., May 29, by General Services Administration, W. W. Southworth, chief of Construction and Repair Division, room 126, Federal Office Bldg., 909 1st Ave., Seattle, for alterations to room 301,302, room 410-412 and 424 Federal Office Bldg., Park and Lawrence Avenues, Helena; Project No. CP-10-438. Plans with General Services Administration, at above address.

GW 5-11

★**HEADQUARTERS BUILDING— Lodge Grass, Mont.**

Award to Frates Construction Co., 424 Rimrock Road, Billings, $87,738, by Big Horn County Electrical Cooperation, REA, Lodge Grass, for a headquarters building. Plans by Walter Kuetzing, architect, 316 Hart Albin Bldg., Billings.

EE 5-16. Previous report 4-27

▲**ARMORY— Miles City, Mont.**

Bids received by State Board of Examiners, State Capitol Bldg., Helena, for construction of an armory at Miles City. Plans by Carlo DiCicco, architect, 117½ N. Merrill Ave., Glendife. LOW BIDS: Sterhan Construction Co., 800 N. Merrill Ave., Glendive, $62,600; Midland Construction Co., Box 608, Miles City, $63,580. Bids opened May 10.

LS 5-12. Previous report 5-4

★**TELEPHONE OFFICE—Miles City, Mont.**

Awards announced by Mountain State Telephone & Telegraph Co. of Denver, H. J. Strelesky, Montana Equipment & Building Engineer, Miles City, for construction of a telephone exchange building in Miles City. Plans by Morrison & Maierle, Inc., architects, 910 Helena Ave., Helena. AWARDS—GENERAL: Sterhan Construction Co., Box 1247, Glendive, $291,000. MECHANICAL: Regan Plumbing & Heating Co., 11 S. 9th, Miles City (no amount given). ELECTRICAL: Miles City Electric Co., 102 S. 6th, Miles City (no amount given).

LS 5-16. Previous report 5-11

▲**ELEVATOR— Missoula, Mont.**

Bids received by Board of County Commissioners, Joe Brown, county clerk, City Hall, Hall, Missoula, for construction of an elevator in the courthouse at Missoula. Two bids submitted by each bidder. LOW BIDS: Petersen Construction Co., Box 992, Missoula, $27,619 (bid 1), $28,689 (bid 2); Gordon Construction Co., Box 319, Missoula, $28,800 (bid 1), $30,000 (bid 2). Bids opened May 7.

SP 5-12. Preivous report 4-21

▲**ARMORY— Sidney, Mont.**

Bids received by State Board of Examiners, State Capitol Bldg., Helena, for construction of an armory located west of town near county fairgrounds, Sidney. Plans by Carlo DiCicco, architect, 117½ N. Merrill Ave., Glendive. LOW BIDS: Sterhan Construction Co., 800 N. Merrill, Glendive, $61,300; B. D. Ness Construction Co., Sidney, $65,519; Midland Construction Co., Box 608, Miles City, $66,752. Bids were opened May 10. LS 5-12. Previous report 5-4

WYOMING

★**STOCK BARN— Riverton, Wyo.**

Award to B. A. Polf and W. A. Jarvis, Riverton, $13,666, by Fremont County Fair Board, S. W. Samuelson, president, County Agent's Office, Box 887, Riverton, for construction of a steel stock barn in Riverton. Bids opened May 3.

SP 5-16. Previous report 4-28

★**ARMORY— Riverton, Wyo.**

Award to Peter J. Barton, Riverton, $179,404, by E. C. Rothwell, state purchasing agent, State Capitol Bldg., Cheyenne, for construction of an armory in Riverton. Plans by Everett E. Shores, architect, 1204 W. 31st, Cheyenne.

LY 5-16. Previous report 5-9

★**SCHOOL ALTERATIONS—Sheridan, Wyo.**

Award to Charles Johnson, Contractor, 1450 Val Vista St., Sheridan, $22,107, by School District No. 7, Board of Trustees, Karl D. Bell, superintendent, Coffeen Administration Bldg., Sheridan, for alterations to Coffeen School, Coffeen Ave., in Sheridan. Plans by Harrison L. Cook & Associates, architects, 119 N. Main St., Sheridan.

LY 5-16. Previous report 5-1

UTAH

★**SCHOOL— Bicknell, Utah**

Award to Tolboe Consrtuction Co., Box 7, Provo, $212,000, by Wayne County School District, Mrs. Hattie Baker, clerk, Bicknell, for additions and remodeling of the Wayne County High School in Bicknell. Plans by Robert L. Springmeyer, architect, 617 Zions Savings Bank Bldg., Salt Lake City. Bids opened April 26.

GH 5-11. Previous report 4-1

●**SHOP BUILDING— Cedar City, Utah**

Bids will be opened 2 p. m., May 22, by Utah State Building Board, Jerry G. King, superintendent of construction, 419 State Capitol Bldg., Salt Lake City, for construction of a shop building at the College of Southern Utah in Cedar City. Plans with L. Robert Gardiner, architect, Cedar City. $25 deposit. Bid bond 5%. GH 5-11

★**SCHOOL— Clearfield, Utah**

Award to Fredrickson Builders Supply Co., 4670 Redwood Road, Salt Lake City, $115,759, by Davis County Board of Education, Samuel Morgan, superintendent, Farmington, for construction of an addition to North Davis Junior High School in Clearfield. Plans by Ashton, Evans & Brazier, architects, 24 S.W. Temple, Salt Lake City.

GH 5-11. Previous report 4-13

★**HEATING SYSTEM— Hill AFB., Utah**

Award to B. W. Thorpe, Box 91, Ogden, $10,961, by Ogden Air Material Area, Hill AFB., Utah, for replacing heating systems in southwest and northeast annexes of building 225, Airplane Repair Unit at Hill AFB.; IFB 42-600-314. GH 5-15. Previous report 4-13

▲**FIRE STATION— Kearns, Utah**

Bids received by Salt Lake County Commissioners, City-Council Bldg., Salt Lake City, for construction of a new fire hall in Kearns. Plans by Scott & Beecher, architects and engineers, 617 Dooly Bldg., Salt Lake City. LOW BIDS: Tri West Construction Co., 170 E. Vidas Ave., $19,416; Continental Construction Co., 452 E. 3600 South, $19,673; A. W. Curtis & Sons, 1582 Orchard Drive, $22,412. All of Salt Lake City. Bids opened May 9. GH 5-15. Previous report 5-4

★**ELEMENTARY SCHOOL— Layton, Utah**

Award to G. Maurice Romney, 424 S. 7th East, Salt Lake City, $166,032, by Davis County School District, Samuel Morgan, superintendent, Farmington. Plans by Ashton, Evans & Brazier, architects, 24 S.W. Temple Salt Lake City.

GH 5-11. Previous report 4-13

▲**TEACHER TRAINING BUILDING— Logan, Utah**

Bids received by Utah State Building Board, 419 State Capitol Bldg., Salt Lake City, for construction of a teacher training building for Utah Agricultural College in Logan. Plans by Paul K. Evans, architect, 237 E. 3rd South, Salt Lake City. LOW BIDS: Ernest Stettler & Sons, 672 E. 9th North, $341,600; Newell J. Olsen & Sons, 128 S. 1st East, $349,990; Ace S. Raymond, 1022 N. Main St., $367,000. All of Logan. Bids opened May 9. GH 5-15. Previous report 4-28

■**HOSPITAL ADDITION— Price, Utah**

Planholders announced for construction of a 50-bed addition to Price city and county hospital. Bids will be opened 2 p. m., May 24, by Utah State Building Board, J. G. King, superintendent of construction, 419 State Capitol Bldg., Salt Lake City. Plans with Fetzer & Fetzer, architects, 415 Zions Savings Bank Bldg., Salt Lake City.

Planholders: Mountain States Construction Co., 36 E. 4th South, Bountiful; Dorland Construction Co., 1309 Jefferson St.; Gartf, Ryberg & Garff, 850 W. 15th North; Plewe Construction Co., 838 E. S. Temple; Quinney

& Winburn Construction Co., 1474 S. 6th West; Alfred Brown Construction Co., 627 Dooly Bldg.; K. S. Witt Construction Co., Box 101, Provo; Ralph R. Child, 1200 E. 4th South, Springville; Jensen Construction Co., 548 W. 2nd North; Christiansen Bros. Construction Co., 209 W. 13th South; C. H. Elle Construction Co., Box 119, Pocatello. All of Salt Lake City unless otherwise noted. GH 5-16. Previous report 4-27

●HIGH SCHOOL— Salt Lake City Utah

Bids will be opened 3:30 p. m., May 29, by Salt Lake City Board of Education, Robert L. Bridge, clerk, 440 E. 1st South, Salt Lake City, for construction of second stage of the Highland High School, 21st S. and 17th E., Salt Lake City. Plans with Lorenzo S. Young and Arnold H. Ehlers, architects, 826 Continental Bank Bldg., Salt Lake City. Bids on general, mechanical and electrical contracts. GH 5-11

●REMODEL BANK BUILDING— Salt Lake City, Utah

Bids will be opened 2 p. m., May 22, by architects for Walker Bank Building, Main and 2nd S., Salt Lake City, for remodeling of banking floor and all of 2nd floor of existing bank building in Salt Lake City. Plans with Ashton, Evans & Brazier, architects, 24 S. W. Temple, Salt Lake City.

Exterior will remain the same; concrete slab floors; wood stud partitions; metal stairways; aluminum windows; walnut wood wall finish; plaster and wood lath partitions; marble floor finish; luminous ceilings; metal exterior doors; wood interior; new counters of marble; forced air heating system, coal fuel. GH 5-11. Previous report 1-13

▲LABORATORY, KENNEL ADDITION— Salt Lake City, Utah

Bids received by Utah State Building Board, 419 Capitol Bldg., Salt Lake City, for construction of an addition to the radiobiology laboratory and dog kennels for the U. S. Atomic Energy Commission on upper campus, University of Utah, Salt Lake City. Plans by Robert Springmeyer, architect, Zion Savings Bank Bldg., Salt Lake City. LOW BIDS—PROPOSAL 1 (dog kennels and laboratory addition): Plewe Construction Co., 838 E. S. Temple, $79,980; Security Construction Co., 5875 Holladay Blvd., $121,000; R. K. McCullough, 676 "G" St., $131,300. PROPOSAL 2 (laboratory addition only): Security Construction Co., $57,596; Plewe Construction Co., $62,900; R. K. McCullough, $66,000. PROPOSAL 3 (dog kennels only): Finn B. Paulsen, 3181 S. 1940 East, $61,400; Chytraus Bros. Co., 2040 Redondo Ave., $61,800; Maurice B. McCulluogh, 503 13th Ave., $62,783. All of Salt Lake City. Bids opened May 8. GH 5-15. Previous report 4-19

●LAUNDRY BUILDING REMODELING— Salt Lake City, Utah

Bids will be opened 10:30 a. m., June 1, by Salt Lake County Commissioners, Lamont B. Gunderson, chairman, Courthouse, Salt Lake City, for remodeling of the laundry building at Salt Lake County General Hospital, 2033 S. State St., Salt Lake City. Plans with above office. Bid bond 5%. GH 5-16

★OFFICE BUILDING—Salt Lake City, Utah

Award to Atlas Construction Co., 1841 E. 9th South, Salt Lake City, $107,598, by Utah State Building Board, J. G. King, superintendent of construction, 419 Capitol Bldg., Salt Lake City, for construction of an office building at S. Main and Louise Ave., for Welfare Dept., Salt Lake City. Plans by Bruce & McDermott, architects, room 105, 366 S. 5th West, Salt Lake City.
GH 5-16. Previous report 5-10

★COLLEGE BUILDING— St. George, Utah

Award to Witt Construction Co., Box 101, Provo, $587,000, by Utah State Building Board, J. G. King, superintendent of construction, 419 State Capitol Bldg., Salt Lake City, for construction of new buildings at Dixie College, St. George. Plans by Lorenzo S. Poung, architect, Continental Bank Bldg., Salt Lake City. GH 5-11. Previous report 3-31

ALASKA

■MILITARY BUILDING— Alaska

Planholders announced for the construction of military buildings at Eielson AFB., Ladd AFB.; Haines; British Columbia, Yukon Territory and Tok Junction; ENG-45-507-56-40. Bids to be opened 11 a. m., P.S.T., May 22, by Corps of Engineers, Alaska District, in the Seattle Branch offices, J. P. Byrne, manager, 4735 E. Marginal Way, Seattle. Bid bond 20%. Plans available from Seattle district office at above address.

Planholders: W. L. Reid Co., 3178 W. 87th, Portland; W. R. Grasle Co., 311 California St., San Francisco; Holoday & Edworthy, Inc., 6240 S. Tacoma Way, Tacoma; Urban, Inc., 103 S. 28th, Tacoma; Chas. A. Langlais & Son, Inc., 474 Bryant St., San Francisco; Dorrington's Contractors-Engineers, 4150 Fox St., Denver, Colo.; Holert Electric Co., 2300 W. Spokane St., Seattle; Lent's, Inc., 279 4th St., Bremerton; Pacific Construction Co., 213 East Reserve, Vancouver; Century Metal Works, 7126 W. Marginal Way, Seattle; H. D. Fowler Co., Inc., 901 Lane, Seattle; Urban Plumbing and Heating Co., 2904 S.W. 1st Ave., Portland; Isaacson Iron Works, Box 3625, Seattle; Independent Iron Works, Inc., 8th and Pine, Oakland, Calif.; Maxwell Steel Co., P. O. Drawer 230, Fort Worth, Texas; Atwell, Inc., 36th off Broadway, Everett; Line Material Co., Box 2077, Milwaukee, Wis.; Crane Co., Government Department, 10700 Hanna St., Beltsville, Md.; B-E-C-K, 3647 Stone Way, Seattle.
GW 5-11. Preivous report 4-27

WHITE ALICE FACILITIES— Alaska

Bids will be called soon by Corps of Engineers, Alaska District, district engineers, D-E Bldg., Anchorage, for construction of White Alice Facilities, communications projects at Middleton Island; ENG-95-507-56-53; Sparrevohn, Indian Mountain, Unalakeett, Kodiak, Bethel and Sitkinak, ENG-95-507-56-54. Projects will be advertised for three weeks, but bidders should arrange to view sites, etc., before the time of advertising. Other information may be obtained at the district engineer's office, Anchorage. Plans and specifications of similar (not identical) projects may be examined at the Anchorage or Seattle branch office. Completion about 4 months from date of contract award.

The work at all sites consists of construction of an equipment building of approximately 5,000 sq. ft.; installation of diesel engines and generators; erection of towers and antennae composed of structural steel shapes bolted together, and the erection of a communications cable on a pole line from an existing Air Force Station which is located nearby to the site. The foundations at the site vary. A bench mark will be set for control of all elevation and a base line will be established to control the azimuth sitting of the towers and equipment building. Sparrevohn; in addition to the equipment building will have a dormitory of 5,200 sq. ft. Unalakleet will have a dormitory 4,500 sq. ft., and 10 mi. of road will have to be constructed from the Air Force station to the site before work can be started on the site. This will be done generally by dumping sand and gravel on the tundra and will also have erection of a tower at an Air Force station nearby included in its invitation. Bethel, steel H-piles will be used and steel shapes for the floors, these to be government furnished. GW 5-16

▲SHOP PAINTING— Anchorage, Alaska

Low bids announced for painting Alaska Railroad's heavy equipment and diesel repair shop at Anchorage, by Alaska Railroad, Irvin P. Cook, chief engineer, Anchorage. LOW BIDS: A.B.C. Painting and Decorating Co., Anchorage, $4,460; Warren Painting Co., 213 Cordova Ave., Anchorage, $4,848; Saint Painting Co., $5,386. Bids were opened May 2 and held under advisement.
GW 5-11. Previous report 4-19

★ELKS LODGE— Anchorage, Alaska

Award to J. B. Warrack Co., 400 2nd Ave. W., Seattle, $318,550 (base bid plus $1,650 alternate for automatic pin setters in bowling alley), by B.P.O.E., c/o architect, Edwin B. Crittenden, Box 358, Anchorage.
SP 5-16. Previous report 4-17

★BUILDING REMODELING— Anchorage, Alaska

Award to Schowenwald Construction Co., Barr Road, Box 1115, Spenard, $24,263, by City Council, City Hall, Anchorage, for remodeling the basement of City Hall to provide additional office space. Plans by Manley & Mayer, architects, Loussac-Sogn Bldg., Anchorage.
SC 5-16. Previous report 5-8

●TACTICAL FACILITIES BUILDINGS— Anchorage, Alaska

Bids will be opened 11 a. m., June 14, by Corps of Engineers, Alaska District, in the office of Seattle branch manager, J. P. Byrne, 4735 E. Marginal Way, Seattle, for tactical facilities buildings and outside utilities at various NIKE sites in Alaska; INV No. ENG-95-507-56-55. Plans obtainable from district engineer, D-E Bldg., Anchorage, or Seattle branch office. Bid bond 20%.

Project includes—SCHEDULE A: Site Jig. SCHEDULE B: Site Tare. SCHEDULE: Site Peter. SCHEDULE D: Site Mike. Work at each site will consist of battery control building of 26,600 sq. ft. and modified emergency construction; launcher control building of 7,000 sq. ft.; two launching section structures 10,590 sq. ft., monolith concrete; fueling and fuel storage building, 1,718 sq. ft.; masonry construction, installation of government furnished equipment; development of water services, access roads, outside utilities. Final completion date for all schedules October 1, 1957. GW 5-16

●SCHOOL— Anchorage, Alaska

Bids to be opened 10 a. m., P.S.T., June 13, by Alaska Public Works, John D. Argetsinger, acting director, in the mailroom, 123 W. 3rd St., Juneau, for construction of the 20-classroom Talkeetna Elementary School at Mountain View, Anchorage; Proj. Aaa. 50-A-144. Plans with acting director, Box 1181, Juneau. $25 deposit. Certified check or bid bond 5%.

One-story; 34,000 sq. ft.; 78'x404'; reinforced concrete, steel frame; block walls; concrete slab floors; long span roof deck; brick and concrete wall finish; asphalt tile; aluminum exterior, birch interior doors; wood cabinets; modernfold doors; rigid insulation in roof; steam heating system, coal fired. DM 5-16. Previous report 4-13

●WHITE ALICE FACILITIES— Anchorage, Alaska

Bids will be opened 11 a. m., May 24, by Corps of Engineers, Alaska District, in the Seattle branch office, J. P. Byrne, manager, 4735 E. Marginal Way, Seattle, for con-

Classified Advertising

★

CLASSIFIED RATES

Regular Classified: $6 per column inch.

Classified Display: (Based upon number of insertions during any 12 month period.)

	1 time	6 times	12 times
Per Column Inch:	$9.00	$8.00	$7.00

LOOK

Used Trailers and Boxes Suitable for Offices or Portable Tool Shops

FRUEHAUF TRAILER CO.
16700 S. E. McLoughlin Blvd.
Portland 22, Oregon
Phone: OLive 4-5461

struction of White Alice Facilities at Fort Yukon (Schedule A) and Kotzebue (Schedule B) in Alaska; ENG-95-507-56-52. Plans with Alaska district engineer, D-E Bldg., Anchorage, and with Seattle branch office at above address. Bid bond 20%. The original bid call on this invitation included the following: Tacan facilities at the above sites; White Alice and Tacan facilities at Bethel and Kodiak; Navaid buildings at Fort Yukon, Northway and Bethel. These items have been deleted and will be called at a later date under another invitation number.
GW 5-16. Previous report 5-9

●PAINTING BUILDINGS— **Fairbanks, Alaska**

Bids will be opened 1 p. m., P.S.T., June 1, by Alaska Communication System, U. S. Army Signal Corps, A. C. Muttart, contracting officer, 4735 E. Marginal Way, Seattle, for repainting exterior of 14 Alaska Communication System buildings at Fairbanks; Ref. DA-45-041-sc-56-24. Plans with Alaska Communication system at above address.
GW 5-15

●MULTIPURPOSE BUILDING— **Fairbanks, Alaska**

Bids will be opened 8 p. m., May 24, by Fairbanks School District, Fairbanks, for construction of new multipurpose building addition to Denali Elementary School in Fairbanks. Plans with Alaska Architectural & Engineering Co., architects, 710 3rd Ave., Fairbanks. $25 deposit. Bid bond 2%. Completion time 150 calendar days.

One-story; 6,700 sq. ft.; wood, reinforced concrete frame; glued laminated beams, columns; concrete slab floors; wood partitions and windows; wood, asbestos-plastic, ceramic tile floor finish; acoustical ceilings; air conditioning from central heating plant.
SP 5-16. Previous report 5-2

●MILITARY BUILDINGS— **Fort Richardson, Alaska**

Bid opening extended from May 23 to 11 a. m., P.S.T., June 7, by Corps of Engineers, Alaska District, in the office of the Seattle Branch, J. P. Byrne, manager, 4735 E. Marginal Way, Seattle, for construction of military buildings at Fort Richardson; ENG-95-507-56-37.

Planholders: Isaacson Iron Works, Box 3625, Seattle; Lent's, Inc., 279 4th St., Bremerton; James S. Baker Co., 311 California, San Francisco; Schwabacher Hardware Co., 401 1st Ave. S., Seattle; Acme Millwork Co., Inc., Box 668, Kirkland; Urban Plumbing and Heating Co., 2904 S.W. 1st Ave., Portland, Ore.; Kuney-Johnson Co., 1266 Mercer, Seattle; City Electric of Anchorage, 2921 13th Ave. S.W., Seattle; Durant Insulated Pipe Co., Box 88, Palo Alto, Calif.; W. L. Reid Co., 3178 W. 87th, Portland; Holoday & Edworthy, Inc., 6240 S. Tacoma Way, Tacoma; The Coast Sash and Door Co., 1002 East F St., Tacoma; Northern Enterprises, 12556 Bothell Way, Seattle; Thorgaard Plumbing and Heating Co., 1109 N. 36th, Seattle; Grove, Shepherd, Wilson & Kruge, 120 6th Ave. S., Seattle; Fryer Knowles, 1718 Broadway, Seattle; J. B. Warrack Co., 400 2nd Ave. W., Seattle; Wenzler & Ward, Plumbing and Heating Co., 2109 Western Ave., Seattle; Square D Co., 830 Corwin Place, Seattle.
GW 5-11. Previous report 4-28

▲FACILITIES— **Homer, Alaska**

Low bids announced by Corps of Engineers, Alaska District, district engineer, D-E Bldg., Anchorage, for construction of White Alice and TACAN facilities at Homer; ENG-95-507-56-50. Schedule A: White Alice facilities. Schedule B: Tacan facilities. SCHEDULE A—LOW BID: E. M. Peterson Construction Co., Box 1116, Spenard, $788,900. ONLY OTHER BID: Chris Berg, Inc., 2730 Westlake Ave. N., Seattle, $843,000. Engineer's estimate $684,000. SCHEDULE B—LOW BID: Chris Berg, Inc., $41,000; E. M. Peterson, $57,902. Engineer's estimate, $24,804. Since both figures on Schedule B were so far above the engineer's estimate bids were rejected on this schedule. Bids were opened May 10 and held under advisement.
GW 5-15. Previous report 5-8

●PAINTING BUILDINGS— **Juneau, Alaska**

Bids to be opened 1 p. m., P.S.T., June 11, by Alaska Communication System, A. C. Muttart, contracting officer, U. S. Army Signal Corps, 4735 E. Marginal Way, Seattle, for repainting exterior of Alaska Communication System buildings Nos. 1, 3, and quarters No. 2, at Juneau; DA 45-041-sc-56-23. Plans with contracting officer at above address.
GW 5-11

SCHOOL ADDITION— **Juneau, Alaska**

Bids will be called early in June and opened late in June by Juneau-Douglas Independent School District, Juneau, for construction of a six-classroom addition to the Harborview Grade School, Juneau. Plans by Foss & Olsen, architects, Box 2331, Juneau. Structural engineers are Stevenson & Rubens, Olympic National Bldg., Seattle, Wash.; mechanical engineers, J. Donald Kroeker & Associates, 4504 S.W. Corbett, Portland, Ore.; electrical engineers, Grant Kelley & Co., 1008 S.W. 6th, Portland.

Project involves extension of existing second flor over existing first floor; 68'x 104'; 7,100 sq. ft.; poured concrete walls; steel beams; bar joist on steel frame with wood deck; concrete stairways; steel and insulated glass windows; 2" rock wool insulation in exterior walls. Finish construction involves concrete exterior wall; paint and Marlite interior; drywall partitions; asphalt and rubber tile; drywall, acoustical ceiling; wood doors and cabinets; blackboards and corkboards.
JU 5-11

▲POWER SYSTEM— **Juneau, Alaska**

Bids announced by Alaska Communication System, U. S. Army Signal Corps, A. G. Muttart, contracting officer, 4735 E. Marginal Way, Seattle, for modifications and additions to distribution system in the Alaska Communications Repeater Station in Juneau; DA-45-041-56-17. LOW BID: Alaska Electric Light and Power Co., Juneau, $3,206. ONLY OTHER BID: Wright & Hill, McKinley Bldg., Juneau, $3,610. Bids were opened May 14.
GW 5-16

●POST OFFICE BUILDING— **Kodiak, Alaska**

Bid opening extended from May 15 to 1 p. m., May 22, by Donnelly & Acheson, owners, for construction of a new post office and courthuose in Kodiak. Bids will be opened in the office of Robert Hugh Rose, architect, 5002 48th Ave. N.E., Seattle. Plans with architect.
GW 5-16. Previous report 5-2

●GARAGE, POWER HOUSE— **Naknek, Alaska**

Bids to be opened 11 a. m., June 12, by Alaska Road Commission, A. F. Ghiglione, director, room 319, Federal Bldg., Juneau, for constructing a garage and power house at Naknek. Plans with road commission, Box 1961, Juneau. No deposit. Guarantee 5%.

Two 28'x80' and 12'x20' wood frame buildings, steel roof girders, finished inside and out with plywood, concrete floors and insulated with glass wool. Work includes installation of equipment and drilling water well. Government will furnish all building materials except concrete aggregate. Completion 246 calendar days.
DM 5-16

●BUILDING ALTERATIONS— **Sitka, Alaska**

Bids will be opened 3 p. m., June 10, by General Services Administration, W. W. Southworth, Chief of Construction and Repair Division, room 126, Federal Office Bldg., 909 1st Ave., Seattle, for alterations to U. S. Post Office and Courthouse, Lincoln Ave., Sitka; Project No. CR-10-410.

Project includes interior and exterior painting, handrails, concrete work, roofing, flagpole, dorso, carpentry, heating, plumbing, electrical and certain other miscellaneous items.
GW 5-12

Advance news on contemplated construction projects that are not yet on the drawing boards; profitable leads on building and engineering jobs; the latest information on bid openings; contract awards for buildings, highway and street work, sewer and water works, reclamation jobs, throughout the Pacific Northwest and Alaska, will be found in these columns.

ENGINEERING NEWS

Washington, Oregon, Idaho, Montana, Wyoming, Utah, Alaska

- ● Bids Called
- ★ Contract Awards
- ▲ Low Bids—Bid Received
- ■ Planholders—Prospective Bidders

OREGON

★PUMPHOUSES— **Celilo, Ore.**

Award to Mid-State Construction Co., The Dalles, $20,512, by Corps of Engineers, Portland District, Colonel Jackson Graham, district engineer, 628 Pittock Block, Portland, for construction of pumphouses at Celilo, Ore.; CIVENG-35-026-56-173.
WB 5-11. Previousr report 4-28

★WATER MAINS— **Clatskanie, Ore.**

Award to Soule Construction Co., 2645 S.E. 111th, Portland, $25,177, by Department of Army, Seattle Army Terminal, Procurement Division, John A. Fountain, contracting officer, room 300, Building No. 1, Seattle Army Terminal, 1519 S. Alaskan Way, Seattle, for replacement of water distribution mains, Beaver Army Terminal, Clatskanie, Ore.; TC-45-045-56-57.
GW 5-11. Previous report 4-20

●WATER TREATMENT PLANT— **Corvallis, Ore.**

Bids will be opened June 14 by Douglas Taylor, water superintendent, City Hall, Corvallis, for the Corvallis Rock Creek water treatment plant, 10 miles west of Corvallis. Plans with Cornell, Howland, Hayes & Merryfield, consulting engineers, 1600 Western Ave., Corvallis. $20 deposit. Bid bond 5%. SP 5-15. Previous report 5-1

●STORM SEWER— **Corvallis, Ore.**

Bids to be opened 10 a. m., May 21, by city manager, City Hall, Corvallis, for construction of storm sewer No. 10 in Cornell, Starker, 9th and Grant streets. Project involves 4,600' of 8" to 18" culvert pipe. Specifications with city engineer. $12.50 deposit. Certified check, cashier's check or bid bond 5%.
DC 5-16

●INSTALL WATER PIPE— **Corvallis, Ore.**

Bids to be opened 11 a. m., June 1, by city manager, City Hall, Corvallis, for installing 20" and 12" mechanical joint cast iron water pipe in the downtown district. Specifications with the city engineer. $12.50 deposit. Certified check, cashier's check or bid bond 5%. Project involves trench excavation, installation of 365' of 20", 5,200' of 12" cast iron pipe and fittings. Materials to be furnished by city.
DC 5-16

▲CRUSHED ROCK— **Enterprise, Ore.**

Bids received May 10, by U. S. Forest

Service, Frank Walisch, regional supply officer, 729 N.E. Oregon St., P.O. Box 4137, Portland, for furnishing 9,600 c.y. of crushed rock on Crow Creek Road, approximately 37 mi. north of Enterprise. LOW BID: B. & B. Crushing Co., Springfield, Ore., (Item 1) $3.75 c.y.; (Item 2) $1.00 c.y. WB 5-15. Previousreport 4-27

★**CRUSHED ROCK—** **Estacada, Ore.**

Award to Estacada Sand & Gravel, Estacada, $9,625, by U.S. Forest Service, Frank Walisch, regional supply officer, 729 N.E. Oregon St., room 18, Portland, for stockpiling 3,500 c.y. crushed rock near Faraday Station, approximately 1.5 mi. up Clackamas River Road from Estacada. Bids opened May 8. WB 5-15. Previous report 5-3

●**FISHWAY—** **Estacada, Ore.**

Bids to be opened 10 a.m., June 12, by Oregon Fish Commission, M. T. Hoy, state fisheries director, 307 State Office Bldg., for construction of Middle Falls Eagle Creek Fishway, including a 20-pool reinforced concrete fishway and appurtenant work. Project located in Section 24, Township 3 South, Range 4 East, W.M., Clackamas County, approximately 10 miles northeast of Estacada, Ore. Plans with fish commission. $25 deposit. Certified check or bid bond 10%. WB 5-15

★**WATER SYSTEM—** **Eugene, Ore.**

Award to Tedrick & Quilliam Ditching Co., McMinnville, $65,513, by Santa Clara Water District, Emil A. Solberg, Jr., chairman, 2746 Ladarrah Ave., Eugene. Construction will start the last week in May. DW 5-16. Previous report 5-15

★**DIVERSION TUNNEL, DETOUR ROAD—** **Hills Creek Reservoir, Ore.**

Award to The Shea Co., 2801 W. Mission Road, Alhambra, Calif., $957,280, by Corps of Engineers, Portland District, Colonel Jackson Graham, district engineer, 628 Pittock Block, Portland, for construction of a diversion tunnel and Kitson Spring detour road, including a timber bridge, at Hills Creek Reservoir on the Middle Fork Willamette River, three miles southwest of Oakridge in Lane County; CIVENG-35-026-56-171. WB 5-11. Previous report 5-2

★**ASPHALTIC CONCRETE—La Grande, Ore.**

Award to H. J. and H. W. Miller, Baker, Ore., $33,360, by City Council, La Grande, for furnishing 4,667 tons asphaltic concrete. Bids opened May 9. SP 5-16. Previous report 4-28.

▲**STEEL WATER TANK—** **Madras, Ore.**

Bids received by Deschutes Valley Water District, W. S. MacRostle, manager, district office in Madras, for construction at ground level of a steel water tank of approximately 1,000,000 gal. capacity. LOW BIDS: Gunderson Bros. Engineering Corp., 4700 N.W. Front Ave., Portland, $40,200; American Pipe & Construction Co., 518 N.E. Columbia Blvd., Portland, $43,200, Pittsburgh-Des Moines Steel Co., 901 Lane, Seattle, $43,880. Bids opened May 7. SP 5-12. Previous report 4-21

ELECTRIC SYSTEM EXPANSION— **Newport, Ore.**

(Estimated cost $5,467,180)

Bond election will be held May 18 by Central Lincoln PUD, A. J. Naterlin, president, Newport, for proposed $2,925,000 revenue bond issue to help finance electrical expansion in the district during the next four years. Construction budget for fiscal years 1957-60 calls for following expenditures, by divisions: Newport Division (Depoe Bay, Newport, Toledo-Siletz, Waldport, Yachats), $2,045,770; Florence Division (Florence, Mapleton-Swisshome), $846,200; Reedsport Division (Reedsport-Gardiner-Winchester Bay, Lakeside, Hauser, Glasgow), $1,509,470; General Items (transformers, meters, tools and equipment), $1,065,750. DW 5-11

●**ASPHALTIC CONCRETE PAVING—** **North Bend, Ore.**

Bids to be opened 5 p.m., May 28, in the office of the city engineer, City Hall, North Bend, for furnishing materials and construction for the 1956 city street program. Project involves 3500 ton class B asphaltic concrete. Plans with city engineer. $10 deposit. Certified check 5%. DC 5-12

★**SITE EXCAVATION—** **Oregon City, Ore.**

Contract negotiated with F. H. Anderson, $780 for demolition, and $1.85 per c.y. for regular excavation, by Zion Lutheran Church, E. G. West, pastor, 8th and Jefferson Sts.; Oregon City, for excavation for new educational unit to be built adjacent to existing church. Award to Harold G. Lavelle, previously announced, was rescinded. Bid call for building to be issued in early June. Plans by Edmundson, Kochendoerfer & Kennedy, architects and engineers, 325 Henry Bldg., Portland. WB 5-11. Previous report 5-8

★**RESERVOIR CLEANUP—** **Portland, Ore.**

Award to David C. Oliver, Fall Creek, Ore., $19,500, by Corps of Engineers, Portland District, Colonel Jackson Graham, district engineer, 628 Pittock Block, Portland, for debris cleanup at Lookout Point Reservoir, Middle Fork Willamette River Basin in Ore.; CIVENG-35-026-56-193. WB 5-11. Previous report 4-26

★**STATE HIGHWAY PROJECTS—** **Portland, Ore.**

Awards announced by Oregon State Highway Commission, Portland, on highway construction projects on which bids opened April 27.

COQUILLE—Asphaltic concrete paving 0.29 mile Knott St. in Coquille, Coos County; a city project.

AWARD: J. C. Compton, Box 86, McMinnville, $14,466.

REEDSPORT—Asphaltic concrete paving 0.54 mile Winchester Ave. in Reedsport, Douglas County; a city project.

AWARD: United Contracting Co., Box 5075, Portland, $15,977. SP 5-11. Previous report 5-1

●**BRIDGE—** **Portland, Ore.**

Bids will be opened 10 a.m., May 23, by Bureau of Public Roads, F. E. Andrews, division engineer, 753 Morgan Bldg., Portland, for construction of a 73-foot treated timber bridge, Oregon Forest Development Road Project, South Fork Road, Roaring River Bridge, Willamette National Forest, Lane County, Ore.; FDR Willamette 163-C. Specifications with above office. Bid bond 5%.

Quantities: 40 c.y. structure excavation; 9 c.y. concrete; 1,400 lb. structural steel; 10.4 mfbm treated timber; 3 glued laminated treated stringers. SP 5-11

●**ANTENNA—** **Portland, Ore.**

Bids will be opened 2 p.m., June 11, by Corps of Engineers, Portland District, 628 Pittock Block, Portland, for furnishing and erecting a welded galvanized steel vertical radio antenna at the U.S. Moorings, 8010 N.W. St. Helens Road, Postland; CIVENG-35-026-56-218. Specifications with above office. Bid bond 20%. Completion time 60 calendar days.

Project includes antenna construction; galvanizing and painting; antenna foundation; guys, insulators and anchors. SP 5-12

▲**CLEARING, ROAD CONSTRUCTION—** **Portland, Ore.**

Bids opened May 9 by Bonneville Power Administration, L. C. Stewart, procurement officer, 1001 N.E. Lloyd Blvd., Portland, for clearing right-of-way and construction of access roads for the Alvey-Reston 230 KV transmission line, Drain Tap Point-Umpqua River Section, Lane and Douglas Counties, Ore.; Inv. No. 7958. LOW BIDS: Murray Bros., Bend, $209,160; The Helmick Co., Box 6128, Seattle, $229,997; Trusty & Paris, Roseburg, $249,302. WB 5-11. Previous report 5-4

★**STATE HIGHWAY PROJECTS—** **Portland, Ore.**

Award announced by Oregon State Highway Commission on highway projects on which bids were opened in Portland April 27.

ROCK CREEK AND BEAVERTON CREEK BRIDGES—Construct a 125' and a 150' timber and reinforced concrete bridge over Beaverton Creek; a 75' timber and reinforced concrete bridge over Rock Creek on Base Line Road near Hillsboro, Washington County; FAP No. S-310(1). Span arrangement on all bridges is 25' precast beam spans on six pile treated timber bents.

AWARD: Johnston & Bryant, 803 E. 6th, Newberg, $60,432. SP 5-11. Previous report 5-1

●**STREET IMPROVEMENTS—** **Portland, Ore.**

Bids to be opened 10:30 a.m., May 22, by Multnomah County Board of Commissioners, John W. West, purchasing agent, room 504, Court House, Portland, for grading, constructing rock base and surfacing with bituminous macadam, penetration type, of N.E. Failing St. from 57th to 62nd Ave. Plans with roadmaster, Paul Northrup, 2115 S.E. Morrison St., Portland. $2 charge. Certified check or bid bond 10%. WB 5-12

▲**DEBRIS CLEAN-UP, CLEARING—** **Portland, Ore.**

Bids received May 10, by Corps of Engineers, Portland District Engineer, Colonel Jackson Graham, district engineer, 628 Pittock Block, Portland, for debris cleanup at Detroit Reservoir and clearing at Big Cliff Reservoir on the North Santiam River, Ore.; CIVENG-35-026-56-205. LOW BIDS: Stevens & Steel, Box 92, Gates, Ore., $35,508; D. R. DeVaney Co., 7814 S.E. Grant St., Portland, $40,324; Mac Slate, Jr., 632 Washington St., Albany, $43,890. Engineer's estimate, $41,000. WB 5-12. Previous report 5-3

▲**SUBSTATION ALTERATIONS—** **Portland, Ore.**

Bids received May 10, by Bonneville Power Administration, L. C. Stewart, procurement officer, 1001 N.E. Lloyd Blvd., Portland, for dismantling of Hungry Horse substation, approximately 10 mi. southeast of Columbia Falls, Mont., transporting salvaged equipment and materials and constructnig Ledbeder substation, approximately 13 mi. west of Kennewick, Wash.; Inv. No. 7980. LOW BIDS: Barnes Electric Co., Inc., 1105 N. Alberta St., Portland, $17,635; H. B. Nesheim Construction Co., 6714 36th Ave. S.W., Seattle, $20,232; Casey Electric Co., 209 Bell St. Dock, Seattle, $24,811. WB 5-12. Previous report 4-24

▲**VIADUCT—** **Portland, Ore.**

Bids received May 8 by Oregon State Board of Higher Education, University of Oregon Medical School, A. J. Clemons, superintendent of physical plant, room 117, Administration Bldg., 3181 S.W. Sam Jackson Park Road, for construction of half viaduct at the school. LOW BID: Hannan Bros., 3525 N.E. Going St., Portland, $32,335. ONLY OTHER BID: H. A. Starr, 2425 N. Commercial St., Portland, approximately $44,000. WB 5-12. Previous report 4-17

●**BUS, SWITCH INSULATORS—** **Portland, Ore.**

Bids will be opened 10 a.m., May 23, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for furnishing and delivering, fob. Eavan Spur, Vancouver, Wash., 1,400 bus and switch insulators; Inv. No. 7998. Specifications with above office. Completion time 20 calendar days. SP 5-15

■**TRANSMISSION LINE—** **Portland, Ore.**

Planholders announced for construction of the McNary-Franklin 230 kv transmission line No. 2 and of permanent river crossing connections at McNary for McNary-Big Eddy 287 kv transmission line, Umatilla County, Ore., and Benton and Franklin Counties, Wash.; Inv. No. 7992. Bids to be opened 3 p.m., May 22, by Bonneville Power Administration, L. C. Stewart, procurement officer, 1001 N.E. Lloyd Blvd., Portland.

Planholders: Parker-Schram Co., 201 Builders Exchange Bldg., Portland; John L. Nichols Construction Co., P.O. Box 336, Grandview, Wash.; Power City Electric Co., N. 920 Howard St., Spokane; Duke's Electric, Inc., Bldg. 35, Pasco Airport, Pasco; Midland Constructors, Inc., 14145 E. Garvey, Baldwin

Park, Calif. (K. G. Wills, 3401 S.E. Risley, Portland); John M. King Co., 1601 Taylor Way, Tacoma; F. E. Wilder, Route 11, Box 147, Olympia; W. L. Ridge, E. 3122 Sharp Ave., Spokane. WB 5-15. Previous report 5-4

■ **TRANSMISSION LINE— Portland, Ore.**

Planholders announced for construction of Schedule 1, Big Eddy-Oregon City 287 kv. transmission line, Wasco and Hood River Counties; Inv. No. 7971. Bids will be opened 2 p.m., May 21, by Bonneville Power Administration, procurement officer, 1001 N.E. Lloyd Blvd., Portland. $25 deposit.

Planholders: W. L. Ridge, E. 3122 Sharp Ave., Spokane; Smith Bros., P.O. Box 96, Vancouver, (Neil B. Cleghorn, 720 S. Bernard, Apt. 31, Spokane); F. E. Wilder, Route 11, Box 147, Olympia; Montgomery Electric Co., 2375 N.W. Thurman St., Portland; Parker-Schram Co., 201 Builders Exchange Bldg., Portland; John M. King Co., 1601 Taylor Way, Tacoma; Pettijohn Engineering Co., 4145 N.E. Cully Blvd., Portland; Midland Constructors, Inc., 14145 E. Garvey, Baldwin Park, Calif. (K. G. Wills, 3401 S.E. Risley, Portland).

WB 5-15. Previous report 4-26

★**INSTRUMENT TRANSFORMERS Portland, Ore.**

Awards to Legnano Electric Corp., New York, N.Y., (Items 2 and 3) $13,644; American Elin Corp., New York, (Item 6) $4,710, by Bonneville Power Administration, L. C. Stewart, procurement officer, 1001 N.E. Lloyd Blvd., Portland, for instrument transformers; Inv. No. 7944. Item 5 cancelled; awards on Items 1 and 4 pending.

WB 5-15. Previous report 4-26

■ **APRON EXTENSION AND TAXIWAY— Portland, Ore.**

Planholders announced for the construction of apron extension and taxiway, Air National Guard Facilities, Portland International Airport, Portland; ENG-45-108-56-172. Bids will be opened 2 p.m., P.S.T., May 21, by Corps of Engineers, Seattle District, Colonel N. A. Matthias, district engineer, 4735 E. Marginal Way, Seattle. Plans with Seattle district engineer, at above address. Bid bond 20%.

Planholders: Morrison-Knudsen Co., Inc., 603 Hoge Bldg., Seattle; Charles R. Watts & Co., 4121 6th Ave. N.W., Seattle; Butler Construction Co., 317 Builders Exchange Bldg., Portland; Cable Construction Co., 1512 Center, Tacoma; J. N. Conley, 4332 N.E. Royal Court, Portland; Donald M. Drake Co., 1600 N.W. Savier, Portland; Erland & Bickle, Box 1945, Portland; R. A. Heintz Construction Co., 211 N.E. Columbia Blvd., Portland; Natt McDougall Co., 824 Pittock Block, Portland; Parker-Schram Co., 200 Builders Exchange Bldg., Portland; Q. L. Rufener, Inc., 4729 S.E. Ash, Portland; Fred H. Slate Co., Ore. Inc., 7805 S.W. 40th, Portland; Walter W. Sprague Co., Box 117, Lynnwood; Warren Northwest, Inc., Box 5072, Portland. GW 5-15. Previous report 4-26

● **RETAINING WALL— Portland, Ore.**

Bids to be opened 2 p.m., May 29, by city purchasing agent, L. W. Rayner, room 208, City Hall, Portland, for construction of retaining wall opposite 3804 N. Melrose Drive. Includes earth excavation, relocation of manhole and sewer line, construction of prefabricated bin type retaining wall, reconstruct curb and street area and installation of steel beam type guard railing. Certified check or bid bond 10%. WB 5-15

● **POLE LINE HARDWARE— Portland, Ore.**

Bids will be opened 3 p.m., May 31, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for furnishing and delivering pole line hardware; Inv. No. 8001. Specifications with above office. SP 5-15

★**TRANSMISSION LINES— Portland, Ore.**

Additional award to John L. Nichols Construction Co., P.O. Box 336, Grandview, Wash., (Schedule 3) $4,114, by Bonneville Power Administration, L. C. Stewart, procurement officer, 1001 N.E. Lloyd Blvd., Portland, for construction of the Sandy-Oreg noCity section of the Big Eddy-Troutdale 287 TV transmission line and installation of tower signs on the Big-EddyOregon City 287 KV transmission line; Inv. No. 7946. WB 5-15. Previous report 5-10

● **TOWER STEEL— Portland, Ore.**

Bids will be opened 2 p.m., June 4, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for furnishing and delivering tower steel; Inv. No. 7991. Specifications with above office. SC 5-15

★**STREET IMPROVEMENTS— Portland, Ore.**

Award to Cascade Construction Co., Foot of S.W. Abernathy, Portland, $11,278, by city auditor, Will Gibson, City Hall, Portland, for improvement of S.E. Main St.

WB 5-15. Previous report 4-28

★**STEEL POLES Portland, Ore.**

Award to General Electric Supply Co., 300 N.W. 14th Ave., Portland, $10,033, by city purchasing agent, L. W. Rayner, room 208, City Hall, Portland, for eight floodlight steel poles for Lent Park.

WB 5-15. Previous report 5-4

★**SEWERS— Portland, Ore.**

Award to Mitchell B. Saloum, 3322 S.E. 68th Ave., Portland, $7,016, by city auditor, Will Gibson, City Hall, Portland, for sewer in S.W. Custer St.

WB 5-15. Previous report 4-21

▲**POLES— Portland, Ore.**

Bids received May 7, by Bonneville Power Administration, L. C. Stewart, procurement officer, 1001 N.E. Lloyd Blvd., Portland, for furnishing poles; Inv. No. 7974. BIDDERS: Pope & Talbot, Inc., 3070 N.W. Front Ave., Portland, (fob. destination) $161,598; (fob. shipping point) no bid; J. Neils Lumber Co., Libbey, Mont., $189,793, $145,619; J. H. Baxter & Co., Pittock Block, Portland, $163,503; no bid. Additional incomplete bids received. WB 5-15

● **TRANSMISSION LINE EASEMENTS— Portland, Ore.**

Bids will be opened 10 a.m., May 22, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for transmission line right-of-way easements over tracts of land in Kitsap County, Wash.; Sale No. 276. Specifications with above office. Bid bond 25%. SP 5-15

● **SUBSTATION LUMINAIRES— Portland, Ore.**

Bids will be opened 2 p.m., May 28, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for furnishing and delivering, fob. Eavan Spur, Vancouver, Wash., 100 substation outdoor, post mount, 300-500 symmetric, luminaires; Inv. No. 7999. Specifications with above office. Completion time 50 calendar days. SP 5-15

● **ELECTRICAL, MECHANICAL WORK— Portland, Ore.**

Bids will be opened 2 p.m., May 31, by Corps of Engineers, Portland District, Colonel Jackson Graham, district engineer, 628 Pittock Block, Portland, for miscellaneous mechanical and electrical work at Lookout Point and Dexter Dam on the Middle Fork Willamette River, Ore.; CIVENG-35-026-52-222. Specifications with above office. Completion time 120 calendar days.

Project includes the following—LOOKOUT POINT: work on a sump pump discharge pipe and centrifugal pumps; modification to four removable bulkheads; modification of bridge crane controls. DEXTER: work on pressure switch and piping; work on lifting beam supports; ladders and access platforms for a 100-ton traveling bridge crane. SP 5-15

● **BUS PIPE— Portland, Ore.**

Bids will be opened 11 a.m., May 21, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for furnishing and delivering 20,000' of 3", 7000' of 2½" and 6,000' of 1½" aluminum bus pipe, fob. Eavan Spur, Vancouver, Wash.; Inv. No. 8000. Specifications with above office. SP 5-15

▲**TRANSMISSION LINE— Portland, Ore.**

Bids received May 11, by Bonneville Power Administration, L. C. Stewart, procurement officer, 1001 N.E. Lloyd Blvd., Portland, for construction of St. Johns-Keeler section, and completion of clearing and construction of the Ross-St. Johns No. 2 section of Ross-Keeler 230 kv. No. 1 transmission line, and construction of Keller substation 115 kv. tie line. LOW BIDS: Pettijohn Engineering Co., 4145 N.E. Cully Blvd., Portland, $158,972; Parker-Schram Co., 201 Builders Exchange Bldg., Portland, $166,263; F. E. Wilder, Route 11, Box 147, Olympia, $197,771.

WB 5-15. Previous report 4-27

★**GRADING, BITUMINOUS SURFACING— Portland, Ore.**

Award by Bureau of Public Roads, F. E. Andrews, division engineer, 753 Morgan Bldg., Portland, for 8.619 mile grading and bituminous surfacing on John Day-Burns Highway, Malheur National Forest, Harney County, Ore.; Oregon Forest Highway Project 35-B5, G3. AWARD: Rogers Construction Co., 11760 N.E. Glisan St., $454,084. 2ND LOW: Babler Bros., Inc., 4617 S.E. Milwaukie Ave., $483,350. 3RD LOW: J. N. Conley, 4332 N.E. Royal Court, $491,684. Bidders of Portland. Bids opened May 11.

WB 5-15. Previous report 5-3

★**SITE PREPARATION— Port Orford, Ore.**

Award by School District No. 1J, Curry County, Mrs. Helen Slocum, clerk, High School, Port Orford, Ore., for rough grading of site for new high school at Port Orford. Plans by Freeman, Hayslip, Tuft & Hewlett, 2040 S.W. 3rd Ave., Portland. AWARD: Lee Mortenson, N.E. 630 Polk St., Roseburg, $13,100. 2ND LOW: M. L. O'Neil & Son, 375 Horn Lane, Eugene, $14,581; A. T. Fox, P.O. Box 831, North Bend, $26,770.

WB 5-15. Previous report 4-25

● **ELECTRICAL WORK— Salem, Ore.**

Bids to be opened 2:30 p.m., May 23, by Oregon National Guard Bureau, Colonel William H. Adams, contracting officer, 504 State Office Bldg., Salem, for renovation of electrical distribution system at Camp Withycombe, Clackamas, and at Camp Clatsop, Warrenton. Projects will be bid separately. Plans may be obtained at above office without deposit. DC 5-12

★**ACCESS ROAD— West Linn, Ore.**

Award to F. H. Anderson, Oregon City, $750, by city recorder, Andy Harila, City Hall, West Linn, for access road from Charles Salomo Road to Willamette Reservoir. Bids opened May 9.

WB 5-15. Previous report 5-1

WASHINGTON

★**WATER DISTRIBUTION SYSTEM— Alderwood Manor, Wash.**

Awards by Alderwood Manor Water District, C. P. Ballard, secretary, Water District Office, Alderwood Manor, for construction of a water distribution system in LID No. 68 and water system improvements in Shasta Park in Alderwood Manor. Plans by Lester Erickson, district engineer, at the district office. AWARD—LID No. 68: Lario Libri, 3556 Morgan, Seattle, $5,820. OTHER LOW BIDS: Frank M. Taylor, 2317 Minor N., Seattle, $5,988; Oil Equipment Service, Inc., 4044 E. 109th, Seattle, $6,141. Engineer's estimate, $5,664. AWARD—Shasta Park: Lario Libri, $23,061; Mallory & Compton, 13751 Aurora, Seattle, $25,119; Frank M. Taylor, $27,607. Engineer's estimate, $22,820. Bids were opened May 14.

GW 5-16. Previous report 5-10

★**WATER DISTRIBUTION SYSTEM— American Lake, Wash.**

Award by Veterans Administration Director, Design Service, Veterans Administration, Munitions Bldg., Washington, D.C., for improvements to the water distribution system for automatic sprinkler system in the Veterans Administration Hospital at American Lake; Project No. 46-5115; Spec.

No. 5616. AWARD: Paine & Gallucci, Inc., 1521 S. Grant Ave., Tacoma, $5,775. Bids were opened and held under advisement April 24. GW 5-16. Previous report 3-24

★**PUMPS, MOTOR— Anacortes, Wash.**

Awards by City Council, Anacortes, for furnishing 8" gasoline engine drive, portable, centrifugal pump; 2,800-gpm vertical turbine pump for use in city water system. AWARDS—Pump for Ranney Well: Fairbanks, Morse Co., 668 Lane, $9,900. Control Panel for Pumps: Star Machinery Co., 241 Lander, $4,100. Gas Pump Auxiliary: Feenaughty Machinery Co., Inc., 1028 6th S., $2,826. All of Seattle.
JD 5-11. Previous report 4-21

●**WATER MAIN— Bellevue, Wash.**

Bids will be opened 8 p.m., May 23, by King County Water District No. 97, J. P. Lally, secretary, Water District Office, 14212 Eastgae Hills Blvd., Bellevue, for water main. Plans with Howard T. Harstad & Associates, consulting engineers, 1000 Lenora, Seattle. $10 deposit. Certified check 5%.

Furnish and install approximately 900' of 12" steel feeder main supported on timber pile bents. GW 5-16

ROAD IMPROVEMENTS— Bremerton, Wash.

(Estimated cost $97,000)

Bids will be called soon by Kitsap County Commissioners, Courthouse, Bremerton, for widening and straightening a mile of Beach Road on the south side of Sinclair Inlet, from Lindstrom's near Annapolis toward Waterman in Bremerton. Work also includes replacement of the Glen Echo Bridge and placing 50,000 yd. riprap along shore side of the road. SC 5-11

▲**SEWER SYSTEM— Bremerton, Wash.**

Bids received May 10 by 13th Naval Districa, Bureau of Yards and Docks, Rear Admiral R. H. Meade, chief of bureau, room 100, Building 232, U.S. Naval Station, Seattle, for interceptor sewer system at Puget Sound Naval Shipyard, Bremerton; NOy-90545; Spec. No. 48224. LOW BIDS: Thorn & Marble Co., 4225 23rd Ave. W., Seattle, $637,298; Harbor Construction Co., 309 1st Ave. W., Seattle, $640,000; Odegard Construction Co., 2110 37th Ave., Everett, $752,807.
GW 5-11. Previous report 5-2

●**FERRY LANDING FACILITIES, ACCESS ROAD— Camp Hanford, Wash.**

Bids will be opened 2 p.m., P.S.T., June 12, by Corps of Engineers, Walla Walla District, 602 City-County Airport, Walla Walla, for construction of ferry landing facilities and access roads at Camp Hanford, Wash.; ENG-45-164-56-38. Plans with district engineer, Walla Walla. Bid bond 20%. Bids will be accepted on Schedule A, access roads and parking area; Schedule B, ferry ramps; or Schedule C, a combination of Schedules A and B.

Quantities—Schedule A: roads and parking area; clearing; 17,700 c.y. excavation; 8,750 c.y. embankment; 5,800 sq. yd. scarifying existing pavement; 8,700 c.y. base course; 4,500 c.y. leveling course; 46 ton prime coat, MC-0 or MC-1; 100 ton asphalt cement, MC-5; 820 ton coarse aggregate; 330 ton fine aggregate; 2,350' guard rail; 350' sand fence. Schedule B: Ferry ramps; cofferdam; 23,400 c.y. excavation; 170 c.y. sand filter; 350 c.y. gravel base; 540 c.y. concrete; 1,400 c.y. pit-run gravel; 4,200 c.y. riprap; 2 landing platforms. GW 5-15

★**REVETMENT ROCK— Clark County, Wash.**

Award to General Construction Co., 4850 N.W. Front Ave., Portland, $7,392, by Bonneville Power Administration, L. C. Stewart, procurement officer, 1001 N.E. Lloyd Blvd., Portland, Ore., for rock reventment for foundation near Beacon Rock, Clark County, Wash.; Inv. No. 7953.
WB 5-15. Previous report 4-5

★**TRASHRACK RAKES— Dallesdam, Wash.**

Award to Weldcraft Steel & Marine Co., Inc., No. 9, Squalicum Fill, Bellingham, $23,059, by Corps of Engineers, Portland District, Colonel Jackson Graham, district engineer, 628 Pittock Block, Portland, for the manufacture, shop assembly, shop testing painting and delivery of five trashrack rakes for Dallesdam, Wash.; CIVENG-35-026-56-167.
WB 5-11. Previous report 4-28

★**ROAD IMPROVEMENTS— Davenport, Wash.**

Award announced by Board of Lincoln County Commissioners, Charles A. Ramm, clerk, County Courthouse, Davenport, for construction of surface treatment and non-skid single seal on Lincoln County roads; CRP G-425. AWARD: Standard Asphalt Paving Co., N. 119 Post St., Spokane, $70,662. 2ND LOW: Lone Pine Paving, Inc., Box 1441, Yakima, $73,034. 3RD LOW: N. G. Johanson, 1828 E. Trent Ave., Spokane, $73,851. Bids opened May 8.
SP 5-12. Previous report 4-14

★**WATER MAINS— Edmonds, Wash.**

Awards announced by City Council, City Hall Edmonds, for furnishing and delivering water mains materials fob., Edmonds. AWARDS—CAST IRON WATER MAIN: U. S. Pipe & Foundry Co., Colman Bldg., Seattle, $5,116. FITTINGS: Western Utility Supply Co., 5409 Ohio, Seattle, $1,480. FIRE HYDRANTS: E. N. Hallgren Co., 1252 1st Ave. S., Seattle, $2,172.
HH 5-11. Previous report 5-3

★**SEWER, WATER LINES—Edmonds, Wash.**

Award to Thorburn & Logozo Co., 4608 36th S.W., Seattle, $16,900, by City Council, City Hall, Edmonds, for installation of sewer and waterlines for platt of Robert E. Thomas No. 16. HH 5-11. Previous report 5-3

▲**FENCING, WALLS, PAVING— Enumclaw, Wash.**

Bids received May 14 by King County commissioners, W. S. Carroll, county purchasing agent, room 606, County-City Bldg., Seattle, for installation of chain link fencing, construction of walls and paving around the swimming pool at King County Park, located 1½ mi. east of Enumclaw on the Naches Pass Highway. Plans by Donald Winslow, landscape architect, 615 Lakeview Blvd., Seattle. LOW BID: Colorado Fuel and Iron Corp., Pacific Coast Division, 3434 2nd Ave. S., Seattle, $4,110. ONLY OTHER BID: Hansen Bros., 2134 Wells St., Enumclaw, $7,343. GW 5-15. Previous report 5-9

★**SEWAGE TREATMENT PLANT, LAGOON— Ephrata, Wash.**

Awards announced by City Council, City Hall, Ephrata, for construction of a sewage treatment plant and sewage lagoons at Ephrata. AWARDS—SCHEDULE 1: Ruud Construction Co., Realty Bldg., Spokane, $205,455. SCHEDULE 2: Murphy Bros., Inc., E. 3728 Broadway, Spokane, $29,682. SCHEDULE 3: Bruce Allen Electric, "A" S.E., Ephrata, $16,519.
IG 5-11. Previous report 4-21

▲**STEEL BARS— Ephrata, Wash.**

Bids rejected by Bureau of Reclamation, Box 368, Ephrata, for the purchase and removal of an estimated 138 tons of reinforcing steel bars from ½" to 1½", round and square, various lengths and grades, all located at Coulee Dam, Wash. A Columbia River Basin Project. Bids will be readvertised.
SP 5-12. Previous report 4-14

●**EARTHWORK, STRUCTURES— Ephrata, Wash.**

Bids to be opened June 14 by Bureau of Reclamation, Box 368, Ephrata, for earthwork, and structures of E168D wasteway drainage system, East Low Canal Wasteways, Columbia Basin Project, Wash., near Othello; Spec. No. DC-4696. Plans with above office.

Quantities: 117,300 c.y. compacting embankments; 7,100 c.y. riprap, rock backfill; 1,140 c.y. concrete. DM 5-12

●**PUMPING PLANT, LATERAL— Ephrata, Wash.**

Bids to be opened 10 a.m., June 19, by Bureau of Reclamation, Box 368, Ephrata, for construction of Frenchman Springs pumping plant, approach lateral W53.1 and discharge lines, Block 79, Columbia Basin Project, near Quincy, Wash.; Spec. No. DC-4698. Plans with reclamation offices in Ephrata, Box 937 in Boise, Idaho, or Bldg. 53, Denver, Colo.

Quantities: 130,100 c.y. excavation; 1,730 c.y. concrete; 5,360' concrete pipe; 90,000 lb. steel for plant superstructure; 53,200 lb. steel discharge pipes, drains; 8 main motor driven, horizontal centrifugal type pumping units. Completion 520 days. DC 5-16

●**GOLF COURSE MODIFICATION— Everett, Wash.**

Bids will be opened 8 p.m., May 21, by School District No. 2, Oscar Johnson, secretary of the board, at the school office, Civic Auditorium, Everett, for modification of Legion Park Golf Course, involving installation of greens, a fairway, drain system and sewer line, in Everett. Specifications with Harold W. Hall, architect, 402 Commerce Bldg., Everett. SC 5-16

▲**HANNA LAKE OUTLET CHANNEL— Fort Lewis, Wash.**

Bids received May 14 by Corps of Engineers, Seattle District, district engineer, 4735 E. Marginal Way, Seattle, for Hanna Lake outlet Channel at Fort Lewis; ENG-45-108-56-168. Completion time 150 calendar days. LOW BIDS: Kendall Construction Co., 3211 Center, Tacoma, $181,425 (total); $185,487 (total with additive item of fish screen structures); Woodworth & Co., Inc., 1200 East D St., Tacoma, $197,166, $202,166; General Construction Co., 3840 Iowa, Seattle, $233,896, $239,496. Engineer's estimate, $171,-634, $175,544. GW 5-16. Previous report 5-8

■**ELECTRICAL REPAIR— Geiger Field, Wash.**

Planholders announced for repairing electrical distribution system at Geiger Field, Spokane; IFB 45-614-56-73. Bids will be opened 2 p.m., May 29, by U.S. Air Force, C. S. Phelps, procurement officer, Geiger Field.

Planholders: R. C. Hughes, N. 2105 Airport Way; D. G. Quinton Co., N. 1413 Division St.; Power City Electric Co., N. 920 Howard St.; Mott Electric Co., E. 3915 Trent Ave.; Frost Electric Co., N. 2115 Division St.; Spokane Electric Co., E. 601 Trent Ave.; John's Electric Co., N. 1423 Monroe St.; W. R. Hollenbeck, E. 4513 6th Ave.; Electric Smith, Inc., E. 123 Sprague Ave. All of Spokane. CE 5-11. Previous report 5-5

●**WATER MAINS— Kenmore, Wash.**

Bids will be opened 8 p.m., June 6, by King County Water District No. 79, George L. Millman, secretary, 18120 68th Ave. N.E., Kenmore, for construction of 3,800' of 6" water distribution mains. Plans by G. T. Sparrow & Associates, consulting engineers, 2220 82nd S.E., Mercer Island. Plans obtainable from the water district office. $15 deposit. Certified check 5%. GW 5-16

▲**WATER SYSTEM— Kenmore, Wash.**

Bids received May 14 by King County Water District No. 79, George L. Millman, secretary, 18120 68th Ave. N.E., Kenmore, for construction of a water system for ULID No. 7 in Kenmore. Plans by G. T. Sparrow & Associates, consulting engineers, 2220 82nd Ave. S.E., Mercer Island. LOW BIDS—Contract No. 1, Steel Pipeline: Frank M. Taylor, 2317 Minor N., $66,798; Frank Coluccio, 7778 Seward Park Ave., $68,680; Argentieri & Colarossi, 1815 Jackson, $69,670. Contract 2, Pump Station: Lario Libri, 3556 Morgan, $9,000; Washington Development Co., 1524 Ballard Way, $9,425; Columbia Builders, Inc., 4225 23rd Ave. W., $9,541. Contract 3, 100,000-gallon Elevated Storage Tank: R. O. Rolla, 3408 Cashmere Place, $22,936. ONLY OTHER BID: Federal Pipe and Tank Co., 6851 E. Marginal Way, $32,297. All bidders of Seattle.
GW 5-16. Previous report 5-3

★**SEWERAGE SYSTEM—Long Beach, Wash.**

Award to Lord Bros., 9233 N. Calvert Ave., Portland, $256,864, by Town Council, Florence L. Rine, clerk, Town Hall, Long Beach, for sewers and sewage plant.
WB 5-16. Previous report 5-3

▲SUBSTATION ADDITIONS— Long Beach, Wash.

Bids received May 14 by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for construction of 15,000 kv. substation on Olson Road about three miles northeast of Long Beach; Inv. No. 7970. LOW BIDS: Western Electrical Construction Co., 1639 N.W. Raleigh St., Portland, $17,187; Olson Electric Co., 710 W. 8th St., Vancouver, $18,802; H. B. Nesheim, 6714 36th Ave. S.W., Seattle, $19,210. WB 5-16

★STREET, CURB REPAIRS— Longview, Wash.

Awards by City Council, City Hall, Longview, on street, curb, gutter construction. AWARDS—Twin City Concrete Service, 1005 Michigan, Longview, $14,039 (19th Ave.); Westco of Longview, 618 14th, Longview, $3,148 (alley paving); Harold Olds, 3111 N. 24th, Tacoma, $2,691 (6" water line), $2,459 (8" water line). DC 5-12

●DRAIN SEWER— Mountlake Terrace, Wash.

(Estimated cost $6,000)

Bids will be opened 8 p.m., May 21, by Evan L. Peterson, city manager, City Hall, Mountlake Terrace, for construction of drain sewer on 54th Ave. W. in Mountlake Terrace. Specifications with city engineer, City Hall, Mountlake Terrace. HH 5-12

WATER SUPPLY— Mount Vernon, Wash.

(Estimated cost $65,000)

Plans announced by Skagit County PUD, Fred Ovenell, manager, Mount Vernon, for a local improvement district for water supply for residents of Similk Beach on Fidalgo Island. Source of water supply will be wells located two miles north of Similk area and will be constructed upon completion of assessment rolls and public hearing. Contract to be awarded approximately July 1. JD 5-11

●FUEL STORAGE, DOCK REPAIRS— Mukilteo, Wash.

Bids will be opened 3 p.m., May 25, by Department of Air Force, Directorate of Procurement, Hill AFB., near Salt Lake City, Utah, for fuel storage, dock repairs and other work, including repairing piles, timbers and cleats, at Mukilteo, Wash.; INV. No. 42-600-56-384. Plans and specifications with above. GW 5-15

★STATE HIGHWAY PROJECTS— Olympia, Wash.

Five awards, one rejection and one project held for consideration by Washington State Highway Commission, W. A. Bugge, director, Olympia, for highway construction on which bids were opened May 8.

GOLDENDALE NORTH—Clearing, draining, grading, constructing cement treated base, paving with asphaltic concrete, stockpiling ballast, crushed stone surfacing, maintenance rock, crushed cover stone and mineral aggregates, and constructing reinforced concrete T-beam bridge on 4.101 mile PSH No. 8, Klickitat County; FAP No. F-014-3(3).

AWARD: Goodfellow Bros., Inc., Box 1337, Wenatchee, $704,099.

PULLMAN - BUSBY ROAD — Draining, grading, crushed stone surfacing on 2.321 mile Whitman County road; FAS No. S-0669(1).

Bids rejected.

AUSTIN CREEK BRIDGE — Reinforced concrete slab bridge on 0.011 mile Whatcom County road; FAS No. S-0766(3).

Held for consideration.

LOW BIDS: C. B. Croy, 2502 Lakeway Drive, $14,057; Gorem Construction Co., 506 14th St., Bellingham, $15,374; American Pile Driving Co., Pier 2, Everett, $16,282.

WASHOUGAL AND CAPE HORN VICINITY—Draining, grading, asphaltic concrete paving on 4.931 mile PSH No. 8, Clark and Skamania counties; a state project.

AWARD: United Contractors Co., Box 5075, Portland, $90,555.

CRAB CREEK TO JCT SSH No. 2-G—Reconstructing roadway ditch and surfacing with light bituminous surface treatment on 7.52 mile SSH No. 11-F, Lincoln County; a state project.

AWARD: D. A. Sullivan, Spokane, $104,996.

INTERSTATE BRIDGE TO THURSTON COUNTY LINE—Light bituminous surface treatment and non-skid single seal treatment on 83.733 mile PSH No. 1, Clark, Cowlitz, Lewis counties; a state project.

AWARD: Doolittle Construction Co., 510 Adams St., Seattle, $147,548.

CONWAY VICINITY — Stockpiling maintenance rock, sand, mineral aggregates on State Highways Nos. 1, 1-A, 1-H, Skagit County; a state project.

AWARD: Wilder Construction, Inc., 1840 State St., Bellingham, $42,162.

DE 5-11. Previous report 5-9

▲STATE HIGHWAY PROJECTS— Olympia, Wash.

Bids received by Washington State Highway Commission, W. A. Bugge, director, Olympia, on highway construction on which bids opened May 15.

PATTERSON TO PLYMOUTH, Unit 1 — Clearing, draining, grading, surfacing with light bituminous surfacing treatment on 7.908 mile PSH No. 8, Benton County; FAP No. F-047-2(2) Unit 1 and State Project.

LOW BIDS: K. C. Dack Construction Co., Box 35, Milton-Freewater, Ore., $262,719; F. R. Hewett Construction Co., E. 5916 Baldwin, Spokane, $278,110; Ray Weist, Contractor, Box 191, Yakima, $284,330.

REGAL STREET TO CUSTER STREET ON 3RD AVENUE—Clearing, draining, grading, type I-1 asphaltic concrete paving on 1.255 mile PSH No. 2, Spokane County; FAP No. IN-022-6(22).

LOW BIDS: Inland Asphalt Co., Box 4116, Spokane, $111,272; United Paving Co., Route 1, Box 198, Spokane, $122,483.

KAPOWSIN HIGHWAY-PUYALLUP RIVER TO CARD ROAD—Clearing, draining, grading, surfacing and paving with type I-1 asphaltic concrete in 1.913 mile Pierce County road; FAS No. S-0240(7).

LOW BIDS: Asphalt Paving & Engineering Co., Box 356, Tacoma, $95,851; Woodward & Co., 1200 E. "D" St., Tacoma, $102,475.

LITTLE KALAMA RIVER ROAD—Clearing, draining, grading, surfacing with crushed stone 2.202 mile Cowlitz County road; FAS No. S-0712(1).

LOW BIDS: Archie Radakovich, 1203 S. 4th, Kelso, $99,684; Lakeside Bulldozing Co., General Delivery, Moses Lake, $110,472.

SHAVER BRIDGE — Reinforced concrete girder bridge on 0.030 mile Lewis County road; FAS No. S-1044(2).

LOW BIDS: Pakar Construction Co., Box 447, Chehalis, $39,860; Troy Burnham Co., 18666 Beverly Road, Seattle, $41,808; Owens Bros., Railroad and Oak, Port Angeles, $44,560.

BURNT BRIDGE CREEK TO EAST FORK LEWIS RIVER—Surfacing with light bituminous surface treatment, paving with type I-1 asphaltic concrete on 7.54 mile SH Nos. 1 and 1-S, Clark County; State Project.

LOW BIDS: J. C. Compton Co., Box 86, McMinnville, Ore., $131,636; K. F. Jacobsen & Co., Inc., 1208 N. River St., Portland, $144,136; D-H Paving Co., 6808 Highway 99, Vancouver, $149,451.

YALE EASTERLY—Surfacing with light bituminous surface treatment, non-skid single seal treatment on 9.552 mile SH Nos. 5, 8, 12, 1-S, 1-T, 5-K, 5-L, 8-A, 8-B, 8-C, 8-D, 12-D, 12-F, Cowlitz, Clark, Lewis, Skamania, Klickitat and Wahkiakum counties; State Project.

LOW BIDS: D-H Paving Co., Vancouver, $88,505; Doolittle Construction Co., 510 Adams, Seattle, $93,929; Harr & Horton, 312 N. Schmeer Road, Portland, $102,083.

COTTONWOOD ROAD TO COLVILLE—Non-skid single seal treatment on 71.35 mile SH Nos. 3, 6, 22, 6-A, Stevens and Pend Oreille counties; State Project.

LOW BIDS: N. G. Johanson, 1828 E. Trent Ave., Spokane, $71,223; Standard Asphalt Paving Co., N. 119 Post St., Spokane, $76,512.

CARMACK BRIDGE VICINITY—Removing slide on 0.113 mile PSH No. 5, Yakima County; State Project. Involves about 75,690 c.y. excavation.

LOW BIDS: Russell-Gillett Co., Box D, Cle Elum, $34,411; Tom T. Larson, Box 552, Wenatchee, $35,354; C & E Construction Co., Box 1545, Yakima, $20,789.

LABORATORY AND STORAGE BUILDING IN SPOKANE—Constructing combination and storage building and remodeling the district headquarters buildings in Spokane County; State Project.

LOW BIDS (following are base bids: Walter G. Meyers & Son, Box 5011, Spokane $84,490; Max Kuney Co., N. 120 Ralph St., Spokane, $84,500; O. M. Chaplin, 328 S. Thor Spokane, $85,530.

AERIAL PHOTOGRAPHY — Furnishing contact prints, photographic enlargements, mosaics and laboratory services under a blanket contract; State Project.

LOW BIDS: Pacific Aerial Survey, Inc., 217 9th N., Seattle, $6,025; Western Mapping Co., and Warren N. Hayner & Associates, 405 Alaska Bldg., Seattle, $6,435 (joint bid); K. B. Wood & Associates, Inc., 2623 N.W. Industrial St., Portland, $8,625.

JCT. PSH No. 18 to LARSON AIR BASE—Surfacing shoulders with light bituminous surface treatment and paving with type I-1 asphaltic concrete on 7.146 mile SSH No. 11-G, Grant County; FAP No. F-045-2(6).

LOW BIDS: McAtee & Heathe, Inc., Box 4187, Spokane, $101,899; Max J. Kuney Co., Spokane, $103,005; L. W. Vail Co., Box 847, Pasco, $112,252.

DE 5-16. Previous report 5-9

★STATE HIGHWAY PROJECT— Olympia, Wash.

Award to C. B. Croy, 2502 Lakeway Drive, Bellingham, $14,057, by Washington State Highway Commission, Olympia, on the following project:

AUSTIN CREEK BRIDGE — Reinforced concrete slab bridge on 0.011 mile Whatcom County road; FAS No. S-0766(3). Bids were opened May 8. DE 5-15. Previous report 5-11

▲SHORE FACILITIES— Olympia, Wash.

Bids received May 14 by Corps of Engineers, Seattle District, district engineer, 4735 E. Marginal Way, Seattle, for shore facilities, Olympia Reserve Fleet, Olympia, Wash.; CIVENG-45-108-56-50. LOW BIDS: General Construction Co., 3840 Iowa, Seattle, $22,000 (total schedule A, dredging and disposal of dredged material); $261,380 (item 1B-36B, removal of existing structures, clearing, stripping, excavation and miscellaneous items); $26,116 (total additive items 37B-44B, salt water fire system); $287,496 (total schedule B); $309,496 (total schedules A and B); John H. Sellen Construction Co., 228 9th Ave. N., Seattle, $34,400, $278,161, $26,240, $304,401, $338,801; Manson Construction and Engineering Co., 5209 E. Marginal Way, Seattle, $36,000, $311,307, $32,400, $343,707, $379,707. Engineer's estimates, $28,800, $195,758, $19,003, $214,761, $243,561.

GW 5-16. Previous report 5-5

SEWAGE TREATMENT PLANT— Palouse, Wash.

Bond election failed May 1 and will be held again in the fall by City of Palouse. Harold Kimball, city clerk, City Hall, Palouse, for sewers and sewage treatment plant in Palouse. SP 5-15. Previous report 4-6

●SUBSTATION ADDITION— Pasco, Wash.

Bids will be opened 2 p.m., May 29, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for construction of additions to Franklin substation, Highway U.S. 410, approximately 3 mi. east of Pasco, Franklin County, Wash.; Inv. No. 7966. Specifications with above office. $25 deposit. Bid bond 25%. Completion time 110 calendar days.

Quantities: 128 c.y. excavation; 50 c.y. reinforced concrete footings; 11,200 steel erection; steel conduit; grounding system; installation of 68 items of station equipment; removal of 3, 115 kv. pedestal with insulators and bus supports; bus and connectors; yard lighting system; 212 sq. ft. concrete sidewalk; painting 9 transformers, 3 oil circuit breakers, 18 insulator pedestals; insulating oil system; 500' safety fence.

SP 5-15

★SITE GRADING— Port Angeles, Wash.

Award to DelGuzzi Construction Co., Port Angeles, $10,370, by Port Angeles School District No. 17, Clallam County, Port Angeles, for clearing and grading at the Hamilton Elementary School site in Port Angeles. Bids opened May 4.

SP 5-12. Previous report 4-21

★**PIPE—** **Port Angeles, Wash.**

Awards announced by City Council, City Hall, Port Angeles, for 1,980' of 16" pipe and 1692' of 14" pipe, fittings and joints; 6,006' of 6" asbestos-cement pipe for Port Angeles. AWARDS—PIPE, FITTINGS AND JOINTS: Pacific States Cast Iron Pipe Co., Smith Tower, $24,327. ASBESTOS-CEMENT PIPE; Johns-Manville Co., 777 Thomas St., $9,348. Both of Seattle. SC 5-12

●**STORAGE TANK—** **Prosser, Wash.**

Bids to be opened 11 a.m., May 24, by Benton County Commissioners, Courthouse, Prosser, for furnishing the county road department with a new electrically heated 10,000 gallon capacity asphalt cement storage tank. Specifications with county engineer, Prosser. DC 5-12

★**HIGHWAY MOWER—** **Puyallup, Wash.**

Award to Howard Cooper Corp., 5055 4th Ave. S., Seattle, $3,655, by Road District No. 1, Courthouse, Tacoma, for delivering to North Puyallup one highway mower.
SP 5-12. Previous report 4-28

●**WELL, BUILDING ADDITION—** **Richland, Wash.**

Bids will be opened 2 p.m., June 11, by Atomic Energy Commission, Engineering and Supply Division, Bldg. 703, Richland, for construction of two calibration wells and a building addition in a Hanford plant area in Richland. Specifications with above office. Completion time 3 months.

Project includes construction of a wood frame building addition, 10'x30'x10', concrete floor; asbestos-cement siding shingles; two calibration wells; 14" diameter steel casing about 26' long. SP 5-15

●**ROAD EXTENSION, IMPROVEMENTS—** **Richland, Wash.**

Bids will be opened 2 p.m., June 5, by Atomic Energy Commission, Engineering & Supply Division, Bldg. 703, Richland, for extending Hains and Harris Avenues and improving Gaylord Place and a service road to the sewage treatment plant in Richland. Specifications with above office. Completion time 90 calendar days.

Project includes the following: extension of Harris Ave. ½ mile north from Newcomer St. to Wallace St.; extension of Hains Ave. about 400'; improvement of Gaylord Place from De Russy Place north to connect with Hunt Ave.; penetration type asphaltic surfacing for street improvements; asphaltic concrete and concrete for curbs, pads, walks, gutters and steps; 400' of 12" pipe; relocation of chain link fence; installation of 16' double gate. SP 5-15

●**WATER STORAGE, DISTRIBUTION ALTERATIONS—** **Richland, Wash.**

Bids will be opened 2 p.m., June 6, by Atomic Energy Commission, Engineering and Supply Division, Bldg. 703, Richland, for alterations to water storage and distribution facilities in a production area at Hanford Works, Richland. Specifications with above office. Completion time 150 calendar days.

Project includes removal of existing 100,000-gallon wood tank from 100' high steel tower; replacing wood tank with steel tank of same size, having revolving ladder on the side and balcony with handrail; removal of 75,000-gallon wood tank and 95' high steel tower from site; construction of 175' of 10" cast iron water main with two 10" gate valves, concrete anchor blocks and minor piping; electrical alterations in an existing power plant. SP 5-16

▲**PARK, PLAYGROUND IMPROVEMENTS—** **Richland, Wash.**

Bids received by Atomic Energy Commission, Engineering & Supply Division, Bldg. 703, Richland, for improving eleven park and playground areas in Richland. LOW BIDS: Farwest Construction Co., 608 W. 44th, Seattle, $9,566; Cascade Engineering Co., Palo Alto, Calif., $10,477; George A. Grant, Pasco, $15,427. Bids opened May 14.
SP 5-16. Previous report 4-25

▲**SEWER—** **Richland, Wash.**

Bids received by Atomic Energy Commission, Engineering and Supply Division, Richland, for construction of an effluent line, sewer outfall line and raw water line at two plant areas inside the Hanford barricades. LOW BID: Hoffman Construction Co., 715 S.W. Columbia, Portland, $87,600. Engineer's estimate $66,500. Bids opened May 15. SP 5-16. Previous report 4-17

▲**TEST BORINGS, ASPHALTIC CONCRETE PAVING—** **Seattle, Wash.**

Bids received May 8 by Board of Public Works, E. G. Henry, secretary, room 512, County-City Bldg., Seattle, for construction of asphalt concrete paving and test borings. TOLT RIVER; Ord. No. 84401—Test Borings: LOW BID—Lynch Bros., 3420 Stone Way, Seattle, Seattle, $9,225. ONLY OTHER BID: Western Drilling and Equipment Co., 1545 Bay St., Tacoma, $11,315. Engineer's estimate, $10,275. TAYLOR MILL—Test Boring: LOW BID—Western Drilling and Equipment Co., $792; Pacific Testing Laboratories, 3220 17th Ave. W., Seattle, $1,760. Engineer's estimate, $704. W. Walker St., Asphalt Concrete Paving; Ord. No. 84949; LID No. 6122. LOW BID: Seattle Contracting Co., 101 W. Nickerson, Seattle, $18,302. (Alternate A); $18,294 (alternate B)); ONLY OTHER BID: Pacific Construction Co., 3002 16th Ave. S., Seattle, $19,850, $20,010. Engineer's estimate $20,000 (alternate A), $19,542 (alternate B). GW 5-11. Previous report 4-28

▲**UTILITY POLES—** **Seattle, Wash.**

Bids received May 8 by Board of Public Works, E. G. Henry, secretary, room 512, County-City Bldg., Seattle, for groundline inspection and rejection of standard utility poles; Ord. No. 84609; Spec. No. 1433. Plans by City Light, Engineering Division, H. G. Silliman, chief electrical engineer, 4th Floor, Galland Bldg., 1217 2nd Ave., Seattle. LOW BIDS: Larry Ladum, Sahara Waterproofing Co., 1510 W. Galer, Seattle, $16,280; Dan Kamphausen, Continental Oil Bldg., Denver, Colo., $20,000; Warren N. Hayner & Associates, Alaska Trade Bldg., 1917 1st Ave., Seattle, $39,000.
GW 5-11. Previous report 4-27

●**STOCKPILE, CONCRETE PAVING, WATER MAINS—** **Seattle, Wash.**

Bids will be opened 2 p.m., May 23, by Board of Public Works, E. G. Henry, secretary, room 512, County-City Bldg., Seattle, for stockpiling, concrete paving and water mains, in Seattle. Plans and specifications with William E. Parker, city engineer, room 404, County-City Bldg., Seattle.

STOCKPILING—Juanita Pit Site, Ord. No. 84601: On the Bothell Road, N. of Juanita intersection: producing and stockpiling 20,000 c.y. crushed and screened materials. CONCRETE PAVING—LID No. 6108; Ord. No. 84365: Lake Washington Blvd. from Charles St. to Judkins St., and on Parkland Way from Lake Washington Blvd. S. to Lakeside Ave. S. Quantities: 780' integral curb; 2,560 sq. yd. cement concrete pavement 6" thick; 814 c.y. excavation. ALTERNATE: 2,560 sq. yd. concrete base with asphaltic concrete surfacing. WATER MAINS—ORD. No. 84636: 26th Ave. S.W. from Barton St. to S.W. 106th; 35th Ave. S.W. from S.W. 106th to S.W. 112th; S.W. 106th from 26th Ave. S.W. to 35th Ave. S.W., and W. Roxbury St. from 21st Ave. S.W. to 35th Ave. S.W. Quantities: 4,670' of 16"; 8,575' of 12"; 300' of 8" cast iron water mains; miscellaneous valves, blow-off gate valves, chambers. GW 5-12

★**LIGHTNING POLES—** **Seattle, Wash.**

Award to Salmon Bay Electric Co., 4728 Ballard Ave., Seattle, $3,349, by Corps of Engineers, Seattle District, Colonel N. A. Matthias, district engineer, 4735 E. Marginal Way, Seattle, for furnishing lightning poles for National Guard AAA gun sites, Seattle Defense Area; ENG-45-108-56-163.
GW 5-15. Previous report 5-3

★**WATER MAIN REPLACEMENT—** **Seattle, Wash.**

Award to L. G. Massart Plumbing and Heating Co., 4501 9th Ave. N.W., Seattle, $17,212, by 13th Naval District, Bureau of Yards and Docks, Rear Admiral R. H. Meads, chief of bureau, Public Works Office, room 100, Building 232, U. S. Naval Station, Seattle; for replacement of water mains, Pier 90, Seattle; NBy 2009.
GW 5-15. Previous report 5-1

●**PEDESTRIAN OVERPASS—Seattle, Wash.**

Bids will be opened 10 a.m., May 29, by City Council, Paul R. Hendricks, city purchasing agent, room 511, County-City Bldg., Seattle, for construction of a pedestrian overpass over the double track of the Great Northern Railroad, just north of Blue Ridge, on 110th, Seattle. Plans with city parks department, 100 Dexter Ave., Seattle. $10 deposit. Certified check, cashier's check or bid bond 5%. GW 5-15

▲**GAP FILLER FACILITIES—Seattle, Wash.**

Bids received May 15 by Corps of Engineers, Seattle, District, district engineer, 4735 E. Marginal Way, Seattle, for gap filler facilities at Ione, Wash.; Moyie Springs, Idaho; Eureka, Mont. ENG-45-108-56-150. LOW BID: The Timber Co., 244 Main St., Hermiston, Ore., $94,732 (schedule A-Ione); $113,580 (Schedule B—Eureka); $118,251 (Schedule C—Moyie Springs); $326,563 (Total of all schedules. Engineers estimate, $82,717, $106,874, $130,615 and $320,207.
GW 5-16. Previous report 5-10

▲**DOLPHINS—** **Seattle, Wash.**

Bids received May 14 by Corps of Engineeds, Seattle District, district engineer, 4735 E. Marginal Way, Seattle, for construction of dolphins, Sand Island Shoal and Crossover channels at Grays Harbor and Chehalis River, Wash.; CIVENG-45-108-56-47. ONLY BID: Grays Harbor Construction Co., 412 S. Park, Aberdeen, $18,910. Government estimate, $11,339. GW 5-16. Previous report 5-10

●**WATER WORKS ADDITIONS—** **Seattle, Wash.**

Bid opening extended from May 14 to 9:30 a.m., May 26, by King County Water District No. 75, Worrel L. Richter, secretary, 19863 28th Ave. S., Seattle, for water works additions. Plans with Howard T. Harstad & Associates, consulting engineers, 1000 Lenora, Seattle. $10 deposit. Certified check, cashier's check or bid bond 5%.

Quantities: Furnish and install approximately 11,250' of 12", 10", 8", 6", and 4" asbestos-cement water pipe; valves; fire hydrants and necessary appurtenances.
GW 5-16. Previous report 5-12

★**TRUCK LIFT—** **Shelton, Wash.**

Award to Oil Filter Service Co., 1216 Tacoma Ave., Tacoma, $1,133, by Mason County Commissioners, Courthouse, Shelton, for furnishing and delivering one 20,000 lb. minimum capacity two-post truck lift.
SP 5-12. Previousr eport 4-28

POWER LINE— **Spokane, Wash.**

Construction will start soon by Washington Water Power Co., W. 825 Trent, Spokane, on a 13,000 kv power line to the Conjecture mine in the Lakeview area. Clearing for the right-of-way is underway now by Laten Puckett of Bayview. A substation will be built at Lakeview where the new line to the mine will be connected to the present power line that comes from WWP's Cabinet Gorge dam. Cost of the substation and new power line is estimated at $260,000.
DC 5-4

★**DEEP WELL PUMP—** **St. John, Wash.**

Award to General Machinery, E. 3500 Riverside, Spokane, $7,028, by Bernard Robertson, clerk, Town Hall, St. John, for furnishing, installing and wiring a deep well pump. Bids opened May 7.
SP 5-12. Previous report 5-3

★**BRIDGE—** **Stevenson, Wash.**

Award to General Construction Co., Box 3860, Portland, $18,349, by Skamania County Commissioners, Courthouse, Stevenson, for treated timber bridge on Butler's Eddy Road.
WB 5-16. Previous report 4-26

★**DIVERSION TUNNEL—** **Swift Damsite, Wash.**

Award to Guy F. Atkinson Co., 10 W.

Orange Ave., South San Francisco, $1,841,315, by Pacific Power & Light Co., Paul B. McKee, president, Public Service Bldg., Portland, for drilling 2,900' diversion tunnel at Swift Hydroelectric Project, Lewis River, Skamania County, Wash., about 45 miles north of Portland.
WB 5-12. Previous report 5-8

● TOWER PAINTING— Tacoma, Wash.

Bids to be opened 11 a. m., June 4, by Board of Contracts and Awards, room 404, City Hall, Tacoma, for painting crossing towers, steel cables and dead-end towers at Narrows crossing span, Cushman transmission line. Plans with above office. Certified check 5%.
DC 5-12

● GATE VALVES— Tacoma, Wash.

Bids will be opened 11 a. m., May 21, by Board of Contracts and Awards, Clarence M. Boyle, chairman, room 404, City Hall, Tacoma, for six, 16" gate valves. Specifications with above. Bids on this project were originally called for May 14 in conjunction with motor graders.
GW 5-15. Previous report 5-3

● MOTOR GRADERS, GATE VALVES— Tacoma, Wash.

Bids received May 14 by Board of Contracts and Awards, Clarence M. Boyle, chairman, room 404, City Hall, Tacoma, for motor graders. Bids on gate valves have been extended from May 14 to May 21, 11 a. m. MOTOR GRADER — LOW GRADER — LOW BIDS: Howard Cooper Machinery Corp., 5055 4th Ave. S., Seattle, $21,214; Modern Machinery Co., Inc., 4975 3rd Ave. S., Seattle, $22,117; Murphy-Campbell Co., Seattle, $23,543.
GW 5-15. Previous report 5-3

▲ GRADING PAVING— Tacoma, Wash.

Bids received May 14 by Board of Contracts and Awards, Clarence M. Boyle, chairman, room 404, City Hall, Tacoma, for grading, asphalt paving, concrete curbs and gutters. LOW BIDS: Woodworth & Co., 1200 East D St., Tacoma, $16,460; Concrete Construction Co., 3103 S. Lawrence, Tacoma, $17,443; Kendall Construction Co., 3211 Center St., Tacoma, $18,958.
GW 5-15. Previous report 5-12

★ LANDSCAPING— Vancouver, Wash.

Award to H. L. Pearsey Co. and Pioneer Nursery, Ridgefield, $31,764, by Clark County PUD No. 1, 614 Main St., Vancouver, for landscaping about four acres of ground adjacent to PUD office building at 1200 Fort Vancouver Drive, Vancouver. Award to Ernest Ferrante & Co. had previously been announced but this bid was withdrawn due to error.
WB 5-11. Previous report 4-21

▲ SANITARY SEWERS— Vancouver, Wash.

Bids received May 7 by city purchasing agent, Robert Moisant, 712 Washington St., Vancouver, for construction of sanitary sewers; LID No. 83-S. BIDDERS: Harold E. Olds, 3111 N. 24th St., Tacoma, $19,785; Paul Ferneding, 2711 E. 27th St., Vancouver, $20,007; Don Thornton, 2809 W. 21st St., Vancouver, $22,243. WB 5-15. Previous report 5-3

■ STABILIZER REPAIR— Walla Walla, Wash.

Planholders announced for repair of existing stabilizers and constructing gauging station, Mill Creek, Walla Walla County, Wash.; CIVENG-45-164-56-64. Bids will be opened 2 p. m., May 22, by Corps of Engineers, Walla Walla District, Colonel Myron E. Page, Jr., district engineer, Bldg. 602, City-County Airport, Walla Walla.

Planholders: Lawrence P. Sowles, 8725 S.W. White Pine Lane, Portland, Ore.; George A. Grant, Box 764, Pasco; Schrader Construction Co., 3030 S.E. Hawthorne, Portland; Paul Jarvis, Inc., 4316 E. 33rd St., Seattle; Syblon-Reid Construction Co., Box 587, Warden; A. Ritchie & Co., 2102 Melrose, Walla Walla; H. C. Grendahl, Box 246, Parkwater Station, Spokane; Cherf Bros. & Sandkay, Inc., Box 938, Ephrata; Marshall Construction Co., 40 W. Ridgeway, Hermiston, Ore.; Lewis Hopkins Co., 221 S. 3rd St., Pasco; Arthur Fralick Co., 3008 E. 57th St., Seattle; Harold Kaeser Co., 3629 34th S., Seattle; Wayne Construction Co., 3810 Stone Way, Seattle; Alton V. Phillips Co., 4055 21st W., Seattle; A. P. Herman Construction Co., Box 36, Touchet Northwest Construction, Box 250, Caldwell, Idaho.
SP 5-11. Previous report 4-24

● SPUR TRACK— Walla Walla, Wash.

Bids will be opened 2 p. m., May 29, by Corps of Engineers, Walla Walla District, Bldg. 602, City-County Airport, Walla Walla, for construction of south shore spur track, Ice Harbor Lock and Dam, Walla Walla County, Wash.; CIVENG-45-164-56-69. Specifications with above office. Completion time 30 calendar days.

Project includes: transportation of approximately 90 tons or rail and track materials from McNary Dam, Ore., to spur track site; ballasting roadbed; construction of approximately 2,200' spur track.
SP 5-16

★ ROAD CONSTRUCTION— Waterville, Wash.

Award announced by Douglas County Commissioners, Courthouse, Waterville, for construction of four miles of the Waterville North road. AWARD: Lone Pine Paving & Crushing Co., north of 16th Ave., Yakima, $30,920. ONLY OTHER BID: Standard Asphalt Paving Co., Inc., N. 119 Post St., Spokane, $36,640. Bids opened May 7.
SP 5-11. Previous report 4-20

★ REPAIR RIFLE RANGE— Yakima, Wash.

Award to Mann Construction Co., Redmond, Ore., $14,680 (Items 1 and 2), by Department of Army, August F. Rediske, contracting officer, Purchasing and Contracting Office, Fort Lewis, for repair of firing points on distance rifle range, Yakima Firing Center, Yakima; AVI-45-06-56-109. Bids opened May 2.
SP 5-16. Previous report 5-1

IDAHO

★ BITUMINOUS SURFACING— Blackfoot, Idaho

Award to Carl E. Nelson Construction Co., Inc., P. O. Box 397, Logan, Utah, $61,314, by Bureau of Indian Affairs, Portland Area Office, Roads Branch, 1001 N.E. Lloyd Blvd., P. O. Box 4097, Portland, for bituminous surfacing on 8.193 mi. of highway just southwest of Blackfoot, Idaho, on Fort Hall Indian Reservation; Gibson Roads Project FHIR-602.
WB 5-16. Previous report 4-21

▲ STATE HIGHWAY PROJECTS— Boise, Idaho

Bids received May 8 by Department of Highways, E. V. Miller, highway engineer, 603 Main, Boise, on highway construction.

BINGHAM, MIDWAY, BIG LOST RIVER—Seal coating 18.545 mile U. S. Highway 20 from Bingham County line east 19.295 mile from Midway Jct. east and on 6.747 mile from Big Lost River to Midway Jct., in Bonneville, Bingham and Butte counties; State Projects Nos. HAA-6(1), HAA-6(2), ST-M-1381(504).

LOW BIDS: Holmes Construction Co., Heyburn, $59,722; Barnhart & Wheeler Con tractors, 325 Pershing Ave., Pocatello, $62,176; Robert V. Burggraf Co., Box 397, Idaho Falls, $68,006.

REEDS CORNER-WESTERLY — Resurfaring 2.934 mile and seal coating 4.169 mile Highway 20, Bonneville County; State Project No. ST-6422(501).

LOW BIDS: Twin Falls Construction Co., Box 1801, Twin Falls, $89,230; Nelson & Deppe Construction Co., 3501 Mountain View Drive, Boise, $89,266; Holmes Construction Co., Heyburn, $93,561.
SP 5-11. Previous report 4-19

● ROAD CONSTRUCTION— Boise, Idaho

Bids will be opened 2 p. m., May 25, by U. S. Forest Service, office of forest supervisor 210 Main St., Boise, for construction of Slide Gulch Road, Boise National Forest, Elmore County, Idaho; Proj. No. 91. Specifications with above office. Bid bond 5%. Completion time 60 calendar days.

Project beings at Slide Gulch Bridge on Middle Fork Boise River (above upper end of Arrowrock Reservoir) approximately 40 mi. east of Boise and follows existing road to the north edge of Smith Prairie, the Reiger Branch. Construction includes 1.81 miles of "D" standard road with a 3' ditch; reshaping of approximately 15.85 mi. of existing road to standard.

Quantities: 12.71 acres clearing and grubbing; 87,216 c.y. excavation; 558 c.y. borrow; 1,056' culvert pipe; 2, 36" metal end sections; 10 drop inlet basins; 45 c.y. loose rock riprap.
SP 5-16

★ SUBSTATIONS— Idaho Falls, Idaho

Award to Interstate Electric Co., 540 W. 7th South, Salt Lake City, Utah, $681,567, by Atomic Energy Commission, H. Noble, director, Contracts & Administration Division, Idaho Operations Office, Box 1221, Idaho Falls, for construction of substation at AIW-NRF Area at the National Reactor Testing Station, Idaho; Inv. No. AT(10-1)-818.
SP 5-11. Previous report 5-8

● DEEP WELL PUMPS— Idaho Falls, Idaho

(Estimated cost $90,000)

Bids will be opened 2 p. m., May 23, by Atomic Energy Commission, Idaho Operations Office, Box 1221, Idaho Falls, for furnishing and installing deep well pumps at MTR, NRF and ANP areas at the National Reactor Testing Station, Idaho; Inv. No. AT(10-1)-823. Specifications with above office. Bid bond 10%. Completion date December 1, 1956.
SP 5-12

● DRIVEWAY EXTENSION—Kellogg, Idaho

Bids will be opened 3 p. m., May 25, by General Services Administration, W. W. Southworth, chief of construction and repair division, room 126, Federal Office Bldg., 909 1st Ave., Seattle, for driveway extensions at the U. S. Post Office, Division St., and Portland Ave., Kellogg; Project No. CR-10-412. Plans at above address.
GW 5-12

★ CONCRETE SIDEWALKS— Mountain Home AFB., Idaho

Award to Twin City Concrete Service, Box 1041, Longview, Wash., $50,582, by Corps of Engineers, Walla Walla District, Colonel Myron E. Page, Jr., district engineer, Building 602, City-County Airport, Walla Walla, for construction of concrete sidewalks, Mountain Home AFB.; ENG-45-164-56-34.
GW 5-12. Previous report 4-10

★ WATER SYSTEM— Notus, Idaho

Awards announced by village clerk, City Hall, for extensions to the municipal water system in Notus. AWARDS—PUMP: B & M Equipment, Caldwell, $2,439. PUMPHOUSE, PIPE LINES: Crane Co., Eagle, $6,867. Bids opened May 1.
SP 5-11. Previous report 4-10

▲ STREET IMPROVEMENTS— Sandpoint, Idaho

Bids rejected as too high by City Council, City Hall, Sandpoint, for street improvements at Sandpoint. LOW BIDS—SECTION 1 (grading): M. F. Castle Co., 1053 Division St., Spokane, $74,171. SECTION 2 (curbs): Dan Deshon, 215 Pacific, Sandpoint, $37,179. SECTION 3 (cushion, wearing course): Inland Asphalt Co., 10th and Havana, Spokane, $80,176. All bids $7,633 above engineer's estimate. Bids opened May 8.
SP 5-16. Previous report 4-26

MONTANA

CURB, GUTTER— Billings, Mont.

(Estimated cost $2,710)

Hearing will be held 7:30 p. m., May 22, by City Council, City Hall, Billings, for formation of proposed SID 680, for construction of combination curb and gutter on both sides of 2400 block on 11th Ave. N., Billings.
EE 5-11

● DRAIN DITCH— Billings, Mont.

Bids will be opened 1 p. m., May 21, in

the office of Soil Conservation Service, 1245 N. 29th St., Billings, by owners of land in the Progressive Drainage Project, 8 miles east of Billings, for construction of an open drain ditch, involving about 75,000 c.y. excavation. Specifications with above office. Bid bond or certified check 10%. EE 5-15

★STORM SEWER MAINS, DRAINAGE— Billings, Mont.

Award by Yellowstone County Commissioners, L. R. Sampson, county surveyor, Courthouse Billings, for installation of storm sewer mains and draining surface waters in RSID No. 301. AWARD: Barry O'Leary Inc., 215 N. 16th St., Billings, $48,357. OTHER LOW BIDS: Studer Construction Co., West of Billings, $54,834; Holm-Sutherland Construction Co., 714 Central Ave., Billings, $59,558.

EE 5-16. Previous report 4-18

●PARKING FACILITIES, ELECTRICAL WORK— Butte, Mont.

Bids will be opened 3 p.m., P.S.T., May 31, by General Services Administration, W. W. Southworth, chief of Construction and Repair Division, room 126 Federal Office Bldg., 909 1st Ave., Seattle, for additional parking facilities and outside electrical work at U. S. Post Office and Courthouse, East Copper and N. Main St., Butte; Project No. CR-10-419. Plans with construction and repair division at above address. GW 5-16

▲TELEPHONE FACILITIES— Circle, Mont.

Bids received by Mid-River Telephone Cooperative, Inc., G. R. Thiessen, president, and Ellis Jones, manager, Circle, for rural telephone project in Circle. LOW BIDS: DeShaw's, Sidney, $41,736; Van Daveer & Co., Box 249, Billings, $42,282; A. M. Lipps Construction Co., Princeton, Minn., $43,203. Bids opened May 8.

SP 5-12. Previous report 5-2

TELEPHONE LINES— Forsyth, Mont.
(Estimated cost $120,000)

Bids will be called soon by Range Telephone Cooperative, Forsyth, on outside plant construction involving new pole line, wire, cable, wire joint use and approximately 210 stations in the exchange areas of Rosebud and Ashland, Mont. Staking has already been started by the phone company. Plans by General Engineers, Box 630, Missoula.

DM 5-15

★LIFT STATION WET WELL— Great Falls, Mont.

Award to Fred B. Dudley, 1001 9th Ave. N., Great Falls, $2,973, by Fred L. Hill, city clerk, Civic Center, Great Falls, for construction of lift station wet well at 6th S.W. in Great Falls. SP 5-12. Previous report 5-5

●BROOM MOTOR PICKUP SWEEPER— Great Falls, Mont.

Bids will be opened 8 p.m., May 21, by Fred L. Hill, city clerk, Civic Center Bldg., Great Falls, for furnishing one new single gutter broom motor pickup sweeper, not less than 3 c.y. capacity, 170 gal. water tank, single rear wheel sttering and enclosed cab. One Elgin Model 20-S, 1938, serial No. JXD-591020 to be accepted as trade-in and may be inspected at 900 1st Ave. S., Great Falls. Specifications with above office. SC 5-15

●PIPE— Helena, Mont.

Bids will be opened 10 a.m., May 25, by Henry J. Rolfes, Jr., city manager, Civic Center Bldg., Helena, for furnishing cast iron pipe and fittings for city water works department in Helena. Specification with above office. LS 5-16

●STATE HIGHWAY PROJECTS— Helena, Mont.

Bids to be opened 9:30 a.m., June 4, by Montana Highway Commission, Frank G. Connelly, chairman, Helena, on 11 construction projects. Plans with Scott P. Hart, state highway engineer, Helena. Certified or cashier's check or bid bond 5%.

SEAL COAT OILING—On 50.701 mile of various roads as follows: F 148(9) U2, Great Falls, Armington Road, Cascade County; F 148(6) U2 and F 155(7) U2, The Saco East and Glasgow West Road, Valley County; F 211(11) U2, Dutton southeast section of Vaughn-Conrad Road, Cascade and Teton counties; F 220(6) U2, Cut Bank East and West Road, Glacier County; F 69(10) U2 and F 248(11) U2, Whitehall section of Pipestone Pass-Whitehall and the Tree Forks-Whitehall roads, Jefferson County; F 265(5) U2, The Townsend-White Sulphur Springs Road, Broadwater and Meagher counties.

LITTLE BIG HORN BRIDGES—Two 156' steel and concrete bridges over Little Big Horn River on Crow Agency-Hardin and Wyoming line-Crow Agency Road, Big Horn County; I-FI 188(7) U2, and I-IN212(12) U2.

Quantities: 156,834 lb. reinforcing steel; 838.4 c.y. concrete; 720 c.y. structure excavation; 60,480 lb. steel bearing piles.

PABLO FEEDER CANAL BRIDGE—Steel and concrete, 82' bridge on Polson-South section of Pablo-Kalispell road, Lake County; F 191(16) U2.

Quantities: 40,042 lb. reinforcing steel; 153 c.y. concrete; 160.46' steel bridge rail.

BILLINGS ROAD—Grading, gravel surfacing, plantmix oiling, draining 0.598 mile on Billings East Road, 0.705 mile on First Ave. south, N. 13th St. and Fourth Ave. north-Billings Roads, Yellowstone County; U 230(6) and U 386(4).

Quantities: 38,599 c.y. unclassified excavation; 7,655 ton plantmix bituminous surfacing; 53,256 ton crushed gravel.

GRASS RANGE-MALTA ROAD—Grading, gravel surfacing, draining 11.279 mile in Phillips County; F 333(17).

Quantities: 912,837 c.y. unclassified excavation; 37,318 mi. yd. overhaul; 81,292 ton crushed gravel.

LANE - LAMBERT SECTION — Grading, gravel surfacing, bituminous surface treatment, draining 10.781 mile Circle-Sidney Road, Richland County; F 391(3).

Quantities: 496,730 c.y. unclassified excavation; 30,817 mi. yd. overhaul; 35,283 ton crushed gravel; 154,676 ton select borrow base course.

CHESTER NORTHWEST ROAD—Grading, gravel surfacing, draining 7.628 mile in Liberty County; S 94(3).

Quantities: 85,328 c.y. unclassified excavation; 1,865 mi. yd. overhaul; 196 c.y. gravel backfill; 18,891 c.y. select borrow base course; 27,367 ton crushed gravel.

JUDITH GAP - EAST ROAD — Grading, gravel surfacing, draining 4.878 mile in Wheatland County; S 174(2).

Quantities: 215,484 c.y. unclassified excavation; 327 c.y. gravel backfill; 22,498 mi. yd. overhaul; 31,138 ton crushed gravel.

GALATA NORTH ROAD—Grading, gravel surfacing, draining 10.395 mile in Toole County; S 188(1).

Quantities: 115,407 c.y. unclassified excavation; 4,191 mi. yd. overhaul; 45,932 ton crushed gravel.

PRESSERVILLE - G I R A R D - FAIRVIEW ROAD—Grading, gravel surfacing, draining five mile in McCone County; S 190(2) U1.

Quantities: 128,822 c.y. unclassified excavation; 5,488 mi. yd. overhaul; 29,093 ton crushed gravel.

ROEBUD CREEK BRIDGE—Steel and concrete, 110' bridge near Roscoe on Red Lodge-Columbus Road, Carbon County; S 289(4) U2.

Quantities: 48,108 lb. reinforcing steel; 247.3 c.y. concrete; 217.34' steel bridge rail; 195 c.y. structure and 430 c.y. unclassified excavation. DM 5-12

●PAVING, CURBS, GUTTERS— Helena, Mont.

Bids will be opened 9:30 a.m., May 28, by Henry J. Raffes, Jr., city manager, Civic Center, Helena, for paving and construction of curbs and gutters in SID No. 198, in Helena. Plans with Morrison & Maierle, consulting engineers, 910 Helena Ave., Helena. LS 5-15

RAILROAD— Malta, Mont.
(Estimated cost $500,000)

Construction is underway by Sandkay Contractors, Inc., 103 12th S.W., Ephrata, for straightening curves on the Great Northern Railway between Malta and Coburg. Equipment and heavy machinery were unloaded early in May by the contractors, at Wagner, 10 miles west of Malta. Elimination of curves will entail construction of about 6½ miles of new grade with new rails, ties and ballast as well as moving the GN telegraph and telephone lines. Sandkay will construct the grade, and R. N. Rasmussen of Everett, Wash., will supervise the job for the railroad. After the grade is completed the new steel, ballast and tie-laying will be done by GN crews. All material used will be new. Approximately 300,000 c.y. of dirt will be moved for the grade. DC 5-12

●WATER STORAGE— Miles City, Mont.

Bids will be opened 2 p.m., May 22, by Corps of Engineers, Seattle District, 4735 E. Marginal Way, Seattle, for construction of a 35,000-gallon concrete water storage ank and piping at Miles City, Mont.; ENG-45-108-56-182. Plans with district engineer at above address. Bid bond 20%. This project was originally advertised under Inv. No. ENG-45-108-56-162. No bids were received at the opening May 7.

GW 5-12. Previous report 5-8

●ROAD CONSTRUCTION—Missoula, Mont.

Bids will be opened 2 p.m., May 29, by Department of Agriculture, U. S. Forest Service, Procurement and Supply Division, 1036 Federal Bldg., Missoula, for construction including one bridge and grading of 1.639 miles roadway, Swan Lake Project, Lake County, Mont.; Proj. No. 129. Specifications with above office. Bid bond 5%. Completion time 200 calendar days.

Quantities: 12 acre clearing and grubbing; 35,326 c.y. excavation; 218,000 sta. yd. overhaul; 400 units subgrade watering; 8.9 c.y. concrete, class A; 543 lb. reinforcing steel; all required structural steel; 1,440' treated timber piling; 424' of 18"; 64' of 24" corrugated metal pipe; 60 c.y. loose riprap.

●ACCESS ROAD— Yaak, Mont.

Bids will be opened 2 p.m., June 15, by U.S. Air Force, Procurement Office, C. S. Phelps, contracting officer, Geiger Field, Spokane, for repairing access road at the 680th AC&W Squadron in the vicinity of Yaak; IFB 45-614-56-77. Specifications with above office. Bid bond 20%. CE 5-15

WYOMING

★STEAM POWER PLANT—Glenrock, Wyo.
(Estimated cost $22,000,000)

Several contracts have been awarded by Portland General Electric Co., Paul B. McKee, president, Public Service Bldg., Portland, for equipment and other work in connection with a 100,000 kw. steam-electric generating plant to be located 5 miles east of Glenrock on North Platte River. Actual construction is expected to start in fall of 1956. Ebasco Services, Inc., is in charge of design and managing construction. The plant will use an estimated 400,000 tons of coal per year from deposit to be developed by the company immediately north of the plant location. Plant will be modern "outdoor type" installation, with a single large generator. Water from North Platte River will provide water for boilers and for cooling. Estimated cost includes fuel development and transmission line connections. Plant to start operation in fall of 1958. CONTRACTS: Exploration drilling in coal—Morrison-Knudsen Co., Boise; Evitt Drilling Co., Casper, Wyo.; aerial mapping of coal area and plant site—Ryall Engineering Co., Denver; ground topographic mapping of plant site in connection with coal area—Worthington & Lenhart, Casper; consulting geologist—Florent Bailey, Petroleum Engineers Associates, Pasadena, and Wyoming Natural Resources Research Institute, Laramie; 100,000 kw. turbine-generator and related transformers—General Electric Co.; boiler, 1450 psi/1000°/1000°—Babcock & Wilcox; condensor—Ingersoll-Rand; structural steel—Gate City Steel Co., Omaha.

WB 5-11. Previous report 2-9

★PIPE, FITTINGS— Sheridan, Wyo.

Award to Denver Mine and Supply Co., Denver, Colo., $6,077, by City Council, C. Harold Campbell, city clerk, Sheridan, for furnishing 2,500' of 6" mechanical joint, class 150, cast iron water pipe and miscellaneous fittings. Bids opened May 7.

LY 5-12. Previous report 4-20

UTAH

●ROAD CONSTRUCTION— Ogden, Utah

Bids will be opened 10 a.m., May 22, by Bureau of Public Roads, K. S. Chamberlain, division engineer, room 473, Federal Bldg., Ogden, for construction work on 17.649 miles of Panguitch-Panguitch Lake road, Garfield County, Utah; FHP 36-A1, B1. Specifications with above office. Bid bond 5%. Completion time 120 calendar days.

Quantities: 111 c.y. unclassified excavation; 1,912 ton cut-back asphalt; 2,500 ton cover aggregate for seal coat; 44,364 ton pavemen; 19.1 ton bituminous additive; 90' arched culvert pipe. SP 5-11

▲DIVERSION DAM— Ogden, Utah

Bids received by Bureau of Reclamation, C. D. Wood, project manager, Box 387, Ogden, for Slaterville diversion dam and Layton pump intake channel, Weber Basin Project, near Ogden; Spec. No. DC 4662. Following bids include alternates B (with sheet pile cutoff) and C (with cement-bound pile curtain). BIDS RECEIVED: Mountain States Construction Co., 35 E. 4th South, Bountiful, $458,587 (A+C); Foley Bros., Inc., 900 New York Bldg., St. Paul, Minn., $532,645 (A+B) $21,835 (A+C); Hilton & Carr Construction Co., 922 12th St., Ogden, $617,688 (A+B); A. S. Horner Construction Co., 118 S. Pecos, Beaver, Colo., $577,285 (A+B), $564,615 (A+C). Bids opened May 8.

SP 5-12. Previous report 3-28

●WATER SYSTEM— Salt Lake City, Utah

Bids will be opened 10:30 a.m., June 7, by Salt Lake City Commission, Roy W. McLeese, city engineer, City-County Bldg., Salt Lake City, for construction of a water treatment plant, sedimentation basins, chemical house and chlorination plant in Salt Lake City. $25 deposit. Bid bond 5%.

GH 5-16

ALASKA

▲BRIDGE PAINTING— Anchorage, Alaska

Low bids announced for the painting of three Matanuska River Bridges Nos. 147.1, 147.4 and 147.5, by Alaska Railroad, Irvin P. Cook, chief engineer, Anchorage. LOW BIDS: H. & S. Contractors, Box 1808, Mount View, $13,750; Alaska Decorators, 414 6th Ave., Anchorage, $17,949; Andrew Nesheim, 9711 191st S.W., Edmonds, Wash., $18,711. Bids were opened May 2 and held under advisement. GW 5-11. Previous report 4-26

MUNICIPAL PORT— Anchorage, Alaska

Special election be held May 29 by City Council on $6,800,000 revenue bond issue to finance construction of a deep-sea port for Anchorage. Harold Strandberg, chairman of Port Commission, has urged authorization be made for the use of the $6,800,000 along with $2,000,000 in general obligation bonds already voted for.

DC 5-12. Previous report 12-22

●PUMP HOUSE— Anchorage, Alaska

Bids to be opened 10 a.m., P.S.T., June 13, by Alaska Public Works, John D. Argetsinger, acting director, in the mailroom, 123 W. 3rd St., Juneau, for construction of a pump house in Anchorage; Proj. Aaa 50-A-157, Unit 6. Plans with the acting director, Box 1181, Juneau. $25 deposit. Certified check or bid bond 5%.

Pump house for an existing water well, repairs, testing and developing the well, installing 620' cast iron pipe, miscellaneous work. JU 5-16

▲STEEL TOWER, TOWER LIGHTING— Tok Junction, Alaska

Bids received May 10 by Alaska Communication System, U. S. Army Signal Corps, A. C. Muttart Contracting Officer, 4735 E. Marginal Way, Seattle, for installation of 100' vertical steel tower, ground system and tower lighting at Tok Junction, Alaska; DA-45-041-56-sc-16. LOW BIDS: Ray E. Aldergon, Alaska Mile 1360, Fairbanks, $3,920; Fairbanks Builders, Inc., Fairbanks, $5,474; Pacific Construction Co., Box 1051, Fairbanks, $6,600. GW 5-11. Previous report 4-13

▲ROAD IMPROVEMENTS— Juneau, Alaska

Single bids were received by Alaska Road Commission, Juneau, on two road improvement projects. McLaughlin, Inc., Box 1824, Great Falls, Mont., was the only bidder at $77,040 on Richardson Highway improvements and Valdez city paving; Green Construction Co., Des Moines, Iowa, was only bidder at $7,508 on paving at Glenallen repeater station. DC 5-12

■BRIDGES— Juneau, Alaska

Planholders announced for construction of Klutina, Tonsina River and Moose Creek bridges at M. 101 and M. 79, Richardson Highway, and M. 186.2, Glenn Highway, in Alaska. Bids will be opened 11 a.m., May 22, by Alaska Road Commission, A. F. Ghiglione, director, room 319, Federal Bldg., Juneau.

Planholders: Arctic Welding Co., Box 14, Cordova; American Bridge, 309 S.W. 6th Ave.; H. G. Dato, Box 258, Cordova; West Coast Steel Works, 5609 N.E. 77th Ave., Portland, Ore.; Northern Corp., Box 2011, Anchorage; B-E-C-K Constructors, 3647 Stone Way, Seattle; Bethlehem-Pacific Coast Steel Corp., Box 3147, Terminal Station, Seattle; Poole McGonigle & Dick, 6330 N.W. Halsey St., Portland; Swita Construction Co., Inc., Box 297, Mountain View; David Nygren, 309 Lloyd Bldg., Seattle; Standard Steel Fabricating Co., Inc., 8155 1st Ave. S., Seattle; American Bridge, 208 La Salle St., Chicago, Ill.; H. Elechsing, 637 S. Higgins, Missoula, Mont.; J. J. Badraun Co., 109 N. 122nd St., Seattle; Pacific Car & Foundry Co., 120 W. Hudson St., Seattle; Don H. Clark, 2511 E. 17th St., Anchorage; Peter Kiewit Sons' Co., 1300 Aloha St., Seattle; Stock & Grove, Inc., Box 2051, Anchorage; Morrison-Knudsen, Inc., Box 320, Anchorage; M. P. Hunter Co., 1428 Joseph Vance Bldg., Seattle; M. B. Gilbrough Co., 12556 Bothell Way, Seattle; Independent Iron Works, 8th and Pine Streets, Oakland, Calif.; Isaacson Iron Works, Box 3625, Zone 24, Seattle; Swalling Construction Co., Inc., Box 1036, Anchorage; Louis Elterich Co., Port Angeles, Wash.; S. S. Mullen, 621 9th Ave. N., Seattle; Green Construction Co., 9285 Securities Bldg., Seattle; Screw Machine Products Co., 7737 N.E. Killingsworth, Box 7497, Portland; Joe Lundberg Construction Co., 3420 13th S.W., Seattle; McLaughlin, Inc., Box 1632, Anchorage; Pacific Construction Co., Box 1051, Fairbanks; West Coast Wood Preserving Co., 411 Seneca St., Seattle; Reed & Martin, Inc., Box 568, Fairbanks. JU 5-12. Previous report 4-24

■STREET, SEWER IMPROVEMENTS— Juneau, Alaska

Planholders announced for street and sewer improvements in Juneau; Proj. Aaa 50-A-146. Bids will be opened 10 a.m., May 23, by Alaska Public Works, John D. Argetsinger, acting director, 123 W. 3rd St., Box 1181, Juneau.

Planholders. Cole & Paddock, Box 616, Juneau; Lemon Creek Sand & Gravel, 1735 Glacier Ave., Juneau; Century Metal Works, 7126 W. Marginal Way, Seattle; H. C. Hayes, Box 1136, Douglas; Peter Kiewit Sons' Co., 1300 Aloha St., Seattle; Berg Construction Co., Box 276, Juneau.

JU 5-12. Previous report 4-17

●BITUMINOUS SURFACING— Juneau, Alaska

Bids to be opened 11 a.m., June 12 by Alaska Road Commissioner, A. F. Ghiglione, director, room 319, Federal Bldg., Juneau for new bituminous surfacing on Alaska Highway, Section A1, B2 located between mile 1385 and mile 1314 from about 4½ miles west of Johnson River to Tok Junction; 54.95 mile of seal coat on above new paving and on existing surfacing in section B 2; placing gravel base, bituminous surfacing on streets belonging to Alaska Communication System at Tok Junction. Plans with ARC, Box 1961, Juneau. No deposit. Bid guarantee 5%.

Quantities—Bid Schedule No. 1; Reconstruction, bituminous surface repair and new bituminous surfacing between about mile 1385 and mile 1314 involving 44,000 c.y. unclassified excavation; 63,000 c.y. borrow; 45,000 ton crushed gravel base course; 11,000 ton plantmix. Bid Schedule No. 1; Sealing all new paving proposed above and all remaining penetration type bituminous surfacing in B2 portion of the contract, a total length of 54.95 miles of seal coat, involving 7,100 ton cover aggregate; 860 ton asphalt. Bid Schedule No. 3; Placing gravel base and bituminous surfacing on streets belonging to Alaska Communication System at Tok Junction involving 1,700 ton crushed gravel base course; 620 ton plantmix. Completion time 270 calendar days. DM 5-16

●GRADING— Juneau, Alaska

Bids to be opened 9 a.m., June 11 by Bureau of Public Roads, C. F. Wyller, district engineer, room 419 Federal Bldg. (Box 1511), Juneau for grading 2.029 miles Alaska Forest Development Road No. 153, Snug Harbor, Chugach National Forest, adjacent to Alaska Forest Highway Project 5-A6,B4, Kenai River Highway. Plans with district engineer.

Quantities: 13.5 acres clearing; 9 acres grubbing; 27,000 c.y. unclassified excavation; 22,500 c.y. borrow; 3,500 c.y. pit stripping; 1,098' culvert pipe. DM 5-16

▲HIGHWAY— Juneau, Alaska

Bids received May 15 by Alaska Road Commission, room 319, Federal Bldg., Juneau, for grading, gravel base course, plantmix bituminous paving on section D1 of Richardson Highway between Paxson and Black Rapids, about mile 189 to mile 225. LOW BIDS: McLaughlin, Inc., Box 1632, Anchorage, $1,163,610; Green Construction Co., 321 Locust St., Des Moines, Iowa, $1,284,080; Rogers Construction Co. and Babler Bros., 610 C St., Anchorage, $1,437,477.

JU 5-16. Previous report 5-12

■WATER MAINS— Ketchikan, Alaska

Planholders announced for water main installations in Ketchikan; Project Aaa 50-A-210. Bids will be opened 10 a.m., June 6, by Alaska Public Works, John D. Argetsinger, acting director, Office of Territories, 123 W. 3rd St., Box 1181, Juneau.

Planholders: Empire Construction Co., Box 898, Ketchikan; Furuseth & Ekness, Box 593, Ketchikan; Scheumann & Johnson, Annette Island, Ketchikan; Empire Construction Co., 0234 S.W. Bancroft, Portland, Ore.; Scheumann & Johnson, 1001 Lloyd Bldg., Seattle; Inlet Plumbing & Heating, Box 3095, Fairview, Anchorage; City Electric of Anchorage, 2921 13th Ave. S.W., Seattle; Hallgren Co., 1252 1st Ave. S., Seattle; Beallе Pipe & Tank Corp., 12005 N. Burgard St., Portland; W. D. Burk, Box 1618, Anchorage, Century Metal Works, 7126 W. Marginal Way, Seattle; Pacific Water Works Supply, 2900 1st Ave. S., Seattle; Southern Pipe & Casing Co., Box C, Azusa, Calif.

JU 5-12. Previous report 5-1

●■STREET, SEWER, WATER SYSTEM IMPROVEMENTS— Petersburg, Alaska

Bid date extended from May 23 to 10 a.m., June 6, by Alaska Public Works, John D. Argetsinger, acting director, 123 W. 3rd St., Box 1181, Juneau, for street, sewer and water system improvements in Petersburg; Pro. Aaa 50-A-19. Specifications with above office.

Planholders: Berg Construction Co., Box 276, Juneau; Empire Construction Co., 0234 S.W. Bancroft, Portland, Ore.; Hallgren Co., 1252 1st Ave. S., Seattle; Joe Lundberg Construction Co., 3420 13th S.W., Seattle; Johns-Manville, 777 Thomas St., Seattle; Empire Construction Co., Box 898, Ketchikan; Inlet Plumbing & Heating, 642 E. "I" St., Anchorage; B-E-C-K Construction, 3627 Stone Way, Seattle; Scheumann & Johnson, 1001 Lloyd Bldg., Seattle; Pacific Water Works Supply Co., 2900 1st Ave. S., Seattle; H. D. Fowler Co., Box 3084, Seattle; Stock & Grove, Box 2051, Anchorage; Beallе Pipe & Tank, 12005 N. Burgard St., Portland; Century Metal Works, 7126 W. Marginal Way, Seattle; Stock & Grove, Box 1091, Petersburg; Manson-Osberg Co., 1132 N. 128th St., Seattle; Federal Pipe & Tank, 6851 E. Marginal Way, Seattle; Stoen Construction Co., 2210 E. 95th St., Seattle; Southern Pipe & Casing, Box C, Azusa, Calif. JU 5-12. Previous report 4-20

Advertisements for Bids

Advertisements reaching us not later than Wednesday noon will appear the same week.

THE RATE for Advertisements for Bids is 35 cents per line for the first insertion; 25 cents per line for each insertion thereafter.

ELEMENTARY SCHOOL
BIDS CLOSE 8 P.M., MAY 23
Bay Center, Washington
NOTICE TO CONTRACTORS

Sealed bids will be received by the undersigned at the Bay Center Elementary School Building, Bay Center, Washington, until 8:00 p.m. on May 23, 1956 for the construction of an elementary school building for Bay Center School District No. 22, Bay Center, Washington. The building consists of four classrooms, a book room, office, boys' and girls' toilet rooms, storage rooms, janitor and boiler room, kitchen, and multipurpose unit including stage and storage room; employing tilt-up reinforced concrete construction. Combined bids will be received for general construction, plumbing and heating, and electrical. Plans and specifications may be obtained from the office of Charles A. Baylon, Architect, 912 Elliott Avenue West, Seattle 99, Washington, upon deposit of $25.00 which sum will be returned to the bidder provided plans are returned in good condition with submitted bid, or provided plans are returned within five (5) days after issue if no bid is submitted. Plans and specifications may be examined at the office of Charles A. Baylon and Associates at the above address.

Each bid shall be accompanied by a certified check, cashier's check, or bid-bond (with authorized surety company as surety) made payable to the Bay Center School District No. 22 in an amount not less than 5% of the basic bid plus alternates. Board of Directors of Bay Center School District No. 22 reserves the right to waive any informalities or irregularities in any bid or in the bidding, or to accept or reject any or all bids. Bid opening shall be public.

No bidder may withdraw his bid after the hour set for the opening thereof or before award of the contract unless said award is delayed for a period exceeding thirty (30) days.

Edwin R. Stearns
Clerk of the Board
Bay Center School District No. 22
Bay Center, Washington

5451—5-3, 10, 17

ELEMENTARY SCHOOL
BIDS CLOSE 3 P.M., MAY 29
Enumclaw, Washington
NOTICE TO CONTRACTORS

Sealed bids will be received by Mr. Albert Bogdan, Clerk of Board of School, Enumclaw School District No. 216 at the Superintendent's office at the Enumclaw High School, 2222 Porter Street, Enumclaw, Washington, until 3 p.m., Tuesday, May 29th, 1956, for the construction of J. J. Smith Elementary School Building, Enumclaw, Washington, for School District No. 216, Enumclaw, King County, Washington, and will then and there be opened and will be publicly read aloud. Bids received after the time fixed for opening will not be considered.

Specifications, including contract documents, and drawings may be examined at the office of the Architect, William Aitken, 408 Marion Street, Seattle 4, Washington, and at the office of the Superintendent of the Enumclaw School District No. 216, at Enumclaw, Washington, and may be obtained by bona fide bidders at the Architect's office upon deposit of $25.00 for each General Work set and $10.00 for each set of Mechanical and/or Electrical Work. Contractors who hold bidding documents over forty-eight hours shall forfeit deposit if bid is not tendered.

The full amount of the deposit for one set of documents will be refunded to actual bidders upon return of the documents, unmutilated and without marks or annotations, within 3 days after the time set for opening of bids. Other deposits will be refunded with deductions for the actual cost of reproducing the documents.

Bidders shall submit proposals for the General, Plumbing and Heating, and Electrical Work separately. Each bid must be accompanied by a certified check, cashier's check, or bid bond, in an amount not less than 5% of the Base Bid, made payable to the Enumclaw School District No. 216.

The right is reserved to reject any or all bids and to waive informalities.

No bidder may withdraw his bid after the time set for the opening of bids unless the award of contract is delayed for a period exceeding 30 days.

By order of Board of Directors, Enumclaw School District No. 216, King County, Washington.

MR. ALBERT BOGDAN,
Clerk of Board.

5461—5-9, 16, 23

EARTHWORK, PIPELINES, STRUCTURES
BIDS CLOSE JUNE 21
Ephrata, Washington
NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-4691) will be received at Kennewick, Washington, until June 21, 1956, for furnishing labor and materials for Earthwork, Pipe Lines and Structures for Main Canal Laterals, Station 1325+00 to Station 2206+06.6; and Amon Pump Discharge Line and Laterals, Yakima Project, Washington. Location near Kennewick, Washington. Principal items are 39,000 cu. yds. excavation and backfill of pipe trenches; 18,500 cu. yds. excavation for laterals; 77,700 lin. ft. furnishing and laying 8- to 15-inch diameter concrete irrigation pipe; 15,000 lin. ft. furnishing and laying 12- to 24-inch diameter concrete pressure pipe; and other work. The work is divided into two schedules. Completion time 240 days. For particulars, address Bureau of Reclamation, P. O. Box 516, Kenewick, Washington; or Building 53, Denver Federal Center, Denver 2, Colorado W. A. Dexheimer, Commissioner.

5457—5-19

ELEMENTARY SCHOOL
BIDS CLOSE 2 P. M., JUNE 5
Bellevue, Washington
NOTICE TO CONTRACTORS

Separate sealed proposals will be received by Bellevue School District No. 405, King County, Washington, at the Bellevue School District Office, P. O. Box 67, Bellevue, Washington, until 2:00 P. M., June 5, 1956, for the General, Mechanical and Electrical contracts (separate contracts), for the construction of a new Highland Elementary School, and the said proposals will then and there be publicly opened and read aloud. Bids received after the time set for opening cannot be considered.

Specifications and drawings may be examined at the office of the Architects, Jones and Bindon, 715 Hoge Building, Seattle 4, Washington, and at the Seattle Chapter, Associated General Contractors of America, 215 West Harrison Street, Seattle, and may be obtained at the Architects' office upon deposit of $25.00 for each set of general drawings and specifications and $15.00 for each set of mechanical or electrical drawings and specifications.

The full amount of deposit for one set of documents will be refunded to actual prime contract bidders upon return of the documents, unmutilated and without marks or annotations, within one week after the date of the bid opening. Other deposits will be refunded with deductions for the actual cost of reproducing the drawings, under the same conditions.

Each bid must be accompanied by a certified or bank cashier's check, or by a bid bond, each in an amount not less than 5% of the Base Bid, made payable to Bellevue School District No. 405, King County, Washington. Bid bond must be furnished in the form set forth in the specifications with a State-licensed surety company as surety.

Attention of bidders is directed to State laws concerning wages, working hours, and other conditions of employment.

The Board of Directors reserves the right to reject any or all bids and to waive informalities. No bidder may withdraw his bid after the hour set for the opeing thereof unless and until the award of contract has been delayed for a period exceeding forty-five (45) days.

By GEORGE B. BRAIN,
Superintendent.
Bellevue School District No. 405,
Bellevue, Washington.

5474—5-16, 23, 29

STATE HIGHWAY PROJECTS
BIDS CLOSE 10 A.M., MAY 29
Olympia, Washington
NOTICE TO CONTRACTORS

Sealed bids will be received by the Washington State Highway Commission at Olympia, Washington, on Tuesday, May 29, 1956, until 10:00 A.M. for the construction of the following improvements and will then and there be opened and publicly read:

1. Clearing, Draining, Grading, Surfacing, Constructing a Cement Treated Base and Paving with Type I-1 Aspshaltic Concrete on 3.980 miles of Primary State Highway No. 5 in Lewis County, ETHEL TO SALKUM, FAP No. F-016-1(6), involving about 27,200 cubic yards of Common Excavation, 63,400 tons of Selected Roadway Borrow, 47,600 tons of Crushed Stone Surfacing and Crushed Cover Stone, 10,475 tons of Aspshaltic Concrete, 84 tons of Asphalt Cement, 770 cubic yards of Mineral Aggregate, 5,850 tons of CTB Aggregate, 1,575 barrels of Portland Cement, 921 linear feet of Concrete Pipe, 106 Guide Posts and other items.
2. Clearing, Draining, Grading, Surfacing with Light Bituminous Surface Treatment and Paving with Type I-1 Asphaltic Concrete on 4.386 miles of Secondary State Highway No. 15-B in Snohomish County, KING COUNTY LINE TO HASKELL'S SLOUGH, FAS No. S-0225(3) Unit 2, involving about 38 acres of Clearing, 189,170 cubic yards of Common Excavation and Borrow, 1,600 cubic yards of Solid Rock Excavation, 32,400 units of Overhaul, 40,000 tons of Selected Roadway Borrow, 14,330 tons of Crushed Stone Surfacing, 181 tons of Asphalt Cement, 1,560 cubic yards of Crushed Cover Stone and Mineral Aggregates, 10,480 tons of Asphaltic Concrete, 3,620 linear feet of Asphaltic Concrete Curb, 240 cubic yards of Concrete, 46,240 pounds of Steel Reinforcing Bars, 3,474 linear feet of Concrete Pipe, 635 linear feet of Corrugated Metal Pipe, 405 linear feet of Iron Pipe, 1,577 linear feet of Beam Guard Rail (State Furnished), 149 Guide Posts, 30 cubic yards of Riprap and other items.
3. Surfacing with Light Bituminous Surface Treatment and Stockpiling Ballast, Crushed Stone Surfacing, Maintenance Rock and Mineral Aggregates on 5.751 miles of Secondary State Highway No. 1-Q in Lewis and Cowlitz Counties, KNAB VICINITY TO CEDAR CREEK

AND JCT. SSH NO. 1-R TO LEWIS COUNTY LINE, FAS No. S-0258(3) and State Project, involving about 38,990 tons of Selected Roadway Borrow, 46,280 tons of Crushed Stone Surfacing, Crushed Cover Stone Maintenance Rock and Mineral Aggregates, 172 tons of Asphalt Cement, 72 linear feet of Concrete Pipe and other items.

4. Surfacing with Light Bituminous Surface Treatment and Paving with Type I-1 Asphaltic Concrete on 17.194 miles of Primary State Highways Nos. 10 and 2 in Douglas and Okanogan Counties, TONASKET TO ELLISFORD, ET AL, FAP Nos. F-029-2(11), F-028-2(5), F-030-1(11) and State Project, involving about 12,970 tons of Crushed Stone Surfacing and Crushed Cover Stone, 526 tons of Asphaltic Cement, 12,290 tons of Asphaltic Concrete and other items.
5. Draining, Grading, Surfacing, Paving with Type I-1 Asphaltic Concrete and Constructing a Reinforced Concrete Box Girder Bridge on 0.044 miles of Primary State Highway No. 14 in Kitsap County, OLD PSH NO. 14 OVERCROSSING, FAP No. F-009-1(4), involving about 300 cubic yards of Common Excavation, 160 cubic yards of Selected Roadway Borrow, 5 cubic yards of Crushed Stone Surfacing, 80 tons of Asphaltic Concrete, 30 linear feet of Corrugated Metal Pipe, 13 Guide Posts, 785 cubic yards of Concrete, 185,000 pounds of Steel Reinforcing Bars, 4,000 linear feet of Concrete Piling and other items.
6. Draining, Grading and Surfacing with Crushed Stone on 5.034 miles of a Lincoln County Road, ADAMS COUNTY LINE NORTH ROAD, FAS No. S-0723 (3), involving about 74,190 cubic yards of Common Excavation and Borrow, 49,000 tons of Crushed Stone Surfacing and Crushed Cover Stone, 500 tons of Sand, 923 linear feet of Corrugated Metal Pipe, 56 linear feet of Corrugated Metal Structural Plate Pipe-arch and other items.
7. Surfacing with Light Bituminous Surface Treatment on 6.390 miles of a Douglas County Road, LEAHY NORTH ROAD, FAS No. S-1125(1), involving about 10,400 cubic yards of Selected Roadway Borrow, 8,500 cubic yards of Crushed Stone Surfacing and Crushed Cover Stone, 260 tons of Asphalt Cement and other items.
8. Clearing, Draining, Grading, and Surfacing with Selected Roadway Borrow on 5.236 miles of an Okanogan County Road, TWISP RIVER ROAD, FAS No. S-1149(1), involving about 77,950 cubic yards of Unclassified Excavation, 17,280 cubic yards of Selected Roadway Borrow, 34 cubic yards of Concrete, 3,000 pounds of Steel Reinforcing Bars, 465 linear feet of Steel Pipe, 1,240 linear feet of Corrugated Metal Pipe, 6 linear feet of Concrete Pipe, 170 cubic yards of Riprap and other items.
9. Draining and Grading on 3.559 miles of an Okanogan County Road, SALMON CREEK ROAD, FAS No. S-1145(1), involving about 53,530 cubic yards of Unclassified Excavation, 60 linear feet of Corrugated Structural Plate Pipe-arch, 16 linear feet of Corrugated Metal Pipe, 930 linear feet of Concrete Pipe and other items.
10. Clearing, Draining and Grading for Shoulder Widening on 1.761 miles of an Okanogan County Road, CHESAW ROAD, FAS No. S-0495(3), involving about 20,200 cubic yards of Unclassified Excavation, 27 linear feet of Concrete Pipe, 702 linear feet of Corrugated Metal Pipe and other items.
11. Draining, Grading, Surfacing, Paving with Type I-1 Asphaltic Concrete and Stockpiling Crushed Stone Surfacing, Maintenance Rock and Mineral Aggregates on 0.577 mile of State Highways Nos. 5 and 5-K in Lewis County, TOWN OF MORTON, a State Project, involving about 2,700 cubic yards of Common Excavation, 32,420 tons of Crushed Stone Surfacing, Ballast, Maintenance Rock and Mineral Aggregates, 2,010 tons of Asphaltic Concrete, 110 cubic yards of Mineral Aggregates, 13 tons of Asphalt Cement, 3,381 linear feet of Cement Concrete Curb and Gutter, 5 cubic yards of Concrete, 5,450 linear feet of Concrete Pipe, 30 linear feet of Iron Pipe, 806 square yards of Cement Concrete Sidewalk and Driveway and other items.
12. Grading, Surfacing, Constructing a Cement Treated Base and Paving with Type I-1 Asphaltic Concrete on 1.784 miles of Primary State Highways Nos. 1 and 9 in Thurston County, STATE AVENUE IN OLYMPIA, ET AL, a State Project, involving about 6,800 cubic yards of Unclassified Excavation, 4,650 cubic yards of Selected Roadway Borrow, 120 cubic yards of Crushed Stone Surfacing, 8,300 tons of Asphaltic Concrete, 39 tons of Asphalt Cement, 1,500 barrels of Portland Cement, 7,250 tons of CTB Aggregate and other items.
13. Surfacing with Light Bituminuos Surface Treatment and Stockpiling Mineral Aggregates on 10.038 miles of Primary State Highway No. 3 in Asotin County, ROCKY HOLLOW TO TOP OF ASOTIN HILL, a State Project, involving about 102,465 tons of Crushed Stone Surfacing, Ballast, Maintenance Rock, Crushed Cover Stone and Mineral Aggregates, 323 tons of Asphalt Cement and other items.
14. Stockpiling Maintenance Rock and Mineral Aggregates on State Highways Nos. 2, 10 and 10-B in Douglas County, PINE CANYON TO DOUGLAS, ET AL, a State Project, involving about 5,165 cubic yards of Stripping Borrow and Surfacing Pits and 55,945 tons of Crushed Materials.
15. Cleaning and Painting CHEHALIS RIVER BRIDGE NO 13/1 on Primary State Highway No. 13 in Grays Harbor County, a State Project, involving a lump sum bid for the Entire Improvement.
16. Constructing an Office and Shop Building in Lincoln County, OFFICE AND SHOP BUILDING IN DAVENPORT, a State Project, involving a lump sum bid for the Entire Improvement.

Federal funds have been allocated for items nos. 1 to 10 inclusive.

All bid proposals shall be accompanied by a bid proposal deposit in cash, certified check, cashier's check or surety bond in an amount equal to five per cent (5%) of the amount of such bid proposal. Should the successful bidder fail to enter into such contract and furnish satisfactory performance bond within the time stated in the specifications, the bid proposal deposit shall be forfeited to the State of Washington.

Prequalification of bidders is required. Maps, plans and specifications may be obtained from this office upon written request therefor and payment to the Director of Highways by cash, certified check, cashier's check or money order in the sum of two dollars ($2.00) for each copy of such maps, plans and specifications as a rental for the use of them. Plans will be forwarded by First Class Mail.

Information copies of maps, plans and specifications are on file in the office of the County Engineer of the County in which the work is situated, the Chapter offices of the Associated General Contractors of America in Seattle, Spokane, Tacoma and Portland and the offices of the District Engineers of the Department of Highways where they may be inspected.

E. C. HUNTLEY, Chairman
W. A. BUGGE, Director of Highways

5464—5-12, 19

ELEMENTARY SCHOOL ADDITION
BIDS TO BE RECEIVED UNTIL 5 P.M. OPENED AT 8 P.M., MAY 29
Spokane, Washington
NOTICE TO CONTRACTORS

Sealed bids will be received by F. A. Long, Architect until 5:00 P.M., May 29, 1956, for the construction of the Otis Orchards Elementary School Addition, and will be publicly opened and read aloud at 8:00 P.M. same date at the Otis Orchards Primary School. Bids received after 5:00 P.M. will not be considered.

Work will be awarded under General Construction, Plumbing and Heating, and Electrical.

Plans and Specifications and forms of Contract Documents may be examined at the office of the Architect, Frederic A. Long, 500 Columbia Building, Spokane, and a set of said documents may be obtained at the office of the Architect upon a deposit of $25.00.

Each bid shall be accompanied by a Certified Check, Cashiers Check, or Bid Bond made payable to Otis Orchards School District No. 348, for five percent of the amount of the Bid.

School District No. 348 reserves the right to reject any or all bids and to waive informalities.

No bidder may withdraw his bid after 5:00 P.M., May 29, 1956, or before award of Contract unless said award is delayed for a period exceeding thirty days.

By order of the Board of Directors.

Charles H. Stafford
Clerk

5467—5-12, 15, 22

GRADING, DRAINAGE, BITUMINOUS SURFACING
BIDS CLOSE 11 A. M., JUNE 5
Juneau, Alaska
NOTICE TO CONTRACTORS

SEALED BIDS, in single copy for furnishing all labor, equipment, and materials and performing all work for the project described herein will be received until 11:00 a.m., June 5, 1956, in Room 319, Alaska Road Commission Offices, Federal Building, Juneau, Alaska, and then publicly opened.

Plans and specifications for the project may be obtained from the Alaska Road Commission, P. O. Box 1961, Juneau, Alaska. Plans should be returned to the Alaska Road Commission District Office, Anchorage, Alaska. No deposit will be required, but if plans are not returned in good condition within thirty days after date of bid opening, the planholder will be billed for the actual cost of the plans.

A guarantee of not less than five percent (5%) of the total amount bid will be required with each bid.

Grading, drainage and bituminous surfacing of 29.28 miles of the Sterling Highway. Principal items of work include 1,143,000 cu. yds. Unclassfied Excavation, 466,000 cu. yds. Unclassified Excavation for Borrow, 117,000 ton crushed gravel base course, 37,200 ton Class F Pavement Plant Mixture.

Work shall be started within 30 calendar days after date of receipt of Notice to Proceed and shall be completed within 476 calendar days after date of Notice to Proceed.

The attention of bidders is directed to the invitation for bids by the Department of Commerce, Bureau of Public Roads, Juneau, Alaska, for the construction of Alaska Forest Highways Project 5-A6, B4, Kenai River Highway, to be opened at the same time and place as bids for Sterling Highway, Section B2. Bid invitation for both projects provide for offering a percentage or lump sum reduction in the total amounts to be paid under each contract if both contracts are awarded to the same bidder. Bidders are invited to execute the certificates on the bid schedules providing for such reduction, but no bid will be rejected solely for failure to do so. Information concerning Bureau of Public Roads Alaska Forest Highways Project 5-A6, B4, may be secured from Mr. Chr. F. Wyler, District Engineer, Bureau of Public Roads, P. O. Box 1511, Juneau, Alaska.

A. F. Ghiglione
Director

5462—5-12, 19

WATER SUPPLY
BIDS CLOSE 10 A.M., P.S.T., JUNE 6
Ketchikan, Alaska
NOTICE TO CONTRACTORS

Project Aaa. 50-A-210, Water Supply Unit 2, Ketchikan, Alaska, April 25, 1956. Name and location of project, Water Supply, Project Aaa. 50-A-210, Unit 2, Ketchikan, Alaska Department or Agency, Alaska Public Works, Office of Territories, Department of the Interior, by (Issuing office) John D. Argetsinger, Acting Director, Alaska Public Works, Office of Territories, Department of the Interior, Post Office Box 1181, Juneau, Alaska. Sealed bids in single copy for furnishing all labor, equipment, and materials and performing all work for the project

described herein will be received until 10:00 A.M. Pacific Standard Time June 6, 1956 in the mailroom of the office of the Acting Director, Alaska Public Works, Office of Territories, Department of the Interior, 123 West Third Street, P. O. Box 1181, Juneau, Alaska, and then publicly opened and read aloud. Information regarding bidding material, bid guarantee, and bonds follows:

Plans and specifications and other proposed contract documents are open for public inspection at the Acting Director's office, Juneau, Alaska; at Room 2723, Interior Bldg., Washington 25, D. C.; at the Area Engineer's office, Alaska Public Works, Room 309 Federal Bldg., Ketchikan, Alaska; and Associated General Contractors of America offices as follows: Seattle Chapter, Construction Center, 215 West Harrison St., Seattle, Wash.; Mountain Chapter, 220 W. Harrison St., Seattle, Wash.; Tacoma Chapter, 452 St. Helens Ave., Tacoma, Wash.; Portland Chapter, Suite 112, Multnomah Hotel, Portland, Oregon; Alaska Chapter, 306 Central Building, Anchorage, Alaska also the Plan Bureau, 2413 Western Ave., Seattle, Wash.; and the Builders Exchange Cooperative, 317 Builders Exchange Bldg., Portland, Oregon. A set of such documents may be procured from the office of the Acting Director at Juneau, Alaska, upon deposit of $25.00, all of which will be refunded upon the return of the plans and specifications in good condition **within** twenty (20) days from date of bid opening. Each bid must be accompanied by a satisfactory bid security (certified check or bid bond) in an amount not less than 5 percent of the total bid in dollars and cents. No bid will be withdrawn until thirty days after the scheduled closing date for the receipt of bid. The successful bidder will be required to furnish a performance bond and payment bond, each in the amount of 100 per cent of the contract price. The Government reserves the right to award a contract for the project on the basis of the acceptance of any or all of the alternates, whichever course is in the best interest of the Government.

DESCRIPTION: Project Aaa. 50-A-210, Unit 2, Water Supply, Ketchikan, Alaska. Water main installations in the City of Ketchikan, Alaska, including 372 L.F. 4" pipe, 1917 L.F. of 6" pipe, 460 L.F. of 10" pipe, 1826 L.F. of 16" pipe, four fire hydrants, valves, fittings and other necessary appurtenances. Alternates are provided for steel, cast iron, and asbestos cement pipe. Information regarding liquidated damages (if any), payments, etc., is attached or made a part of the specifications. Bids shall be submitted on the forms furnished or copies thereof.

5452—5-5, 12, 19

HOUSING, MAINTENANCE FACILITIES

BIDS CLOSE 10 A.M., MAY 29

Olympia, Washington

NOTICE TO CONTRACTORS

Sealed bids will be received by the Washington State Highway Commission at Olympia, Washington, on Tuesday, May 29, 1956, until 10:00 A.M., for the construction of the following improvement and will then and there be opened and publicly read:

1. Constructing Duplex Housing Units and Maintenance Facilities for District No. 3, a State Project, consisting of five base bids as follows:

BASE BID No. 1

Constructing Duplex Housing Units and/or Maintenance Facilities in AMANDA PARK, KALALOCH, FORKS and POTLATCH in Grays Harbor, Jefferson, Clallam and Mason Counties, respectively.

BASE BID No. 2

Constructing a Duplex Housing Unit and Maintenance Shed at AMANDA PARK in Grays Harbor County, and/or

BASE BID No. 3

Constructing a Duplex Housing Unit and Maintenance Shed at KALALOCH in Jefferson County, and/or

BASE BID No. 4

Constructing a Maintenance Shed at FORKS in Clallam County, and/or

BASE BID No. 5

Constructing a Maintenance Shed at POTLATCH in Mason County.

All work for this improvement is combined into one set of plans and specifications which contains a common proposal.

Bidders who are satisfactorily prequalified shall have the option of submittting proposals on any one or all of the base bids, except that when submitting a proposal on Base Bid No. 1 a bidder may also submit proposals on Base Bids Nos. 2 to 5, inclusive. The Director of Highways reserves the right to accept or reject the lowest bid on each base bid which gives the lowest total cost to the State.

Prequalification of bidders is required. Plans and specifications may be obtained from this office upon written request therefor and payment to the Director of Highways by cash, certified check, cashier's check or money order in the sum of two dollars ($2.00) for each such set of plans and specifications as a rental for the use of them. Plans will be forwarded by first class mail.

Bidders who may not be prequalified in sufficient amount to bid on the entire improvement, namely Base Bid No. 1, shall indicate in their application for plans and specifications the particular section or sections upon which they desire to bid.

Each bid proposal shall be accompanied by a bid proposal deposit in cash, certified check, cashier's check or surety bond in an amount equal to five percent (5%) of the total of Base Bid No. 1 or of any combination of Base Bids Nos. 2 to 5, whichever is the greater. Should a successful bidder fail to enter into such a contract and furnish a satisfactory performance bond within the time stated in the specifications, the bid proposal deposit shall be forfeited to the State of Washington.

Informational copies of plans and specifications are on file in the Chapter Offices of the Associated General Contractors of America in Seattle, Tacoma and Portland, Oregon and the office of the District Engineer of the Department of Highways in Olympia where they may be inspected.

E. C. HUNTLEY, Chairman
W. A. BUGGE, Director

5463—5-12, 19

CONSTRUCTION, REPAIR TIMBER BRIDGES

BIDS CLOSE MAY 29

Lindsay, California

NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-4684) will be received at Lindsay, California until May 29, 1956, for furnishing labor and materials for Construction of Timber Operating Bridge, Station 3607+00 and Repair and Reconstruction of Timber Operating Bridges, Station 3769+68.60 and Station 5165+80, Friant-Kern Canal, Central Valley Project, California. Location near Tulare, California. Principal items are 100 cu. yds. excavation; 1,970 lin. ft. furnishing and driving timber piles; 3.9 Mbm furnishing and erecting treated timbers in structures; 109.0 Mbm furnishing and erecting untreated timbers in structures; and other work. Completion time 150 days. For particulars, address Bureau of Reclamation, P. O. Box 2511, Sacramento 11, California; or Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.

5448—5-5

SCHOOL BUILDING

BIDS CLOSE 8 P.M., MAY 29

Seattle, Washington

NOTICE TO CONTRACTORS

Separate sealed proposals will be received by Shoreline School District No. 412, King County, Washington, at the Shoreline School District Office East 158th Street and 20th Avenue N.E., Seattle 55, Washington, until 8:00 P.M., May 29, 1956, for the General, Mechanical, and Electrical contracts (separate contracts), for the construction of a new Meridian Elementary School, and the said proposals will then and there be publicly opened and read aloud. Bids received after the time set for opening cannot be considered.

Specifications and drawings may be examined at the office of the Architects, Jones and Bindon, 715 Hoge Building, Seattle 4, Washington, and at the Seattle Chapter, Associated General Contractors of America, 215 West Harrison Street, Seattle, and may be obtained at the Architects' office upon deposit of $25.00 for each set of general drawings and specifications and $15.00 for each set of mechanical or elctrical drawings and specifications.

The full amount of deposit for **one set** of documents will be refunded to **actual** prime contract bidders upon return of the documents, unmutilated and without marks or annotations, within one week after the date of the bid opening. Other deposits will be refunded with deductions for the actual cost of reproducing the drawings, under the same conditions.

Each bid must be accompanied by a certified or bank cashier's check, or by a bid bond, each in an amount not less than 5% of the Base Bid, made payable to Shoreline School District No. 412, King County, Washington, bid bond must be furnished in the form set forth in the specifications with a State-licensed surety company as surety.

Attention of bidders is directed to State laws concerning wages, working hours, and other conditions of employment.

The Board of Directors reserves the right to reject any or all bids, and to waive informalities. No bidder may withdraw his bid after the hour set for the opening thereof, unless and until the award of contract has been delayed for a period exceeding thirty (30) days.

By Myron Ernst, Secretary
Shoreline School District No. 412
East 158th Street and 20th Ave. N.E.
Seattle 55, Washington

5454—5-8, 15, 22

STATE HIGHWAY PROJECTS

BIDS CLOSE 9:30 A.M., JUNE 4

Helena, Montana

NOTICE TO CONTRACTORS

Sealed bids on the following projects will be received by the Montana Highway Commission at the offices of said Commission in the City of Helena until 9:30 A.M., on June 4, 1956. The proposals will be publicly opened and read immediately thereafter.

1. **F 64(9)U2, F 148(6)U2 & F 155(7)U2, F 211 (11)U2 & F 220 (6)U2, F 69(10)U2 & F 248 (11)U2, F 264(5)U2** Seal coat oiling of 50.701 miles on various roads.

F 64(9)U2—Great Falls-Armington Road in Cascade County. This portion of the project is under the supervision of Ben B. Briscoe, Division Construction Engineer at Great Falls.

F 148(6)U2 & F 155(7)U2—The Saco East and Glasgow West Road in Valley County. This portion of the project is under the supervision of Gerald Flemming, Division Construction Engineer at Wolf Point.

F 211(11)U2—The Dutton Southeast section of the Vaughn-Conrad Road in Cascade and Teton Counties. This portion of the project is under the supervision of Ben B. Briscoe, Division Construction Engineer at Great Falls.

F 220(6)U2—The Cut Bank East and West Road in Glacier County. This portion of the project is under the supervision of A. G. Middleton at Havre.

F 69(10)U2 & F 248(11)U2—The Whitehall Section of the Pipestone Pass-Whitehall and the Three Forks-Whitehall Roads in Jefferson County. This portion of the project is under the supervision of Lewis M. Chittim, Division Construction Engineer at Butte, Montana.

F 264(5)U2—The Townsend-White Sulphur Springs Road in Broadwater and Meagher Counties. This portion of the project is under the supervision of Glenn Learn, Division Construction Engineer at Lewistown.

This work involves about 9,908 tons hauling and placing cover material; 224,959 gals. MC-5 Liquid Asphalt; 308 hours watering; 386 units rolling, and other items. Project to be completed by September 15, 1956.

2. **I-FI 188(7)U2, & I-IN 212(12) U2**—Construction of two 156.0' steel and concrete bridges over the Little Big Horn River on the Crow Agency Hardin & Wyoming Line-Crow Agency Road in Big Horn County, involving about 156,834 lbs. reinforcing steel; 838.4 cu. yds. concrete; 619.0 lin. ft. steel bridge rail; 720 cu. yds. structure excavation; 2,040 cu. yds. unclassified excavation;

60,480 lbs. furnishing steel bearing piles; 783 lin. ft. driving steel bearing piles, and other items. Project to be completed by July 31, 1957.

3. **F 191(16)U2**—Construction of a 82.0' steel and concrete bridge over Pablo Feeder Canal on the Polson-South section of the Pablo-Kalispell road in Lake County, involving about 40,042 lbs. reinforcing steel; 153.9 cu. yds. concrete; 160.46 lin. ft. steel bridge rail, and 16 each 25' concrete piles. Project to be completed by October 31, 1956.

4. **U 230(6) & U 386(4)**—Grading, gravel surfacing, plant mix oiling and drain about 0.598 mile on the Billings East Road and 0.705 mile on the First Avenue South North 13th Street and Fourth Ave. North-Billings Road both in Yellowstone County, involving about 38,559 cu. yds. unclassified excavation; 7,655 tons plant mix bituminous surfacing; 53,256 tons crushed gravel; 1,217 M gals. watering; 292 units rolling; 111,705 gals. 100-120 Penetration Asphalt Cement; 15,395 gals. MC-1 liquid asphalt; 12,391.2 lin. ft. concrete integral curb and gutter; 1418.6 lin. ft. special concrete curb; 4,820.0 lin ft. new concrete sewer pipe, and other items. Project to be completed by September 15, 1957.

5. **F 333(17)**—Grading, gravel surfacing and drain 11.279 miles on the Grass Range-Malta Road in Phillips County, involving about 912.837 cu. yds. unclassified excavation; 1,755 cu. yds. gravel backfill; 37,318 mi. yds. overhaul; 1,906 cu. yds. binder; 3,812 mi. yds. overhaul on binder; 81,292 tons crushed gravel; 15,270 M. gals. watering; 2,225 units rolling; 2,502 lin. ft. corrugated metal pipe culverts; 1,718 lin. ft. structural plate pipe arch culverts, and other items. Project to be completed in 290 calendar days.

6. **F 391(3)**—Grading, gravel surfacing, bituminous surface treatment and drain 10.781 miles on the Lane-Lambert section of the Circle-Sidney road in Richland County, involving about 496,730 cu. yds. unclassified excavation; 30,817 mi. yds. overhaul; 35,283 tons crushed gravel; 154,676 tons selected borrow base course (uncrushed); 64,201 gals. MC-2 liquid asphalt; 64,201 gals. RS-2 emulsified asphalt; 11,190 M gals. watering; 1,900 units rolling; 2,895 lin. ft. corrugated metal pipe culverts; 974 lin. ft. structural plate pipe culverts, and other items. Project to be completed by September 15, 1957.

7. **S 94(3)**—Grading, gravel surfacing, and drain 7.628 miles on the Chester Northwest Road in Liberty County, involving about 85,328 cu. yds. unclassified excavation; 1,865 mi. yds. overhaul; 196 cu. yds. gravel backfill; 18,981 cu. yds. selected borrow base course (uncrushed); 27,367 tons crushed gravel; 910 cu. yds. binder; 1,825 mi. yds. overhaul on binder; 2,190 M gals. watering; 1,250 lin. ft. corrugated metal pipe culverts, and other items. Projects to be completed by October 31, 1956.

8. **S-174(2)**—Grading, gravel surfacing and drain 4.878 miles on the Judith Gap-East Road in Wheatland County, involving about 215,484 cu. yds. unclassified excavation; 327 cu. yds. gravel backfill; 22,498 mi. yds. overhaul; 31,138 tons crushed gravel; 664 cu. yds. binder; 1,328 mi. yds. overhaul on binder; 3,835 M. Gals. watering; 1,306 lin. ft. reinforced concrete pipe culverts; 351 lin. ft. structural plate pipe culverts, and other items. Project to be completed by October 31, 1956.

9. **S 188(1)**—Grading, gravel surfacing, and drain 10.395 miles on the Galata North Road in Toole County, involving about 115,407 cu. yds. unclassified excavation; 54 cu. yds. gravel backfill; 4,191 mi. yds. overhaul; 45,-932 tons crushed gravel; 2,620 M gals. watering; 1,415 cu. yds. binder; 2,830 mi. yds. overhaul on binder; 2,056 lin. ft. corrugated metal pipe culverts; 60 lin. ft. structural plate pipe culverts, and other items. Project to be completed in 150 calendar days.

10. **S 190(2) U1**—Grading, gravel surfacing, and drain 5.000 miles on the Presserville-Girard-Fairview Road in McCone County, involving about 128,822 cu. yds. unclassified excavation; 54 cu. yds. gravel backfill; 5,488 mi. yds. overhaul; 29,093 tons crushed gravel; 2,500 M. Gals. watering; 145 units rolling; 672 cu. yds. binder; 1,344 mi. yds. overhaul on binder; 832 lin. ft. corrugated metal pipe culverts; 60 lin. ft. structural plate pipe culverts, and other items. Project to be completed by October 31, 1956.

11. **S 289(4) U2**—Construction of one 110.0' steel and concrete bridge over Rosebud Creek near Roscoe on the Red Lodge-Columbus road, in Carbon County, involving about 48,108 lbs. reinforcing steel, 247.3 cu. yds. concrete; 217.34 lin. ft. steel bridge rail; 195 cu. yds. structure excavation; 430 cu. yds. unclassified excavation. Project to be completed by October 31, 1956.

The above listed quantities are approximate only.

All bid proposals shall be accompanied by a certified or cashier's check, cash, postal money order, bank money order, or bid bond in the amount of at least 5% of the bid. Should the successful bidder fail to enter into his contract and furnish a satisfactory performance bond within the time stated in his proposal, the bid deposit shall be forfeited to the State Highway Commission of Montana.

Prequalification of bidders at least 72 hours prior to the opening of bids is required.

Plans, specifications, forms of contract and bond, proposal blanks, and full instructions are on file for examination and may be obtained at the offices of the State Highway Commission in Helena, Montana. Plans and specifications for all Federal Aid Projects are also on file and may be examined in the office of the Bureau of Public Roads at Missoula.

Frank G. Connelly, Chairman
Scott P. Hart, State Highway Engineer

5466—5-19, 26

CONSTRUCTION MATERIALS
BIDS CLOSE 10:30 A. M., MAY 22
Suntrana, Alaska
NOTICE TO CONTRACTORS

The Department of Education, Territory of Alaska, Juneau, Alaska, announces the invitation to bid on the furnishing of construction materials for school building at Suntrana, Alaska.

Interested bidders may obtain specifications and bid forms at room 318, Alaska Office Building, or by writing to Box 1841, Juneau, Alaska.

Sealed bids will be received until 10:30 A. M., May 22, 1956, and then publicly opened.

The right is reserved to reject any and all bids.

Don M. Dafoe,
Commissioner of Education.

5456—5-4, 8, 15

DAM AND ACCESS ROAD
BIDS CLOSE JUNE 1
Santa Maria, California
NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-4676) will be received at Santa Maria, California, until June 1, 1956, for furnishing labor and materials for Vaquero Dam and Access Road, Santa Maria Project, California. Location near Santa Maria, California. Principal items are 7,150,000 cu. yds. excavation; 5,400,000 cu. yds. embankment; 23,600 cu. yds. concrete; and other work. Completion time 900 days. For particulars, address Bureau of Reclamation, Santa Maria, California; or Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.

5444—5-5

RAILROAD AND HIGHWAY SIPHON
BIDS CLOSE MAY 28
Red Bluff, California
NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-4688) will be received at Red Bluff, California, until May 28, 1956, for furnishing labor and materials for Railroad and Highway Siphon, Corning Canal, Station 34+93 to Station 39+50, Sacramento Canals Unit, Central Valley Project, California. Location near Red Bluff, California. Principal items are 17,000 cu. yds. excavation; 211 cu. yds. concrete; 235 lin. ft. 102-inch concrete pipe; 83 lin. ft. tunnel, 132-inch steel-plate lined; and other work. Completion time 180 days. For particulars, address Bureau of Reclamation, P. O. Box 752, Red Bluff, California; or Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.

5446—5-5

EARTHWORK, STRUCTURES
BIDS CLOSE JUNE 14
Ephrata, Washington
NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-4696) will be received at Ephrata, Washington, until June 14, 1956, for furnishing labor and materials for Earthwork, and Structures for EL68D Wasteway Drainage System, East Low Canal Wasteways, Columbia Basin Project, Washington. Location near Othello, Washington. Principal items are 220,000 cu. yds. excavation; 117,300 cu. yds. compacting embankments and backfill; 7,160 cu. yds. riprap and rock backfill; 1,140 cu. yds. concrete in structures; and other work. Completion time 230 days. For particulars, address Bureau of Reclamation, P. O. Box 368, Ephrata, Washington; or Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.

5465—5-19

SCHOOL ADDITION
BIDS CLOSE 8 P. M., MAY 23
Silverdale, Washington
NOTICE TO CONTRACTORS

General construction; plumbing, heating and ventilation; and electrical work.

Sealed bids will be received by the Board of Directors, Central Kitsap School District No. 401, at Silverdale, Washington, in the school district office at Silverdale, Washington, until May 23, 1956, 8:00 P. M., for the construction of an **addition to Silverdale Elementary School** and will be then publicly opened and read aloud. Bids received after the time fixed for opening cannot be considered. Project aided by State of Washington. Project 145-15-3057.

Specifications, including contract documents and drawings may be examined at the office of the architect, Branch & Branch, 2616 East 11th Street, Bremerton, Washington, and at the various plan depositories and at the office of the school district at Silverdale, Washington, and may be obtained at the architect's office upon deposit of $25 for each set.

The full amount of the deposit for one set of documents will be refunded to actual bidders upon return of the documents, unmutilated and without marks or annotations, or within 5 days after receiving documents.

Each bid must be accompanied by a certified check, cashier's check or bid bond not less than 5 per cent of the base bid, made payable to Central Kitsap School District No. 401.

The right is reserved to reject any or all bids and to waive informalities.

No bidder may withdraw his bid after the time set for the opening thereof, unless the award of contract is delayed for a period exceeding 30 days.

By order of:
RUTH J. STERNEMAN
Clerk
Central Kitsap School District No. 401
Silverdale, Washington

5449—5-1, 8, 15

GRADING
BIDS CLOSE 9 A. M., JUNE 11
Juneau, Alaska
NOTICE TO CONTRACTORS

DEPARTMENT OF COMMERCE, BUREAU OF PUBLIC ROADS, May 14, 1956. SEALED BIDS will be received at the office of Chr. F. Wyller, District Engineer, Bureau of Public Roads, Room 419, Federal Building, P. O. Box 1511, Juneau, Alaska, until 9 A. M. on June 11, 1956, and then publicly opened for furnishing the materials and performing the work for constructing 2.029 miles Grading, Alaska Forest Development Road No. 153, Snug Harbor, Chugach National Forest, Third Judicial Division, Territory of Alaska, located adjacent Alaska Forest Highway Project 5-A6, B4, Kenai River Highway, involving 13.5 acres clearing, 9 acres grubbing, 27,000 C.Y. excavation unclassified, 22,500 C.Y. Borrow, 3500 C.Y. pit stripping, 1098 lin. ft. culvert pipe and other small

items. Plans and specifications may be examined on or after May 21, 1956, at the Bureau of Public Roads, 419 Federal Building, Juneau, Alaska; Bureau of Public Roads, Seward, Alaska; Associated General Contractors of America, Multnomah Hotel, Portland, Oregon; Associated General Contractors of America, 304-306 Central Building, Anchorage, Alaska; or Associated General Contractors of America, 220 W. Harrison Street, Seattle, Washington. Plans, proposal forms and specifications will be furnished to any bona fide or previously qualified contractor on or after May 21, 1956, by the District Engineer, Room 419 Federal Building, P. O. Box 1511, Juneau, Alaska, upon request. Chr. F. Wyller, District Engineer.

5473—5-15, 22, 29

MULTIPURPOSE BUILDING, ALTERATIONS

BIDS CLOSE 8 P. M., P.S.T., MAY 29

Sultan, Washington

NOTICE TO CONTRACTORS

Notice is hereby given that the Sultan School District No. 314 will receive sealed bids up to 8 P. M., P.S.T., May 29, at Sultan Elementary School on Date Street, Sultan, Washington, at which time all bids will then and there be opened and publicly read aloud for the Sultan Elementary School multipurpose building and alterations.

Each bid shall be in accordance with the plans, specifications, and other contract documents now on file with Ralph Burkhard, architect, 2120 S.W. 152nd Street, Seattle 66, Washington, where copies may be obtained upon furnishing a deposit of $50.00 for each set. Deposit will be refunded upon the return of plans and specifications in good condition on the above date.

Each bid shall be made out on a bid form to be obtained from the architect.

Each bid must be accompanied by a certified check, Cashier's Check, or a satisfactory bid bond in favor of Sultan School District No. 314 executed by the bidder and a surety company in an amount equal to 5 per cent of the bid.

Each proposal shall be sealed and addressed to the clerk of the board of Sultan School District No. 314, and the name of the project plainly written on the outside of the package.

Sultan School District No. 314 reserves the right to reject any or all bids and to waive minor informalities.

No bidder may withdraw his bid after the hour set for the opening thereof, unless the award of contract is delayed for a period exceeding thirty days.

Signed: MELVIN CLAUSEN,
Superintentdent.

5458—5-5, 12, 19

BITUMINOUS SURFACING

BIDS CLOSE 11 A.M., JUNE 12

Juneau, Alaska

NOTICE TO CONTRACTORS

SEALED BIDS, in single copy for furnishing all labor, equipment, and materials and performing all work for the project described herein will be received until 11:00 a.m., June 12, 1956, in Room 319, Alaska Road Commission offices, Federal Building, Juneau, Alaska, and then publicly opened.

Plans and specifications for the project may be obtained from the Alaska Road Commission, P. O. Box 1961, Juneau, Alaska. Plans should be returned to the Alaska Road Commission District Office, Fairbanks, Alaska. No deposit will be required, but if plans are not returned in good condition within thirty days after date of bid opening, the planholder will be billed for the actual cost of the plans.

A guarantee of not less than five percent (5%) of the total amount bid will be required with each bid.

Bid schedule No. 1 consists of reconstruction, bituminous surface repair and new bituminous surfacing between about Mile 1385 and Mile 1314. Principal items of work are: Unclassified Excavation, 44,000 cubic yards; Borrow, 63,000 cubic yards; Crushed Gravel Base Course, 45,000 tons; Plant Mixture, 11,000 tons.

Bid Schedule No. 2 consists of sealing all new paving proposed above, and all remaining penetration-type bituminous surfacing on the B2 portion of the contract, a total length of 54.95 miles of seal coat. Principal items of work are: Cover aggregate, 7,100 tons; Asphalt, 860 tons.

Prospective bidders are advised that the Government has limited funds available for the contract as a whole, and that if the total successful low contract bid price exceeds the funds available, the right is reserved to either reject Bid Schedule No. 2 in its entirety, consisting of 59.15 miles of bituminous seal, or to reduce the length; provided that if the length is reduced an increment of not less than 20 miles of seal, located at the easterly end of Alaska B2, will be included in the contract. Additional increments will be added to the easterly 20 miles as funds permit.

Bid Schedule No. 3 consists of placing gravel base and bituminous surfacing on streets belonging to the Alaska Communication System at Tok Junction. Principal items of work are: Crushed Gravel Base Course, 1,700 tons; Plant Mixture, 620 tons.

All work shall be completed within 270 calendar days after date of receipt of Notice to Proceed.

A. F. Ghiglione
Director

5470—5-19, 26

GARAGE, POWER HOUSE

BIDS CLOSE 11 A.M., JUNE 12

Juneau, Alaska

NOTICE TO CONTRACTORS

SEALED BIDS, in single copy for furnishing all labor, equipment, and materials and performing all work for the project described herein will be received until 11:00 a.m., June 12, 1956, in Room 319, Alaska Road Commission, Federal Building, Juneau, Alaska, and then publicly opened.

Plans and specifications for the project may be obtained from the Alaska Road Commission, P. O. Box 1961, Juneau, Alaska. Plans should be returned to the Alaska Road Commission District Office, Anchorage, Alaska. No deposit will be required, but if plans are not returned in good condition within thirty days after date of bid opening, the planholder will be billed for the actual cost of the plans.

A guarantee of not less than five percent (5%) of the total amount bid will be required with each bid.

Constructing at Naknek, Alaska, a garage and power house, consisting of two (28'x80' and 12'x20') wood frame buildings with steel roof girders, finished inside and out with plywood, concrete floors, and insulated with glass wool. The work includes installation of equipment and drilling a water well. The Government will furnish at the site all building materials required except concrete aggregate.

Work shall be started within 30 calendar days after date of receipt of Notice to Proceed and shall be completed within 246 calendar days after date of Notice to Proceed.

A. F. Ghiglione
Director

5469—5-19

ELEMENTARY SCHOOL

BIDS CLOSE 10 A.M., P.S.T., JUNE 13

Anchorage, Alaska

NOTICE TO CONTRACTORS

Project Aaa. 50-A-144, Talkeetna Elementary School, Anchorage, Alaska. May 10, 1956. Talkeetna Elementary School, Project Aaa. 50-A-144, Anchorage, Alaska. Alaska Public Works Office of Territories, Department of the Interior (by (Issuing office) John D. Argetsinger, Acting Director, Alaska Public Works, Office of Territories, Department of the Interior, Post Office Box 1181, Juneau, Alaska. Sealed bids in single copy for furnishing all labor, equipment, and materials and performing all work for the project described herein will be received until 10:00 A.M., Pacific Standard Time, June 13, 1956, in the mailroom of the office of the Acting Director, Alaska Public Works, Office of Territories, Department of the Interior, 123 West Third Street, P. O. Box 1181, Juneau, Alaska, and then publicly opened, and read aloud. Information regarding bidding material, bid guarantee, and bonds follows: Plans and specifications and other proposed contract documents are open for public inspection at the Acting Director's office, Juneau, Alaska; at Room 2723, Interior Bldg., Washington 25, D. C.; at the Area Engineer's office, Alaska Public Works, Reliable Service Bldg., Anchorage, Alaska; and Associated General Contractors of America as follows: Seattle Chapter, Construction Center, 215 West Harrison St., Seattle, Wash.; Mountain Chapter, 220 W. Harrison St., Seattle, Wash.; Tacoma Chapter, 452 St. Helens Ave., Tacoma, Wash.; Portland Chapter, Suite 112, Multnomah Hotel, Portland, Oregon; Alaska Chapter, 306 Central Building, Anchorage, Alaska also the Plan Bureau, 2413 Western Avenue, Seattle, Wash.; and the Builders Exchange Cooperative, 317 Builders Exchange Bldg., Portland, Oregon. A set of such documents may be procured from the office of the Acting Director at Juneau, Alaska, upon deposit of $25.00, all of which will be refunded upon the return of the plans and specifications in good condition within twenty (20) days from date of bid opening. Each bid must be accompanied by a satisfactory bid security (certified check or bid bond) in an amount not less than 5 percent of the total bid in dollars and cents. No bid will be withdrawn until thirty days after the scheduled closing date for the receipt of bid. The successful bidder will be required to furnish a performance bond and payment bond, each in the amount of 100 per cent of the contract price. The government reserves the right to award a contract for the project on the basis of the acceptance of any or all of the alternates, whichever course is in the best interest of the Government. DESCRIPTION: Talkeetna Elementary School, Project Aaa. 50-A-144, Anchorage. A 20-classroom reinforced concrete, steel frame and masonry elementary school containing approximately 34,000 square feet. Information regarding liquidated damages (if any), payments, etc., is attached or made a part of the specifications. Bids shall be submitted on the forms furnished or copies thereof.

5472—5-19, 26; 6-2

PUMP HOUSE

BIDS CLOSE 10 A.M., P.S.T., JUNE 13

Anchorage, Alaska

NOTICE TO CONTRACTORS

Project Aaa. 50-A-157, Unit 6, Pump House, Anchorage, Alaska. May 10, 1956. Pump House, Project Aaa. 50-A-157, Unit 6, Anchorage, Alaska. Alaska Public Works, Office of Territories, Department of the Interior. By (Issuing office) John D. Argetsinger, Acting Director, Alaska Public Works Office of Territories, Department of the Interior, Post Office Box 1181, Juneau, Alaska. Sealed bids in single copy for furnishing all labor, equipment, and materials and performing all work for the project described herein will be received until 10:00 A.M., Pacific Standard Time, June 13, 1956, in the mailroom of the office of the Acting Director, Alaska Public Works, Office of Territories, Department of the Interior, 123 West Third Street, P. O. Box 1181, Juneau, Alaska and then publicly opened and read aloud. Information regarding bidding material, bid guarantee, and bonds follows: Plans and specifications and other proposed contract documents are open for public inspection at the Acting Director's office, Juneau, Alaska; at Room 2723, Interior Bldg., Washington 25, D. C.; at the Area Engineer's office, Alaska Public Works, Reliable Service Bldg., Anchorage, Alaska; and Associated General Contractors of America offices as follows: Seattle Chapter, Construction Center, 215 West Harrison St., Seattle, Wash.; Mountain Chapter, 220 W. Harrison St., Seattle, Wash.; Tacoma Chapter, 452 St. Helens Ave., Tacoma, Wash.; Portland Chapter, Suite 112, Multnomah Hotel, Portland, Oregon; Alaska Chapter, 306 Central Building, Anchorage, Alaska also the Plan Bureau, 2413 Western Ave., Seattle, Wash.; and the Builders Exchange Cooperative, 317 Builders Exchange Bldg., Portland, Oregon. A set of such documents may be procured from the office of the Acting Director at Juneau, Alaska, upon deposit of $25.00, all of which will be refunded upon the return of the plans and specifications in good condition within twenty days from date of bid opening. Each bid must be accompanied by

a satisfactory bid security (certified check or bid bond) in an amount not less than 5 percent of the total bid in dollars and cents. No bid will be withdrawn until thirty days after the scheduled closing date for the receipt of bid. The successful bidder will be required to furnish a performance and payment bond each in the amount of 100 percent of the contract price. The Government reserves the right to award a contract for the project on the basis of the acceptance of any or all of the alternates, whichever course is in the best interest of the Government. DESCRIPTION: Pump House, Project Aaa. 50-A-157, Unit 6, Anchorage, Alaska. The work consists of constructing a pump house for an existing water well, repairs, testing and developing the well, installing 620 l.f. of cast iron pipe and other miscellaneous work. Information regarding liquidated damages (if any), payments, etc., is attached or made a part of the specifications. Bids shall be submitted on the forms furnished or copies thereof.

5471—5-19, 26; 6-2

STATE HIGHWAY PROJECTS

BIDS CLOSE 10 A. M., JUNE 5

Olympia, Washington

NOTICE TO CONTRACTORS

Sealed bids will be received by the Washington State Highway Commission at Olympia Washington, on Tuesday, June 5, 1956, until 10:00 A. M., for the construction of the following improvements and will then and there be opened and publicly read:

1. Clearing, Draining, Grading, Surfacing with Light Bituminous Surface Treatment, Paving with Type I-1 Asphaltic Concrete and Constructing a Steel Girder Railway Bridge Undercrossing on Primary State Highway No. 2 in Spokane County, G.N. RAILWAY UNDERCROSSING AND BARKER ROAD UNDERCROSSING APPROACHES, FAP No. UGI-002-6(23) and State Project, involving about 44,300 cubic yards of Common Excavation, 760 cubic yards of Solid Rock Excavation, 2,430 tons of Crushed Stone Surfacing, 13 tons of Asphalt Cement, 95 cubic yards of Crushed Cover Stone and Mineral Aggregate, 510 tons of Asphaltic Concrete, 693 linear feet of Beam Guard Rail, 236 linear feet of Concrete Pipe, 242 linear feet of Steel and Iron Pipe, 1,041 linear feet of Asbestos-Cement Pipe, 944 cubic yards of Concrete, 53,000 pounds of Steel Reinforcing Bars, 611,000 pounds of Structural and Cast Steel, 31 MBM of Timber and Lumber and other items.
2. Draining, Grading and Surfacing with Crushed Stone on 2.321 miles of a Whitman County Road, PULLMAN-BUSBY ROAD, FAS No. S-0669(1), involving about 17,540 cubic yards of Common Excavation, 26,770 cubic yards of Solid Rock Excavation, 41,760 tons of Crushed Stone Surfacing, 906 linear feet of Corrugated Metal Pipe and other items.
3. Clearing, Draining, Grading and Surfacing with Crushed Stone on 2.100 miles of a Clark County Road, HAAPA EAST, FAS No. S-0590(5), involving about 11 acres of Clearing, 59,560 cubic yards of Common Excavation, 21,160 tons of Selected Roadway Borrow, 9,160 tons of Crushed Stone Surfacing, 858 linear feet of Concrete Pipe, 542 linear feet of Corrugated Metal Pipe and other items.
4. Paving with Type I-1 Asphaltic Concrete on 11.33 miles of Primary State Highway No. 3 in Benton County, PROSSER TO KIONA, a State Project, involving about 20,975 tons of Asphaltic Concrete, 48 tons of Asphalt Cement, 4,250 cubic yards of Maintenance Rock and other items.
5. Surfacing and Constructing a Bituminous Surface Treatment Road Mix, Non-Skid Single Seal Treatment and Light Bituminous Surface Treatment on Shoulders on 31.29 miles of State Highways Nos. 15, 15-C and 15-D in Chelan and King Counties, DECEPTION CREEK TO GAYNOR, ET AL, a State Project, involving about 16,960 tons of Selected Roadway Borrow, 57,710 tons of Crushed Stone Surfacing, Crushed Cover Stone, Maintenance Rock and Mineral Aggregate, 693 tons of Asphalt Cement, 2,565 cubic yards of Mineral Aggregate and other items.
6. Constructing a Light Bituminous Surface Treatment and Non-Skid Single Seal Treatment on 19.10 miles of State Highways Nos. 3 and 3-L in Yakima, Garfield and Columbia Counties, PARKER BRIDGE TO DONALD, ET AL, a State Project, involving about 300 tons of Asphalt Cement, 2,350 cubic yards of Crushed Cover Stone and Mineral Aggregates and other items.

Federal funds have been allocated for items Nos. 1 to 3, inclusive.

All bid proposals shall be accompanied by a bid proposal deposit in cash, certified check, cashier's check or surety bond in an amount equal to five per cent (5%) of the amount of such bid proposal. Should the successful bidder fail to enter into such contract and furnish satisfactory performance bond within the time stated in the specifications, the bid proposal deposit shall be forfeited to the State of Washington.

Prequalification of bidders is required. Maps, plans and specifications may be obtained from this office upon written request therefor and payment to the Director of Highways by cash, certified check, cashier's check or money order in the sum of two dollars ($2.00) for each copy of such maps, plans and specifications as a rental for the use of them. Plans will be forwarded by First Class Mail.

Informational copies of maps, plans and specifications are on file in the office of the County Engineer of the County in which the work is situated, the Chapter offices of the Associated General Contractors of America in Seattle, Spokane, Tacoma and Portland and the offices of the District Engineers of the Department of Highways where they may be inspected.

E. C. HUNTLEY, Chairman
W. A. BUGGE, Director of Highways

5475—5-19, 26

STATE HIGHWAY PROJECT

BIDS CLOSE 10 A.M., MAY 22

Olympia, Washington

NOTICE TO CONTRACTORS

Sealed bids will be received by the Washington State Highway Commission at Olympia, Washington, on Tuesday, May 22, 1956, until 10:00 A.M. for the construction of the following improvement and will then and there be opened and publicly read:

1. Removing Portions of Existing Steel Girder Bridge on Primary State Highway No. 13 in Gray Harbor County, CHEHALIS RIVER BRIDGE REMOVAL, FAP No. U-006-1(8), involving the Removal of about 300 Existing Piles and 2 lump sum bids for the Removal of the Existing Steel Spans and Existing Piers and Fenders.

Bids for this project will be opened in the office of the Director of Highways, room 203, Transportation Building, instead of in the board room of the Public Service Commission where bid openings are usually held.

Federal funds have been allocated for item no. 1.

All bid proposals shall be accompanied by a bid proposal deposit in cash, certified check, cashier's check or surety bond in an amount equal to five per cent (5%) of the amount of such bid proposal. Should the successful bidder fail to enter into such contract and furnish satisfactory performance bond within the time stated in the specifications, the bid proposal deposit shall be forfeited to the State of Washington.

Prequalification of bidders is required. Maps, plans and specifications may be obtained from this office upon written request therefor and payment to the Director of Highways by cash, certified check, cashier's check or money order in the sum of two dollars ($2.00) for each copy of such maps, plans and specifications as a rental for the use of them. Plans will be forwarded by First Class Mail.

Legal advertisements appearing in our columns come to the attention of construction firms, and equipment and supply houses throughout the entire Pacific Northwest and Alaska.

Informational copies of maps, plans and specifications are on file in the office of the County Engineer of the County in which the work is situated, the Chapter offices of the Associated General Contractors of America in Seattle, Spokane, Tacoma and Portland and the offices of the District Engineers of the Department of Highways where they may be inspected.

E. C. HUNTLEY, Chairman
W. A. BUGGE, Director of Highways

5459—5-12

EARTHWORK, PIPELINES

BIDS CLOSE 10 A.M., P.S.T., JUNE 5

Ephrata, Washington

NOTICE TO CONTRACTORS

United States Department of the Interior, Bureau of Reclamation, April 19, 1956. Sealed bids, in single, (Specifications No. DC-6[illegible]) will be received at the office of the Project Manager, Bureau of Reclamation, Division and "C" Street, N.W., Ephrata, Washington, until 10:00 a.m., Pacific Standard Time, June 5, 1956, and then publicly opened for furnishing labor and materials and performing all work for construction of earthwork, pipe lines, and structures South Pearl Block 46 Laterals, Wasteways, and Drains, East Low Canal Laterals. This work will include earthwork for approximately [illegible] miles of unlined sections of laterals, sub-laterals, wasteways and drains with bottom widths varying from 10 to 2 feet; earthwork for and construction of approximately 600 feet of precast-concrete pipe lines and pipe chute; earthwork for and construction of concrete structures along laterals, wasteways, and drains including pipe turnouts, orifice turnout, constant head orifice turnouts, division boxes, etc., road and ditch crossings, railroad crossings, timber bridges and 1 outdoor type pumping plant; furnishing and installing metal slide gates and lifts, adjustable weirs, flap gates, etc., motor-driven vertical-shaft pumping unit, discharge piping, trashracks, chain-link fence, electrical installation; and furnishing and sowing grass seed.

Time allowed for completion will be [illegible] and 520 calendar days. For particulars address the Bureau of Reclamation, P. R. Nelder, Project Manager, Box 368, Ephrata, Washington.

5445—5-5

BRIDGES

BIDS CLOSE 11 A.M., MAY 22

Juneau, Alaska

NOTICE TO CONTRACTORS

SEALED BIDS, in single copy for furnishing all labor, equipment, and materials and performing all work for the project described herein will be received until 11:00 a.m., May 22, 1956, in room 319, Alaska Road Commission Offices, Federal Building, Juneau, Alaska, and then publicly opened.

Plans and specifications for the project may be obtained from the Alaska Road Commission, P. O. Box 1961, Juneau, Alaska. Plans may be returned to the Alaska Road Commission District Office, Valdez, Alaska. No deposit will be required, but if plans are not returned in good condition within thirty days after date of bid opening, the planholder will be billed for the actual cost of the plans.

A guarantee of not less than five percent (5%) of the total amount bid will be required with each bid.

Constructing Klutina River Bridge, located at Mile 101.0, Richardson Highway, a 240'x24' two-span continuous built-up steel girder bridge, concrete deck. Tonsina River Bridge, located at Mile 79.1, Richardson Highway, a 250'x24' three-span continuous I-beam with concrete deck. Moose Creek Bridge, located at Mile 186.2, Glenn Highway, a 40'x24' single span I-beam bridge, concrete deck.

All work shall be completed within [illegible] calendar days after receipt of Notice to Proceed, except the Moose Creek Bridge shall be acceptable for use within 137 calendar days after receipt of Notice to Proceed. No performance time will be charged for winter shutdown.

A. F. Ghiglione
Director

5453—5-5

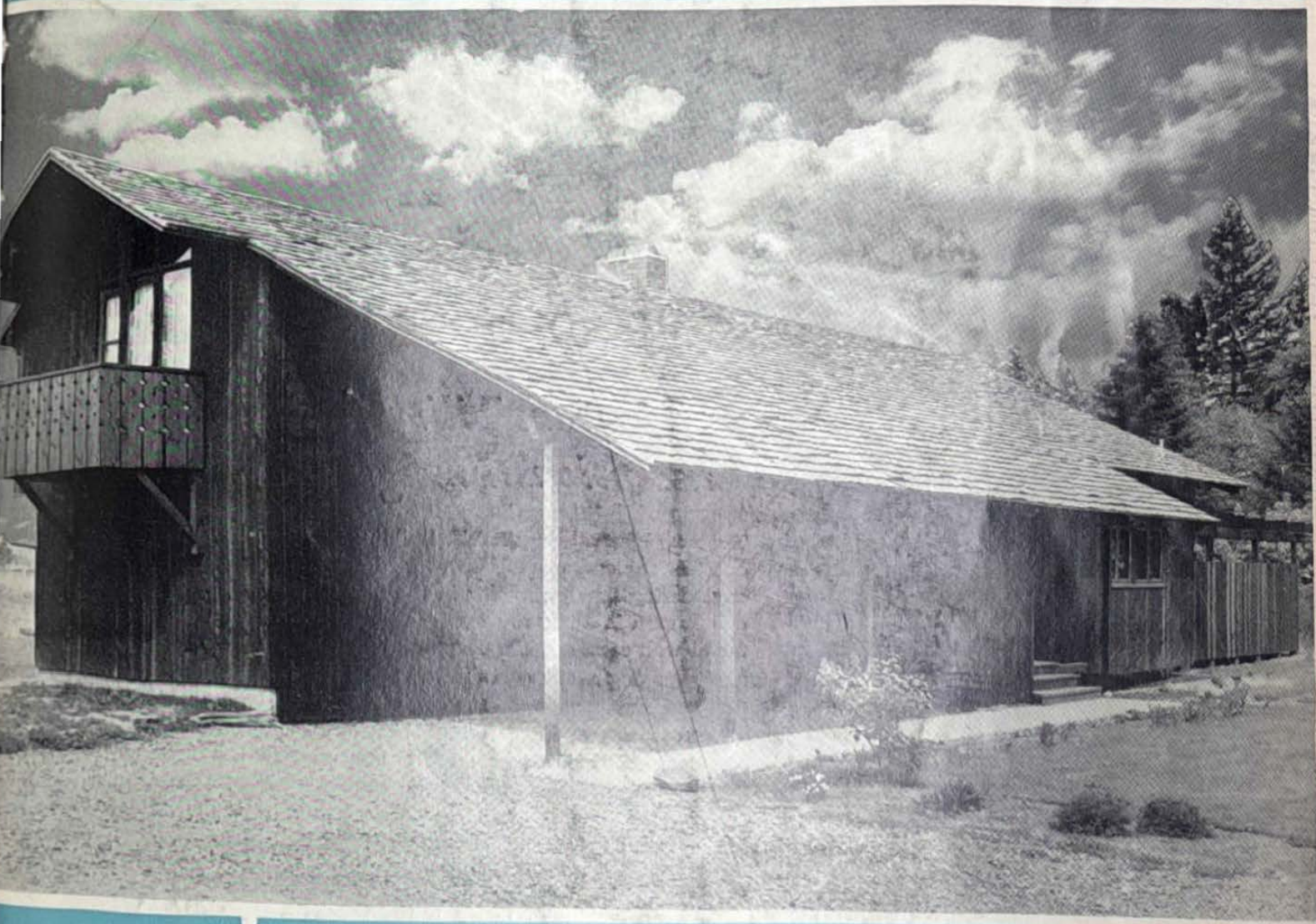
LIBRARY
School of Architecture & Allied Arts
SEP 7 1956

Pacific Architect and Builder

JULY BPA 1956

50¢

WITH CONSTRUCTION NEWS BULLETIN



Published by
PACIFIC BUILDER
ND ENGINEER, Inc.
Established 1902

A happy house with accent on vertical space

Richard A. Carlton Residence, Tigard, Ore.: An Award of Merit winner in the first design competition of Oregon chapter, AIA (p. 16). Charles Gilman Davis, AIA, architect.

Also in this issue: Part 2 of Dean Burchard's inspiring AIA convention talk

ANOTHER EXAMPLE OF CARCO "one stop" STEEL SERVICE

Architect: Decker, Christenson and Kitchin, Seattle
Structural Engineer: M. O. Sylliaasen, Seattle
Contractor: George E. Teufel Co., Seattle





PACIFIC TELEPHONE AND TELEGRAPH DIALS RAinier 5355 FOR STRUCTURAL STEEL

The Pacific Telephone and Telegraph Company spends large sums of money annually in buildings and equipment in order to keep abreast of the continuing growth of the territory it serves so adequately.

One of the Pacific Telephone and Telegraph jobs currently under way is an enlargement of the Exchange Building at 1208 E. 64th Street, Seattle.

Early this spring, a 21'x89' addition to this building was completed. Now in process of construction is a further enlargement consisting of adding third and fourth stories to both the original building and the recently finished addition.

The area of the building presently being enlarged is 104'x89'. Construction is of steel and concrete with brick facing, which matches the structure to which the floors are being added.

Serving Kenwood, Fillmore, Plaza and Vermont numbers, the cost of this project will come to approximately one million dollars for building and equipment.

The equipment to be installed is primarily dial switching equipment made by Western Electric, one of the companies in the Bell System.

Pacific Car both fabricated and erected 98 tons of structural steel for the two new stories of the 64th Street Exchange Building. Erection was with high tensile bolts.

Carco offers buyers of structural steel not only the largest fabricating facilities in the Northwest but also a "one-stop" steel service. This means money-saving ideas and suggestions, prompt engineering detail and estimates, fabrication and erection. Let Pacific Car quote on your structural steel needs. No job is too small to receive our interested attention nor too large for our equipment and experienced personnel.

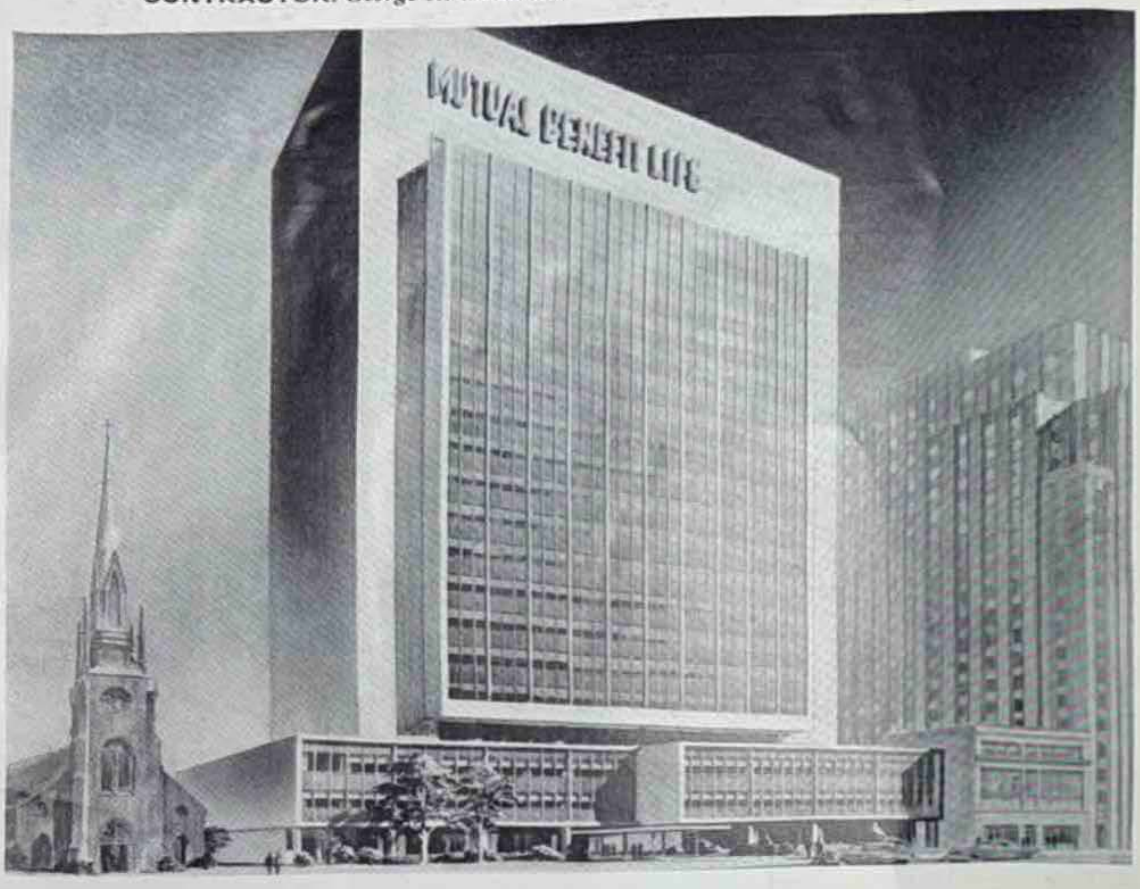
PACIFIC CAR AND FOUNDRY COMPANY

STRUCTURAL STEEL FABRICATION AND ERECTION, STEEL CASTINGS, FORGING, HEAT TREATING, MACHINING, HOT DIP GALVANIZING, TRACTOR EQUIPMENT: Winches, Hoists, Arches, Log Carts, Rigging.

CARCO®

STRUCTURAL STEEL DIVISION—120 W. HUDSON—SEATTLE 4—RAinier 5355 MAIN PLANT AND OFFICES—RENTON, WASHINGTON—OLive 4511

HOME OFFICE BUILDING
MUTUAL BENEFIT LIFE INSURANCE CO. BUILDING, *Newark, N. J.*
ARCHITECT: *Eggers and Higgins, Architect*
CONTRACTOR: *George A. Fuller Co.*



KAWNEER METAL WALL *one responsibility from inception through installation*

The new Mutual Benefit Life building in Newark, N. J., is another outstanding example of Kawneer Metal Wall. Years of creative engineering and production in the field of architectural metals has culminated in a new service for architects . . . a new concept in metal wall construction. This building is an expression of Kawneer's ability to engineer a curtain wall to fit this architect's individual design. Kawneer accepts the complete responsibility for engineering, manufacturing and installation. Special weather-tightness features, adequate provision for expansion and contraction, and tested prefabrication methods assure the architect and contractor of complete client satisfaction. For further information write: Metal Wall Department, Kawneer, Niles, Michigan.

Other Kawneer metal wall jobs:

Tishman Buildings, *Los Angeles*
Equitable Life Building, *San Francisco*
Insurance Exchange Building *Oakland*
Imperial Oil Co., *Sarnia, Ontario*
Newark Center Building, *Newark*
Kaiser Aluminum, *Ravenswood, W. Va.*

Write for folder describing Kawneer services and metal wall jobs.



50TH ANNIVERSARY
Kawneer
General Offices
NILES, MICHIGAN
ARCHITECTURAL PRODUCTS DIVISION
1906 – 1956

ANOTHER EXAMPLE OF CARCO "one stop" STEEL SERVICE

Architect: Decker, Christenson and Kitchin, Seattle
Structural Engineer: M. O. Sylliaasen, Seattle
Contractor: George E. Teufel Co., Seattle





PACIFIC TELEPHONE AND TELEGRAPH DIALS RAinier 5355 FOR STRUCTURAL STEEL

The Pacific Telephone and Telegraph Company spends large sums of money annually in buildings and equipment in order to keep abreast of the continuing growth of the territory it serves so adequately.

One of the Pacific Telephone and Telegraph jobs currently under way is an enlargement of the Exchange Building at 1208 E. 64th Street, Seattle.

Early this spring, a 21'x89' addition to this building was completed. Now in process of construction is a further enlargement consisting of adding third and fourth stories to both the original building and the recently finished addition.

The area of the building presently being enlarged is 104'x89'. Construction is of steel and concrete with brick facing, which matches the structure to which the floors are being added.

Serving Kenwood, Fillmore, Plaza and Vermont numbers, the cost of this project will come to approximately one million dollars for building and equipment.

The equipment to be installed is primarily dial switching equipment made by Western Electric, one of the companies in the Bell System.

Pacific Car both fabricated and erected 98 tons of structural steel for the two new stories of the 64th Street Exchange Building. Erection was with high tensile bolts.

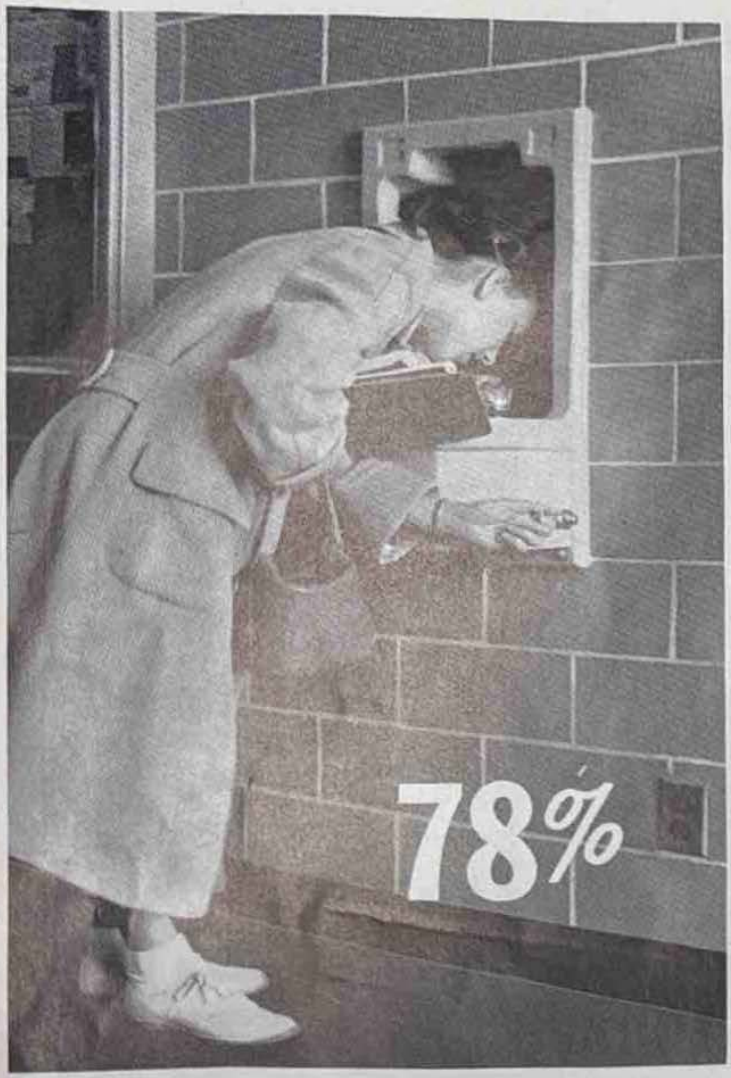
Carco offers buyers of structural steel not only the largest fabricating facilities in the Northwest but also a "one-stop" steel service. This means money-saving ideas and suggestions, prompt engineering detail and estimates, fabrication and erection. Let Pacific Car quote on your structural steel needs. No job is too small to receive our interested attention nor too large for our equipment and experienced personnel.

PACIFIC CAR AND FOUNDRY COMPANY

STRUCTURAL STEEL FABRICATION AND ERECTION, STEEL CASTINGS, FORGING, HEAT TREATING, MACHINING, HOT DIP GALVANIZING, TRACTOR EQUIPMENT: Winches, Hoists, Arches, Log Carts, Rigging.

CARCO®

STRUCTURAL STEEL DIVISION—120 W. HUDSON—SEATTLE 4—RAinier 5355 MAIN PLANT AND OFFICES—RENTON, WASHINGTON—OLive 4511



78% of School Officials say*

"GLAZED STRUCTURAL WALLS ARE EASIER TO CLEAN"

OK—so everyone already *knows* tile is easier to clean. But, some people don't yet realize that installed cost of Western Glazed Structural Wall Units is *competitive*.

It's structural wall and ceramic finish combined. Masons do the whole job—fast. No other trades required. Resists wear, stains, odors—never needs painting. Clear glaze plus 12 attractive colors. Standardized sizes and shapes for every requirement.

* *Naturally, it's our own survey. Like to see the full report? Shape chart and specification details also available for the asking from* KRAFTILE CO., *Niles, Calif.; or* WASHINGTON BRICK & LIME CO., *Spokane, Wash., members of*

WESTERN STRUCTURAL TILE INSTITUTE . . . . . .

A MESSAGE FOR STUDENTS

by LEON CHATELAIN JR., FAIA

A letter written by the new national AIA president to the Unit Masonry Association of Seattle on the occasion of its scholarship dinner in May

I AM SORRY that I am not able to be with you to make the presentation to the winner of the Unit Masonry Association scholarship. My regret is particularly keen because of my long-standing interest in architectural education and a knowledge that the future strength and prestige of the architectural profession rests with the students now in our architectural schools.

The American Institute of Architects recognizes its need and obligation for gathering the young architects into the fold, for giving them an understanding of the task ahead and for developing those dedicated individuals who will lead the profession toward continued public and professional service.

The existence of the fine architectural education system which we enjoy today can be traced largely to the institute's insistence on sufficient and adequate architectural schools and its efforts toward that end. The entire profession today is proud of the output of these schools as exemplified by the scholarship winner who is being honored by your association.

As a further step in bringing architects into closer contact with their eventual profession, the AIA has sponsored the formation of student chapters at the schools. There are now 34 of these, many of which have proved to be extremely successful. The value which students have derived from their chapters seems, as in the case with AIA membership nationally, to be directed in proportion to the amount of interest and effort put into the chapter activities.

A student forum held at the Octagon last November was attended by representatives from every architectural school. A new stimulus to student activity and participation in institute affairs resulted from this meeting in the formation of a national student organization as a recognized part of the institute, a periodically issued student report written and edited by students, and a renewed interest and enthusiasm on the part of both students and AIA chapters.

You students are graduating into the architectural profession at a time when it is enjoying its greatest prestige and prosperity. Members of our profession must, therefore, have the highest ethical standards, an awareness of public responsibility and should always be prepared to furnish the finest quality of professional services.

Your schools present you with excellent educational opportunities. Stimuli, such as the Unit Masonry Association scholarship, offer inducements to take further advantage of these opportunities. But upon graduation it is your individual obligation to enhance the profession you have entered. As president of the AIA I urge each of you to practice ethically, respond to civic responsibility, continue your professional education both in training and in practice and dedicate yourselves to providing the complete and competent professional service we architects owe our clients.

Pacific Architect and Builder

JULY 1956

WITH CONSTRUCTION NEWS BULLETIN

VOLUME 62 NUMBER 7

Published by
Pacific Builder and Engineer, Inc.
Established 1902

MAIN EDITORIAL AND BUSINESS OFFICE
2418 Third Ave., Seattle 1, Wash.
Phone MAin 0285

N. B. Chapin — President
Roscoe E. Laing — Manager

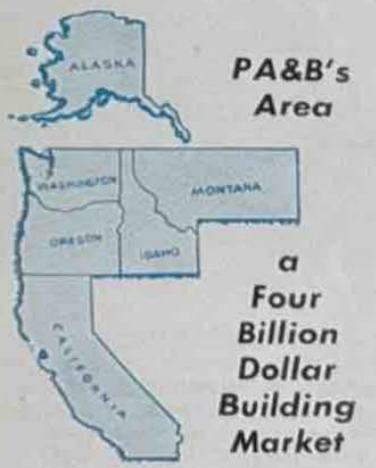
Phyllis E. Forth — Production Manager
Robert G. Hitchens — Director of Business Services and Circulation
Frances Eggan — Circulation Manager
Alice Malloy — Asst. Circulation Manager

ADVERTISING
Main Office — Seattle
L. C. McDowell
Paul N. Swanson

Ken MacDonald — Contributing Editor
24 White St., San Francisco 9, Calif.
Phone GRaystone 4-8532

Win Romtvedt — Portland News Manager
1109 S.W. Fourth Ave.—Phone CApitol 3-1229

Robert E. Koehler — Editor
Anne Hecker, editorial assistant; Joan Storey, research assistant
D. F. McCormick, editor, Construction News Bulletin



PA&B's Area

a Four Billion Dollar Building Market

CONTENTS

Finnish Exhibit Tours West Coast 8

Five Seattle Area Projects Honored by AIA Chapter 10

Portland Cites Four Buildings in First Design Competition 11

Manufacturing Plant: Economic Planning Goes to the Factory—Los Angeles 14

Richard A. Carlton Residence: A Happy House with Accent on Vertical Space—Tigard, Ore. 16

Mannings, Inc: Large Cafeteria with Intimate Details—San Francisco 18

Architecture for the Good Life: Part 2—*by John Ely Burchard* 20

DEPARTMENTS

Perspectives 6

News—Trends—Views 7

T-square Talk 12

Materials, Products, Tools and Latest Literature 24

Building Permit Tabulation 26

Builders and Suppliers 32

CONSTRUCTION NEWS BULLETIN

Building and Engineering News of the Pacific Northwest and Alaska 35

SUBSCRIPTION RATES—Payable in Advance

PACIFIC ARCHITECT AND BUILDER—3rd Saturday each month $4 one year; $6 two years; $7 three years. Canadian $5, $8, $10. Foreign $6, $10, $13. Single copies 50c. With CONSTRUCTION NEWS BULLETIN (2nd, 4th, 5th Sat.) $16, $24, $31, in U.S. and Alaska.

PACIFIC BUILDER AND ENGINEER—1st Saturday each month. $4 one year; $6 two years; $7 three years. Canadian $5, $8, $10. Foreign $6, $10, $13. Single copies 50c.

FOR NORTHWEST BUILDING AND ENGINEERING NEWS EVERY WEEK subscribe to all three (PA&B, PB&E, CNB) $20 one year; $30 two years; $38 three years. FOR FLASH ADVANCE DAILY SERVICE, read Pacific Construction Daily, $75 per year. Rates for U.S. and Alaska.

PACIFIC ARCHITECT AND BUILDER is published monthly by Pacific Builder and Engineer, Inc., 2418 Third Ave., Seattle 1, Wash., and is mailed on the third Saturday of each month. Price: $4. per year. Acceptance under P.L.&R. 34.64 authorized.



EDUCATIONAL PLANT to be built at Holmes Corner, Wash., will replace Edmonds High School which will be converted into junior high school. The $2 million project, designed by Waldron & Dietz of Seattle, will include 60 teaching stations, athletic facilities and administrative offices.

PERSPECTIVES

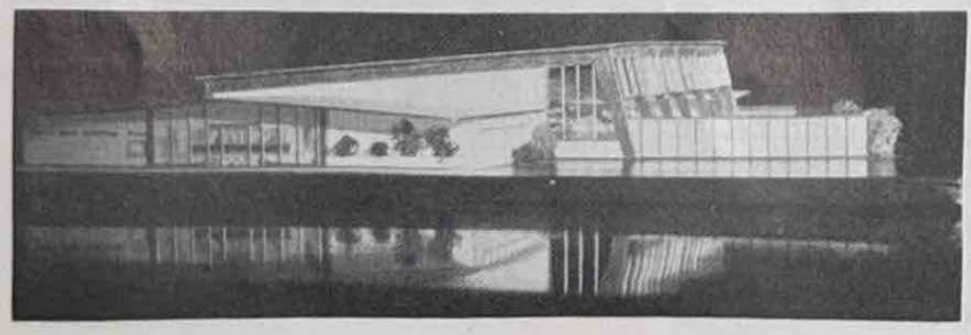
by Pacific architects



SEMI-TROPICAL IN DESIGN to fit surroundings, administration building and gatehouse of Los Angeles State and County Arboretum in Arcadia will feature partially enclosed porches. To cost an estimated $200,000, two buildings planned by Allison & Rible will have concrete block walls with wood framing.

FIRST UNIT of Gethsemane Lutheran Church will contain sanctuary seating 164, classrooms and fellowship room. Red brick structure will have glued laminated arches supporting roof and colored glass grillwork at front. Eddy, Carlson & James are architects on the project, to which Christian day school and gymnasium-auditorium will be added later.





MODEL OF INDOOR-OUTDOOR swimming pool for which $325,000 bond election was passed by North Bend, Ore., residents. Of reinforced concrete, it will have U-shaped pool, plastic fence on west side of sun deck for windbreak, sun-tinted plastic windows on south and permanent spectator space for 260 seats. Plans have been drawn by Stevens & Thompson, consulting engineers, and Gorden E. Trapp, architect, of Portland.

Building News - Trends - Views

TWO WEST COAST MEN—landscape architect Garrett Eckbo of Los Angeles and philospher Mortimer Adler of San Francisco—were among 15 main speakers at the sixth International Design Conference in Aspen, Colo., June 23-July 1. Excerpts from their papers, "Design and the Landscape in Which We Live" and "Some Philosophical Questions About Design," will appear in PA&B next month, along with other conference highlights.

BIDS ARE BEING CONSIDERED by Commerce Investment Co. in Portland for an 11-story apartment building which at the contractor's option will be lift-slab construction. Edmundson, Kochendoerfer & Kennedy, architects-engineers, believe it will, if constructed by this method, be the tallest lift-slab job in the country, the previous record being 10 stories.

THE ANNUAL SEMINAR-TOUR of Mexican architecture, "Gira Arquitectura," will get underway in Laredo, Texas, October 14, returning to that city 13 days later. Designer T. H. Hewitt has planned and will escort the tour in cooperation with the Sociedad de Arquitectos Mexicanos. For further details write Gira Arquitectura, 2413 Driscoll, Houston 19, Texas.

THE HOME ECONOMY is in a transition period, says John M. Dickerman, NAHB executive director. A combination of circumstances—higher costs, tight mortgage money, market readjustments and possible changes in government programs—have the industry in a state of flux.

ARCHITECTURE RECEIVES its due share of attention in the first annual report of Seattle's Municipal Art Commission, which is not at all surprising since its chairman, John S. Detlie, and another member, Robert L. Durham, are both architects. The 40-page document recommends that a policy be established basing selection of architects, designers and artists for major civic projects upon a formal programmed competition; that in all other cases a thorough direct selection method be used; and that a minimum of 2% of estimated gross cost be allocated for murals, sculpture and other arts in appropriations for public buildings.

A $51½ MILLION CULTURAL CENTER for construction in downtown Los Angeles has been approved by the board of supervisors. Proposed plans call for a 20,000-seat civic auditorium, a 4,000-seat music center and parking facilities for 5,500 cars within five years.

THE RUSSIANS have at long last closed that deal they made during their home builders' inspection trip of the U. S.: to buy a seven-room house built at San Bruno by Andy F. Oddstad Jr. The house, complete with furniture, will be shipped in prefabricated sections. The Russians are paying $8,000 for the house, $4,000 for the furniture.

THE NATIONAL SWIMMING POOL INSTITUTE at its first luncheon meeting in Chicago last month discussed such topics as establishing codes of ethics, starting a public relations program, assisting on legislation and standardizing trade practices and techniques.

THE PLYWOOD INDUSTRY'S new program of architect-emphasis was underscored last month by the presence of John Lyon Reid, FAIA, as keynote speaker at the 20th annual meeting of the Douglas Fir Plywood Association at Gearhart, Ore. Among other things, the 250 manufacturers on hand were told that DFPA has comissioned six architects for creative research in the field of school design; has named six faculty members from top design schools to develop ideas and structures keyed to leisure time; has commissioned three architects to develop designs for expandable small churches in suburban areas; and has turned to still another architect to develop a simplified system of building applicable to any style of home.

TWELVE BAY AREA ARCHITECTS have banded together to design custom built homes in the $18,000-$25,000 price range, as well as to provide alterations and modernization of older homes. They will operate as a group on certain problems but the application to each job of solutions achieved as a group will be left to the individual members.

OPERATORLESS AUTOMATIC ELEVATORS have been so completely accepted that 98.2% of all new intensive service cars sold by Otis in the U. S. in the past year are of the without-attendant type.

THE ARCHITECTURAL DESIGNER for Seattle's first Lake Washington bridge has spoken out against construction of a parallel second bridge. Lloyd J. Lovegren, retiring president of the Washington State chapter, AIA, emphatically states, "I would rather have no second bridge, if we cannot have one which would serve the cause of sound, long-range planning."

THE TYPE OF PAINT JOB is one of the most important factors in the sales of homes, says Edward H. Fickett, AIA, of Los Angeles. "The smart merchant builder of today knows that an extra $200 put into a paint job done by an expert may save him $1,000 in sales costs, overhead and idle capital in unsold real estate," the architect points out. "The extra money spent on quality materials and workmanship is the most obvious 'unseen' salesman in the whole selling operation."

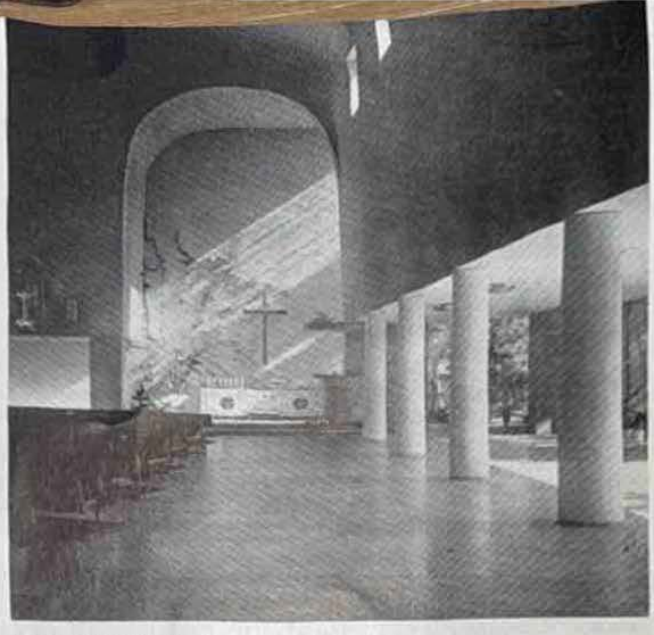
A HIGH DENSITY, maximum utilization design to solve San Francisco's problem of redeveloping its produce market has been suggested by Michael Goodman, professor of architecture at the University of California. Such a design has been created by UC graduate student Herbert Kosovitz under the direction of Goodman and Prof. Ernest Born, also of the school. The plan involves a big plaza surrounding a convention hall to handle 23,000 persons, with a smaller plaza surrounded by shops plus a mall flanked by block-long apartments and a promenade leading to the Ferry Building.

"**THE BUILDING BUSINESS** is moving into a new era caused by the force of economics of our time," according to John Dinkeloo, project director for Eero Saarinen & Associates on the General Motors Technical Center. In addressing the first annual meeting of the aluminum division of the Porcelain Enamel Institute in Cleveland June 26-27, the architect told the group, "As manufacturers you have a much greater responsibility in what buildings look like . . . the architecture of today and the architecture of tomorrow is based on the products that we can manufacture—the products that are developed. We are no longer in a brick and stone era of building."

MATERIALS FORECAST: This should be a banner year for gypsum sheathing. For the first time since World War II, the supply is matching the demand in many areas of the country . . . Production of perlite is expected to reach more than 250,000 tons in 1956. Use of perlite insulating concrete for roof construction is on the upgrade . . . Home lighting fixtures sales may rise between 12 and 25%, if predictions made by the American Home Lighting Institute come true.

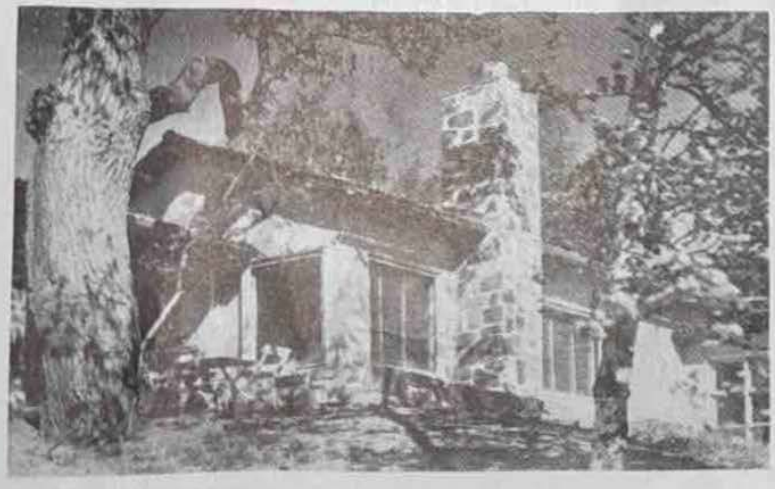
Finnish exhibit tours West Coast

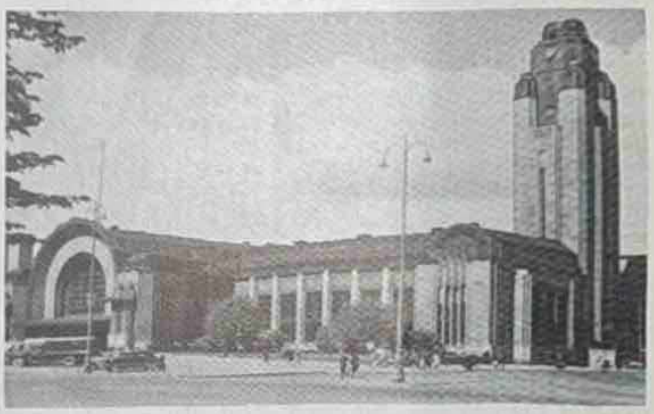
EIGHTY-FIVE PHOTOGRAPHS of significant projects constructed in Finland during the last decade or two (a small section as a memorial to Eliel Saarinen is included) are shown in the exhibition of "Contemporary Finnish Architecture" which is winding up its West Coast tour in Portland this month. The show will hang in the Oregonian Hostess House through July 31, having been seen in Seattle and earlier in Los Angeles during the national AIA convention. It is being circulated in the United States by the Smithsonian Institution Traveling Exhibition Service.



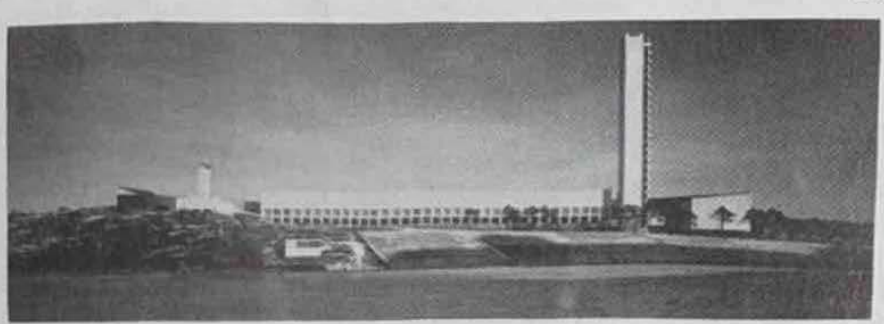
ERIK BRYGGMAN: Cemetery Chapel, Turku.

ERIK BRYGGMAN: Residence (1947).



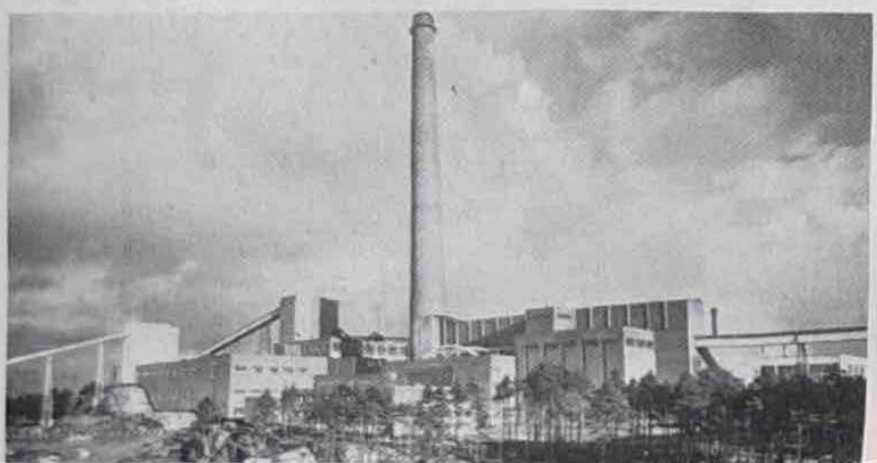


ELIEL SAARINEN: Railway Station, Helsinki (1906-14).



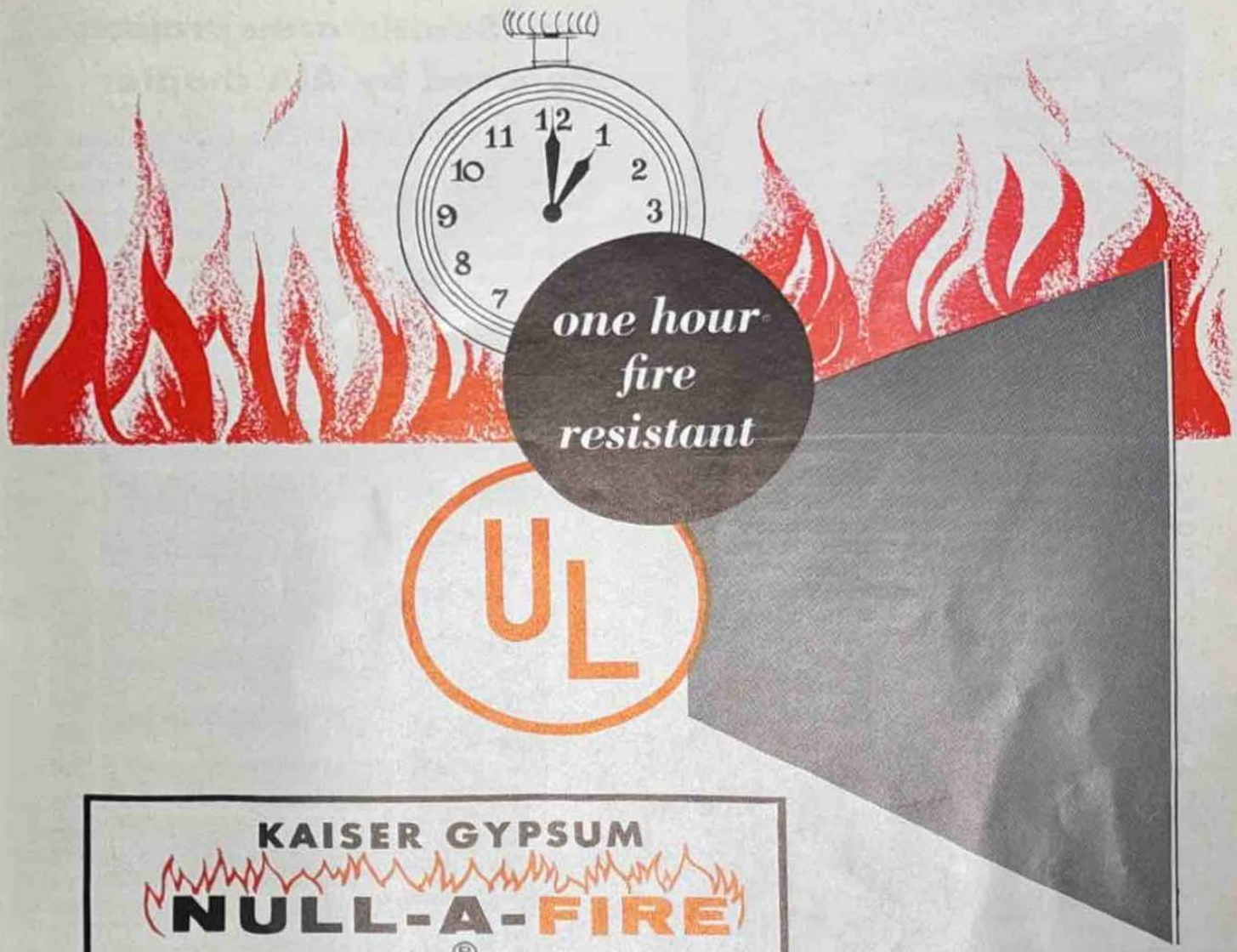
YRJO LINDEGREN and TOIVO JANTTI: Olympic Stadium, Helsinki.

ALVAR AALTO: Sunila Sulphate Mills, Gorhula (1937).



Alvar Aalto in his forward to the illustrated catalogue says:

"There is an increasing tendency toward organic architecture all over the world, and we may hope to see the various technical fields and forms of commercial production become more integrated with an architecture which dares to think more broadly in terms of service to the human soul. This humanization of the technical field is, indeed, a special objective toward which architecture and all of the arts might well devote themselves."



KAISER GYPSUM
NULL-A-FIRE®
5/8" GYPSUM WALLBOARD

Kaiser Gypsum NULL-A-FIRE is officially rated as one-hour fire resistant gypsum wallboard for (1) non-load bearing partitions; (2) load bearing partitions; (3) floor-ceiling construction in wood frame construction, as determined by official testing laboratories in accordance with A.S.T.M. Designation E119, Standard for Fire Tests of Building Construction Materials.

Kaiser Gypsum NULL-A-FIRE 5/8" wallboard is manufactured under constant inspection by Underwriters' Laboratories and subject to approval in accordance with Underwriters' Label Service.

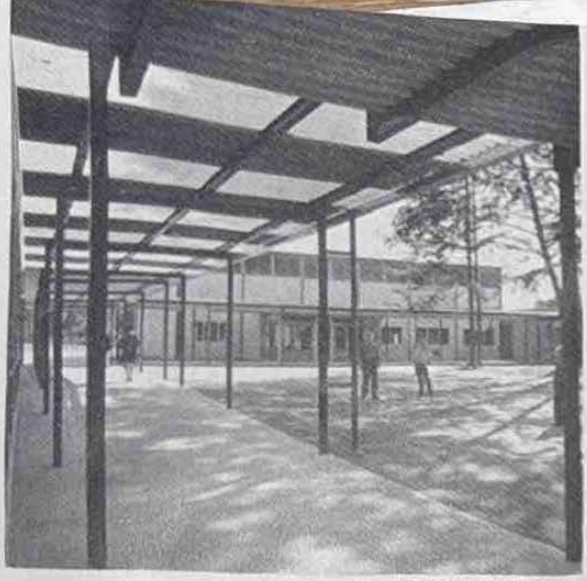
SPECIFICATION SUMMARY & DESCRIPTIVE DATA

TYPE	THICKNESS	WIDTH	LENGTH	EDGE	PACKAGING	APPROX. LBS. PER M.S.F.	RECOMMENDED SUPPORT SPACING	NAILS USED	NAIL SPACING	NAILS: LBS. PER M.S.F.	JOINT TREATMENT	DECORATION
NULL-A-FIRE	5/8"	4'	6'-12'	Tapered	2 sheets per bundle	2,700	16" or 24" o.c.	6d, 13 ga., 1/4" flathead, 1 7/8" long	ceilings: 5"-7" walls: 6"-8"	7	Kaiser Joint Cement System	Paint or Wallpaper

KAISER GYPSUM COMPANY, INC.
LONG BEACH · OAKLAND · ANTIOCH · SEATTLE

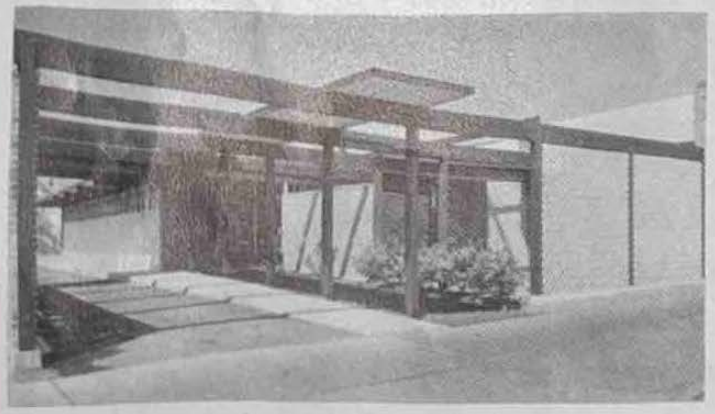
Five Seattle area projects honored by AIA chapter

IN ITS SIXTH ANNUAL Honor Awards competition, the Washington State chapter, AIA, cited five buildings as outstanding examples of Pacific Northwest architecture. The jury's comment: "These buildings were chosen for their solution of current problems of planning and design fitness. They are all well planned, sound solutions and not dependent on design tricks or gaudiness." Three Northwest architects served as jurors—Omer L. Mithun of Seattle, Alan Liddle of Tacoma and Charles E. Pratt of Vancouver, B.C., winner of Canada's Massey Award for the nation's outstanding design executed from 1953-55.



Dearborn-Massar

Woodway Elementary School, Edmonds: Waldron & Dietz and associate Dan F. Miller, architects; O. E. Turnquist Construction Co., contractor. "An outstanding and refreshing solution. The school indicates a thorough study of all phases of design from the overall scheme down through the smaller details. Excellent relation of units, orientation, lighting and use of materials."

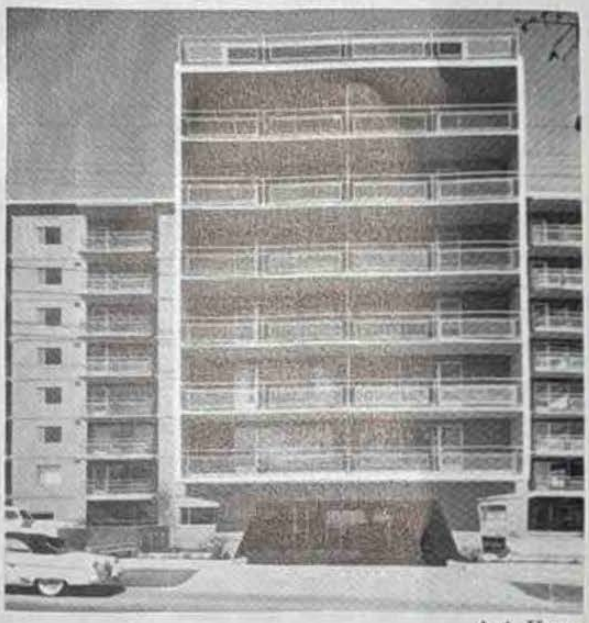


Dr. John Smith Clinic, Seattle: Paul Kirk, architect; Raun Construction Co., contractor. "A simple, direct and pleasing solution to the problem. Consistent in design and detail."

Mrs. Paul Schlosser Residence, Union: Bassetti & Morse, architects; Palmer Steiro, contractor. "Excellent use of the site, consistency of design, pleasant use of materials."

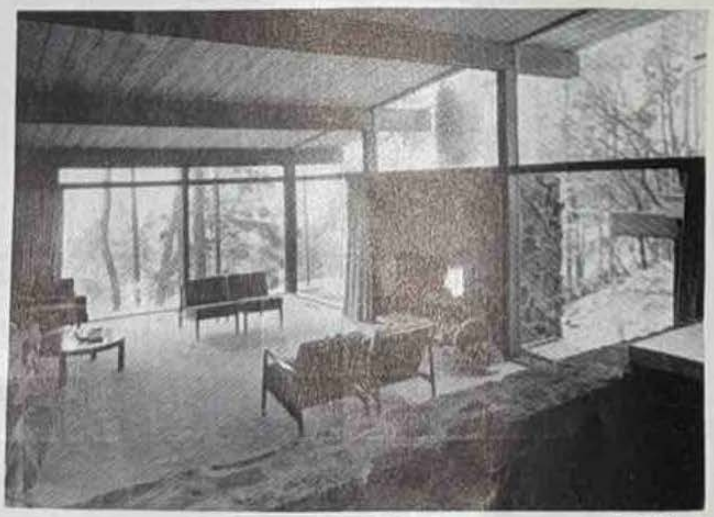
Art Hupy





Art Hupy

Skyline House, Seattle: Durham, Anderson & Freed, architects; E. S. Lovell, contractor and owner. "A good solution providing many good living units, each utilizing the dramatic day and night views from the site."



Art Hupy

Thomas J. Graham Residence, Seattle: A. O. Bumgardner, architect; built by the owner. "Pleasant use of natural materials. Excellent integration with site, view and orientation."

Portland cites four buildings in first design competition

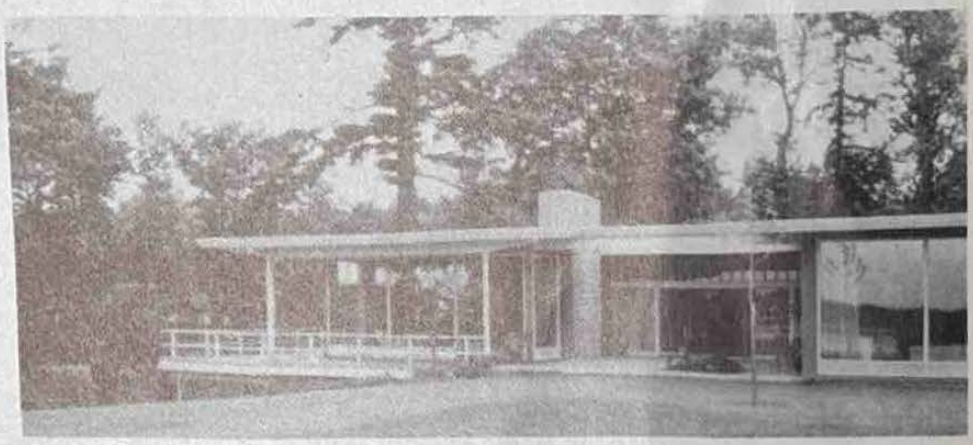


FOUR BUILDINGS—one Honor Award and three Awards of Merit—were selected out of a total of 52 entries from 23 offices in the first design competition sponsored by the Oregon chapter, AIA. Victor Steinbrueck of Seattle, Robert Price of Tacoma and Robert Douglas of Portland made up the jury of architects.

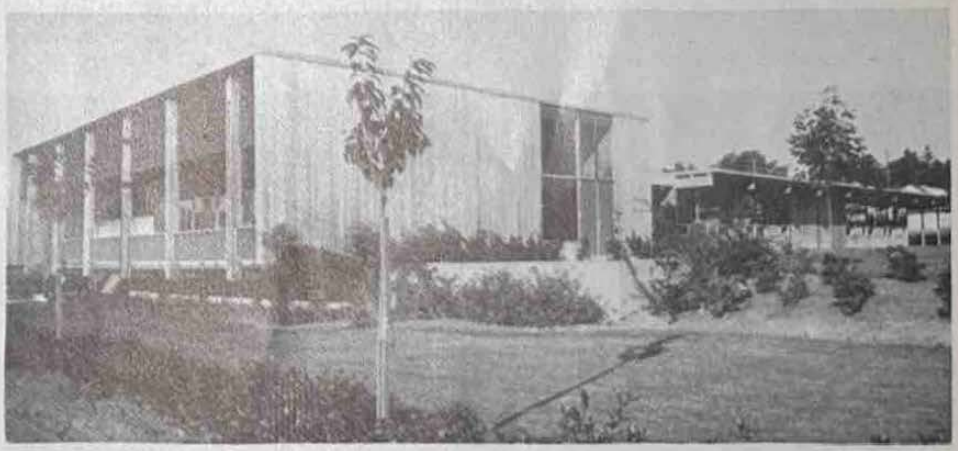
Honor Award

Motor Bank Addition to the U.S. National Bank of Portland: Belluschi and Skidmore, Owings & Merrill, architects; Donald M. Drake Co., contractor. "An outstanding example of contemporary design with traditional forms. The jury was impressed with the handsome and refined exterior skillfully related to the existing structure. The plant obviously handles its function well."

Awards of Merit



Charles E. Miller 3rd Residence near Vancouver, Wash. (right): Walter Gordon, architect; Dan Schuh, contractor. "A residence in which the interior was thoughtfully planned and carefully detailed. The house is well related to a spectacular site. The above combination of factors provides an atmosphere for pleasant living."



Tucker-Maxon Oral School, Portland (right): Belluschi and Skidmore, Owings & Merrill, architects; Malarkey & Moore, contractor. "The architecturally cheerful solution adds much to the success of the building."

Richard H. Carlton Residence near Tigard, Ore. (cover); Richard Gilman Davis, architect; built by the owner. "An unusual house which seems most sympathetic to the needs of this particular young family. The refreshing use of vertical space is commended."

T-square talk

about architects • planners • engineers

HONORARY DEGREE: Los Angeles architect Paul R. Williams, AIA, was awarded an honorary degree of Doctor of Fine Arts by Tuskegee Institute in Alabama at its 75th commencement exercises.



WILLIAMS

A graduate of the University of California at Los Angeles, Williams was cited for "the unwavering excellence of his work and the sustained surge of those creative ideas which have distinctly identified his contributions to architectural design."

Among his principal works: the Beverly-Wilshire Hotel, Saks Fifth Avenue and the Music Corporation of America Building in Beverly Hills; the Sunset Plaza Apartments in Hollywood; the Imperial-Compton housing project and the Golden Gate Mutual Life Insurance home office in Los Angeles; and the Royal Nevada Hotel in Las Vegas.

ON THE MOVE: Ralph C. Bonadurer, architect, is now located in Portland's Hollywood District at 3705 N.E. Sandy Blvd. He was formerly at 1111 S.E. Sandy Blvd. Bonadurer has designed what is believed to be Oregon's first drive-in insurance office for the Homer Waltz Agency at Forest Grove.

NEW PARTNERSHIPS: Richard L. Taylor, AIA, of Kalispell, Mont., has announced formation of a four-member partnership taking in three former employees: Raymond A. Thon, John C. Schwartz and Kenneth Kirkpatrick. The firm, which will continue in the present quarters in the Ford Block, is now known as Taylor, Thon, Schwartz & Kirkpatrick.

A graduate of the University of Minnesota, Taylor began practicing architecture in Kalispell in 1951 after a period of employment with other architects in the city. Thon was graduated from the University of Michigan in 1950, Schwartz from Montana State College in 1952 and Kirkpatrick from the same school in 1953.

Harry Loners, AIA, and Francis G. Stroebe, AIA, both of whom have practiced architecture in Billings, Mont., for many years, have formed a partnership under the firm name of Loners & Stroebe, with offices at 418 N. 25th St. Loners was graduated from the University of Washington in 1928, Stroebe from Montana State College in 1940.

NEW OFFICES: Joseph H. Rudd Jr., AIA, has opened an office for the practice of architecture at 2744 S.W. Rutland Terrace, Portland. Upon graduation from the University of Oregon in 1950, he was employed as a designer with a Pennsylvania firm and later returned to Oregon where he has been associated with several Portland firms.

Harry L. Cummings Jr. of Kirkland, Wash., has opened an architectural office in the Journal Building. He has been employed by the Seattle architectural firms of John Graham & Co., Paul Thiry and Waldron & Dietz.

APPOINTED: Kendall Ellingwood has been named director of development for Victor Gruen & Associates of Los Angeles. A graduate of Stanford University, he began his career in the Los Angeles construction industry as a mechanical engineer. Most recently he has been with the Ford Foundation's Fund for Adult Education.

Lawrence J. Cuneo has been appointed chief designer of the Los Angeles architectural and engineering firm of Daniel, Mann, Johnson & Mendenhall. He attended the Armour Institute of Technology and was a member of the Taliesin Fellowship with Frank Lloyd Wright.

PR CONSULTANT: Irving Myers, author of "Mexico's Modern Architecture," has opened an office in the Architect's Building, Los Angeles, as a consultant in public relations, graphic design and research to architects and the building industry.



MYERS

Formerly public relations director for a Los Angeles architectural firm, Myers served as consultant to the Southern California chapter, AIA, in preparing its "Guide to the Architecture of Southern California."

DESIGN AWARD: A Portland designer, John Yeon, has received the $1,000 Arnold W. Brunner memorial prize for architecture, awarded annually by the American Academy and the National Institute of Arts and Letters. He was honored for his general contributions, not for any specific work.

Yeon has received recognition for his residential work in Oregon and northern California, as well as Portland's Visitors' Information Center. Two exhibitions at the Museum of Modern Art in New York, "Building USA," have included his projects.

The Moore house at Yankee Point near Carmel, designed by San Francisco architects Anshen & Allen (PA&B, Jan., '56) will be included in an exhibit of architecture destined for a fall showing in Brussels, Belgium. The show will feature works by 14 mural painters, 12 sculptors and 24 architectural firms from throughout the U.S., selected by the Architectural League of New York.

Top prize in the annual national "Interior Awards Program" of Institutions magazine has gone to Mario Gaidano, AIA, of San Francisco for his remodeling of Fior d'Italia Restaurant in San Francisco (PA&B, Feb., '56).



BEAUTY AND THE BRICK—Clifton J. Brady, AIA, of Seattle receives set of brick cuff links from Miss Brick Apprentice (model June Svedin) at recent meeting of Producers' Council and AIA. More than 50 architects earned cuff links by suggesting uses of brick and tile in construction.

AIA activities

Washington State: James J. Chiarelli was elected president at the chapter's final meeting of the season in June.



CHIARELLI

Edwin Turner was named first vice president. Reelected for second terms were Harold W. Hall, second vice president; John L. Rogers, secretary; and A. O. Bumgardner, treasurer. All are Seattle architects except Hall who practices in Everett. Arnold Gangnes, Harrison Overturf and retiring president Lloyd J. Lovegren, all of Seattle, were named directors.

Chiarelli has served the chapter as a board member and first vice president.

The June meeting also was the occasion for the award of two architectural scholarships made available by the National Board of Fire Underwriters through cooperation with the American Architectural Foundation, Inc., and the AIA. Miss Ching-Hwa Hsaio of Seattle received a check for $533 for study in her fifth year at the University of Washington and Hajime Kinoshita of Slocan City, B.C., a check for $1,600 for graduate study at MIT.

Spokane: For the first time in its history the chapter recognized one of its own members with an Honor Award when it presented a plaque to E. Norman Sylvester for "outstanding service." He has edited the chapter publication, "Inland Empire Architect," since its inception three years ago and has served on several committees, including the construction industries committee, of which he is currently chairman.

New officers are William C. James, president; Carl Johnson, vice president; Keith Boyington, secretary; and Ralph Bishop, treasurer. Kenneth W. Brooks is a new trustee.



RETIRING PRESIDENT Lawrence Evanoff (l.) of Spokane chapter congratulates E. Norman Sylvester upon receiving plaque for "outstanding service."

Northwest, California make plans for annual meetings

While the Northwest Regional Council, AIA, was selecting dates for its fifth conference, September 6-9, the California Council of Architects was naming the keynote speaker for its October meeting, Dr. Stephen C. Pepper, chairman of the department of philosophy at the University of California, Berkeley.

The Northwest architects will meet in Tacoma, with the Winthrop Hotel as headquarters for their conference, which this year will be extended by one day. Tentative events include seminars on wood products and prestressed concrete, a cruise and salmon bake, a dinner-dance and a trip to Mount Rainier.

The Californians, who earlier this year selected October 10-14 for their convention in Yosemite National Park, "will emphasize the relationship of the architect's work to his state and his community, rather than on technical professional matters," reports William Corlett of San Francisco, chairman of the advisory committee.

Dr. Pepper will speak on architecture as it relates to the world in his address on the second day of the four-day meeting. He also will take part in the principal convention panel October 12.

The California-Nevada-Hawaii Regional Council will meet during the Yosemite sessions.

A NEW HAWS FOUNTAIN IN Fiberglas



in 5 decorator colors* . . . and white



Designed by: CHANNING WALLACE GILSON



The striking lines of HAWS Model 10Y fountains, in your choice of complementary color* at no extra charge . . . add a brilliant finishing touch to your design. These three-bubbler wall mounted models are constructed of REINFORCED FIBERGLAS PLASTIC . . . *the modern strength material that is extremely light in weight!*

Model 10Y contains all of the HAWS advanced sanitation features. Angle stream fountain heads are raised and shielded, and are VANDAL PROOF mounted on receptor. Valves have automatic stream control and are self-closing. All exposed trim is chrome plated.

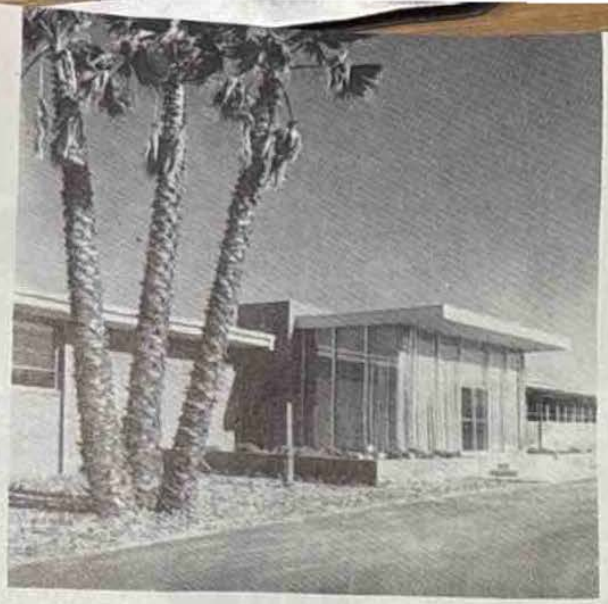
Take your choice of color . . .* and design this beauty into your next school job. It's easier to install and built for a lifetime of sanitary service.

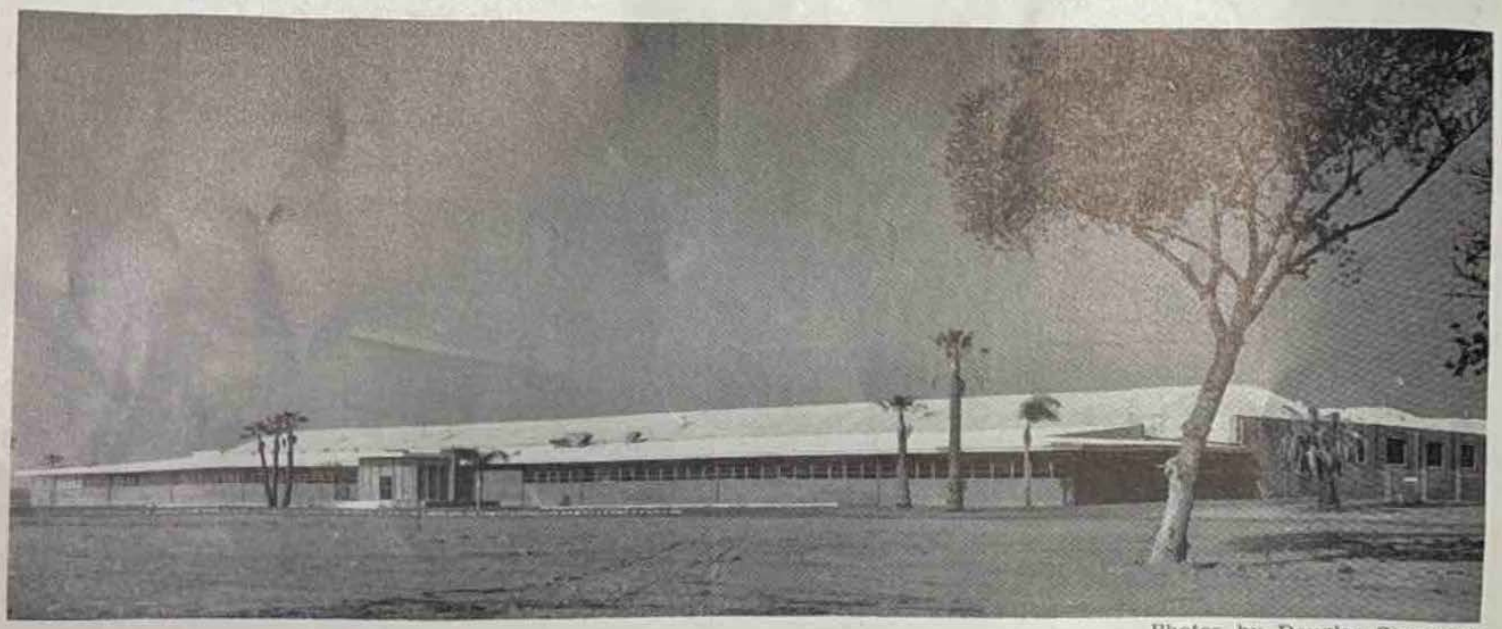
Write for full information, TODAY!

*MODEL No. 10Y complementary colors: Cerulean, Pistachio, Coral Accent, Yellow Mist, Gray Satin, and Petal White.

HAWS DRINKING FAUCET CO.

1443 FOURTH STREET (Since 1909) BERKELEY 10, CALIFORNIA





Photos by Douglas Simmonds

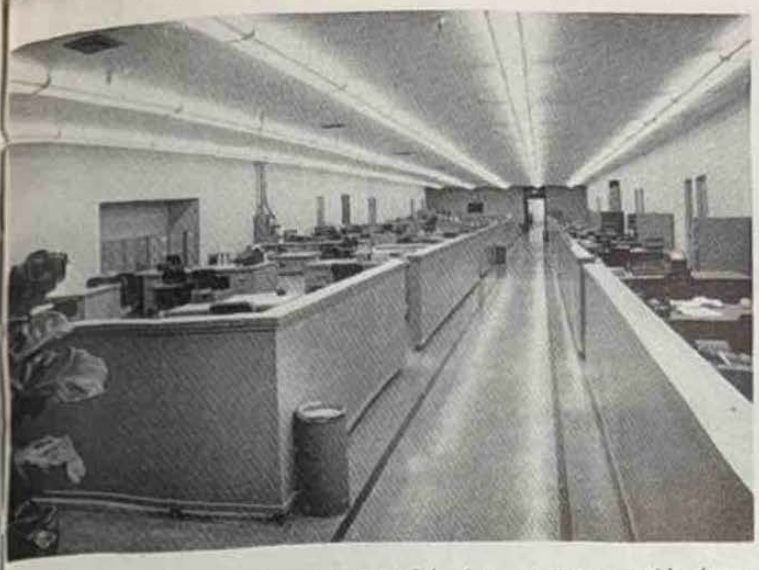
Economic planning goes to the factory

Pacific Mercury Television
Manufacturing Corp.
Los Angeles, California

ULRICH PLAUT, AIA
Architect

CHAUNCEY E. MAUK
Electrical Engineer

ZIMMER CONSTRUCTION CO.
General Contractor



MAIN OFFICE shows arrangement of business area to provide degree of privacy. Slimline lighting is used here.

OUTLINE SPECIFICATIONS

Type of Construction: Reinforced concrete tilt-up, with Gunite pilasters and joints.

Exterior Walls: Reinforced concrete and reinforced brick.

Roof. Built-up on wood rafters and wood sheathing, with ½-in. fiberglass insulation.

Windows: Projected steel sash.

Floors. Reinforced concrete, surfaced with asphalt tile in offices and laboratories except terrazzo in lobby and carpeting in president's office.

Interior Walls: Non-bearing, drywall finish on wood studs; wood paneling in lobby and president's office.

Ceilings: Acoustical tile suspended from tapered steel girders.

Lighting: Slimline fixtures on 277-volt system.

Heating: Gas Fired, suspended unit heaters with exhaust fans.

Total Area: 125,000 sq. ft.

Total Cost: $658,000 (including utilities).

Cost per Square Foot: $5.20.

Date of Completion: June 1954.

THE DESIGN PROBLEM: how to apply those architectural principles which would permit complete utility in an attractive structure for the manufacture of television sets, radios and other electronic equipment.

Specific requirements were complex, calling for research laboratories and offices for engineering, management, sales, purchasing and accounting, as well as an actual production line. It was also necessary to consider the maximum production capacity needs of 1,050 TV sets per eight-hour day.

The architect divided the single-story building, 290×420-ft., into two major areas—one for production and assembly, the other for engineering and office facilities, with everything under one roof for economy, flexibility and ease of supervision. He further divided the plant area into two 70-ft. spans and one 90-ft. span, the latter providing a clear space to accommodate three TV assembly lines. At present 1½ full lines are installed for producing 650 sets per day.

President Joseph Benaron insisted that the new plant be a pleasant place for his 550 workers. In designing for employee efficiency, the architect conveyorized a major portion of the materials handling and assembly lines. Picture tubes are carried by an overhead chain conveyor to the points where they are attached to the chassis, thence by the same conveyor to the assembly line and into the cabinets. Slat and belt conveyors move the products through final testing, marking, touch-up and packaging.

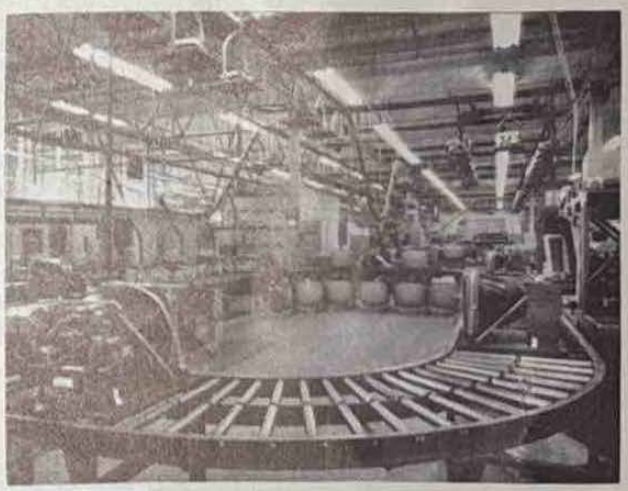
The site, 40 acres of gently sloping land, is bounded by two streets and a railroad main line. The city required the provisions of a buffer zone on the street fronts; it also demanded that all trucks, which deliver cabinets from the company's nearby plant and some of the raw materials, enter the factory from the south.

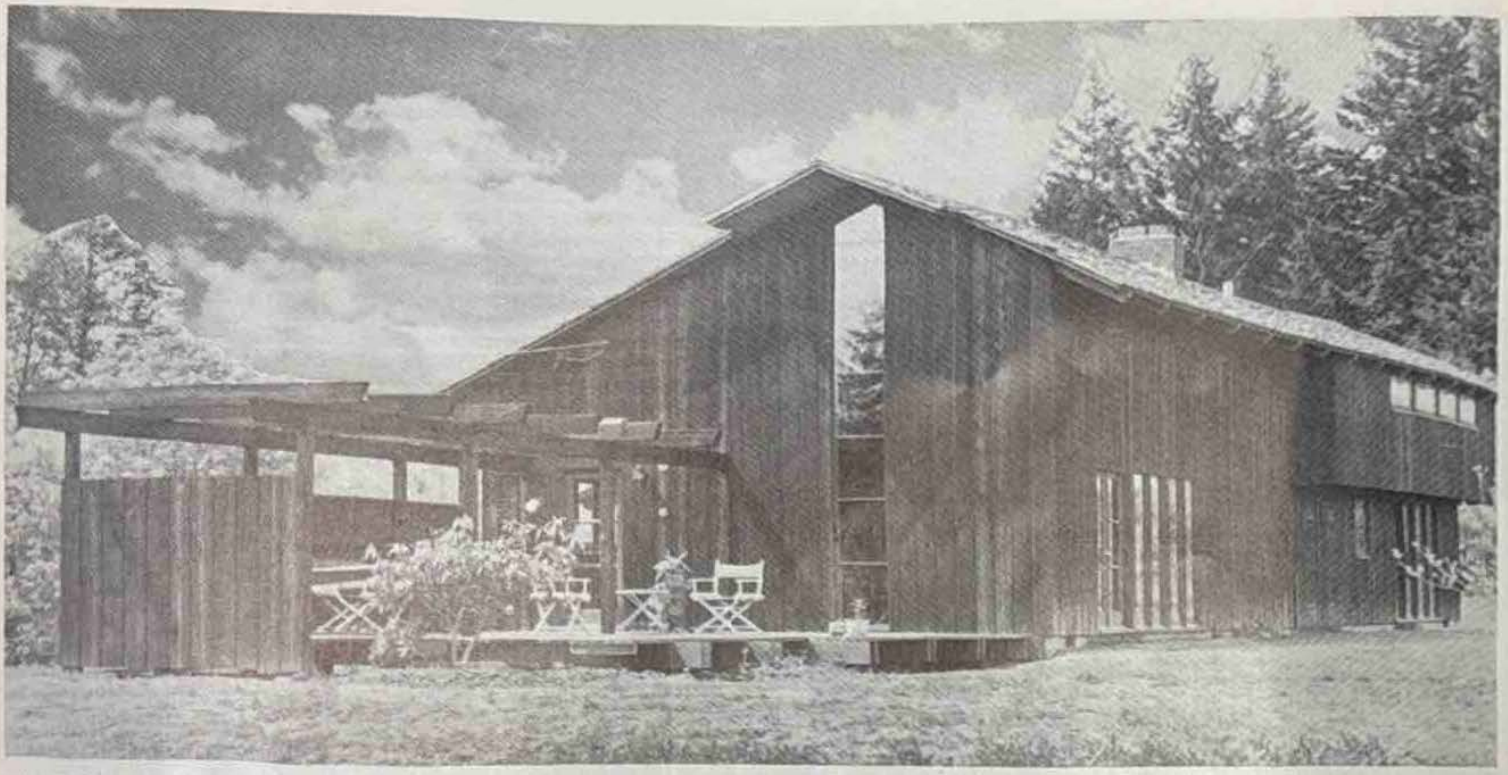
The main entrance and the lobby—located off center on the east side—actually divide the office section into management and engineering departments, with the present lunchrooms in-between to provide room for future expansion of either area. (A cafeteria will be built later.)

Space now is allotted for storage of finished goods. Later this area will be used for incoming inspection and subassembly work when a proposed finished goods warehouse is completed.



ASSEMBLY AREA above. Note cleanliness of plant and lighting. Detail of conveyor assembly line below.

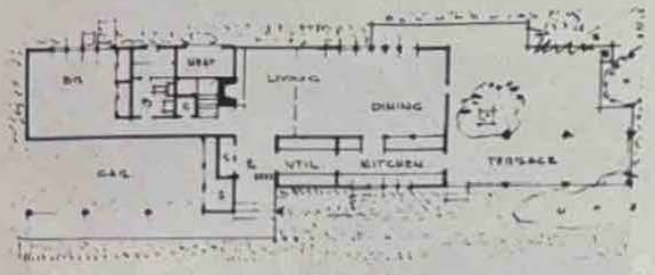




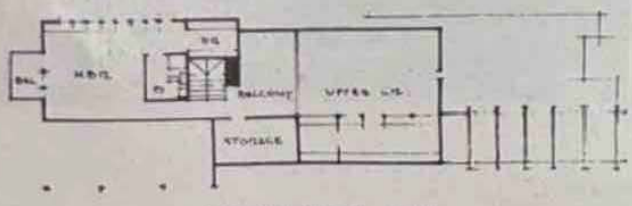
WINDOW looking out on pergola and patio is 18 ft. high, 20 in. wide.

Photos, including cover, by **Mac Macdonald**

A happy house with accent on vertical space



FIRST FLOOR PLAN



SECOND FLOOR PLAN

Richard A. Carlton Residence
Tigard, Oregon

CHARLES GILMAN DAVIS, AIA
Architect

JOHN BONEBRAKE
Mechanical Engineer

RICHARD A. CARLTON
General Contractor

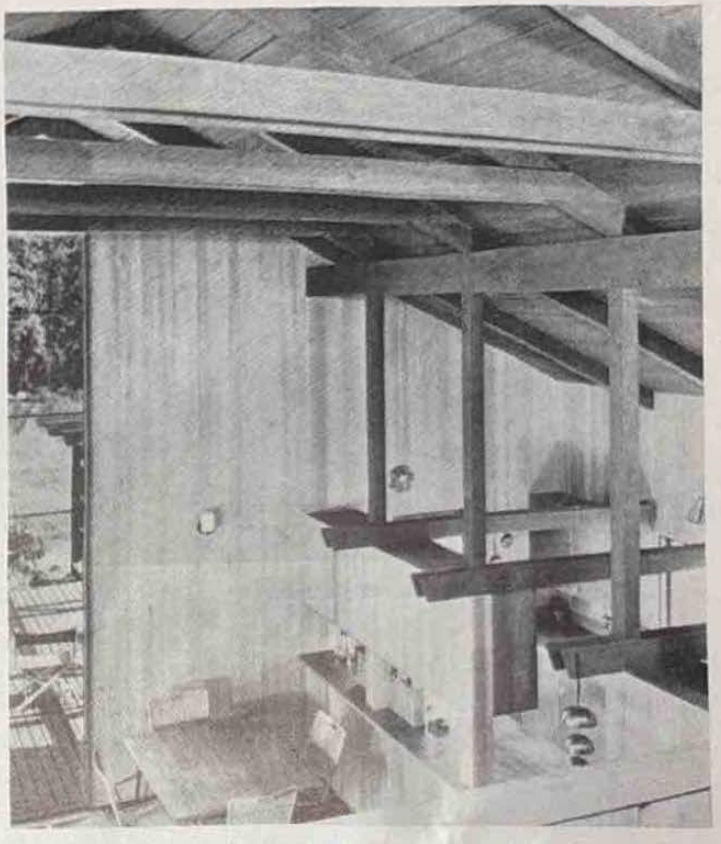
THIS UNUSUAL HOUSE comes as close to being a completely spontaneous creation as possible. The client, who accepted the first design, was in full rapport with the architect. The result, in the designer's own words, is "a happy kind of structure which seems to enjoy being a house."

The chief problem was how to create a residence to sit in the middle of a two-acre field, virtually surrounded by trees, and still maintain its identity. A two-story plan seemed the best solution, particularly since it allowed the client, who was then a teacher, to get away from two grade-school-age daughters. Even now the second level offers a retreat for both adults to pursue hobbies and other activities uninterrupted. As for materials, the architect specified woods sympathetic to the setting: rough sawn cedar for exterior siding; t&g hemlock for interior walls; t&g fir for exposed beams, floor decking, doors and cabinets.

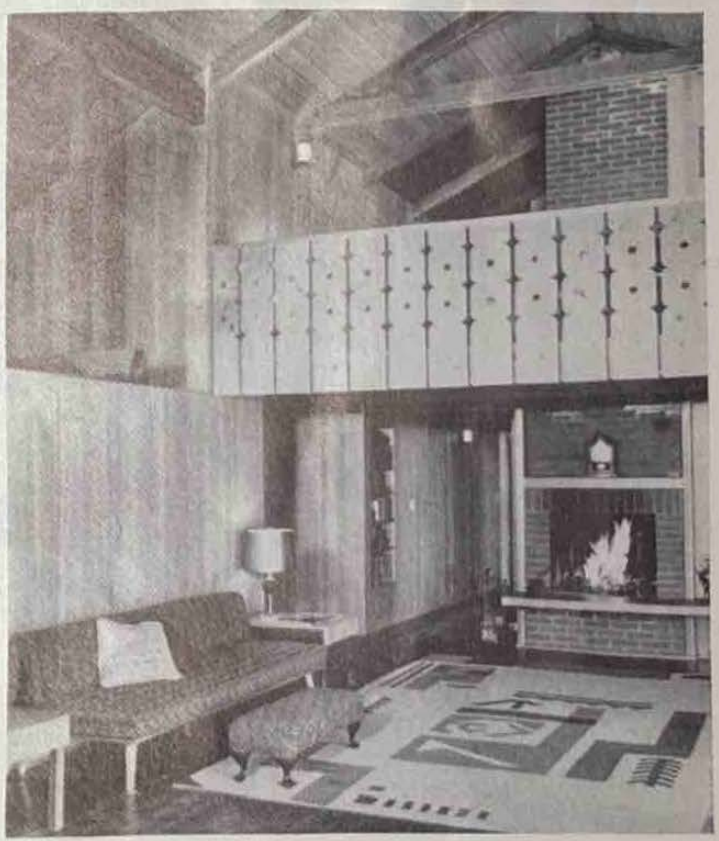
The open plan—1,024 sq. ft. on the first floor and 560 on the second—is characterized by extreme contrasts in vertical space which produce a feeling of spaciousness in the relatively small area. The living room ceiling is 18 ft. high while the underside of the balcony beams is 6 ft. 10 in.; bedroom heights vary from 5 ft. 6 in. to 9 ft. It was this "refreshing use of vertical space" that drew special commendation from an architect-jury who selected the house for an Award of Merit in the first design competition of the Oregon chapter, AIA.

The balcony railing at the fireplace end serves as a large decorative element in the living room (14x26 ft.). Its band sawn and drilled 2x10 railing is repeated in the winding stairway which leads from the hall and up to the master bedroom (16x13 ft.), off which there is an exterior balcony.

The galley type kitchen has a pass-through to the dining area, highlighted by a window 18 ft. high and 20 in. wide which looks out on a pergola and terrace. Since the site is open with no large plantings, it was desirable to provide some feeling of protection for the outdoor living area—thus the fenced deck with pergola for green shade.



DINING AREA at end of living room and kitchen with pass-through.



BALCONY, on which master bedroom is located, highlights living room.

OUTLINE SPECIFICATIONS

Type of Construction: Frame

Exterior Walls: Rough sawn, vertical cedar channel siding with dark reddish brown Cabot's stain.

Roof: Handsplit shakes over 2x6 t&g hemlock decking over fir beams; quarter pitch.

Floors: 2x6 t&g decking over fir beams, covered with linoleum in kitchen and bath.

Windows: Stopped in wood.

Doors. Fir.

Interior Walls: Vertical grain 1x4 t&g hemlock in natural finish; painted sheetrock in bathrooms.

Stairway: Wood.

Cabinets: Stained fir.

Insulation: Blanket in walls.

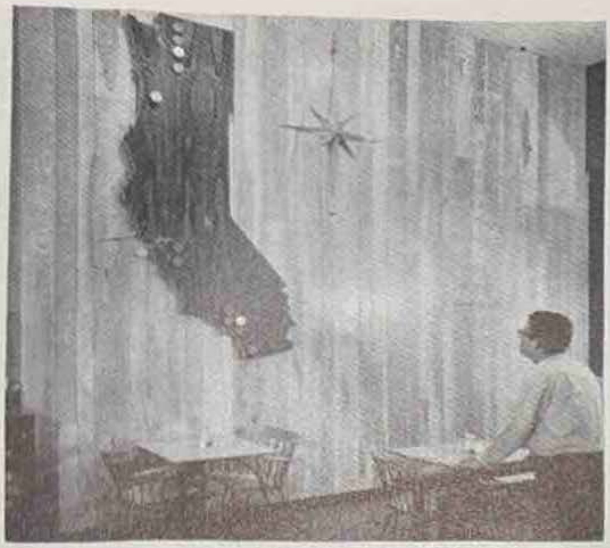
Heating: Oil fired, counterflow furnace in low temperature perimeter system with continuous flow operation.

Total Area: 1,584 sq. ft.

Total Cost: $15,000.

Cost per Square Foot: About $10.

Date of Completion: March 1955.



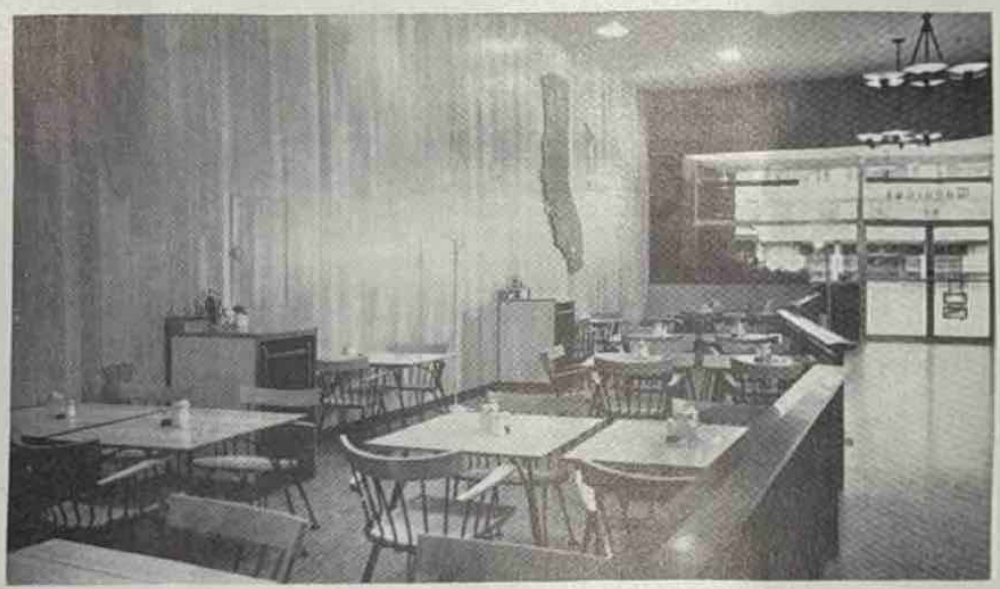
CUT-OUT MAP shows Manning's units.

Mannings, Inc.
San Francisco, California

WILLIAM B. McCORMICK, AIA
and HARRY JOHN DUTTON
Architects

DINWIDDIE CONSTRUCTION CO.
General Contractor

Large cafeteria has intimate details



BRICK to left of entrance is carried through plate glass inside. Wall is of ash panels, floor of terrazzo.

OUTLINE SPECIFICATIONS
(Complete Remodeling)

Exterior Walls: Dark brown lightweight cement bricks.
Windows: Kawneer aluminum sash.
Doors: Kawneer aluminum frame.
Floors: Original maple surfaced with Robins vinyl plastic tile; terrazzo in entrance area; random oak plank in men's clubroom.
Interior Walls: Painted plaster with wood wainscoting; Gladding, McBean tile behind all working areas; ash paneling on one wall; walnut paneling and finished cork in men's clubroom.
Ceilings: Acoustical tile with egg-crate latticework above double serving line.
Lighting: Incandescent; custom designed fixtured in one section.
Heating: Tempered air, gas fired units in ducts.
Total Cost: $500,000.
Total Area: 35,000 sq. ft.
Date of Completion: June 1954.

NEWEST IN A CHAIN of 46 food service and retail bakery units owned by Manning's in 15 major Pacific Coast communities from San Diego to Bellingham, Wash., is the largest cafeteria in San Francisco. The 510-capacity operation is located in a structure originally erected following the earthquake and previously occupied by a Woolworth store.

There was a small forest of columns in the old building, the ceiling was high, the maple floor had many badly worn spots and the basement was at two different levels. It was decided to hang an acoustical ceiling and use as much of the existing structure as possible.

The architects gave the columns varying treatments in different areas to break up the monotony of an unusually long room. They selected ¼-in. vinyl plastic tile with a filler in the worn spaces for the floor; they used terrazzo in the entrance area "to cut down on wear caused by grit carried in on customers' shoes." The tile was laid dry and is held fast to the rough base floor by heat and suction. Each individual square can be picked up for replacement should a tile be damaged.

The basement areas were allocated for food preparation on one level and personnel, public restrooms and mechanical equipment on the lower level. New utility lines were run in, the existing elevators rehabilitated and a new one added.

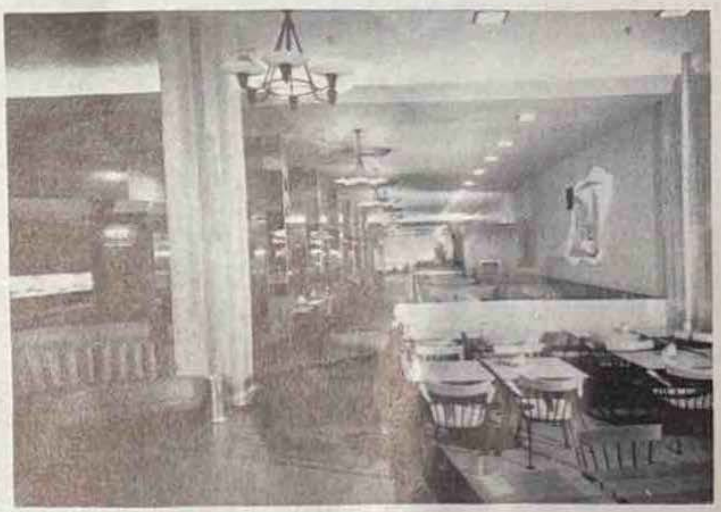
Total area of the main foor and basement is 35,000 sq. ft., with 17,000 sq. ft. devoted to dining space which is divided into five distinctive sections, each individually decorated and furnished. Since the interior from the front entrance to the extreme rear wall is 300 ft. long, the separate areas were developed to break up this vast room expanse. The stepped ceiling also helps to create more intimate areas.

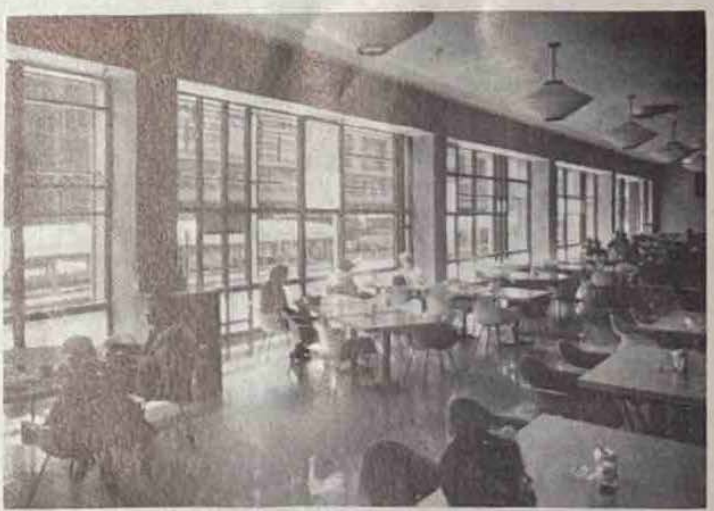
One of the sections is a clubroom reserved exclusively for men. It has walnut paneling and furniture, and a random oak plank floor. One wall is of finished cork and the entrance is through an accordian door made of limed oak.

The double serving line area is covered by an overhead egg-crate latticework of 24-in. squares, painted a soft coral, which helps to lower the ceiling of the old structure. Soft lights are imbedded in the acoustical tile ceiling directly above the lattice.

The retail self-service bakery operation, convenient to the entrance, is separated from the first of the dining areas by a curved wooden partition which faces a wall of random width V-grooved ash paneling. Lightweight cement bricks are used on the exterior and the brick sidewalls extend through plate glass windows into the interior, with extra large brick planters adding a note of interest on either side.







DOUBLE SERVING LINE with egg-crate lattice ceiling and tile behind all working areas (top). Entrance to 300-ft. long dining area (middle). Serving counters are separated from dining area by structural pillars covered with mirror glass. Dining area—one of five—with 110-ft. long window arrangement (below). To provide element of privacy and create interest, architects designed Mondrianesque screen of wood and multicolored plexiglass which permits entry of daylight but shields diners from street.

Architecture for the *Good Life*: Part 2

The keynote address delivered before the 88th annual AIA convention in Los Angeles

by JOHN ELY BURCHARD
Dean, School of Humanities and Social Studies
Massachusetts Institute of Technology

IN OPENING these dialogues it has seemed to me that I might not be able to do anything more useful than to comment on conditioning forces in America which may bear on the possibility of reaching towards this lofty interpretation of Architecture and the Good life.

Before I do this, one other distinction ought perhaps to be made. We do, I suppose, have to ask ourselves whether we are talking about architecture for history or architecture for our own times. I doubt that anyone ever built great architecture or did any great deed because he was eager to gain the applause of history. You realize that some important historians have asserted that the judgment of posterity did control men's acts; in particular that men of evil intentions might be deterred from evil deeds for fear of the scolding they would get from history. This seems dubious doctrine to me and I would expect the same to be so of good deeds.

But there are societies which have left us monuments of their architecture and societies which have not; and the suspicion remains that those which have, have done so because they built durably; in turn the expectation is that they built durably not because they did not know how to build ephemerally but because they expected that things in which they believed had some probability of permanence. The first temple of Apollo at Delphi was of wood and legend follows it with one of feathers and beeswax and one of brass but it ended in stone. It did not end in stone because the Greeks who built it cared only about what their successors would think, but because they expected both to gain current enjoyment and profit from its use and to leave it to a posterity which would enjoy it and for the same reasons.

Now it is pretty evident that our current building materials will not survive for our descendants to study, much less to admire. The glass and the metals will go; if anything remains it will be those buildings of Washington like the Mellon Gallery or the Jefferson or Lincoln Memorial which are least typical of our culture. We are right of course to build buildings that serve our current needs well and not to inhibit this service by demanding an unnecessary permanence. But permanent building and building for contemporary needs are not necessarily antithetical. The basic truth is in the inference from our building and from our architecture that we do not believe in permanence.

This is the first of my points about the American scene. It is a scene in which, ever since the 1820s anyway, almost everyone has believed things would be quite different in a decade, at least west of the Appalachians. Economic circumstances would improve for some families, decline for others, but in general they would all improve. As they improved or even as a consequence of that improvement a given American would not expect to live his whole life in the same region or at least not in the same neighborhood or house. Much less would he expect his descendants to do so. The general theme of literature, of the agrarian myth as Hofstadter describes it, of technology, indeed even of architecture, has been that things would change so rapidly that it was extravagant to invest in permanence. Thus hyperconsciousness of the ephemeral which is peculiarly American has accelerated rather than diminished with time. It undoubtedly has some meritorious consequences. But it has unfortunate consequences too. You can see these in caricature if you contrast the appearance of a little town on the eastern slope of the Sierra or the Rockies with its opposite number at 5,000 ft. in a Swiss valley. The Swiss who live in such a valley are much poorer than their American counterparts. But when they came there they expected that the family would remain and they began to build accordingly. They acquired a corporate and communal pride; they cared for the total appearance of their community and for their own individual contribution to that appearance. The results are of course fabulously more satisfactory. No one in his senses would exchange the life in a Zinal or a Saas Grund for the life of a Leevining or a Reno even if television and filling stations never come to the coves of the Valais.

There are probably other differences in the Swiss character which have something to do with the differences in the solution but the general disorder and squalor of most of our towns west of the Alleghenies and many east of the same range is so discouraging that one likes to find defenses. One of these I am sure, and an important one, is our sense of the transiency, not so much of our life spans as of the ways we live within that span. Now that the physical frontier may be gone for Americans some of this urgency of change may disappear but I doubt it; for there is a new frontier whose boundaries can not so easily be stated—and this is the frontier of technological change. The opportunities this offers for real architecture will be boundless; that they can be much realized in the absence of some convictions of ours that some things anyway are here to stay, I very much doubt. Meanwhile this sense of transiency will continue to manifest itself in the strips which degrade the highway entrances to every community in our land and which are gradually inserting themselves into the centers of our towns as well.

There is reason to believe that this expectancy of early obsolescence is truly an American characteristic because it is not a new phenomenon which can be associated only with the vertiginous acceleration of the fruits of technology. You can find traces of it even as early as Emerson. German and Swiss and French peasants fought it for a time when they built their colonies in Pennsylvania, Ohio, Illinois or Iowa but their children have ceased to resist and even the constructions of the Amana colonies are changing from architecture to building.

Closely related to this consciousness of the ephemeral is the fact that Americans are enormous consumers, one might even say scandalous consumers. It is well known that we use such a large quantity of almost any natural resource per capita as compared with that available to peoples in other parts of the world that we are subjects not of admiration but of suspicion and resentment. This suspicion, resentment, envy would exist anyway but it is augmented by our patent waste of these resources. Our entire history has been one of a people finding lavish means and destroying them quite as lavishly, whether they were forests, mines, topsoil or water. The kitchen middens we might leave to posterity should be a cause for acute embarrassment if we cared about the judgment of posterity. You well know that at this very moment there is something resembling a gray market in steel for buildings, but this is not really because of the enormous consumption of the military program though that is bad enough. No, the plain fact is that it is still the automobile industry which is the avid consumer; that this industry is built upon a process of artificial, unnecessary and, in the light of other world standards, even immortal obsolescence. It is a little risky to go further because the relation of the automobile industry to the entire prosperity of the country is probably very sensitive but one can hazard the guess that what is good for the automobile industry may not be good for the architecture of America.

But it is not of course the automobile industry which is the only demon in the piece. The makers of refrigerators or indeed of any other article of consumer goods would create the same artificial obsolescence if they knew how, and don't think for a moment they are not trying to find out how.

Nor is it only obsolescence. After all much of the steel can finally and ultimately be reused as scrap. This is not true for glass bottles. It is cheaper there to start again with original raw materials. So these hypothetical kitchen middens of ours will consist mostly of glass, some from the shattered plate of our new buildings but mostly in the form of Coca Cola bottles which march en masse through the land while building glass is also in short supply. The public holds the Coca Cola bottle in higher esteem one would conclude than it does a window of the Sainte-Chapelle.

I have exaggerated this a little simply to point out that this elaborate and general belief in the inexhaustible resource with its accompanying egregious waste of everything plays hand in hand with the sense of the ephemeral to produce a social climate in which building for permanence seems to have little meaning.

There are two or three other things about the American environment that bear investigating. We rest comfortably with the impression that we are about the most ingenious people in the world and speak of Yankee inventors as though they had existed in every hamlet of early America. This is a kindly myth. Some myths are true. This one may not be. It would be very hard to make a case that even on the scale of pure invention this country had consistently produced more important inventions per capita than others. Indeed we would be likely to find to our shame that this was not so. Clearly we have not, per capita, produced as many creative ideas in science, philosophy, literature or the arts as several other parts of the world. Indeed in many of these areas of the higher artistry we have produced scandalously few. In architecture perhaps our only significant native innovators up to now have been William Le Baron Jenney, Frank Lloyd Wright, Buckminster Fuller and one other whom I will not name so that each of you can tuck in a name that suits him and be less resentful of this assertion. Of these the most imaginative has hardly built a building at all; the greatest was never really accepted in this country until long after it mattered; and such effects as we have felt from his innovations have largely come to us through the hands of German and Swiss translators and translations.

But we do have a different quality which has stood us in good stead. Once we recognize the general merit of an innovation we are not afraid to go for it hard. So once the meaning of the cavity magnetron got into the American consciousness we produced not only a larger but also a more varied set of radars than the British conceivers might have been expected to do; the atomic bomb emerged in America from European-born concepts; once we really grasped the principles of Le Corbusier and Mies van der Rohe we began to exploit them in profusion and with some, though perhaps not enough, variety.

Here we are talking of course of a past. There is some evidence in science that more ingenuity has come into American physics and mathematics, and I suppose in time we may expect to see it in architecture too; but this does not necessarily follow, for Americans have generally been more innovative in their science and its technological applications than they have been in their aesthetic creations and quicker too to understand, adopt and modify the ideas of others. We have yet for example to try to make anything very serious of the many partly formed suggestions for glass shielding which appear in such profusion and often with such dramatic aesthetic effect in the countries to the south of us. The unbridled imaginations of Italy and Mexico may create many horrors such as our more restrained efforts may avoid; but they may also cast up some mountain peaks which we have as yet, with the possible exception of Rockefeller Center, the United Nations and 860 Lake Shore Drive, refrained even from trying to build.

It is common of course for Europeans to speak of us as a violent people; and we probably like to think of ourselves so. But the fact probably is, as Ruth Benedict has I think suggested, that we are more like Zunis who avoid excess than like the Kwakiutls who shoot the works at a potlatch dinner. This shows itself in the reluctance with which we have adopted the brilliant engineering schemes suggested by the works of Freyssinet or Maillart or Nervi or even of our own Buckminster Fuller and in the enormous restraint we have shown both in the use of sculpture and in the use of texture in buildings; even most of all I suppose in the extent to which we exclude sculpture and painting from our buildings. Restraint is even too kind a word; reluctance and disdain may not be too harsh. For this there are several reasons. For the moment I wish to speak only of the Zuni aspect. With respect to any of these excesses we ordinarily proclaim in virtuous terms that they are too expensive. It may well be that a Nervi system is better economics in Italy than it is in America but to apply economic determinism to art is the last refuge of the unaesthetic mind. We are incomparably the richest nation in the world. That is what the Athenians were after they moved the Treasury of Delos to Athens in the name of safety, but they were not afraid to spend this wealth on the architectural and sculptural embellishment of Athens; and so it was with the Romans; and so it was even in the poor villages of the Ile de France in the 13th century; and even with the prudent English Victorians.

But now in the richest land the world has perhaps ever known we say over and over again that we cannot afford these aesthetic extras; the national government cannot afford them; the richest industrial firms cannot afford them; the universities cannot afford them. So

our campuses have no sculpture save a few aging and desultory portrait statues of long-gone presidents sitting in armed chairs; and college presidents say that their constituents, that is the donors, big and little, who are already pressed to the breaking point, would resent such extravagances. No doubt they would, but what more pressing job could there be than to educate the donors that this was not extravagance? You learn about art and architecture by being with it and seeing it and not by talking about it: one good contemporary statue on a college campus would have more educative value than many kodachrome slides of Mona Lisa and Moses. Architects have no right to feel virtuous in this matter. Most of you refrain from suggesting such embellishments; when you do you almost never put them in as indispensable; they are rather budgeted separately. Under these circumstances surely no architect is so naive as to believe they will not be the first thing to be cut when the budget runs over as it almost always does. Indeed it is all too often the architect himself who acts as the executioner at this point of crisis.

We can not really plead this economic excuse for our omission of art because of course we can afford it. The plain fact is that we do not want it very much. We do not mind the used car dumps very much. We even learn not to see them. But on the positive side which is more important we do not labor very hard to produce this larger and common, non-museum, art environment which has characterized every previous high culture. That is bad enough. It becomes sickening when we talk in hypocritical terms of economic barriers almost as though it were a matter of morality to build a building cheaper. If there is any morality at all in great architecture on the economic side it probably rests in wasting money for elegance, not in saving it by leaving the sculpture out of the final budget. But I am not one who wants to say much about morality and architecture.

However if I may wander for a moment let me say that morality has not much to do with architecture. Ruskin of course was full of morality—architecture was immoral if it served an immoral purpose and so the Colosseum and the Renaissance Palace had to go; it was immoral if it employed cast iron for this was a material which **seemed** to have required more hand labor than it really did. Viollet le Duc put in his oar when he talked about the morality of structure in the Gothic cathedrals, a morality which was by no means always there and would always be scuttled in favor of the more important thing that the cathedral must be a reflection in stone of the major principles of the Summa of Aquinas stated in words.

Now the very modern people who reject most fully the canons of Ruskin can be found also to be talking of morality. It has somehow become honest and natural and organic to display the structure as blatantly as possible and anything else is dishonest and even unnatural. These are harsh words and used inconsistently. There are no animals in nature, for example, except a few exoskeletal ones like turtles and lobsters who betray their skeletons clearly. Often even the musculature is not clear. The structural system of a tree is not apparent to the eye of common sense. The animal which is thin enough to show its bones, we look upon as an undesirable and ugly animal whether it is an old horse or man-eating tiger. It may well be that from expressions of structure behind hung walls, transparent or not, we have achieved a certain desirable and appealing aesthetic. But let us be content with that for it is a great achievement. Let us not go around calling our predecessors or their work dishonest any more. That we do not want to emulate the activities of another man or another age is no excuse for accusing the other man or the other age of immorality or dishonesty. Indeed any one with sense of history, and of how the tides of the affairs of men ebb and flow, and how the winds of taste and desire veer to all points of the compass, will be a little slow even about calling another age a stupid age. But of course there is not much sense of history left in us.

I feel a little less sure about one other possible American quality. I think we lack a certain sense of innate fitness and order in matters of aesthetics. But what I am not sure of is whether this is a corollary of our adoration of the ephemeral, our enormous consumption and our reluctance really to go all out for any kind of pageant, social or architectural, or whether it is an independent trait. What I do sense is that the people of Portugal can for example assemble paints on tiles of a wide variety of apparently incompatible colors on adjacent houses piled on the hills of Lisbon and achieve a kind of overall pleasant effect which seems to me missing from any of our spontaneous and even most of our calculated efforts in this direction. This is a quality which is achieved in many areas of the world; elsewhere on the Mediterranean for example; and it seems to be in a different way possible in the mountains of Tibet or Switzerland, in Bali, in Japan. I am not ready to yield easily to the notion that this rests on technical grounds such as the quality of the sky or the impermanence of foreign paint; because California also has such a sky and has not produced such results; and I know of no greater total chaos than the jumble of some new streets on some California hills where almost every individual house is one of substantial distinction but where the collective result is almost more horrible than the pedestrian villas of a suburb.

I have painted this picture of American traits in strong colors deliberately to overemphasize the soil on which American architecture has had to grow. That it has grown so well almost in opposition to the soil seems to me a tribute to the persistence of American architects. It is a persistence which was manifested long ago, which began indeed with the efforts of such men as Jefferson and Mills and Thornton, not always sophisticated or even refined in proportion but always with a certain simple effort towards elegance. The more sophisticated talents of Manigault and Latrobe blossomed once in the Greek revival which has left buildings of dignity throughout our landscape, buildings which we need not repeat but which have been little tarnished by time. It appeared in renewed form in the work of men to whom we are ungenerous today, men like Hunt and McKim and Stanford White; in the towering and robust and not quite so derivative Richardson; in the brave poetry of Sullivan fortified by the earthy realism of Adler; in the wide dreams of Burnham made true so long as he was allied with the sensitive Root; in the undoubted and unfettered but not always appreciated talent of our one sure native genius, Frank Lloyd Wright; in the sentimental medieval aspirations of Cram and the more imaginative adaptations of Goodhue; in the original work of men like Maybeck and Gill and the brothers Greene on the West Coast. And all this was not in vain though not all the men were original and though not all the works were suited for the tasks of today or even always for their own day. But Boston would be the meaner without its public library and its Trinity Church. In all this there was a surge towards a future, a future which is now with us; a future which was anticipated by the

evolution in the work of Raymond Hood; a future which built on the welcome this country finally gave to great visitors, men like Neutra and Mendelsohn and the elder Saarinen and Gropius and Mies van der Rohe.

All this was a long time coming. Innovations perhaps continue to pour in more from abroad than from our native soil. Yet in the last analysis if one were required to name the nation in which the highest average of architecture was now being maintained he must and without chauvinism name our own land. In this country architecture, so far as what architects do, has finally come of age. We have a past of which we need not be ashamed and a future which we need not fear; and this has come about despite our will to the transient, our enormous and wasteful consumption, our puritanical rejection of the opulent, the colorful, even the elegant, our native tendency toward the disorder of the newspaper litter and momentarily silenced horns of New York and the ubiquitous used car dump. On all of this we can look with some pride, but also humbly for we have not reached the stars.

We can look with most pride perhaps to the most recent phenomenon: that foreigners now come to America in numbers to study architecture, architectural design I mean as well as building methods; and that the architecture we now export abroad is often something of which we may be proud.

But this does not mean that all the problems are solved. While our buildings have, as individual buildings, taken on a distinction which American architecture itself has never before possessed, save perhaps in the dignity of the New England village green or the plantations and courthouse squares and little parish churches of Tidewater Virginia, our cityscapes have become increasingly ugly. No building can like St. Sophia be clearly seen. Scale competes with scale and never in moderation. Large throughways move us rapidly through the urban terrain and sometimes obtain their own beauty. But this is a beauty like that of the Roman aqueduct and not the beauty of the urbs. We have not learned to cede space to squares and axes so that noble buildings can be seen and comprehended instead of fragmented by fragments of other buildings; again we argue that we cannot afford it. We have not learned how to restrain the excesses of competitive advertising while losing none of the gains of convincing exhortations to buy; we have found no way to control disorder either by law which is least desirable or by a commonly found self-discipline which is most desirable.

Yet all of this is easily possible as the Athenians could teach us; and some men understand the problem. Not enough men understand the problem for we have failed almost completely in our effort to interest the common man in the problems and the eloquences of a great national architecture. We have failed for the most part even with the elite; and if the educated be the elite we have to face the fact that every year great universities containing great architectural schools are turning out graduates the majority of whom are visual illiterates and have hardly heard of architecture, much less made any effort to comprehend it. Yet these are presumably the men who will later sit in the seats of decision about our architecture. It takes men of great talent to create the architectural potential and I think we are devoloping that talent, but it takes a public of some general sensitivity to create a world in which great architecture will be the order of the day; at least that is the way it will have to be in a democracy. In this preparation we have, I should guess, almost completely failed.

But this is an external failure and one shared by the makers of other arts and even in a fundamental way by the makers of science too and other intellectuals. There is also an internal failure which is less defensible.

I refer of course to the paucity of adornment of our buildings. By this I do not mean architectural forms so much as sculpture and painting. The divorce of the architecture of America from the sculpture and painting of America is almost as complete as the divorce of painters and sculptors from the ideas of the general public. But this is with less justification. Though history does not exactly ever repeat itself, it is hard, if not impossible, to think of any great past architecture in which sculpture and painting were not used to the hilt. It is not a little arrogant to say, as some do, that the building is its own sculpture and its own painting and that no help is needed. Is it not only a little less arrogant to arrange things so that the painter or sculptor is drawn in only at the last moment as a kind of superior interior or exterior decorator. Here and there, there have been more serious tries of course and not often, alas, very successful tries either. But failures do not justify giving up.

Nor will it do to insist that painters and sculptors of today are so undisciplined and so personal that they will not tackle the difficult problems of adjusting themselves to the discipline of a building. Artists have always in one sense been undisciplined. But this discipline has always been imposed on the artists who would apply their art to architecture. It was prominent in the technical problem of the Doric pediment with its terrific limitations of geometry; it was present in the easier form of the Gothic tympanum but controlled still more there by the dicta of the iconology and the rules of the Council of Nicaea; it was awkward for the fresco painters who had to adorn the broken walls of the Renaissance. The technical problems of today's architecture are easier really than these and it seems to an outsider that only the will to use art is lacking and in particular the will to use painters and sculptors as collaborators and partners and not as paid employees. This lack of will inhibits our achievement of architectural ecstasy.

But despite all this one can sense well-being and future fruition, not despair. American architecture has matured enormously in the last decades; even the federal government, even the universities, show some signs of maturing. There will remain for a long time the slow process of modifying old established and well-ingrained habits of thought, modifying them some and to finding as well ways to exploit them so that all the concessions do not have to be one way. There will remain the problem of dissolving the long estrangement of American art and American architecture. I cannot believe these problems to be impossible of solution. I cannot believe that in the long run the wealthiest nation in the world, and in some ways the most daring, will not cease to be timid and tepid in its acceptance of its total aesthetic opportunity and responsibility. It is not impossible that we may achieve in America a sort of Periclean age in architecture. American architecture is now mature; it needs only to become great. Then a future American president might truthfully say on a great occasion: "Yet ours is no work-a-day nation only. No other provides so many recreations for the spirit. We are lovers of beauty without extravagance and lovers of wisdom without unmanliness. Wealth is to us an opportunity for achievement, our buildings cheer the heart and delight the eye day by day." It is in this sense and this sense only that I believe we can legitimately couple the words Architecture and the Good Life.

Materials – Products – Tools

and the latest literature

METAL MESHES: Expanded metal meshes which are versatile enough to serve as the main design element or to lend an added expression to a general ornamental theme are being offered by United States Gypsum. The four new meshes — Rondo, Festoon, Wavelength and Armoweave — are available both in three-dimensional and flattened patterns where a smooth surface is desired.

Architects and decorators will find the meshes helpful in developing advanced designs for portable and fixed screens, room dividers, book shelves, ornamental trims, grilles, ceilings and partitions.

(Item No. 1)

SLIDING WINDOW: Builders will be interested to learn that Durell's Duraglide aluminum sliding window provides a fully integrated frame to accommodate the sliding unit as opposed to former types in which it was merely fitted into a regular frame. This avoids unnecessary fitting time in installation.

The window is completely weatherstripped against dust, rain, wind, etc. Screens can easily be snapped in from the inside. Duraglide incorporates a safety factor because the window cannot be lifted or removed when locked on the inside. Provision also has been made for locking it in a partially opened position for safe ventilation.

(Item No. 2)

CHIMNEY: The brick panel housing of the Van-Packer masonry chimney is now offered in a choice of three brick colors—red, buff and white—enabling project builders to vary the roof appearance of their homes and custom builders and architects to harmonize the chimney with the exterior color scheme.

The housing is constructed of fireproof, weatherproof cement asbestos. Completely packaged including the flashing, the Van-Packer is a safe, permanent chimney which can be put up in three hours.

(Item No. 3)

DRINKING FOUNTAIN: A three-bubbler, wall mounted drinking fountain designed with flowing contour lines should feel right at home with modern school design and can be adapted for use in other locations where multiple drinking facilities are required. The Hawes lightweight fiberglass model is available in five decorator colors, besides white: Cerulean, Pistachio, Coral Accent, Yellow Mist and Gray Satin.

The three-angle stream fountain



FIBERGLASS FOUNTAIN

heads are raised and shielded to prevent direct mouth contact, self-closing valves have automatic stream control and all exposed fixtures are polished chrome plated brass.

(Item No. 4)

CHALKBOARDS: The squeal of chalk on blackboards may soon join the little red schoolhouse in educational limbo. A new chalkboard, green not black, is a sheet of plastic and glass fiber with a silent surface. The softness, which eliminates the squeal, also reduces glare and makes for easier reading. Called K-lite, it will be sold in sizes up to 12x3½ ft.

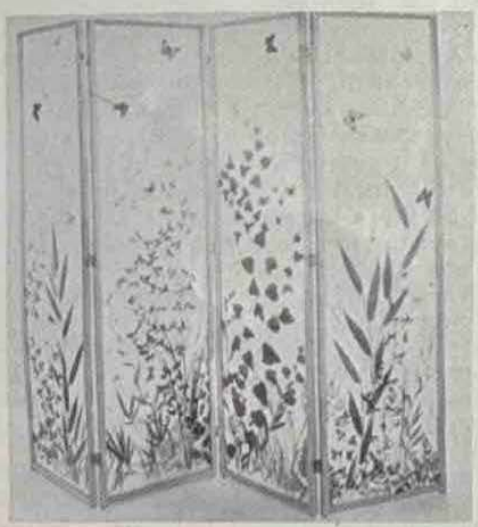
(Item No. 5)

DECORATIVE PANELS: For screens, room dividers, entrance ways and many other areas, Luis Cardenas of Glass Laminators has designed a series of decorative fiberglass panels using such materials as natural foliage, photographs, maps or coins.

The three lines now available include Pagoda, oriental silhouettes in color including natural leaves and butterflies; Nature, a composition of natural leaves and plant life; and Custom, created to customer's specifications using whatever motif he wishes for home, office or club.

Cardenas panels are made with a glasslike surface on one side and textured fiberglass on the other.

(Item No. 6)



UNUSUAL PANEL DESIGNS

AIR CONDITIONERS: Utility's new line of air cooled air conditioning units are simple for field installation with existing forced air furnaces. Consisting of a condensing unit, evaporator and tubing, the units are designed for every type of forced air installation, including horizontal and counterflow furnaces.

The condensing units, which feature extra large blowers for a quieter and larger volume of air movement, come in four sizes: economy two-ton, full two-ton, three-ton and five-ton.

(Item No. 7)

POLYSTYRENE BLOCKS: United Cork has obtained the license to manufacture and market Uni-Crest, an expanded polystyrene originally developed in Germany. The process permits molding polystyrene beads into any shape or form desired which, when laminated with wood, steel, aluminum, plastic or fibrous facings, produces a strong, lightweight, durable, decorative building material.

Uni-Crest has a low rate of heat transfer and water absorption, is impervious to parasitic insects, vermin and fungi and easy to handle. It is recommended for perimeter insulation of homes and industrial buildings.

(Item No. 8)

PLASTIC SURFACED PLYWOOD: GPX Yellow is a medium density plastic surfaced plywood designed to speed construction finishing and cut building costs. It is specifically intended for use where painting is required and edges should be sealed and filled.

Georgia-Pacific makes the plywood in standard 4x8-ft. panels in thicknesses ranging from 5/16 in. to 1¼ in. It can be used as exterior siding, either panel or lapped, and for gable ends and soffits in home and industrial construction; its smooth surface makes it suitable for built-ins, compartmented walls and partitions in residential work.

(Item No. 9)

BASEBOARD HEATERS: Crystalheat's latest innovation in perimeter heating systems is an electric baseboard radiant-convector type. The wafer thin panels permit full use of every room and do not impair furniture arrangement.

The Crystalvector is available in modular lengths of 4 ft. rated at 1,000 watts and 2 ft. at 550 watts. A built-in 115-volt wall receptacle which is styled to become a part of the regular baseboard heater is offered as an accessory. Floor lamps and other appliances can be plugged in.

(Item No. 10)

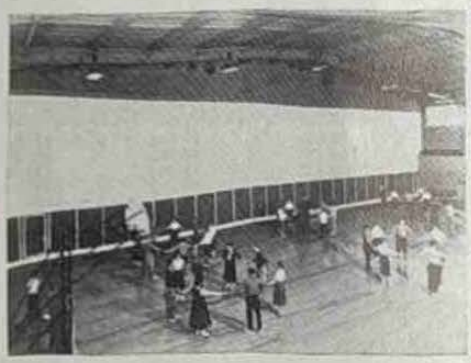
Latest Handbooks, Manuals and Literature

Yours for the Asking

ALUMINUM WINDOW CARE: The title of a 16-page booklet, "The Care and Cleaning of Aluminum Windows During and After Construction," speaks for itself. Published by the Aluminum Window Manufacturers Association, it details simple procedures to guard window finishes during handling, storage and installation and provides basic data on how to restore the finish of those which have been neglected over a period of years.

(Item No. 11)

ALUMINUM PARTITIONS: The first installation of an aluminum folding partition for gymnasiums—West Sen-



ALUMINUM PARTITION

ior High School of Aurora, Ill.—is covered in an eight-page brochure. The Richards-Wilcox partition consists of 27 sections that are 3 in. thick, 4 ft. wide and 27 ft. high. Each panel is composed of an extruded aluminum frame and a resin impregnated honeycomb core to which is bonded the embossed aluminum facings. The core extends to the full dimensions of the frame to which the facings are roll-interlocked.

(Item No. 12)

CORK TILE FLOORS: Dodge has issued a booklet which presents clear and concise instructions on how most easily to maintain its flooring products. Separate pages are devoted to standard cork tile, SG finish cork tile and vinyl cork tile, each of which requires a slightly different maintenance procedure.

(Item No. 13)

VERMICULITE SPECS: Vermiculite Institute has revised its 12-page booklet, "Standards for Vermiculite Plaster and for Vermiculite Acoustical Plastic," to include new provisions of the American Standards Association specification for gypsum plastering.

A new section on machine applied vermiculite plaster has been added and the specification for vermiculite acoustical plastic has been completely revised to include machine application.

(Item No. 14)

WALL PANELS: A picture folder shows various combinations possible with Shadowall panels which accentuate the natural grain of the wood. Both sides are processed for greater selection of grain and paneling variations. The panels are tongue and grooved on both edges and ends.

(Item No. 15)

SWIMMING POOLS: Modern's 52-page catalog contains data, photographs and prices on just about every item needed to build a new residential or private swimming pool or to equip and maintain an existing one. But there's other information too which will be helpful to pool owners and builders, architects, engineers and institutional and school administrators.

The section on proper care and maintenance of pools, both filtered and unfiltered, covers such aspects as filtration, flocculation, cleaning, chemical treatment, chlorination, algae control and water testing.

(Item No. 16)

BATH, KITCHEN PLANS: While this booklet is intended primarily for builders and home owners, architects too will find some useful tips on how to plan better bathrooms and kitchens. Gladding, McBean in its brochure has emphasized the desirable but often forgotten features such as plenty of cabinet storage space, ample countertops and good lighting. Suggested floor plans for maximum efficiency of limited space are featured, along with diagrams of helpful hints for better uses of these areas.

(Item No. 17)

STEEL BUILDINGS: How to solve big building problems—from 1,600 sq. ft. up—with rigid frame type steel structures is explained in Armco's six-page folder. The well illustrated piece includes specifications and descriptions.

(Item No. 18)

WOODWORK FINISHES: A stimulus to new approaches for use of knotty wood paneling through special color finishes is found in the Western Pine Association's latest folder. "Fine Finishes for Kitchen Paneling and Woodwork" is the second in a series depicting finishes especially created for different rooms in the home but applicable to any or all rooms.

The folder's six finishes are entitled Shadowy Shoshone, Apache Gold, Mojave Maroon, Palouse Skies, Green River and Ochoco Ochre. Recipes for attaining the finishes, displayed in full color, are provided.

(Item No. 19)

CONCRETE FORMING: The versatility of Uni-Form panels on a variety of concrete forming jobs is shown in a 24-page, pocket-size booklet prepared with a minimum amount of words. On-the-job photographs illustrate such projects as residences, light and heavy industrial, sewage treatment plants, bridges, culverts, schools, slabs, architectural concrete columns, Y-walls and prison cells.

Item No. 20)

STEEL FLOOR TILE: A four-page brochure describes the various applications and methods of installation of Bethlehem Pacific's steel floor tiles, which are 12x12-in. squares of ⅛-in. thick steel. The literature explains that 57 anchors, punched from the steel itself, hold the tile firmly in the base material. When laid in concrete, it provides a long-lasting surface for floors subjected to heavy wear.

(Item No. 21)

BUILT-IN REFRIGERATORS: To answer the trend to built-in kitchen appliances, Servel has made available a refrigerator bevel or frame, whose installation is described in a four-page folder giving step-by-step instructions. Made of anodized and polished aluminum, the bevel fits the contour of the large 34-in. wide refrigerator on the sides and top and it may be easily cut with an ordinary hacksaw to fit narrower models.

(Item No. 22)

READER SERVICE

Pacific Architect and Builder
2418 Third Ave., Seattle 1, Wash.

Please send the literature or data about the material, products and tools listed on these pages.

JULY 195

ITEM NO. (Circle those you wish): 1 2 3 4 5 6 7 8
9 10 11 12 13 14 15 16 17 18 19 20
21 22 23 24 25 26 27 28 29 30 31 32

Name _____ Title _____

Firm _____

Address _____

City _____ Zone _____ State _____

Building permits for June keep steady pace

BUILDING STARTS for June in the five western states continued at an even keel, the $240,593,209 total exceeding May by $1½ million. California and Montana barely surpassed the previous month's totals; Washington chalked up a sizeable increase; Oregon and Idaho showed sizeable drops.

The first half of the year is running slightly behind the corresponding period in 1955. The six-month totals by state are:

	1956	1955
California	$1,063,898,673	$1,068,746,333
Oregon	75,560,905	68,253,539
Washington	161,293,241	169,743,022
Montana	15,280,497	12,861,562
Idaho	13,045,845	11,816,269
	$1,329,084,161	$1,331,420,725

The building picture undoubtedly is being influenced by a curtailment of housing starts. NAHB reports that since the middle of last year there has been a consistent downward trend nationally in the home building economy. Association officials believe that volume will be stabilized at somewhere around the current level with some sidewise shifts from time to time and that the second half of the year may be slightly better.

Compared with June of last year, the five-state total is $2½ million short, attributed mainly to a leveling off in California which had a 5% decrease. Idaho also was down but the other three states recorded gains: Oregon, 7%; Washington, 20%; Montana, 61%.

Following is a breakdown of building permits issued by several of the major agencies during June.

	DWELLING UNITS		COMMERCIAL & INDUSTRIAL		PUBLIC	
Portland	74	($ 1,117,800)	82	($ 811,280)	3	($ 215,000)
King County	448	(3,647,755)	56	(10,511,342)	5	(408,300)
Seattle	171	(1,662,305)	96	(659,335)	3	(2,259,000)
Tacoma	191	(1,183,805)	6	(785,500)		
Los Angls Co.	1,644	(20,267,024)	180	(4,716,108)	14	(282,000)
Orange County	452	(4,123,792)	35	(1,153,475)	78	(2,923,594)
Sacramento Co.	875	(7,691,992)	50	(838,248)	34	(684,405)

Building Permit Totals for 116 Western Agencies for June 1956

CALIFORNIA	June 1956	May 1956	June 1955
Alameda County	$ 2,740,200	$ 3,303,000	$ 3,048,750
Anaheim	2,915,850	3,644,740	2,274,965
Bakersfield	602,485	770,239	1,011,847
Burbank	864,675	1,814,754	1,010,373
Contra Costa County	4,091,744	5,734,939	4,144,521
Fresno	997,742	1,430,825	2,468,263
Fullerton	1,671,178	2,151,913	4,251,427
Glendale	1,387,096	1,497,593	1,768,823
Inglewood	802,983	774,235	825,925
Long Beach	3,878,030	4,085,935	5,837,365
Los Angeles	52,070,838	38,230,934	39,176,422
Los Angeles County	29,602,593	38,350,961	39,895,590
Oakland	5,803,059	2,505,226	5,236,229
Ontario	291,859	1,284,908	751,636
Orange County	8,404,780	5,764,698	12,830,976
Palo Alto	1,578,168	600,297	703,522
Pasadena	1,622,678	1,320,343	6,846,637
Pomona	1,773,737	3,779,829	2,927,948
Richmond	1,073,584	1,035,233	334,045
Riverside	2,951,226	1,714,778	999,706
Sacramento	1,876,338	4,686,121	2,690,194
Sacramento County	9,214,645	6,234,602	5,114,893
San Bernardino	1,175,383	2,683,969	2,169,386
San Bernardino County	4,450,710	5,042,207	4,394,116
San Diego	8,476,149	7,549,243	6,911,489
San Diego County	4,721,000	3,877,900	3,294,570
San Francisco	5,875,834	8,004,242	6,142,631
San Jose	5,104,915	5,611,155	6,206,260
San Mateo	1,796,331	1,208,758	2,214,832
San Mateo County	1,897,390	3,618,112	4,031,462
Santa Ana	2,280,611	801,880	1,291,406
Santa Monica	1,264,245	2,160,953	1,400,218
Stockton	1,023,344	1,800,779	4,805,534
Sunnyvale	3,505,866	2,494,388	2,201,062
Torrance	5,722,267	5,048,774	4,744,359
West Covina	1,268,280	1,301,480	1,198,985
TOTAL	$184,777,813	$181,919,943	$195,156,367

OREGON	June 1956	May 1956	June 1955
Albany	$ 149,900	$ 431,900	$ 116,400
Astoria	1,291,080	38,254	25,535
Baker	59,810	22,520	282,587
Bend	81,880	56,270	1,220,452
Coos Bay	76,675	106,500	40,500
Corvallis	1,320,020	3,985,975	252,725
Eugene	428,527	1,486,570	542,559
Grants Pass	212,575	286,715	225,260
Gresham	86,900	131,100	29,900
Hillsboro	77,495	54,557	132,675
Klamath Falls	386,270	585,705	172,320
LaGrande	37,118	28,260	
Lane County	1,115,660	1,045,895	881,475
Medford	579,772	560,867	234,617
Multnomah County	2,708,468	4,236,370	3,087,615
North Bend	50,778	70,327	98,726
Oregon City	41,782	112,584	20,090
Pendleton	86,555	318,190	238,811
Portland	4,467,445	4,173,515	3,966,735
Roseburg	139,048	470,870	449,850
Salem	563,398	455,894	413,588
Springfield	98,953	52,225	479,175
The Dalles	81,103	152,864	94,874
TOTAL	$ 14,141,212	$ 18,863,927	$ 13,006,469

WASHINGTON	June 1956	May 1956	June 1955
Aberdeen	$ 53,919	$ 45,670	$ 97,861
Anacortes	114,144	92,165	365,785
Auburn	160,775	91,790	51,020
Bellingham	540,693	374,168	332,642
Bremerton	86,235	200,940	169,794
Centralia	195,923	98,834	85,904
Chehalis	17,296	115,000	45,545
Clarkston	83,355	34,815	70,750
Ellensburg	25,975	21,565	320,727
Ephrata	15,940	48,503	208,800
Everett	320,541	276,561	262,919
Kelso	19,400	75,500	71,100
Kennewick	42,450	220,740	183,275
King County	14,567,397	5,852,104	6,446,388
Kirkland	70,675	65,050	302,465
Longview	1,260,803	291,599	465,808
Moses Lake	685,219	226,750	1,015,854
Olympia	203,804	203,102	272,614
Pasco	50,330	154,095	260,400
Pierce County	2,177,699	2,882,249	2,344,414
Port Angeles	24,650	86,939	172,455
Puyallup	72,680	63,000	141,430
Ritzville	20,000	35,900	21,800
Seattle	7,005,160	5,070,025	6,758,115
Shelton	35,850	100,700	45,725
Spokane	2,596,063	5,588,310	2,671,605
Spokane County	1,604,635	2,253,649	3,146,350
Sumner	27,725	59,598	15,550
Tacoma	2,383,764	2,295,772	1,422,333
Vancouver	572,848	1,242,074	370,431
Walla Walla	236,950	136,585	490,694
Wenatchee	89,000	259,020	197,395
Yakima	671,144	2,210,774	1,040,437
TOTAL	$ 36,033,041	$ 30,773,546	$ 29,868,185

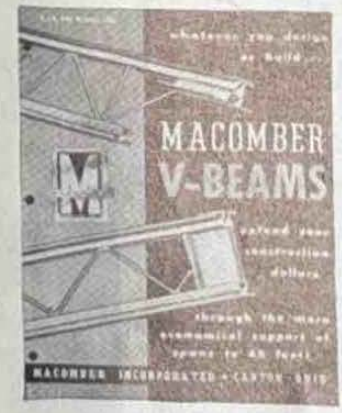
MONTANA	June 1956	May 1956	June 1955
Billings	$ 1,796,880	$ 756,900	$ 515,150
Bozeman	48,400	83,100	75,100
Butte	90,973	155,243	86,708
Glasgow	23,920	152,581	87,104
Glendive	167,800	110,793	161,510
Great Falls	757,776	948,039	572,439
Helena	51,134	427,855	372,481
Kalispell	234,350	150,000	162,275
Lewistown	101,000	122,396	103,910
Livingston	70,080	110,450	24,000
Miles City	68,063	338,182	108,240
Missoula	162,400	157,275	90,100
TOTAL	$ 3,572,776	$ 3,512,814	$ 2,359,017

IDAHO	June 1956	May 1956	June 1955
Boise	$ 420,213	$ 487,756	$ 580,411
Caldwell	80,202	65,630	122,020
Coeur d'Alene	259,050	200,775	89,490
Idaho Falls	393,000	1,046,417	499,837
Jerome	32,590	5,050	49,530
Lewiston	192,649	482,524	694,465
Nampa	197,925	293,900	71,580
Payette	14,300	29,725	34,800
Pocatello	338,463	1,139,463	210,514
Sandpoint	27,700	34,000	6,800
St. Maries	600	1,450	
Twin Falls	111,675	156,250	190,200
TOTAL	$ 2,068,367	$ 4,032,940	$ 2,549,667
GRAND TOTAL	$240,593,209	$239,103,170	$242,939,705

utilizing the greater structural values of cold formed chord and web members



PATENTED



SEND FOR YOUR V-BEAM CATALOG

MACOMBER V-BEAMS

When this product was introduced in 1955 the ruggedness and structural economy it provided were demonstrated so convincingly that today —less than a year later—Macomber V-BEAMS are in nation-wide demand.

THINK what it means to you to have a steel framing member that is not only lighter and therefore less expensive but STRONGER than other steel framing members for floors and roofs.

If you do not have a V-BEAM catalog, send for yours today and see why the V-BEAM is fast becoming the architect's choice for any building within the 48' span range.

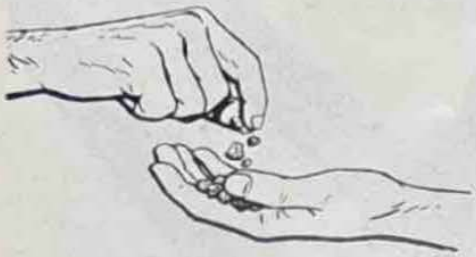
STANDARDIZED STEEL BUILDING PRODUCTS

MACOMBER INCORPORATED

CANTON 1, OHIO

• ENGINEERING • FABRICATING AND ERECTING •

NAILABLE STEEL JOISTS
•
LONGSPANS
•
BOWSTRING ROOF TRUSSES
•
METAL DECK
•
V-LOK STEEL FRAMING
•
STRUCTURALS

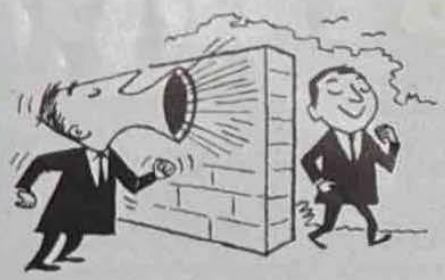


CASCADE PUMICE

hands you added sound absorption in concrete masonry

Specify Cascade Pumice Concrete for low sound transmission and high sound absorption in masonry and structural concrete. Also, the low K factor cuts heating and cooling costs for the life of the building. Find out all the facts about Cascade Pumice today. Write for complete technical data now.

Specify Cascade Pumice Concrete for:



SOUND ABSORPTION
FIRE RESISTANCE
STRENGTH
EXTRA LIGHT WEIGHT

WILLIAMSON *Cascade* PUMICE

Plant and Office:
P. O. Box 1083 • Bend, Oregon



LANDSCAPE AND GARDEN MANUAL from which sketch is taken gives pointers on design, overhead structures, plant cautions, color, night lighting, etc.

'Climate control' for builder's subdivision

WHEN BUYERS moved into their single-story and two-level residences in Rollingwood, they got "climate control" for good measure. The hillside sites in the suburban San Francisco subdivision provided weather problems along with the dramatic views.

Builder Andres F. Oddstad Jr. realized that if his clients were to enjoy the 1,000 sq. ft. of patio space benched out for each home, they would need a plan for plantings, fences and other windbreaks. He engaged the California Foundation for Horticultural Research to recommend a program. The result: a 48-page landscape and garden manual tailored to Rollingwood conditions.

But Oddstad's plan didn't end there. He gave each owner a chance to attend three free lectures on landscaping and to consult with a licensed landscape architect to iron out individual problems.

Oddstad in his preface of the garden book commented: "In preparing the material, working with soil scientists, gardening experts, nurserymen and horticulturists, I was impressed with the feeling they had that when shrubs and trees take hold, the whole garden climate of Rollingwood would gradually change. Winds will be lifted over the gardens; growth of all plants will be more rapid. No plant likes to grow alone. Plants thrive in communities where one protects the other."

Recreational unit can serve variety of purposes

- **Built at $7 per sq. ft.**

Remodeling activities of Prather & Lozica, Oakland home builders, have resulted in the development of a family recreation structure which can be attached to the home or built separately at a total cost of $2,100 or $7 per square foot.

"We call it the Rumpus Room," explains Gordon Prather, "but actually it can be used for any purpose the home owner desires, or even as a mountain lodge, office, motel unit or even a 'mother-in-law' house."

The $2,100 price tag includes all construction, 15 by 20 ft of space, fireplace, sliding aluminum patio doors, jalousie windows, beam ceiling, rock roof, wiring, painting inside and out, asphalt tile, brick planter and steps.

More than 200 northern California families either have added the room to their homes or used it as a lodge.



RUMPUS ROOM devised by Oakland home builder at total cost of $2,100.

One of world's largest dredges pumps fill for Bay area shopping center

A GIANT DREDGE, the Franciscan, the size of a modern U.S. Navy destroyer, is now pumping sand from the depths of San Francisco Bay to lift up land alongside Alameda on which will rise a vast new community of homes, beaches, shopping centers, schools and parks to be built by Utah Construction Co.

The dredge, which cost more than $2½ million, was constructed specially for the Utah firm and is one of the largest in the world. Every month for the rest of 1956 it will pump nearly one million cubic yards of fill.

"By the first of next year," explains Allen D. Christensen, president of Utah Construction Co., "the South Shore area of 11 million cubic yards will be filled and we can begin actual construction on brand new land of a modern shopping center to serve the community of new homes we will build."

When the South Shore fill is completed, the giant dredge will then move to a companion project at Bay Farm Island, where Utah will construct another large planned community of homes. The dredge will pump 25 million cubic yards of fill at Bay Farm Islands in 2½ years' time.

Together the two new projects will provide homes for 5,000 San Francisco Bay area families in a construction project which involves a $23 million payroll and some $43 million in materials. The cost of furnishing electricity to the dredge alone amounts to $40,000 a month.

The land to be filled in on the South Shore includes 350 acres in area and the development will have 1,300 new homes, a 40-acre shopping center, with 32 acres for off street parking, 28 acres for schools and parks and a sandy beach for public use which will be 250 ft. across, built on a slope of 20 to 1.

Completion of the South Shore project will add 8% to the total land area of the city of Alameda. Completion of the Bay Farm Island project will add another 17% to the land area of the city.

The entire project will require more than enough lumber to circle the earth with a 1x6 plank, more than enough asphalt to pave a four-lane highway from Alameda to Sacramento, more steel than needed for 3,000 automobiles, a small mountain of concrete and half a million tons of rock.



LIFTING UP LAND alongside Alameda, Calif., this dredge will pump nearly one million cubic yards of fill every month for rest of year.

The huge dredge accomplishing the task of providing the land for this project displaces 2,400 tons. It is 207 ft. in length (285 with ladder), 42 ft. wide and has a 12-ft. hull. A crew of 75 men operate the dredge on an around-the-clock shift.

Built-in telephone outlets are a must in today's homes



says ARTHUR K. EHRLICH, Arthur K. Ehrlich & Associates, Burbank, Calif. Builders, *Better Homes & Gardens* Idea Home for 1955 in Glendale, Calif. (pictured below)

"We wouldn't dream of building a home without concealed wiring and telephone outlets in the original plans. It's the kind of detail that sets the well-built home above the average. It just has to be there." Telephone outlets in rooms that are used most add much to the value of Ehrlich homes.

To successful builders like Mr. Ehrlich, who are setting living standards in the Pacific West, complete telephone planning is as basic as adequate electrical wiring. We are always ready to help you plan built-in telephone facilities. Just call us and ask for our *free* Architects and Builders Service.



Specify built-in telephone facilities —a sign of good planning

Pacific Telephone

NAHB reports on its 'air conditioned village'

$115 is average cost for year-round comfort in 22-house project in Texas

YEAR-round comfort in the home, with modern heating and cooling systems, is relatively inexpensive.

This is one of the principal conclusions set out in the final report on the National Association of Home Builders' air conditioned village research project in Austin, Texas. The highly technical summary report was prepared by the NAHB Research Institute primarily for the guidance of home builders.

"A major effort of this report has been to achieve an overall reduction of the in-place cost of air conditioning in order to make its benefits available to more people," the institute observes.

The 22 homes in the NAHB air conditioned village were started in 1953 and completed the following June with the cooperation and assistance of interested industry organizations. The houses and equipment, as well as the families living in the village, were subjected to extensive research designed to test the performance of various design and construction types of air conditioning systems. The objectives were to obtain initial construction and operating cost information on air conditioning and provide technical data for a) sizing equipment; b) layout installation and operation; and c) construction details on economical air conditioning.

Research at the project in 1955 disclosed that year-around heating and cooling operational costs averaged approximately $115.65 a year for the village houses on the basis of Austin utility rates. The utilities included electricity, gas and water. This figure would, of course, vary with the climatic conditions and utility rates in other parts of the country.

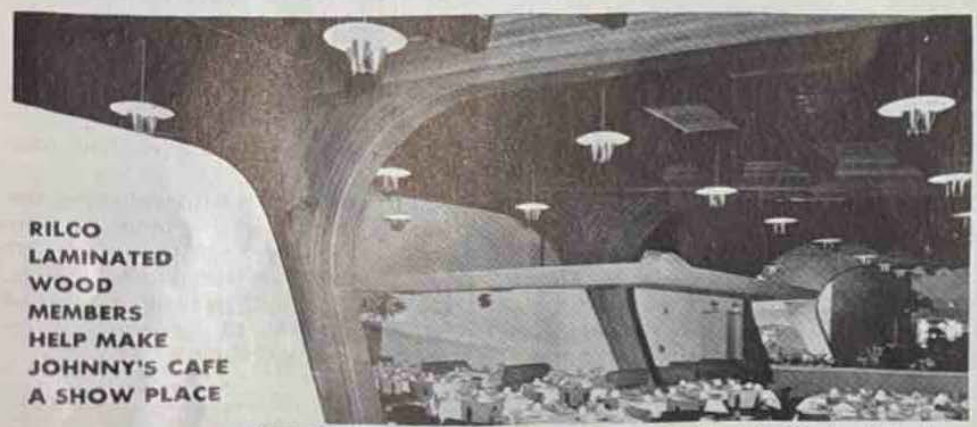
Although not related specifically to the Austin project, the report also included the finding that the cost of air conditioning only would increase the monthly amortization payments of a 20-year mortgage by approximately $6. A compensatory factor in the family budget, however, is the reduction in the cost of away-from-home summertime dining and entertainment "just to be comfortable." There was an average difference of $5.80 a week between the outside entertainment expenses of the village families and families living in non-air conditioned houses during the summer months.

The institute suggested that home builders evaluate the sales advantages of air conditioning, as well as their local markets, before a) offering an air conditioned home or b) making provisions for "add-on" type of air conditioning to be added or omitted at time of sale. The latter was specifically recommended for low and medium priced houses.

The report outlined six items in the in-place cost of year-around air conditioning which should be taken into consideration by home builders. Some are obviously applicable to persons contemplating air conditioning in existing houses. The cost items:

Equipment; installation; cost due to interruption of normal construction program; cost of floor space, including that required for access as well as for the actual unit; maintenance cost during the warranty period; and cost

NEVER ENDING STREAM OF COMPLIMENTS



RILCO LAMINATED WOOD MEMBERS HELP MAKE JOHNNY'S CAFE A SHOW PLACE

Architect, Willis Regier AIA; Contractor, Cooper Construction Company; Omaha, Nebraska.

Pleased customers of Johnny's Cafe, Omaha, Nebraska, often praise the unusual design of the building as much as they do the food. There is a "never ending stream of compliments" and Johnny doesn't mind, just so long as they come back for more.

Omaha Architect Willis Regier has used Rilco Laminated Wood Frames to achieve a striking interior design with the structural members. Curved elements act as interior supports sweeping into the ceiling beams in a graceful arc. The frames are 20 ft. o.c. with a span of 43 ft.

Rilco Structural Wood Members fit into many types of construction — churches, schools, industrial and commercial buildings. Fire safe Rilco Laminated Wood Members span large areas gracefully and economically.

Rilco engineers will gladly work with you on your requirements and give on the job cooperation. Just write —

Sketch shows unusual design of complete laminated wood frame.

RILCO works wonders with wood

RILCO LAMINATED PRODUCTS, INC.
ROOM 207A TACOMA BLDG.
TACOMA, WASH.
PHONE: BROADWAY 2249

District Offices: Wilkes Barre, Pa., Fort Wayne, Ind., Tacoma, Wash.

HOUSING SURVEY

The most comprehensive study ever undertaken of the physical characteristics of new housing is now being conducted by the Bureau of Labor Statistics of the U.S. Department of Labor and sponsored by Producers' Council. The sample survey will cover from 40,000 to 45,000 homes which were started the first quarter of 1956.

of increase, if any, in construction specification requirements.

With regard to equipment costs, the report says:

"As with any product, mass production will produce a downward trend in factory costs. However, for the near future, the addition of refinements and improvements now being studied may offset such a trend. The Austin village project has contributed to and stimulated the continuing industry efforts to provide improved quality, such as integral noise control and continuous fan operation."

The report also notes that the trend in heating and cooling equipment is toward "increased packaging and simplified installation methods, all aimed at reduction in field installation costs."

The central air conditioning systems installed in the 22 Austin houses were of different manufacture and types. The houses are not indentical and some, for reasons of research, were designed with temporary features considered undesirable for efficient air conditioning. The village offered an excellent vehicle for research and turned up significant information. However, the units in the individual houses were not comparable with each other in terms of operational costs and performance because of the varying heat loads and the conditions under which the tests were carried out. Data on individual units will not be made public.

The tests were under the direction of NAHB project manager Ned A. Cole of Austin. They were conducted to determine the relative importance of the four principal elements producing comfort—air motion, relative humidity, air temperature and mean radiant temperature—and the values which are desirable to maintain in each.

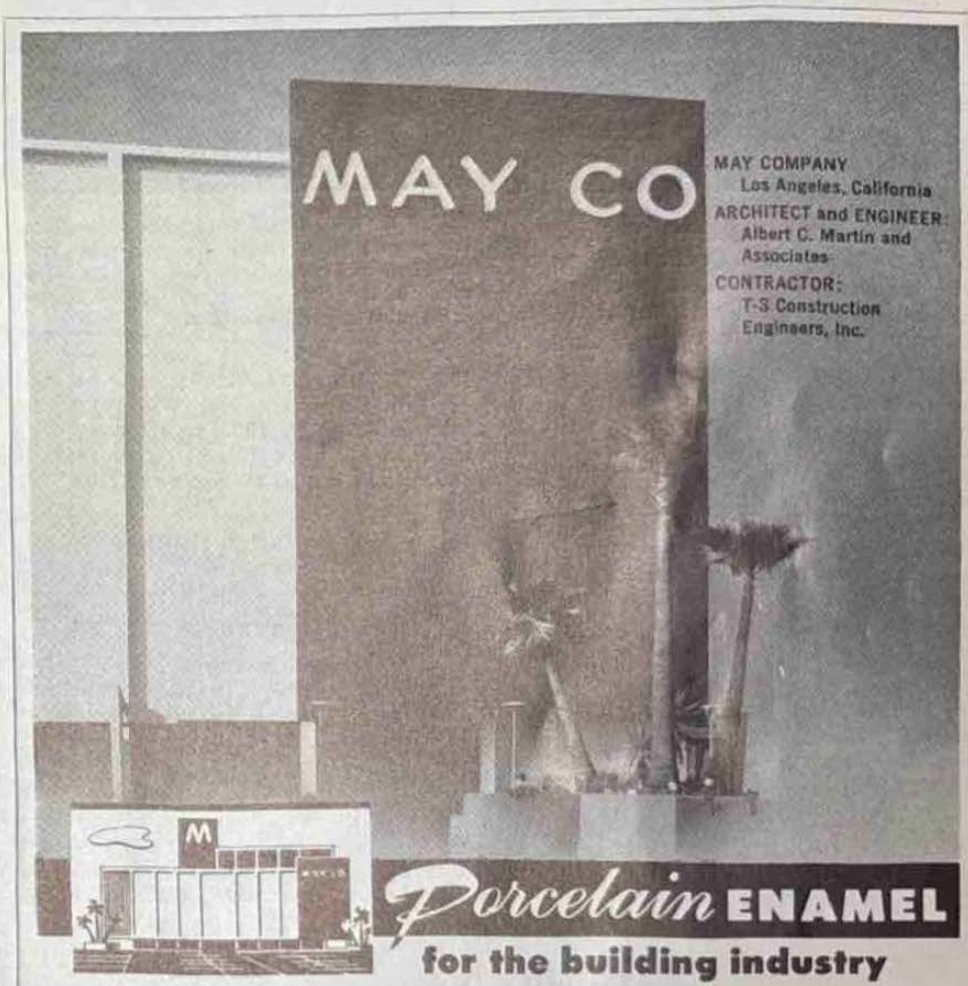
"Comfort is more important than efficiency," the Research Institute comments, "but both are necessary for economical residential air conditioning."

In determining the size of both heating and cooling systems it is necessary, in the former, to determine heat loss and, in the latter, the heat gain. The amount of heat or coolness required to offset the loss or gain determines the size of the unit required. A large number of factors enter into the calculations, including orientation of the house, design, type of construction, equipment, occupancy, location of windows and trees, and both the size and location of the ducts.

"Numerous methods of calculating heat loss/gain are available; almost all have merit and certain advantages," the report says. "The air conditioning industry is working diligently in an attempt to obtain agreement on a single simpilfied method of calculation."

The report shows that data obtained from the 22 Austin houses under research conditions were at variance in some respects with yardsticks generally accepted by the industry both with regard to average heat gain and the output of equipment.

Copies of the report are available at $2 apiece from the NAHB Research Institute, National Housing Center, 1625 L St., N.W., Washington 6, D. C.



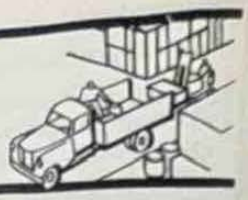
Porcelain Enamel assures outstanding beauty for this modern department store. Even through years of exposure to severe weather and corrosive elements... this glass-hard surface will not fade or deteriorate! Extremely versatile Porcelain Enamel gives architects unlimited means for creative expression—in any color of the spectrum, and virtually any finish! Design *permanent* beauty into your plans... specify Architectural Porcelain Enamel!

Write for detailed information and color chart today!

ARCHITECTURAL DIVISION
PORCELAIN ENAMEL PUBLICITY BUREAU
P. O. BOX 186 • EAST PASADENA STATION • PASADENA 8, CALIFORNIA
1444 WEBSTER STREET • ROOM 4 • OAKLAND 12, CALIFORNIA

Builders and Suppliers

headlining the news



• **Washington Brick and Lime Co.** of Spokane has purchased Evertru Products Co. of Moses Lake, one of the largest concrete operations in the Columbia Basin. Neal R. Fosseen, Washington Brick president, reports that Evertru will be an independently operating subsidiary, with Lester O. Kalbrenner as general manager.

The Spokane firm now is in the completion stages of its new $400,000 tunnel kiln for the production of glazed structural tile units.

• **Ralph E. Bennett & Associates** of Beverly Hills, Calif., have been named West Coast representatives of the Tectum Division, Peoples Research and Manufacturing Co. The Bennett firm, whose offices are at 221 N. Robertson Blvd., specializes in structural materials, insulation and fireproofing materials.

• **United States Plywood Corp.** has appointed two district managers in its California operations, according to Fred B. Smales, vice president and West Coast regional manager.

Donald L. Braley, manager of the Los Angeles branch, becomes manager of the southern California district; Donald L. Kesselring, manager of the Oakland branch, takes charge of the northern California district.

• **Modernfold Doors, Inc.,** has been named exclusive distributor in the Seattle-Tacoma area for Ador Sales, Inc.

• **Trane Co.** has appointed Roger Burtness manager of its Billings, Mont., sales office at a new address:



REELECTED PRESIDENT of Gypsum Association for second year, Claude E. Harper (r.), vice president and general manager of Kaiser Gypsum Co., is congratulated by Lloyd H. Yeager, association general manager.

403 N. 24th St. (9-0269). A graduate of the University of Wyoming, he joined Trane in 1950 as a sales engineer in Billings, following a tour of duty with the U. S. Navy.

• **Robertshaw-Fulton Controls** has appointed K. Kelly Kennan as San Francisco district sales manager for the heating appliance controls division. Kennan's territory covers northern California, Oregon, Washington, Montana, Wyoming and Nevada. He has been with the company since 1954.

• **L. O. F. Glass Fibers Co.** has named these distributors in the West: The E. J. Bartells Co. of Portland, Seattle and Spokane and Pacific Insulation Supply Co. of Puente, Calif.

• **W. P. Fuller & Co.** has been appointed a sales distributor in eight western states for asphalt coatings and floor covering adhesives produced by The Henry Co. of Huntington Park, Calif.

• **Architectural Plastics Corp.** of Eugene, Ore., which will expand its two divisions — Plasti-Products Co. and Design Industries — has announced the public sale of 4,568 shares of its common stock. President George R. Hermach states that the current expansion program involves additional geographical coverage and an accelerated research and engineering program.

• **Western Pine Association** has increased the floor space of its research laboratory in Portland by 60% with a two-story addition. The research staff of 11 is headed by Carl A. Rasmussen.

• **Pioneer Manufacturing Co.** will construct a $1 million plant in Puente, Calif., for the manufacture of home appliances. Pending completion of a second factory unit and office building, the company's executive offices and existing plant facilities in Los Angeles will be maintained, says president Ray A. Polverini.

• **Prescon, Inc.,** of Paramount, Calif., and Prescon of Texas have been merged to form Prescon Corp., which will manufacture headed, cold formed, steel wire units for stressing concrete. The Corpus Christi firm has working arrangements for the distribution of the units in Washington and

If the job calls for WALL HYDRANTS

specify

GREENBERG!



BRONZE PRODUCTS by GREENBERG

M. GREENBERG'S SONS

765 FOLSOM ST. • EXbrook 2-3143

SAN FRANCISCO 7, CALIFORNIA

Offices in Principal Cities throughout the United States



Flush type wall hydrant with locking type hinge (will rough into 6" wall).

Nipple and adapter allow placing inlet at either side or back.

California, says Guy Braselton of Corpus Christi, who headed Prescon of Texas and now is serving as president of the new company.

• **Given Manufacturing Co.** of Los Angeles has changed its name to Waste King Corp. to provide closer identification with the products it manufactures: disposers, dishwashers, built-in ranges, commercial disposers and incinerators.

• **Calaveras Cement Co.** has established an office in the Builders Exchange in San Jose to service dealers and contractors in the south coast area of northern and central California. In charge will be Philip J. Eldredge, who for the past 3½ years has covered the same territory for Colorado Fuel and Iron Corp.

• **Ajax Hardware Sales Co.** has appointed Toby N. Tobias as general sales manager. Since joining the firm in 1955, he has held the position of territory sales manager and assisted the president in all sales activities.

• **E. K. Wood Lumber Co.** has appointed J. D. Hanauer as assistant general manager and Jerry Huntley as sales manager of its southern California division, which is now located in new quarters in Whittier. Hanauer continues to act as general manager of Fabricraft of California, a Wood subsidiary which manufactures and markets the Feather Glide wardrobe door.

• **Noise Control of Seattle, Inc.**, has moved from 1109 N. 35th St. to larger quarters at 600 W. Nickerson (ALder 8390).

• **Trimview Metal Products** of Covina, Calif., has opened a new administration building at 600 N. Third St.

BUILDING PRODUCTS EXHIBIT

Reservations are now open for building products exhibit space at the 1956 California Council of Architects convention, according to exhibits manager Donald Canty.

Convention headquarters for the October 10-14 sessions will be the new Yosemite Lodge, with building products exhibits in the old lodge directly across from the new structures. Because of limited accommodations, the number of exhibit booths will be held to 55 this year, some 20 less than in 1955.

Full information may be obtained by contacting Canty at the council office, 26 O'Farrell St., San Francisco 8.



OUTGOING PRESIDENT of Producers' Council in Seattle, Tom Franklin (l.), Minneapolis-Honeywell Regulator Co., poses with four incoming officers: Robert Grimm, Ehrlich-Harrison Co., vice president; John McDaniel, Libbey-Owens-Ford Glass Co., secretary; E. E. Henry, Gladding, McBean & Co., treasurer; and Ralph Yoder, SCPI Pacific Northwest Brick and Tile Association, president.

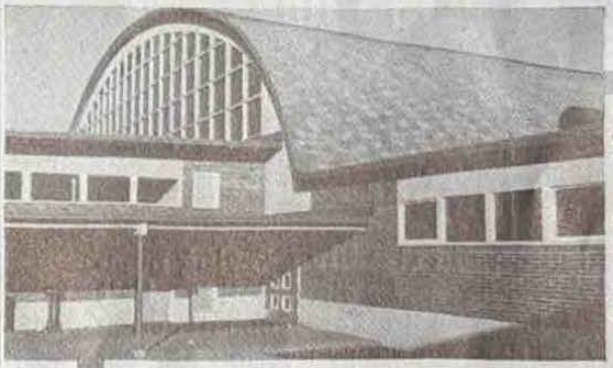
• **Schemenauer Manufacturing Corp.** has named two new sales representatives in the West: Tower Boiler Sales of San Francisco for the state of California and Leffler Engineering Sales of Billings for Montana and Wyoming.

• **Aeroil Products Co., Inc.**, has appointed Charles E. Klevies as regional manager of its western division with headquarters in Los Angeles. He will head sales and service in the 11 western states.

• **Seattle Master Builders Association** has seen two of its members—Samuel Anderson and Stanley Long—honored for their more than 40 years of service to the industry. Each received gold cuff links from the NAHB in recognition of their work.

• **Matson Ston-O-Fect Co.** of Olean, N. Y., has opened a plant in Van Nuys, Calif., to serve the San Fernando Valley. It will be operated by John L. Sweeney and Roy Adkins.

• **Arcadia Metal Products** has expanded its northern California branch office to include northern Nevada. An optional service which includes installation, flashing and final adjustment of both steel and aluminum



architect:
William Arild Johnson

contractor:
Barrows & Shaffer

masonry contractor:
Ray Shupp, Sr.

North Thurston High School features . . .

Attractive — Practical

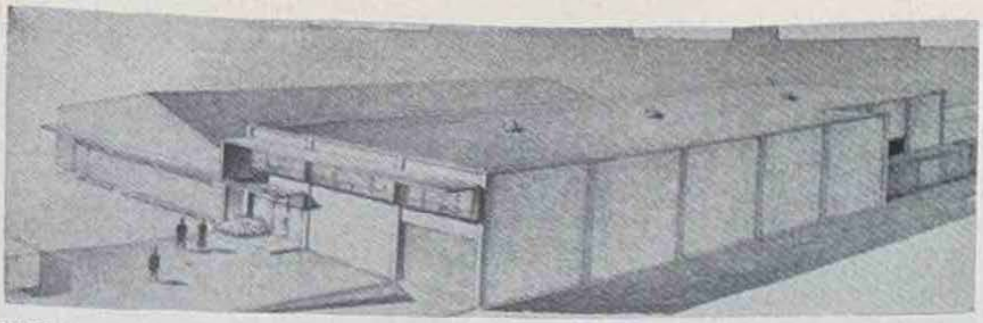
Chehalis Red Norman Brick

Here is modern school design at its best . . . solid 9" masonry walls for permanence and fire safety . . . plus the warm, pleasing texture of the Pacific Northwest's most distinctive brick—CHEHALIS Smooth Red Norman Face Brick—to create a happy combination of eye-appealing design plus low maintenance costs. Only brick—and preferably beautiful CHEHALIS BRICK—can do the job so well.

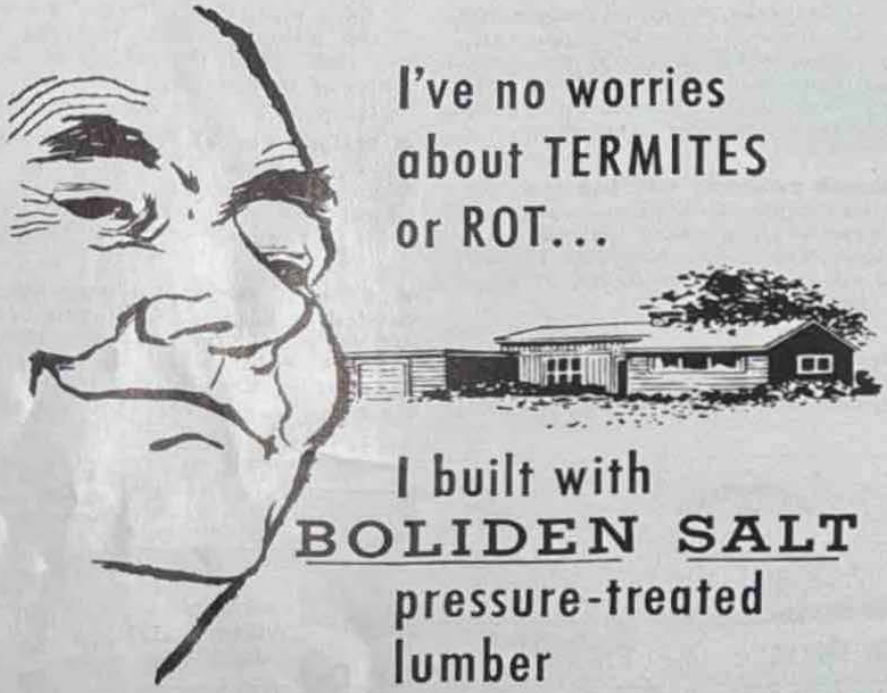
SCPI

CHEHALIS BRICK and TILE Co.

BOX 868, CHEHALIS, WASHINGTON



NEW WAREHOUSE of Wm. B. Proby & Associates, Inc., manufacturers' agent for electrical equipment, at 2915 13th Ave. S.W., Seattle. Tilt-up wall structure was designed by architects Wortman & Wilkin, built by Strand, Inc., for Donald W. Close, building owner. Warehouse takes up entire main floor with exception of shipping office, while main business offices are on mezzanine floor extending across front part of building.



I've no worries about TERMITES or ROT...

I built with BOLIDEN SALT pressure-treated lumber

Architects and builders in steadily growing numbers are recommending and using Boliden Salt Pressure-Treated Lumber in home construction because it provides dependable protection against termites and rot. The small extra cost now is a long-range saving.

Time-tested Boliden Salt is approved as a standard preservative by the American Wood Preservers' Assn., American Assn. of State Highway officials, Federal, State and Local agencies and the P.C.B.O.B.

BOLIDEN SALT

Boliden Salt is Clean, Odorless, Fire-Resistant, Nearly Colorless, Paints Readily

At your Local Dealer or Write

McCORMICK & BAXTER CREOSOTING COMPANY

OFFICES: Portland, Oregon, P. O. Box 3344
San Francisco, California, 485 California Street
Glendale, California, 114 W. Broadway

TREATING PLANTS: PORTLAND, OREGON • STOCKTON, CALIF.

framed sliding glass doors now is available throughout San Francisco, San Mateo, Alameda and Contra Costa counties.

• **Bethlehem Pacific Coast Steel Corp.** has announced the retirement of its chief executive in the Northwest, Leslie G. Knight of Seattle, after 46 years' service to the steel industry. For the past three years he has been assistant to president H. H. Fuller and prior to 1953 held several positions, all at the same time.



KNIGHT

Among the important assignments Knight carried out for Bethlehem Pacific and its predecessor, Pacific Coast Steel Co., were these two: in 1919 he directed the initial construction of a new steel plant in Portland; in 1947 he was selected to serve on a nationwide industry committee sponsored by the Navy to study the feasibility of returning battlefront scrap from the South Pacific.

Accompanied by Mrs. Knight, the retired executive wants to spend the summer covering by automobile some of the same route he traveled by covered wagon when he came to Seattle with his family as a boy.

NATIONAL NOTES

• **The National Association of Architectural Metal Manufacturers** has elected Louis F. Fontana, sales manager of Irving Subway Grating Co., Inc., Long Island City, N. Y., as its president for 1956-57.

• **American Institute of Timber Construction** has chosen George E. Schweitzer, vice president in charge of sales for Rilco Laminated Products, Inc., St. Paul, to head the organization.

• **Crane Co.** suffered a major loss May 15 with the death of six sales executives and two company pilots in a plane accident at Jeffersonville, Ind. The aircraft was en route from Chicago, the firm's home base, to Louisville, Ky., where the Crane men were to attend a convention of the Heating, Piping and Air Conditioning Contractors Association.

The men were: James A. Dwyer, 59, vice president of industrial sales; George L. Erwin Jr., 60, vice president of heating sales; George L. Lindholm, 54, manager of valve and fitting sales; Jess A. McMurry, 59, director of branches; Charles A. Towner, 42, assistant to Erwin; Fred J. Wilkey, 47, special representative in industrial sales; Randy Mulherin, 54, pilot; and Robert Robinette, 27, co-pilot and Mulherin's son-in-law.

Construction News Bulletin

Vol. 62—No. 15 (PA&B) . News Section of Pacific Architect and Builder July 21, 1956

D. F. McCormick ..... News Editor
G. M. Westman ..... News Staff
Win Romtvedt ..... Portland News Manager
S. S. Phillips ..... News Staff

Newsroom • 2418 Third Avenue, Seattle 1, Washington • Phone MAin 0285

BUILDING NEWS

Washington, Oregon, Idaho, Montana, Wyoming, Utah, Alaska

- ● Bids Called
- ★ Contract Awards
- ▲ Low Bids—Bid Received
- ■ Planholders—Prospective Bidders

OREGON

▲BAKER S. M. INSTALLATIONS— Baker, Ore.

Bids received by Corps of Engineers, Seattle District, 4735 E. Marginal Way, Seattle, for construction of S. M. installations at Baker, Ore.; ENG-45-108-56-66. LOW BIDS: McCormack Construction Co., S.E. 3rd and Goodwin Avenues, Pendleton, $1,128,113; J. H. Wise & Son, Inc., Box 267, Boise, Idaho, $1,130,793; Lewis Hopkins Co., 221 S. 3rd, Pasco, Wash., $1,161,694. Engineer's estimate, $1,190,575. Bids were opened July 13. GW 7-17. Previous report 6-30

SWIMMING POOL— Beaverton, Ore.

Bond election for $225,000 approved by Tualatin Hills Park and Recreation District, Bill Pond, superintendent, Beaverton, for all-year swimming pool on Stott St. between 3rdand 4th Sts., Beaverton. Mox P. Williams and Robert B. Martin, architects, 1919 S.W. 12th Ave., Portland, have been authorized to prepare working drawings. Bid call to be issued about September. WB 7-18. Previous report 6-19

▲RESIDENCE, COLD STORAGE BUILDING— Bend, Ore.

Bids opened July 11 by Oregon State Game Commission, 1634 S.W. Alder St., Portland, for residence and cold storage building at Fall River Trout Hatchery, about 25 mi. southwest of Bend. BIDDERS: Hampton C. Platt, 3805 Thorndale Road, Salem, $31,000; DeGree Construction Co., 1828 Aubrey Road, Bend, $34,800; J. L. Ross, Bend, $29,434. WB 7-14. Previous report 6-21

★MATERIALS— Bonneville Dam, Ore.

Award to Merrell Steel Building Co., 2207 N.W. Front Ave., Portland, $6,182, by Corps of Engineers, Portland District, 628 Pittock Block, Portland, for furnishing materials for construction of a prefabricated type steel building; ENG-35-026-56-245. WB 7-13. Previous report 6-8

PLYWOOD PLANT— Coquille, Ore.

Construction to start immediately by Textron American, Inc., on a second plywood plant at Coquille. Manager of the Coquille plant is George A. Ulett. The mill will be located on a 14-acre tract adjacent to the existing plant. DC 7-14

●MASONIC BUILDING— Corvallis, Ore.
(Estimated cost $200,000)

Bids will be opened 4 p. m., July 23, by the Masonic Lodge in the City Hall, Corvallis, for reconstruction of the Masonic Building in Corvallis. Plans with Cleo Jenkins, architect, 226 S. 2nd, Corvallis. $25 deposit. Completion times September (offices) and first part of 1957 (lodge portion). Wood frame; built-up roof; replacement of former false roof line; laminated trusses; aluminum sash (alternate); ornamental cast plaster on columnettes and mouldings; asphalt and vinyl tile floor coverings; installation of new oil-fired boiler with hot water heat through convectors and radiation; electrical renovations. SC 7-18

★FAIR BUILDING— Eugene, Ore.

Award announced by Lane County Fair Board, Gus DeVos, chairman, 697 W. 13th Ave., Eugene, for construction of two cattle barns and a meeting hall at Lane County Fairgrounds in Eugene. Plans by John Stafford, architect, 2505 Capitol Drive, Eugene. Bids opened July 9. AWARD: John Steinmuller, Jr., 907 W. 3rd Ave., $141,190. 2ND LOW: Albert Vik & Son, 160 Madison, $146,519. 3RD LOW: Guske Bros., 2610 Onyx, $148,511. All of Eugene. DW 7-13. Previous report 6-22

★JUNIOR HIGH SCHOOL— Eugene, Ore.

Award to Industrial Building Co., Box 869, Eugene, $575,000 (basic bid), $21,000 (add. alt. for additional three classrooms), by Lane County School District No. 504-C, 275 E. 7th Ave., Eugene, for construction of the Jefferson Junior High School in Eugene. Plans by Hamlin & Martin, architects, 159 12th Ave. W., Eugene. Albert Vik & Son of Eugene, who was low bidder, disqualified its bid because of an error in calculation. DW 7-13. Previous report 7-10

●OFFICE BUILDING— Eugene, Ore.

Bids will be opened 2 p. m., July 25, in the office of the architects, for construction of an office building on Oak St. between 13th and 14th Avenues in Eugene, for United Pacific Insurance Co. of Tacoma. Plans with Wilmsen & Endicott, architects, 863 E. 13th Ave., Eugene.

Two-story; reinforced concrete construction, waffle slab; suspended fiberglass ceilings; aluminum window wall, porcelain panels; built-up composition roofing; steel frames; solid plaster partitions; rubber tile floor covering; "Troffered" fluorescent lighting; brick facing and cavity wall; steel doors; volume heaters and coolers. Contract includes landscaping and paving. DW 7-14

■MEN'S DORMITORY— Eugene, Ore.

Additional planholders announced for dormitory building at 15th and Agate St., Eugene. Bids to be opened 2 p. m., July 27, by Oregon State Board of Higher Education, Earl M. Pallett, secretary, room 110, Portland State College, 1620 S.W. Park Ave., Portland. Plans with Church, Newberry & Roehr, architects, 619 Builders Exchange Bldg., Portland.

Additional planholders—GENERAL: Waldo S. Hardie, 191 Park Ave., Eugene. MECHANICAL: Buchanan Co., 1518 N.E. Killingsworth St., Portland; Willis Plumbing & Heating, Eugene. ELECTRICAL: Huenergard Electric Co., 611 N.W. Glisan St., Portland. WB 7-17. Previous report 7-12

■OFFICE BUILDING— Eugene, Ore.

Planholders announced for construction of an office building on Oak St. between 13th and 14th Avenues in Eugene, for United Pacific Insurance Co. of Tacoma. Bids will be opened 2 p. m., July 25, in the office of Wilmsen & Endicott, architects, 863 E. 13th Ave., Eugene.

Planholders: Waldo S. Hardie, Box 422; Albert Vik & Son, 160 Madison; Guske Bros., Box 299. All of Eugene. DW 7-17. Previous report 7-14

SWIMMING POOL— Eugene, Ore.
(Estimated cost $170,000)

Cornell, Howland, Hayes & Merryfield, 1600 Western Ave., Corvallis, have been retained as engineers by Eugene Bureau of Parks and Recreation, W. R. Matsler, superintendent, City Hall, Eugene, to design new city swimming pool in Amazon Park in east Eugene. DW 7-18. Previous report 6-1

●■RESIDENCE— Eugene, Ore.

Bids will be opened 8 p. m., July 25, in the office of L. F. Bonson, designer, 40 E. 11th Ave., Eugene, for construction of a residence for Dr. T. A. Chuman of Eugene. Specifications with above office. Wood frame; brick veneer trim; concrete slab floor, chip board sub-floor; plaster walls

and ceilings; ceramic tile; aluminum sash; birch cabinets; overhead garage doors; electric ceiling heating system.
Planholders: Jens Thorsen, 90 Willona Drive; C. Ken Dart, 124 Arbor Drive; Smith & Ingram, 128 Sunshine Acres Drive; Ed Erickson, 1263 E. Main St., Springfield. Of Eugene unless noted. DW 7-18

▲CHAPEL ADDITION, REMODELING— Eugene, Ore.

Bids received by the owner in offices of Western Engineering Consultants, 110 E. 12th Ave., Eugene, for remodeling and construction of addition to Eugene Memorial Chapel in Eugene. Bids opened July 12. LOW BIDS: Smith & Ingram, 128 Sunshine Acres, Eugene, $40,895; Waldo Hardie & Son, 858 Pearl, Eugene, $43,617; J. M. Steinmuller, Jr., 907 W. 3rd Ave., Eugene, $43,643. DW 7-18. Previous report 7-11

●■ RESIDENCE— Eugene, Ore.

Bids will be opened 7:30 p. m., July 24, in the office of the architect, for construction of a residence at 26th and Lincoln Streets in Eugene for Charles B. Erickson of Eugene. Plans with Phil Gilmore, architect, 797 Willamette St., Eugene. Two-story; daylight basement; wood frame construction; cedar siding; built-up roof; asphalt and ceramic tile; sheetrock walls; oak flooring; batt insulation; weatherstripping; millwork; warm air heating system, oil furnace.
Planholders: Bailey & Johnson, 151 Lawrence; R. S. Millhollen, 783 Howard; Jens Thorsen, 90 Willona Drive; C. Ken Dart, 124 Arbor Drive; Roscoe T. Perkins, 3758 Franklin Blvd. All of Eugene. DW 7-18

★SCHOOL ADDITION— Foster, Ore.

Award by Linn County School District No. 113, Mrs. Anola Murray, clerk, Foster Grade School, Foster, for additions to the school. Plans by Freeman, Hayslip, Tuft & Hewlett, architects, 2040 S.W. 3rd Ave., Portland. AWARD: Clayton Potter, 838 W. 17th St., Albany, $24,989. 2ND LOW: Ray Lillie, P. O. Box 222, Albany, $27,245. 3RD LOW: Grubb, Johnson & Rose, Crees Bldg., Corvallis, $30,239. Bids opened July 11.
WB 7-14. Previous report 6-23

●GARAGE ADDITION— Gresham, Ore.

Bids to be opened 8 p. m., August 2, by School District No. 4, Multnomah County, Melvin J. Brugger, clerk, East Gresham Elementary School, Gresham, for addition to bus garage at East Gresham School. Plans with Edmundson, Kochendoerfer & Kennedy, architects and engineer, 325 Henry Bldg., Portland. $25 deposit. Certified check, cashier's check or bid bond 5%. Concrete floor; brick and concrete block walls; wood columns and joists supporting built-up roof; three overhead doors. WB 7-18

HOSPITAL ADDITION— Hood River, Ore.

Bids rejected and will be readvertised by Hood River Hospital, Glen Howell, administrator, Hood River, Ore., for addition and remodeling of the hospital. Plans by Walter E. Kelly, architect, 808 S.E. 28th Ave., Portland. WB 7-17. Previous report 7-11

RESIDENCE— Klamath Falls, Ore.
(Estimated cost $10,000)

Contracts with sub-contracts to be negotiated soon by Vern Schortgen, city building inspector, Klamath Falls, for construction of a residence for the caretaker of Klamath Memorial Park on U. S. Highway 66 and 97, southwest of Klamath Falls. Completion time scheduled for early September. One-story; frame; brick veneer; 1,000 sq. ft. area; to conform in design to existing office and storage building. Sub-contracts include roofing, electrical, glass and glazing, millwork, plumbing, miscellaneous iron, floor covering, carpentry, plastering and painting. ZZ 7-14

●JAIL— Madras, Ore.

Bids will be opened 8 p. m., August 14, by Joseph M. Plain, city recorder, City Hall, Madras, for construction of jail in Madras. Plans with recorder. $20 deposit. Certified check, cashier's check or bid bond 5%. Pumice block construction; 31'x57'; concrete slab floor; flat roof; cavities in block to be filled with concrete around all cells; six cells included. SC 7-18

TELEPHONE BUILDING, CABLE PLANT— Maline, Ore.
(Estimated cost $35,000)

Columbia Utilities Co. is negotiating for construction of new telephone building and cable plant on 4th St. in Malin. Plant to be capable of expanding to 10,000 lines, serving approximately 40,000 persons. SS 7-17

▲SCHOOL RENOVATIONS, EXPANSION— Medford, Ore.

Bids received by Medford School District, Medford, for renovations and expansion of Medford high school and Hedrick junior high school in Medford. Plans by Robert J. Keeney, architect, 32 N. Central Ave., Medford. LOW BIDS — GENERAL: Minshall Construction Co., Box 154, Jacksonville, $38,590 (Medford high school), $24,929 (Hedrick); Myers D. Jones, 1 Acorn Way, $39,780 (Medford); Bessonette & Graff, 613 E. Jackson, $39,980 (Medford). MECHANICAL: Trowbridge & Flynn, 214 W. Main St., $6,242 (Medford), $4,375 (Hedrick). ELECTRICAL: Electronic Service, 18 N. Grape, $5,480, $2,659. SC 7-18

■ RETIREMENT HOME ANNEX— Milwaukie, Ore.

Planholders (select list) announced for Willamette View Court, annex to Willamette View Manor, 2705 Southeast River Road. Bids to be opened 3 p. m., July 23, by Oregon Methodist Homes, Inc., Clyde W. Mummery, administrator, at the Manor. Plans by Leslie E. Poole, engineer, 301 Royal Bldg., Portland.
Planholders: Frank C. Ralph & Sons, 2204 N.E. Alberta St.; Henry M. Mason Co., 2206 N.W. Thurman St.; Smith-Phillips Co., 7402 S.W. Macadam Ave.; Funston Construction Co., 3726 S.E. Hawthorne Blvd. Of Portland. WB 7-14. Previous report 7-5

▲SCHOOL REMODELING—Milwaukie, Ore.

Bids opened by School District No. U.H. 5, Clackamas County, F. F. Paulsen, clerk, Milwaukie High School, 1550 23rd St., Milwaukie, for remodeling cafeteria and auditorium at existing high school building. Plans by Freeman, Hayslip, Tuft & Hewlett, architects, 2040 S.W. 3rd Ave., Portland. BIDDERS: Gene Settergren, 1625 S.E. Woodward St., Portland, $20,185; Russ Todd, 4335 S.W. Fir Grove Lane, Portland, $20,951. Bids opened July 9. WB 7-14. Previous report 6-23

■ HIGH SCHOOL— Milwaukie, Ore.

Planholders announced for new high school on Lake Road and Webster Road. Bids to be opened 8 p. m., July 26, by School District No. U.H. 5, Clackamas County, Fred F. Paulson, clerk, Superintendent's Office, Milwaukie. Plans by Freeman, Hayslip, Tuft & Hewlett, architects, 2040 S.W. 3rd Ave., Portland.
Planholders: Juhr & Sons, 1339 S.E. Gideon St.; Riverman & Sons, 1230 S.E. 63rd Ave.; Industrial Building Co., Eugene; C. R. Schmiedeskamp, 1008 S.W. 6th Ave.; Robertson, Hay & Wallace, 1801 S.E. Grand Ave. Of Portland except as noted.
WB 7-17. Previous report 7-3

▲FINISH HOSPITAL— Newberg, Ore.

Bids opened by city recorder, Thomas Beaty, City Hall, Newberg, for completion of municipal hospital. Plans by Roald, Schmeer & Harrington, architects, 1104 Portland Trust Bldg., Portland. LOW BIDS: Julius Johnson, 17640 S.E. Powell Blvd., Portland, $142,313; R. M. Curtis, 313 N. Edwards, Newberg, $142,740; Walter Beebe, 2134 N. Flint Ave., Portland, $144,950. Bids opened July 10.
WB 7-14. Previous report 7-6

▲SCHOOL ADDITIONS— Newberg, Ore.

Bids received and rejected by Union High School District No. 6, Newberg, for construction of building to house classrooms, cafeteria, kitchen and music rooms to supplement existing high school building in Newberg. LOW BID: Roy Curtis, 313 N. Edwards, Newberg, $120,345. ONLY OTHER BID: Gene Settergren, 2632 S.E. Salmon, Portland, $131,699. SC 7-17

ELEMENTARY SCHOOL— Ontario, Ore.
(Estimated cost $170,000)

Additional description for construction of new elementary school at 1300 W. Idaho Ave. in Ontario. Bids will be opened 8 p. m., July 24, by School District No. 8-C, Tom Calkins, superintendent, Malheur County, Ontario. Plans with Charles W. Johnson, architect, 13 N. 8th, Payette, Idaho. Structural engineer is Ronald Blakeley, 312 N. 5th Ave., Caldwell; mechanical engineer is George Richardson, 1303 N. Wilson, Boise. $50 (general) and $15 (mechanical) deposit. Bid bond 5%. Completion date January 1, 1957.
One-story; no basement; concrete footings and foundation; 57'x270', 17,500 sq. ft. area; poured concrete walls; frame floors; timber girders, beams, columns; glued laminated roof; frame partitions; steel windows; mineral wool insulation in ceilings; hot water heating system, oil fuel; mechanical air conditioning system.
SP 7-13. Previous report 7-5

RESIDENCE— Oswego, Ore.
(Estimated cost $20,000)

Construction starting by general contractor, W. E. Barrett, 5112 S.E. 50th Ave., Portland, for residence in Oswego for James A. Sechser. Plans by George K. Butler, architect, 1217 S.W. 19th Ave., Portland. Split level house, approximately 1,600 sq. ft., with two baths; frame construction; drywall interior; slate, carpeting and cork floors; cedar ceilings, except sheet rock or drywall in bedrooms; Roman brick fireplace, oven, grill and entrance steps; mahogany woodwork; gas-fired, warm air heating; all gas kitchen, except refrigerator; open carport.
WB 7-17

★RESIDENCES— Paulina, Ore.

Award to Glen Magill, Dayton, Wash., $35,000, by U. S. Forest Service, Regional Supply Officer, 729 N.E. Oregon St., P. O. Box 4137, Portland, for construction of two residences at Rager Ranger Station near Paulina, about 75 miles east of Prineville. Bids opened July 12.
WB 7-17. Previous report 6-27

▲CLASSROOM BUILDING—Portland, Ore.

Bids opened July 11 by Portland School District No. 1, 620 N.E. Halsey St., for portable classroom at Fernwood School. LOW BIDS: Fred W. Carter, 6034 N.E. 60th Ave., $18,552; Heigele Home Construction Co., 4034 N.E. 18th Ave., $18,646; Howard Brewton, 716 N.E. 3rd Ave., $19,890. Of Portland.
WB 7-13. Previous report 6-16

●GUTTER AND DOWNSPOUT INSTALLATION— Portland, Ore.

Bids to be opened 2:15 p. m., July 31, by Corps of Engineers, Seattle District, 4735 E. Marginal Way, Seattle, for installation of gutters and downspouts on aircraft control and warning building and engineer aviation building, Air National Guard Facilities, Portland International Airport, Ore.; ENG-45-108-57-10. Plans with district engineer, at above address. Bid bond 20%. GW 7-14

★FIELD LIGHTING, GRANDSTAND— Portland, Ore.

Award by School District No. U-3, Multnomah County, Floyd Light, superintendent, 1500 S.E. 13th Ave., for lighting of athletic field and first unit of grandstand at David Douglas High School, 1500 S.E. 13th Ave. Plans by Annand, Boone & Lei, architects, 1530 S.W. Taylor St., Portland. AWARD: Juhr & Sons, 1339 S.E. Gideon St., $107,700. 2ND LOW: Weston Construction Co., 7415 N.E. Glisan St., $107,800. 3RD LOW: Blanchard Construction Co., 2546 S.W. Vista Ave., $109,603. Of Portland.
WB 7-14. Previous report 7-5

★ZOO CONSTRUCTION— Portland, Ore.

Award to E. E. Settergren, 3723 S.E. 21st Ave., Portland, $567,650, by city purchasing agent, room 208, City Hall, Portland, for Contract Group 3, Zoological Gardens, Hoyt

Park, Portland. Plans by Lawrence, Tucker & Wallmann, architects, 920 Failing Bldg., Portland. WB 7-14. Previous report 7-6

●DORMITORY ALTERATIONS— Portland, Ore.

Bids to be opened 5 p.m., July 24, in office of Scott & Payne, architects, 511 Builders Exchange Bldg., Portland, for alterations to the basement of the men's dormitory at Concordia College, 2811 N.E. Holman St., Portland. Plans to be issued to select list of bidders July 16.

Basement to house 22 men, student council and journalism room, carpenter's shop area, play area, small domestic laundry and housemaster's quarters (living room, kitchen, bedroom and bath). Metal studs, lath and plaster partitions; suspended ceiling with lath and plaster; asphalt tile flooring; ceramic tile in showers; new plumbing fixtures; built-in wardrobes and desks; fin type heating; recessed incandescent lighting. WB 7-14. Previous report 5-9

●RESILIENT FLOORS— Portland, Ore.

Bids will be received 2:30 p.m., July 25, at Portland School District No. 1, 620 N.E. Halsey St., and opened at 3:30 p.m., at Holladay School Auditorium, 1343 N.E. 9th Ave., Portland, for installation of resilient floors at Annex No. 2. WB 7-14

AUTO DISPLAY ROOM— Portland, Ore.
(Estimated cost $30,000)

Preliminary plans completed by John Storrs, architect, 1125 S.W. 13th Ave., Portland, for automobile showroom on Sandy Blvd. at 28th Ave., for Meadows Pontiac, 2705 N.E. Sandy Blvd. Building to cover about half of wedge-shaped block; sawtooth design with glass front. WB 7-17

FUME HOOD— Portland, Ore.

Bids rejected by city purchasing agent, room 208, City Hall, Portland, for furnishing one fume hood.

WB 7-17. Previous report 6-27

★LAMINATED PLASTIC— Portland, Ore.

Award to Northwest Products Co., 8614 N. Crawford St., Portland, $3,097, by Portland School District No. 1, 620 N.E. Halsey St., for laminated plastic for storeroom stock. Bids opened June 27.

WB 7-17. Previous report 6-16

SHOPPING CENTER— Portland, Ore.

Working drawings nearly complete by George K. Butler, architect, 1217 S.W. 19th Ave., Portland, for Garden Home Shopping Center at Garden Home and Oleson Road, for Reinhardt Bros., owners-builders, 7635 S.W. 82nd Ave.

Initial construction will include 3,500 sq. ft. of eventual 14,000 sq. ft.; 108'x32'. Concrete rear walls; aluminum window walls in front; glued laminated beams under wood frame and built-up roof; masonry partitions; aluminum sash; probably asphalt tile flooring; plasterboard and acoustical ceilings; gas-fired, warm air heating, probably with unitheaters. WB 7-18

▲BRANCH LIBRARY— Portland, Ore.

Bids received by Library Association of Portland, Bernard Van Horne, secretary, 801 S.W. 10th Ave., Portland, for Southwest Hills branch library at S.W. Sunset Blvd. and DeWitt St. Plans by Walter Gordon, architect, 711 S.W. Columbia St., Portland. LOW BIDS: Norman Builders, 2805 S.W. 3rd Ave., Portland, $68,557; Barnard & Kinney, 4200 S.W. 103rd Ave., Beaverton, $68,774; A. C. Schommer, 5226 N.E. Wisteria Drive, Portland, $70,421. Bids opened July 16.

WB 7-18. Previous report 7-12

★EQUIPMENT BUILDING— Rogue River, Ore.

Award to H. Barnhart Construction Co., Medford, $6,600, by Pacific Telephone & Telegraph Co., Walter G. Peterson, building engineer, 301 Lincoln Bldg., Portland, for main repeater equipment building at Rogue River. Bids opened July 11.

WB 7-17. Previous report 6-30

▲DORMITORY— Salem, Ore.

Bids opened July 12 by Oregon State Board of Control, room 124, Capitol Bldg., Salem, for construction of boys' dormitory building at Oregon State School for the Deaf, 999 Locust St., Salem. Plans by Logan & Murtaugh, architects, 1940 S.W. 4th Ave., Portland. LOW BIDS: George A. Moore & Associates, 923 S.W. 17th Ave., $496,650; James S. Hickey, Inc., 523 S.E. Stark St., $518,000; Julius Johnson, 17640 S.E. Powell Blvd., $532,000. Of Portland.

WB 7-14. Previous report 7-7

★SCHOOL ADDITION— Salem, Ore.

Award announced by School District No. 102, Velva Holcom, Salem, for construction of one-classroom and multipurpose room addition of Lake Labish Elementary School, Route 2, Salem. Plans by James L. Payne, architect, 725 S. Commercial St., Salem. Bids opened June 28. AWARD: Mills Construction Co., Route 2, Box 294, Salem, $27,991. SP 7-17. Previous report 6-26

●■BUILDING ADDITION— Salem, Ore.

Bids to be opened 2 p.m., July 25, by Pacific Telephone & Telegraph Co., Charles Twelves, chief engineer, 406 Lincoln Bldg., Portland, for addition to radio relay building at Prospect Hill, six mi. south of Salem. Concrete block construction; 10'x15' addition to house emergency power generator.

Planholders: E. E. Batterman, 147 N. Commercial St., Salem; Robert D. Morrow, 3365 S. Commercial, Salem; Robert C. Wilson, 1275 N. 9th, Corvallis. WB 7-17

▲WAREHOUSE— Springfield, Ore.

Bids received by Willamalane Park and Recreation District, Dr. Jesse Miller, chairman, 8th and "A" Streets, Springfield, for construction of a park warehouse building at 12th and "G" Streets in Springfield. Plans by Don Lutes, architect, U. S. National Bank Bldg., Springfield. Bids opened July 9. LOW BIDS: Albert Vik & Son, 160 Madison, $7,016 (base bid), $1,015 (alt. 1 add.); J. M. Steinmuller, Jr., 907 W. 3rd Ave., $7,506, $835; Cascade Contractors, 175 E. 4th Ave., $8,290, $722. DW 7-13. Previous report 7-5

■SCHOOL ADDITIONS— Springfield, Ore.

Planholders announced for construction of additions to Thurston and Walterville elementary schools in Springfield. Bids will be opened 8 p.m., July 23, by Springfield School District No. 19, Harold Beall, superintendent, 1030 "G" Ct., Springfield. Plans with Wilmsen & Endicott, architects, 863 E. 13th Ave., Eugene.

Planholders: Albert Vik & Son, 160 Madison; Cascade Contractors, 175 E. 4th Ave.; Waldo Hardie & Son, Box 422. All of Eugene. DW 7-17. Previous report 6-30

TELEPHONE FACILITIES— Spray, Ore.

R.E.A. first loan of $557,000 approved for Blue Mountain Telephone, Inc., Robert Ashmead, president and manager, Spray, Ore., for improving and extending rural telephone service in Grant and Wheeler counties. Includes 474 mi. of line, dial central offices at Long Creek, Mitchell and Monument, and dial central office and commercial office facilities at Spray, and rebuilding 60 mi. of present line. WB 7-17

▲SCHOOL ADDITION— West Linn, Ore.

Bids received July 12, and rejected as too high by School District No. 3 Jt., Clackamas County, K. Renner, clerk, High School Bldg., West Linn. Plans by Annand, Boone & Lei, architects, 1530 S.W. Taylor St., Portland. LOW BIDS: Blanchard Construction Co., 2546 S.W. Vista Ave., Portland, $95,146; Richard L. Martin, Box 482, Oswego, $98,469; Norman Builders, 2805 S.W. 3rd Ave., Portland, $98,799. Project will be rebid. WB 7-17. Previous report 7-5

Profitable leads and up to the minute news on all types of building and engineering construction in the states of Oregon, Washington, Idaho, Montana, Wyoming, Utah and in Alaska, are published in these columns.

WASHINGTON

DOCK— Anacortes, Wash.

Application submitted by Texas Co., W. B. Logan, Pacific Coast manager, Refining Division, 2500 16th S.W., Seattle, to U. S. Army Engineers, for approval of construction of a dock to service proposed oil refinery at March's Point in Anacortes. Dock on Fidalgo Bay to be 577'; 1,500' causeway leading to dock. JD 7-13

■HIGH SCHOOL ADDITION— Auburn, Wash.

Planholders announced for the construction of a two-classroom and music unit addition at Auburn Senior High School, 800 4th N.E., Auburn. Bids to be opened 2 p.m., July 26, by Auburn School District No. 408, H. C. Jones, secretary, 9420 24th Place, Auburn. Plans with Mallis & DeHart, architects, 631 Lyon Bldg., Seattle. Certified check, cashier's check or bid bond 5%.

Additional planholders—GENERAL: Ness Construction Co., 1125 W. 53rd; Riley Pleas, Inc., 1418 E. Lynn; Hedeen Construction Co., 1404 N. 142nd, all of Seattle; Gest Construction Co., 2014 Bronson Way N, Renton; Carl Nilson & Sons, Box 514, Auburn; Absher Construction Co., 1109 25th Ave. S.E., Puyallup. GW 7-18. Previous report 7-11

STORE BUILDING— Bellevue, Wash.
(Estimated cost $400,000)

Plans underway by J. C. Penney Co. for construction of a new store building on the south side of the Shopping Square in Bellevue. Building will be constructed for Bellevue Properties, Inc., and will be two-stories; 28,000 sq. ft. GC 7-13

★HIGHLAND ELEMENTARY SCHOOL— Bellevue, Wash.

Awards by Bellevue School District No. 405, King County, George B. Brain, superintendent, Box 67, Bellevue, for construction of an elementary school in the Highland area east of 104th S.E. and north of S.E. 8th, Bellevue. AWARDS—GENERAL: Dahlgren Construction Co., 1700 21st Ave. S., Seattle, $334,204 (basic with deductive alternates). MECHANICAL: Bellevue Plumbing and Heating Co., 102nd and Main, Bellevue, $116,491. ELECTRICAL: Gracey Electric Co., 3009 Fairmont, Seattle, $31,261.

GW 7-17. Previous report 6-14

●HIGHLAND JUNIOR HIGH SCHOOL— Bellevue, Wash.

Bids to be opened 2 p.m., August 7, by Bellevue School District No. 405, King County, George B. Brain, superintendent, Box 67, Bellevue, in the office of Naramore, Bain, Brady & Johanson, architects, 904 7th Ave., Seattle, for construction of a new junior high school at Highland, between Bellevue and Redmond. Plans with architects. $50 deposit. Certified check, cashier's check, or bid bond 5%.

Six, one-story buildings; 72,000 sq. ft.; thin shell concrete structure; concrete slab floors; built-up roof; exterior finish brick, with window panels; low pressure steam heating system, oil fired, with overhead piping; new building to be connected to existing building by covered walkway.

GW 7-17. Previous report 4-25

TECHNICAL SCHOOL— Bellingham, Wash.

Plans complete for Bellingharn Technical School, Lindberg Ave. near Marine Drive, Bellingham, for Bellingham School District No. 501, Bellingham. Plans by Galen W. Bentley, architect, 1130 State St., Bellingham. One-story; no basement; 33,500 sq. ft. area; concrete footings and foundation; poured concrete and metal walls; concrete slab floors; steel girders, beams, columns; masonry partitions; flat steel roof; rigid insulation in roof; hot water heating system, gas or oil fuel. JD 7-17

★WEBHOUSE IMPROVEMENTS, HOUSE ROOFING— Bellingham, Wash.

Awards announced by Bellingham Port Commission, Walter Dailey, manager, Port

of Bellingham, Bellingham, for remodeling of webhouse No. 1 and installation of eavestroughs and downspouts on east side of webhouse No. 1 and both sides of No. 3; for reroofing of warehouses No. 1 and 2, at Port of Bellingham. Bids opened July 10. AWARDS: William Erchinger, 1534 Meridian Road, Bellingham, $2,992 (reroofing warehouse No. 2); Ershig Sheetmetal Co., 119 W. Chestnut, Bellingham, $1,414 (eaves and downspouts, Nos. 1, 2 and 3). Builders Construction Co., Bellingham, $9,134 (remodeling webhouse No. 1).
JD 7-17. Previous report 7-5

REFINERY — Bellingham-Anacortes, Wash.
(Estimated cost $10,000,000)
Site surveys to start soon by New England Industries, New York, for proposed oil refinery in Bellingham-Anacortes area. Plans call for refinery on shore of Puget Sound. Approximately 100 acres will be needed. Plantwill manufacture aviation gasoline.
DC 7-17

SCHOOLS— Bellingham, Wash.
Bond election will be held at November general election by Bellingham School District No. 501, Gordon Carter, superintendent, Roeder School, Bellingham, for $700,000 bond issue. Funds plus proposed state matching funds would finance the following construction: 1—addition to Columbia school; estimated cost $179,000. 2—addition to Fairhaven Junior High School; estimated cost $377,000. 3—addition to Carl Cozier school; estimated cost $35,000. 4—music rooms and bas garage at Bellingham High School; estimated cost $126,000.
JD 7-18. Previous report 5-5

★BOILER— Chehalis, Wash.
Award to S. M. Gilbert & Co., 7100 E. Marginal Way, Seattle, $25,172, by H. D. Van Eaton, director, Department of General Administration, 218 General Administration Bldg., Olympia, for installation of new boiler at Green Hill School in Chehalis. Plans by James B. Notkin, mechanical engineer, 233 Eastlake, Seattle.
DE 7-18. Previous report 7-10

★CHURCH— Edmonds, Wash.
Award negotiated with W. G. Clark Co., 408 Aurora, Seattle, $47,173, on the basis of deductive alternates, by Christ Lutheran Church, 8601 Madrona Lane, Edmonds, for construction of the first unit of the church. Plans supervised by Grant, Copeland & Chervenak, architects, 402 E. Howell, Seattle.
GW 7-18. Previous report 7-10

★SCHOOL— Enumclaw, Wash.
Awards by Enumclaw School District No. 216, King County, Charles J. Smith, superintendent, 2222 Porter St., Enumclaw, for construction of the J. J. Smith Elementary School at 1640 Fell St., Enumclaw. Plans by William Aitken, architect, 408 Marion St., Seattle. AWARDS—GENERAL: Riley Pleas, Inc., 1418 E. Lynn, Seattle, $307,628 (basic plus additive alternates). MECHANICAL: Douglas Plumbing and Heating Co., 1702 Cole St., Enumclaw, $77,359 (basic). ELECTRICAL: J. M. Hooper Electric Co., 215 Marion, Seattle, $35,358 (basic plus additive alternates). Watts Electric and Appliance Co., 1722 Market St., Seattle, was apparent low on the basic at the bid opening, but acceptance of two additive alternates qualified this bidder for the award.
GW 7-18. Previous report 6-7

STORE BUILDING— Ephrata, Wash.
Plans will be complete soon by John L. Mattison, architect, 209 W. Division, Ephrata, for construction of a store building in Ephrata.
One-story; 40'x90', 3,600 sq. ft. area; concrete footings and foundation; solid masonry walls; concrete slab floors; flat roof, steel beams and wood joists; masonry partitions; aluminum windows; plaster interior wall finish; exposed masonry partitions; asphalt tile floor finish; plaster ceilings; aluminum doors; batt insulation in ceiling; fluorescent lighting; electric heat; swamp cooler.
BJ 7-18

PUD OFFICE BUILDING— Everett, Wash.
Bids rejected by Snohomish County PUD No. 1, 3030 Colby, Everett, for construction of a new office building at Virginia and California, Everett. Plans by William Arild Johnson & Associates, architects, 3506 Broadway, Everett. HH 7-13. Previous report 7-5

HOUSING— Fairchild AFB, Wash.
Bids to be called early in August by Department of Air Force, Major R. C. Axle, contracting officer, Fairchild AFB, for construction of 250 housing units at Fairchild AFB, Wash. Plans are completed by Bassetti & Morse, architects, 1602 Tower Bldg., Seattle, and McClure & Adkison, supervising architects, N. 108 Washington, Spokane.
Project includes 30 single houses; 100 duplex buildings; 120 unit duplexes; SCR brick and frame walls; frame floors; timber beams; built-up roofing with marble chips; wood windows; plasterboard interior wall finish; asphalt tile and vinyl tile floors; plaster ceilings.
GW 7-14. Previous report 5-12

★VHF BUILDING— Fort Lewis, Wash.
Award to R. C. Schmalz Co., 10401 Brook Lane S.W., Tacoma, $2,580, by Department of Army, purchasing and contracting office, Fort Lewis, for construction of concrete block VHF building at Fort Lewis; AVI-45-016-56-168. Bids opened June 25.
SP 7-13. Previous report 6-19

● SECURITY WINDOW GUARDS— Fort Lewis, Wash.
Bids to be opened 2 p.m., July 31, by Corps of Engineers, Seattle District, 4735 E. Marginal Way, Seattle, for security window guards in barracks mail room at Fort Lewis, Wash.; ENG-45-108-57-9. Plans with district engineer, at above address. Bid bond 20%.
GW 7-13

▲COMMISSARY ADDITIONS— Fort Steilacoom, Wash.
Bids received by H. D. Van Eaton, director, Department of General Administration, Olympia, for additions to the commissary at Western State Hospital in Fort Steilacoom. Plans by Lea, Pearson & Richards, architects, 240 Stadium Way, Tacoma. Bids opened July 12. LOW BID—GENERAL: R. G. Foster, 5374 S. 64th, Tacoma, $27,798; C. E. Skinner, Box 706, Orting, $28,459; M & O Construction Co., 1323 S. "K" St., Tacoma, $29,940. ELEVATOR: Montgomery Elevator Co., 907 Western Ave., Seattle, $6,957. ONLY OTHER BID: Sound Elevator Co., 2718 Elliott Ave., Seattle, $8,600.
DE 7-14. Previous report 6-26

PARISH BUILDINGS— Kirkland, Wash.
Bids to be called about August 1, by Catholic Archdiocese of Seattle, Most Rev. Thomas A. Connolly, arehbishop, 907 Terry Ave., Seattle, for construction of a church, convent, rectory, parish hall and school for the parish of Holy Family, on a ten-acre tract in Rose Hill, Kirkland. Plans complete by Johnston - Campanella, architects, 600 Orpheum Bldg., Seattle.
One story; convent 6,000 sq. ft.; rectory, 3,500 sq. ft.; church and school 28,000 sq. ft.; steel frame with masonry filter walls; tilt-up concrete walls in the church; concrete slab floors; steel girders, beams and columns; wood exposed roof in church, steel in school; masonry partitions; aluminum sash; tin deck insulation; asphalt tile flooring, acoustical fiberglass ceilings; wood cablets.
GW 7-14. Previous report 5-12

OFFICE BUILDING—Mercer Island, Wash.
Working drawings underway by Richards & Carmin, architects, 300 Orpheum Bldg., Seattle, for construction of an office building for A. H. Lundberg Pulp Engineering Co., to be located in Mercer Island Shopping Center. Bids will be called about September 1, by owner.
Two-story; 3,200 sq. ft.; on a sloping site; frame walls; concrete slab floors; flat built-up roof; cedar siding exterior finish, some glass wall area; luminus ceilings throughout; parking for 16 cars on both levels, lower floor at the back and upper floor at the front.
GW 7-14

●■ MINOR CONSTRUCTION MODIFICATIONS— Larson AFB, Wash.
Bids to be opened 2 p.m., August 14, by Corps of Engineers, Walla Walla District, 602 City-County Airport, Walla Walla, for minor construction modifications in the A.I.O. shop, automobile shop, communication building, two wing hangars, furnishing and installing an air compressor in the laundry building at Larson AFB, Wash.; ENG-45-164-57-3. Plans with district engineer, at above address. Bid bond 20%.
Planholders: Carrillo Plumbing and Heating Co., E. 515 Commercial; Do Heating Co., E. 524 3rd; G & J Plumbing and Heating Co., E. 305 Broadway; Leonard Plumbing Co., W. 1416 Pheasant Drive; Deming Plumbing and Heating Co., Paxson Drive; Grant County Plumbing and Heating Co., Box 1567; L & S Construction Co., Inc., Box 1585; Blue Mountain Construction Co., 2563 W. Hiway, all of Moses Lake; Ephrata Plumbing and Heating Co., 11th and B St., Ephrata; Valley Plumbing and Heating Co., Ephrata; Fairbanks, Morse & Co., Box 336, Yakima; Tomlinson and Buckmaster, Box 12, Warden; H. Halvorson, Inc., Box 6, Yardley; Marshall Construction Co., Box 1032, Hermiston, Ore.; G. M. Groves, Box 307, Ephrata; Cherf Bros., Inc., and Sandkay Contractors, Inc., Box 938, Ephrata; Lester N. Johnson Co., 1318 Fancher, Yardley; Yager Construction Co., 1st Ave. and A St., Ephrata.
GW 7-17

★SCHOOL BUILDING— Lyle, Wash.
Awards by School District No. R-406, Klickitat County, Lotus Ewing, clerk, Lyle Public School Office, Lyle, for construction of two school buildings at Lyle. AWARDS—GENERAL: Loftin & Robinson, Route 2, Box 348, Gresham, $202,687. MECHANICAL: Twiss Plumbing & Heating, 506 E. 2nd St., The Dalles, $76,371. ELECTRICAL: Trowbridge Electric Co., 622 S.E. Jackson St., Roseburg $28,150.
WB 7-13. Previous report 6-21

★BANK— Lynden, Wash.
Award to Ray Vander Kooi, general contractor, Lynden, $30,000, by Peoples State Bank, Irwin Le Cocq, president, Lynden, for construction of new bank building at 500 Front St. in Lynden.
JD 7-14

★PARISH HALL— Marysville, Wash.
Award to Frank Damson, Route 2, Everett, ($33,590), by Bethlehem Lutheran Church, for construction of a parish hall addition to the existing church. Plans by Grant, Copeland & Chervenak, architects, 402 E. Howell, Seattle.
GW 7-18. Previous report 6-30

● HIGH SCHOOL— Morton, Wash.
Bids to be opened 8 p.m., August 8, by Morton School District No. 214, Lewis County, Morton, for construction of campus type high school plant. Plans with William Arild Johnson & Associates, architects, 3506 Broadway, Everett. $25, $15 and $15 deposit respectively, for general, mechanical, electrical. Separate bids on above contracts. Certified check, cashier's check or bid bond 5%. Classroom unit of 75'x217'; physical education unit, L-shape, 149'x141'; vocational unit, 41'x97'. Frame, post and glued laminated beam and arches, wood sash, wood frame roof with wood deck, built-up roofing; radiant coils in floor slabs for heating.
DC 7-18

OIL REFINERY— Mukilteo, Wash.
Preliminary plans underway by Standard Oil Co. of California, White-Henry-Stuart Bldg., Seattle, for construction of an oil refinery on a 2,000-ac. site south of Mukilteo. When completed in 1960 plant will have a capacity of 50,000 to 60,000 bbls. per day.
GC 7-17

★ELEMENTARY SCHOOL— Naches City, Wash.
Awards announced by School District No. Jt. 3, Ned Phillips, superintendent, Naches Valley, Naches, for construction of a new elementary school in Naches City. Plans by Walter H. Rothe, architect, 807 W. Yakima Ave., Yakima. AWARDS—GENERAL:

Hills' Construction Co., 102 1st St., $145,500. MECHANICAL: Lentz-Interstate Plumbing & Heating, 12 S. 3rd Ave., $49,687. ELECTRICAL: Creamer Electric, 119 S. Division St., $13,147. All of Yakima.
IG 7-14. Previous report 7-13

★VOCATIONAL SHOP BUILDING— **Naches City, Wash.**

Awards announced by School District No. Jt. 3, clerk, Naches Valley, Naches, for construction of a vocational shop building in Naches City. Plans by Walter H. Rothe, architect, 807 W. Yakima Ave., Yakima. AWARDS—GENERAL, ELECTRICAL: Jake Leingang, 18 Elgin Drive, $41,849. MECHANICAL: Lentz - Interstate Plumbing & Heating, 12 S. 3rd Ave., $11,749. Both of Yakima.
IG 7-14. Previous report 7-10

CITY HALL ADDITION— **Omak, Wash.**

Request has been made for $2,250 federal planning funds by City of Omak for construction of an addition to the City Hall in Omak. Plans by H. Brant Gessel, architect, 214 E. Birch St., Walla Walla.
CK 7-13

★BUILDING MODIFICATION— **Paine AFB, Wash.**

Award to General Industries, Inc., 106 Main St., Edmonds, $6,574, by Department of Air Force, Purchasing and Contracting office, Paine AFB, for modifications of buildings Nos. 412 and 414 at Paine AFB; Inv. No. 45-602-56-40. Bids opened June 14.
HH 7-14. Previous report 6-7

★RESIDENCE— **Quilcene, Wash.**

Award to King-King Construction, Quilcene, $16,372, by U. S. Forest Service, 729 N.E. Oregon St., Portland, for residence in Quilcene.
WB 7-13. Previous report 7-5

▲FOLDING CARTON PLANT— **Renton, Wash.**

Bids received by Container Corporation of America, M. Taylor, company engineer, 4634 E. Marginal Way, Seattle, for construction of a folding carton plant on a 48-ac. site, 1½ mi. northwest of Longacres, just south of Black River, Renton. Plans by John Graham & Co., 1426 5th Ave. Bldg., Seattle. LOW BIDS—GENERAL: Lewis Construction Co., 1711 Jackson, $404,647; Kuney-Johnson Co., 1266 Mercer, $410,000; George E. Teufel Co., White-Henry-Stuart Bldg., $418,000. MECHANICAL: Boyker Plumbing and Heating Co., 2627 Eastlake, $81,938; University Plumbing and Heating Co., 3941 University Way, $83,700; Ashwell-Twist, 967 Thomas, $84,820. ELECTRICAL: O. A. Carlson Electric Co., Inc., 4025 Stone Way, $55,895; Industrial Electric Co., Inc., 1828 Yale Ave., $56,500; Agutter Electric Co., 5500 14th Ave., $58,125. SPRINKLERS: The Bay Co., 1512 Center, Tacoma, $21,590; Viking Automatic Sprinkler Co., 1120 8th Ave. S., $21,748; Grinnell Co. of the Pacific, Elliott and Bay, $22,125; all bidders of Seattle unless otherwise stated. Bids were opened July 12.
GW 7-14. Previous report 7-3

★ELEMENTARY SCHOOL— **Royal City, Wash.**

Awards announced by Lower Crab Creek School District No. 160, Grant County Star Route, Othello, for construction of an elementary school in the Royal Slope area between Vantage and Othello. Plans by Hovind, Harthorne & Smith, architects, 1500 Westlake Ave. N., Seattle, and Herald Bldg., Moses Lake. AWARDS—GENERAL: P & R Builders, Inc., Box 908, Othello, $132,512. MECHANICAL: Grant County Plumbing & Heating Co., Wheeler Road, Moses Lake, $17,197. ELECTRICAL: Quincy Electric, Quincy, $30,929.
SP 7-17. Previous report 6-28

OFFICE BUILDING— **Seattle, Wash.**

Preliminary plans underway by Johnston & Campanella, architects, for construction of a new office building for their own use, to be located at 12th Ave. and East Alder, Seattle.
GW 7-7

HOSPITAL ADDITION— **Seattle, Wash.**
(Estimated cost $450,000)

Preliminary plans underway by Stoddard, Huggard & Associates, architects, 1120 Harvard Ave., Seattle, for construction of three additional floors on Seattle General Hospital at 5th Ave. and Marion St. Construction will include an emergency room and X-ray on the first floor; five operating rooms on 2nd floor and third and fourth floors for patients rooms. There will be a new entrance and foyer.
GW 7-13

★HEATING PLANT— **Seattle, Wash.**

Award by Highline School District No. 401, Carl Laudenbach, business manager, 253 S. 152nd, Seattle, for heating plant remodeling at Lake Burien Elementary School, 14460 18th Ave. S.W. Plans by Mallis & DeHart, architects, 631 Lyon Bldg., Seattle. AWARD: Hi-Line Plumbing and Heating Co., Inc., 462 S.W. 152nd, $13,902. OTHER LOW BIDS: Ashwell Twist, 967 Thomas, $14,482; Lincoln Mechanical Construction Co., 714 Adams, $14,680; all of Seattle. Bids were opened July 11.
GW 7-13. Previous report 6-27

▲OFFICE BUILDING ADDITIONS— **Seattle, Wash.**

Bids received by General Insurance Co. of America, 4347 Brooklyn Ave., Seattle, in the office of Naramore, Bain, Brady & Johanson, architects, 904 7th Ave., Seattle, for construction of a two-story addition over the existing one-story building facing on Brooklyn Ave. and a three-story and basement addition facing on 12th Ave. N.E., Seattle. LOW BIDS: George E. Teufel Co., White-Henry-Stuart Bldg., Seattle, $583,000; John H. Sellen Construction Co., 228 9th Ave. N., Seattle, $591,412; John P. Hopkins Co., Inc., Box 247, Mercer Island, $595,000. Bids were opened July 12.
GW 7-14. Previous report 6-27

▲WALL REPAIR— **Seattle, Wash.**

Bids received by Board of Public Works, E. G. Henry, secretary, room 512, County-City Bldg., Seattle, for repair of exterior wall of Pike Place Market, 1431 1st Ave., Seattle. LOW BIDS: Sahara Waterproofing Co., 1510 W. Galer, $3,425; J. E. Collins & Co., 1314 E. 43rd, $3,941; Dale M. Madden, 3010 E. 163rd, $4,744; all of Seattle. Bids were opened July 11.
GW 7-14. Previous report 6-30

●BOW LAKE SCHOOL ADDITION— **Seattle, Wash.**

Bids to be opened 2 p.m., August 7, by Highline School District No. 401, King County, Carl Laudenbach, business manager, 253 S. 152nd, Seattle, for construction of the Bow Lake elementary school at 18237 42nd Ave. S., Seattle. Plan will be available from Jones & Bindon, architects, 715 Hoge Bldg., Seattle, after July 16. $25 deposit on general; $15 on mechanical and electrical plans. Certified check, cashier's check or bid bond 5%.

Two one-story units consisting of an eight-classroom unit with central corridor and storage, and a multipurpose unit with lobby, toilets, kitchen, storage and main play area; 10,000 sq. ft. in the classroom unit and 6,000 sq. ft. in multipurpose. General construction will include slab on gravel fill; wood stud walls with brick-veneer on certain walls and steel window walls; steel bar joists with t&g roof decking; interior walls to be plaster; asphalt tile flooring; limited kitchen equipment; clearing on site; asphaltic concrete paving for walkways; extension of the existing heating system.
GW 7-14

★DORMITORY— **Seattle, Wash.**

Awards by University of Washington, Nelson Walstrom, comptroller, Administration Bldg., campus, Seattle, for construction of a men's dormitory, second phase, on the south side of Campus Parkway, and on the east end of the existing men's dormitory. Plans by Young, Richardson, Carleton & Detlie, architects, 521 Central Bldg., Seattle. AWARDS—GENERAL: John H. Sellen Construction Co., 228 9th Ave. N., Seattle, $1,513,012. (This includes alternate to raze building, relocation of building and additive alternates.) MECHANICAL: L. G. Massart Plumbing and Heating Co., 4501 9th Ave. N.W., Seattle, $361,106 (includes additive alternates). ELECTRICAL: Agutter Electric Co., 5500 14th Ave. N.W., Seattle, $123,255. KITCHEN EQUIPMENT: Dohrmann Hotel Supply Co., 2000 5th Ave., Seattle, $39,845. CASEWORK: Roy A. Hilliard & Associates, Securities Bldg., Seattle, $223,980.
GW 7-17. Previous report 7-12

■SOUTHERN HEIGHTS SCHOOL— **Seattle, Wash.**

Planholders announced for the construction of a seven-classroom temporary kitchen, office and necessary sanitary and storage facilities addition to Southern Heights Elementary school at 14th Ave. S. and Glendale Way, Seattle. Bids to be opened 2 p. m., July 31, by Highline School District No. 401, King County, Carl Laudenbach, business manager, 253 S. 152nd, Seattle. Plans with Mallis & DeHart, architects, 631 Lyon Bldg.,

THIS PIONEER TRUCK ON THE JOB MEANS QUALITY CONSTRUCTION!



When you see the blue Pioneer truck on the job delivering Tru-Mix Concrete, you know long-lasting, quality construction is under way. When you see Tru-Mix Concrete used for foundation and other concrete work you know an architect, contractor and builder who demand first class materials are on the job. For quality materials . . . call Pioneer.

Pioneer Sand & Gravel Co.

901 Fairview North • 910 West Spokane St. • Seattle • MAin 2900

Seattle. Certified check, cashier's check or bid bond 5%.

Additional planholders—GENERAL: Gest Construction Co., 2013 Bronson Way N., Renton; Herbert U. Taylor, 12309 Arroya Beach S.W., Seattle; Richard Wines, 19045 Normandy Park Drive, Seattle.

GW 7-18. Previous report 7-11

■ **SCHOOL ADDITION— Seattle, Wash.**

Planholders announced for the construction of an eight-classroom and multipurpose addition to the existing Midway Elementary school at 24th Ave. S. and S. 226th, Seattle. Bids to be opened 2 p. m., August 6, by Highline School District No. 401, King County, Carl Laudenbach, business manager, 253 S. 152nd, Seattle. Plans with Mallis & DeHart, architects, 631 Lyon Bldg., Seattle. Certified check, cashier's check or bid bond 5%.

Planholders—GENERAL: E. F. Shuck Construction Co., 535 Pontius; Ballard Contractors, Inc., 4601 6th Ave. N.W., both of Seattle; Leavitt-Chandler Co., Box 6, Bellevue; Absher Construction Co., 1109 25th S.E., Puyallup.

GW 7-18. Previous report 6-28

● **RYTHER CENTER EXPANSION— Seattle, Wash.**

Bid opening extended from July 17 to 2 p.m., July 24, by Ryther Child Center, Frank S. Bayley, president, 4416 Stone Way, Seattle, for construction of two identical residences for children, an administration building, three covered play areas. Project to be located on a 10-ac. site at E. 95th and 23rd Ave. N.E., Seattle. Bids will be opened in the office of Jones & Bindon, architects, 715 Hoge Bldg., Seattle, where plans are available. $20 deposit.

GW 7-18. Previous report 7-14

★ **JUNIOR HIGH SCHOOL— Sedro Woolley, Wash.**

Awards by Sedro Woolley School District No. 101, Skagit County, Gordon L. Carter, superintendent, at the high school, 4th and Nelson, Sedro Woolley, for construction of a junior high school in Sedro Woolley. Plans by Mallis & DeHart, architects, 631 Lyon Bldg., Seattle. The following awards are all basic plus additive alternates. AWARDS—GENERAL: Wick Construction Co., 720 N. 35th, Seattle, $508,304. MECHANICAL: Snelson Plumbing and Heating Co., 506 E. State St., Sedro Woolley, $196,173. ELECTRICAL: Tom Dinkins Electric Co., Box 222, Sedro Woolley, $59,891.

GW 7-14. Previous report 7-3

★ **GARAGE— Shelton, Wash.**

Construction underway by C. P. Construction Co., 1823 Jackson, Seattle, for a Pacific Telephone and Telegraph Co. one-story garage with office facilities and outside pole yard at the corner of 5th and Franklin streets in Shelton.

Construction is nearly complete by Fuller & Langeland, Shelton on a business office at 122 S. 3rd, Shelton, for the telephone company.

DM 7-18

★ **GRADE SCHOOL ADDITION— Skamania, Wash.**

Award by School District No. 2, Skamania County, Elmer B. Elledge, clerk, Grade School, Skamania, Wash., for addition to the grade school. Plans by Freeman, Hayslip, Tuft & Hewlett, architects, 2040 S.W. 3rd Ave., Portland. AWARD: L. E. Raley, 5709 Evergreen Highway, Vancouver, $16,350. 2ND LOW: Larry O. Collins, 7017 Highway 99, Vancouver, $16,388. 3RD LOW: Loftin & Robinson, Route 2, Box 348, Gresham, $19,543. Bids opened July 10.

WB 7-13. Previous report 7-6

▲ **POWER PLANT ADDITIONS— Spokane, Wash.**

Bids received by Board of Trustees of Whitworth College, Administration Bldg., college campus, Spokane, for power plant additions and a maintenance building on the campus. Plans by Funk, Molander & Johnson, architects, W. 524 4th, Spokane. Bids opened July 10. LOW BIDS—GENERAL: Warner & Brown, Inc., N. 2515 Stone St., $8,461 (Unit A—power plant additions), $25,348, (Unit B—maintenance building); Eric Plath, 4503 N. Hawthorne, $8,329, $26,025; Smith & Roberts, Box 6086, $8,664, $26,366. MECHANICAL: Peck & Gale, S. 211 Washington St., $25,775, $3,193. ELECTRICAL: Audubon Electric Service, 1925 Northwest Blvd., $991, $1,388. All of Spokane.

SP 7-18. Previous report 7-5

★ **BANK— Stevenson, Wash.**

Contract negotiated with low bidders, L. E. Raley, 407 Evergreen Highway, Vancouver, by Bank of Stevenson, for new bank building in Stevenson. Construction has started. Plans by Whitney, Hinson & Jacobsen, architects, 512 Failing Bldg., Portland. Bids opened May 16.

WB 7-13. Previous report 5-9

★ **HEATING PLANT— Stevenson, Wash.**

Award by School District No. 3, Skamania County, Margaret Heller, clerk, High School, Stevenson, for construction of boiler room and heating plant for grade school building. Plans by Freeman, Hayslip, Tuft & Hewlett, architects, 2040 S.W. 3rd Ave., Portland. AWARD: L. E. Raley, 5709 Evergreen Highway, Vancouver, $29,984. 2ND LOW: Larry O. Collins, 7017 Highway 99, Vancouver, $31,235. 3RD LOW: Beaver Plumbing, 419 S.W. 1st, Beaverton, $34,139. Bids opened July 10.

WB 7-13. Previous report 6-26

★ **MOVE CLASSROOMS— Tacoma, Wash.**

Award to Northwest Hauling Co., 2318 S. Tacoma Way, Tacoma, $6,920, by Tacoma School District No. 10, Carl G. Caddey, secretary and business manager, 5th floor, School Administration Bldg., Tacoma, for moving portable classrooms in the district. Bids opened June 25.

SP 7-11. Previous report 6-14

● **SCHOOL ADDITION— Tacoma, Wash.**
(Estimated cost $120,000)

Bids to be opened 3 p. m., July 31, by Tacoma School District No. 10, S. 8th and Tacoma Ave., Tacoma, for construction of an eight-classroom primary addition to Jefferson Elementary School, N. 12th and Stevens, Tacoma. Plans with Alan Liddle, architect, Rust Bldg., 950 Pacific Ave., Tacoma. $10 deposit. Certified check, cashier's check or bid bond 5%. Structural engineers are Sitts and Hill, 1509 Center, Tacoma; mechanical engineer, David Hopkins; electrical engineer, Walter Gordon, both of 260 S. 5th, Tacoma.

One-story; 50'x250'; 11,800 sq. ft.; concrete block pier with solid masonry walls; concrete slab floors; steel beams to carry wood trusses, wood sloping built-up roof; frame partitions; exterior finish to be block and cedar; aluminum fentron sash; interior finish, exposed block and rough cedar; drywall interior partitions; asphalt tile flooring; glazed block in toilets; luminous ceilings; wood doors; wood cabinets; blackboards, sink in each classroom; batt insulation in ceilings and walls; electric heat in the floors; exhaust fan in each classroom for ventilation.

GW 7-13. Previous report 1-19

SHOPPING CENTER— Tacoma, Wash.
(Estimated cost $300,000)

Construction underway for Highland Hill Shopping Center at 5939 6th Ave. in Tacoma. Plans include twenty-one stores, including pedestrian mall in center and nearly five acres of parking area. Largest stores include drug store (6,000 sq. ft.), variety store (5,000 sq. ft.) and furniture and floor covering store (5,000 sq. ft.). Completion date October 20. Eventually, the 20-acre site will be developed into a large shopping village.

SC 7-14

TIMBER PLANT— Tacoma, Wash.
(Estimated cost $250,000)

Construction underway by Northern Construction Co., owner and general contractor, 759 Port of Tacoma Road, Tacoma, for laminated timber plant on 12-acre site on Thorne Road in Tacoma. Frame will be of laminated products and steel; 100'x300'. Completion time about October.

SC 7-14

Our news covers the six Pacific Northwest states and Alaska.

★ **BUS GARAGE— Tacoma, Wash.**

Award to Absher Construction Co., 1109 25th S.E., Puyallup, $6,555 (exclusive of doors), by Fife School District No. 417, Fife High School, route 2, Box 85, Tacoma, for construction of a bus garage at the high school. Bids opened July 9.

SP 7-18. Previous report 6-28

★ **ROOFING, SHEETMETAL REPAIR— Tacoma, Wash.**

Award to Gehri Sheet Metal Co., 1117 S. Tacoma Ave., Tacoma, $14,884, by Tacoma School District No. 10, Cary G. Caddey, secretary, School Administration Bldg., Tacoma, for re-roofing and sheetmetal repair on McCarver Intermediate School in Tacoma.

SP 7-18. Previous report 7-16

● **ELEMENTARY SCHOOL ADDITIONS, ALTERATIONS— Tacoma, Wash.**

Bids to be opened 3 p.m., July 31, by Franklin Pierce School District No. 402, Morris E. Ford, superintendent, 11002 Portland Ave., Tacoma, in the office of Lea, Pearson & Richards, architects, 240 S. Stadium Way, Tacoma, for alterations and additions to Central Avenue Grade School, 4505 E. 10th and Knapp Road, Tacoma. Plans with architects. $20 deposit. Certified check, cashier's check or bid bond 5%.

GC 7-18

■ **ELEMENTARY SCHOOL, SHOP BUILDING— Tonasket, Wash.**

Additional planholder announced for construction of a 20-classroom elementary school building and a vocational-agricultural shop building with one classroom in Tonasket. Bids will be opened 2 p.m., July 24, by Tonasket Consolidated School District No. 404, in the superintendent's office, in the high school building, Tonasket. Plans with Grant, Copeland & Cherbenak, architects, 402 E. Howell, Seattle.

Planholder: Ruud Construction Co., 403 Realty Bldg., Spokane.

Planholders—GENERAL: Sanford Wright Co., Clark Bldg., Everett; W. G. Clark Co., 408 Aurora, Seattle; Hainsworth Construction Co., 3028 Western Ave, Seattle; H. Halvorson, Inc., Box 6, Yardley; Vandivort Construction Co., Box 1647, Wenatchee.

SP 7-17. Previous report 7-13

LIME PLANT— Vancouver, Wash.
(Estimated cost $5,000,000)

Plans announced by Edna Bay Pure Stone Co., Kent B. Diehl, Sr., co-owner, Orange, Tex., for construction of lime plant on Columbia River at Vancouver, exact site not determined. Construction to begin in early 1957. Plant will have daily capacity of 300 tons and employ 150 persons. Limestone to be shipped by self-unloading ships to Vancouver plant fro mEdna Bay, Alaska.

WB 7-13

LIBRARY— Vancouver, Wash.

Bond election for $250,000 to be held September 11 by City of Vancouver, Dr. H. L. Schumacher, mayor, City Hall, Vancouver, to partially finance Fort Vancouver regional library building. Additional $250,000 bond issue to be placed before voters of Clark and Skamania counties.

WB 7-14

★ **INTERCOMMUNICATIONS SYSTEM— Vancouver, Wash.**

Award to Manchester-Chandler Co., 2915 N.E. Alberta St., Portland, $4,525, by Vancouver School District No. 37, 2223 Kauffman St., Vancouver, for intercommunications system at Shumway Junior High School.

WB 7-18. Previous report 6-26

★ **WATERPROOFING— Vancouver, Wash.**

Award to Western Waterproofing Co., Inc., Butte, Mont., $7,026, by Vancouver School District No. 37, 2223 Kauffman St., Vancouver, for repainting and waterproofing outside walls at Arnada Elementary School. Bids opened July 5.

WB 7-18. Previous report 6-23

RESIDENCE— Wapato, Wash.
(Estimated cost $32,000)

Working drawings completed for construction of a residence in Wapato for John Merritt, Wapato. Plans by Ed Marble, architect, Miller Bldg., Yakima. Brick veneer and cedar siding in basement (2,400 sq. ft.); poured concrete footings and foundation; concrete floors; built-up composition roof; plaster and paint interior wall finish; wood interior wall trim; plaster wood lath partitions; aluminum windows; asphalt tile and carpeting floor finish; birch cabinets; year around air conditioning. LG 7-14

●SCHOOL ADDITIONS—Wenatchee, Wash.

Bids will be opened 2 p.m., July 31, by School District No. 146, Chelan County, Wenatchee, for construction of four classroom additions to Lewis & Clark elementary school on Springwater and Pearl Streets, and four classroom additions to Washington elementary school on Washington St. and Elliott Ave., in Wenatchee. Plans with Alvin S. Erickson, architect, Central Bldg., Wenatchee. $30 deposit. Bid bond 5%.
SC 7-14

★GRANDSTAND, BLEACHERS— Wenatchee, Wash.

Award to Safway Scaffold, Inc., 1410 Airport Way, Seattle, $15,825 (Apple Bowl), $5,735 (gymnasium), by School District No. 146, Chelan County, Wenatchee, for grandstands and bleachers for the Apple Bowl; for folding bleachers for the H. B. Ellison junior high school gymnasium in Wenatchee. Bids opened July 9.
SP 7-17. Preivous report 6-28

★GYMNASIUM, LOCKER ROOM REMODELING— Wenatchee, Wash.

Award to Cusick Construction Co., only bidder, 739 S. Mission St., Wenatchee, $66,053, by School District No. 146, Board of Directors, Chelan County, Wenatchee, for remodeling old Wenatchee Junior High School gymnasium and locker room. Plans by Alvin S. Erickson, architect, Central Bldg., Wenatchee. Bids opened July 9.
SP 7-18. Previous report 6-27

OFFICE, STORE BUILDING— Yakima, Wash.
(Estimated cost $35,000)

Construction to start soon by W. W. Nettleship Building Co., general contractor, 408 S. 26th Ave., Yakima, for office and store building at 7th and W. Yakima Ave. in Yakima, for Elizabeth Aumiller and Mildred Cahoon, Yakima Title Co., 20 N. 2nd St., Yakima. One-story; 5,710 sq. ft. area; block masonry construction; concrete floors, asphalt tile flooring; built-up asphalt roofing; plaster wood-lath partitions; plaster ceiling; steel sash windows; paint and plaster wall finish, wood trim; gas-fired heating system, oil fuel. IG 7-13

WAREHOUSE— Yakima, Wash.
(Estimated cost $300,000)

Construction underway by Smoot Bros. Construction Co., general contractor, 215 S. 26th Ave., Yakima, for a new storage and packing warehouse on Nob Hill in Yakima, for Pyramid Orchards, Edward Bannister, owner, Nob Hill Blvd., Yakima. Precast concrete slab foundation and construction; concrete slab floors; 200'x280'; bolstered arches (storage rooms), glued laminated beams (packing room); built-up trussed composition roof. IG 7-12

OFFICE BUILDING— Yakima, Wash.
(Estimated cost $30,000)

Construction underway by W. W. Nettleship Building Co., general contractor, 408 S. 26th Ave., Yakima, for new office building in 100 block on S. 7th Ave. in Yakima, for Yakima Credit Bureau, E. J. Ditter, manager, Masonic Temple Bldg., Yakima.

Block structure; 50'x60'; glued laminated beams; concrete floors; steel sashes; rubber tile floor finish; plaster and paint interior wall finish, mahogany trim; mahogany doors; plaster and paint ceiling. IG 7-14

★STUDENT UNION BUILDING— Yakima, Wash.
(Estimated cost $30,000)

Contract let to Gilbert H. Moen, 516 S. 5th Ave., Yakima, by Yakima Valley Junior College, School District No. 7, Milton Martin, superintendent, 112 N. 4th Ave., Yakima, for construction of a student union building at S. 16th Ave. in Yakima. Plans by Maloney & Whitney, architects, Larson Bldg., Yakima. Bids were rejected as too high in May and plans were revised.
IG 7-14. Previous report 6-20

WAREHOUSE, OFFICE BUILDING— Yakima, Wash.
(Estimated cost $100,000)

Construction underway by Dan Davis & Co., owner and general contractor, Terminal Sales Bldg., Portland, Ore., for new warehouse and office building at Campbell and Landon Avenues in Yakima. Plans by Percy & Lathrop, architrects, Terminal Sales Bldg., Portland. One-story; concrete construction; glued laminated beams; concrete columns; acoustical tile ceilings; concrete slab floors; plaster and paint wall finish; light canopy for loading docks; asphaltic concrete parking area. IG 7-14

IDAHO

▲OFFICE BUILDING— Blackfoot, Idaho

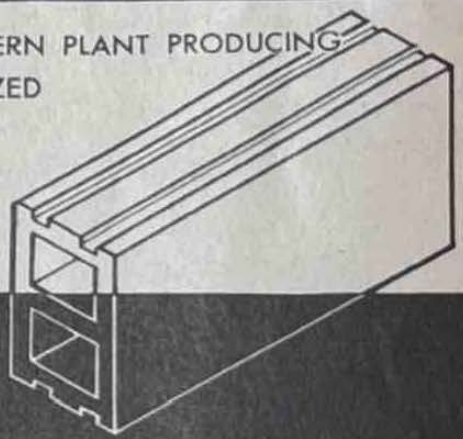
Bids received July 12 and rejected by Arthur Warren, director, State Public Works Department, Boise, for construction of an office building in Blackfoot for the Idaho Employment Security Agency.
SP 7-14. Previous report 7-6

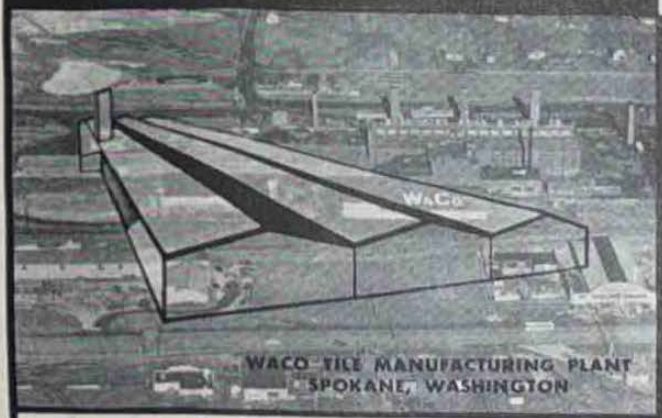
■BOILER REPLACEMENT— Boise, Idaho

Planholders announced for replacing boilers and auxiliaries at Veterans Administration Hospital in Boise; Proj. 11-4074; Spec. No. 5613. Bids will be received until 1:30

WACO TILE

A NEW MODERN PLANT PRODUCING QUALITY GLAZED STRUCTURAL TILE FOR YOUR JOB





● ARCHITECTURALLY-SELECTED COLORS
● QUALITY CONTROLLED
● PERMANENT MODERN BEAUTY

WaCo-Tile is distributed over the Pacific Northwest and Alaska . . . the nearest source to your job.

Write now for specifications and detailed information!

WASHINGTON BRICK & LIME CO.

SPOKANE ● PORTLAND ● SEATTLE

MEMBER WESTERN STRUCTURAL TILE INSTITUTE

p. m., August 7, by Construction Service, director, 2707 Veterans Administration Munitions Bldg., Washington, D. C., and opened in room 2033 in the same building.

Planholders: C. W. Watkins & Son, Box 1786, Boise; Avery Plumbing & Heating Co., Box 7704, Portland, Ore.; Fraser's Boiler Service, Inc., 2106 Rainier Ave., Seattle, Wash.; E. Keeler Co., 411 Tower Bldg., Baltimore, Md.; The Lang Co., Inc., Box 479, Salt Lake City, Utah; P. W. Larsen Contractor, Inc., 361 W. 4th South, Salt Lake City; P. S. Lord Mechanical Contractors, 4507 S.E. Milwaukie Ave., Portland; Pace-Turpin & Co., 726 S. 3rd West, Salt Lake City; Peerless Boiler & Engineering Co., 2015 E. Park Place, Oklahoma City, Okla; Webster Manufacturing, Inc., Philadelphia District Office, Box 117, Upper Darby, Pa.; Intermountain Co., Box 1652, Boise.

SP 7-17. Previous report 6-13

★BUILDING ALTERATIONS— Eastport, Idaho

Award to H. L. Grohne Co., 2594 N. Water, Decatur, Ill., $28,118, by General Services Administration, room 126, Federal Office Bldg., Seattle, for building alterations and improvements at U. S. Border Station, Eastport, Idaho; Project No. CR-10-411.

GW 7-14. Previous report 6-23

▲WEST BALCONY ADDITION— Idaho Falls, Idaho

Bids received by Atomic Energy Commission, Idaho Operations Office, Box 1221, Idaho Falls, for construction of a structural steel balcony, complete with floor plate and handrails, in the MTR Reactor Bldg., National Reactor Testing Station, Idaho Falls; Inv. No. AT(10-1)-838. Bids opened July 12. ONLY BID: C. W. Watkins & Son, Box 1786, Boise, $15,971.

SP 7-17. Previous report 7-5

★WING BUILDING ADDITION— Idaho Falls, Idaho

Award to Arrington Construction Co., Box 881, Idaho Falls, $116,350, by Atomic Energy Commission, Operations Office, 550 2nd St., Idaho Falls, for construction of an addition to existing Reactor Wing Bldg. and related work in MTR Area at National Reactor Testing Station in Idaho Falls; AT(10-1)-832.

SP 7-18. Previous report 6-26

MANUFACTURING BUILDING— Lewiston, Idaho

(Estimated cost $25,000)

Plans announced by Speer Cartridge Works, Inc., Richard Speer, owner, 20th and Snake River Ave., Lewiston, for construction of a new manufacturing building next to the cartridge plant on County Club Drive, approximately ¼ mile north of Lewiston Gun Club in Lewiston. Structure to include 1,000' floor space for manufacturing and 5,000' for warehouse use. SC 7-12

●HOSPITAL— St. Maries, Idaho

(Estimated cost $318,000)

Bids will be opened 2 p. m., August 1, by Board of Benewah County Commissioners, Frances Mallory, clerk, St. Maries, for construction of 25-bed Benewah Community Hospital at St. Maries; Proj. No. Idaho-24. Plans with McClure & Adkison, architects, 707 Sherwood Bldg., Spokane. Bid bond 2%. $50 deposit. One-story; basement; reinforced concrete footings and foundation; brick, concrete block construction; steel joists; built-up roof; aluminum sash; ceramic tile; hot water heating system. Equipment includes sterilizers, lights and kitchen and laundry equipment; extensive earthwork anticipated.

SP 7-18. Previous report 7-12

GAP FILLER BUILDING— Waha, Idaho

Bid opening extended indefinitely by Corps of Engineers, Seattle District, 4735 E. Marginal Way, Seattle, for construction of gap filler facilities at Waha, Idaho; ENG-45-108-56-210. Bids were to have been opened July 20.

GW 7-18. Previous report 7-17

MONTANA

OFFICE BUILDING— Billings, Mont.

(Estimated cost $150,000)

Working drawings underway by Loners & Stroebe, architects, 418 N. 25th St., Billings, for construction of one-story office building for Federal Savings & Loan Association, 2710 1st Ave. N., Billings. EE 7-13

★CREAMERY— Bozeman, Mont.

Awards announced by Gallatin Cooperative Creamery, 40 N. Grand Ave., Bozeman, for construction work on the existing building in Bozeman. Plans by Oswald Berg, Jr., architect, 1119 N. 7th, Bozeman. AWARDS—GENERAL: Haggerty-Messmer Co., Box 751, $138,500. MECHANICAL: Budd Plumbing & Heating Co., 317 E. Mendenhall, $38,847. ELECTRICAL: Coast to Coast Stores, 128 E. Main, $10,880. All of Bozeman. EE 7-13

▲HOSPITAL RENOVATIONS—Butte, Mont.

Bids received by St. James Hospital, Silver and Idaho Streets, Butte, for renovations to the existing hospital. Plans by Eldred F. Moyle, architect, 409 Silver Bow Bldg., Butte. LOW BIDS: Cahill-Mooney, Box 398, $89,278; Parrot Construction Co., 741 S. Arizona, $92,000; Boespflug Construction Co., Box 1237, $102,000. All of Butte. EE 7-13

CHURCH— Circle, Mont.

Plans completed by Vernon Drake, architect, Empire Bldg., Billings, for construction of a United Christian Church in Circle. Two selected bidders, Robert Britbach and Arne Idland, both of Circle. Plans include 30'x 60' nave and 28'x32' educational wing containing classrooms, toilets and kitchen. Concrete slab floors; wood arches, beams; wood decking; block and frame construction; forced warm air heating system. EE 7-11

★STEAM LINE— Galen, Mont.

Award to Saltenberger Plumbing & Heating Co., Anaconda, $13,961, by State Board of Examiners, G. L. Bryant, executive secretary, State Capitol Bldg., Helena, for repairs to the underground steam line serving various buildings at the state tuberculosis sanitarium at Galen.

LS 7-13. Previous report 6-30

CRIPPLED CHILDREN'S CLINIC— Great Falls, Mont.

(Estimated cost $234,000)

Donation of land announced by Montana Society for Crippled Children, Milo F. Dean, president, 2705 11th Ave. N., Billings, for site for proposed crippled children's treatment center in southeast Great Falls to serve north central Montana. Two and one-half acre site is located south of Central Ave. at about 44th St., two blocks east of proposed new junior high school site. Plans by Page & Werner, architects, 15½ 4th N., Great Falls. Fund campaign will start soon.

SC 7-14

★FLOOR REPAIRS— Great Falls, Mont.

Award announced by School District No. 1, Board of Trustees, Washington School, 1015 1st Ave. N., Great Falls, for repairs to the floor of the boys' gymnasium in basement of the Paris Gibson junior high school building in Great Falls. Plans by McIver, Hess & Haugsjaa, architects, 603 Strain Bldg., Great Falls. Bids opened July 9. AWARD: Sletten Construction Co., Box 1188, Great Falls, $5,660. ONLY OTHER BID: J. J. Jones, Contractor, Great Falls, $7,191.

SP 7-17. Previous report 6-30

★STORE FRONT REMODELING— Helena, Mont.

Award announced by Sanford-Wilson Co. of Helena, for remodeling front of Helena Hardware store, 320-322 N. Main St., Helena. Plans by William Ostheimer, architect, Penwell Bldg., Helena. Bids opened July 2. No amounts released on following bids. AWARD: Al Johnson, 326 Allen St., Helena. ONLY OTHER BID: Underseth & Logan, Madison and Hauser Blvd., Helena.

LS 7-13. Previous report 6-20

★ARMORY— Kalispell, Mont.

Award announced by State Board of Examiners, G. L. Bryant, executive secretary, State Capitol Bldg., Helena, for construction of a concrete block armory, 118'x105', in Kalispell. Plans by Weed & Fehlberg, architects, Sundelius Bldg., Kalispell. Bids opened July 12. AWARD: Montana Builders, Box 401, $107,715 (base bid plus three alternates). 2ND LOW: Gyrion Construction Co., Box 72, $110,264. 3RD LOW: Matelich Construction Co., Box 216, Englewood, Colo., $112,539. Kalispell unless otherwise stated.

RB 7-14. Previous report 7-5

★HEATING PLANT BUILDING— Kalispell, Mont.

Award announced by Equity Supply Co., 96 1st Ave. N.W., Kalispell, for construction of a heating plant building in Kalispell. Plans by Taylor, Thon, Schwartz & Kirkpatrick, architects, Ford Block, Kalispell. AWARD: Wilbur L. Graham, Strand Bldg., Kalispell, $6,641.

RB 7-18

★SKATING RINK ROOF—Missoula, Mont.

Award to Pew Construction Co., 301 Walnut, Missoula, $26,525, by State Board of Examiners, G. L. Bryant, executive secretary, State Capitol Bldg., Helena, for construction of a wood-arched roof with 127' span over skating rink at Montana State University in Missoula. EE 7-17

★FOOD SERVICE BUILDING— Missoula, Mont.

Awards announced by State Board of Education, State Capitol Bldg., Helena, for construction of a food service building on the Montana State University campus in Missoula. Plans by Brinkman & Lenon, architects, Strand Theater Bldg., Kalispell. AWARDS—GENERAL: C. B. Lauch Construction Co., Box 2559, Boise, Idaho, $219,500. MECHANICAL: C. W. Schmid Plumbing & Heating Co., 231 W. Front, Missoula, $49,879. ELECTRICAL: Missoula Electric Shop, 225 W. Broadway, Missoula, $28,340.

RB-LS 7-18. Previous report 7-14

★STORAGE BUILDING— Missoula, Mont.

Award to Northern Builders Supply Co., 736 S. 1st West, Missoula, $14,314, by State Board of Examiners, G. L. Bryant, executive secretary, State Capitol Bldg., Helena, for construction of a metal twelve-door storage building at Montana State University at Missoula.

EE 7-18

WYOMING

★AUTOMOTIVE PARTS BUILDING— Cheyenne, Wyo.

Award announced by Wyoming Automotive Co., 1712 Pioneer Ave., Cheyenne, for construction of an automotive parts building at 17th and Thomas Streets in Cheyenne. Plans by Sam C. Hutchings, Jr., architect, 1902 Thomas Ave., Cheyenne. AWARD: Loren Hancock, Boyd Bldg., Cheyenne, $75,964. 2ND LOW: Carl Christensen, 2800 Cribbon Ave., Cheyenne, $81,318. 3RD LOW: Garton & Garton, 1939 E. 18th Ave., Cheyenne, $82,179.

LY 7-18

●HIGHWAY SHOP BUILDING ADDITIONS— Cody, Worland, Thermopolis, Wyo.

Bids will be opened 9:30 a. m., August 16, by Wyoming State Highway Commission, State Capitol Bldg., Cheyenne, for construction of additions to three highway shop buildings at Cody, Worland and Thermopolis, respectively. Plans with Sam C. Hutchings, Jr., architect, 211 Read Bldg., 1902 Thomas Ave., Cheyenne. Each addition to be one-story; 24'x36'.

LY 7-18

★POST OFFICE REPAIRS, ALTERATIONS— Newcastle, Wyo.

Award to Julien Construction Co., Box 889, Newcastle, $2,487, by General Services Administration, Otto G. Klein, regional director, Bldg. 41, Denver Federal Center, Denver, Colo., for vestibule changes, lobby

floor repair and miscellaneous work on U. S. Post Office in Newcastle.
SP 7-13. Previous report 6-7

POST OFFICE EXTENSION, REMODELING— Rawlins, Wyo.

Bids rejected by General Services Administration, Bldg. 41, Denver Federal Center, Denver, Colo., for remodeling and construction of extension to U.S. Post Office in Rawlins. Bids will be readvertised.
SP 7-14. Previous report 7-7

▲WATER SUPPLY ADJUSTMENTS— Sheridan, Wyo.

Bids received by Director of Construction Service, Veterans Administration, 2707 Munitions Bldg., Washington, D.C., for adjustments to water supply at Veterans Administration Hospital in Sheridan. Bids opened July 10. LOW BIDS: Chicago Bridge & Iron Co., Philadelphia, Pa., $139,670 (Item 1—Elevated storage tank); Pittsburgh-Des Moines Steel Co., Pittsburgh, $155,500 (Item 1); Husman Bros., Box 432, Sheridan, $205,000 (Item 1), $75,500 (Item 2—Alterations, additions to outside water distribution system), $260,000 (Item 3—Combination of Items 1 and 2). LY 7-18. Previous report 6-5

■HIGH SCHOOL, GYMNASIUM— Thermopolis, Wyo.

Planholders announced for construction of high school and gymnasium in Thermopolis. Bids will be opened 8 p.m., July 25, by Hot Springs County High School District Board of Trustees, Thermopolis. Plans with Tresler & McCall, architects, Box 900, Cody.

Planholders: Goodrich Construction Co., Wheatland; Husman Bros., Box 432, Sheridan; Pond & Pond, Powell; Spiegelberg Lumber & Building Co., 259 W. Fremont, Laramie; Eagle Construction Corp., Box 181, Loveland; J. C. Boespflug Construction Co., Box 1237, Billings, Mont.; A. N. Nelson, 315 N. 7th Ave., Riverton; N. A. Nelson, Box 644, Sheridan; Max W. Dudley, Box 668, Riverton; Louis B. Welch, Box 176, Cowley; Olson Construction Co., Box 89, Salt Lake City, Utah; C. E. Elle Construction Co., Pocatello, Idaho, and Ellis Construction Co., Cody (joint venture); Fowler-Veranth Construction Co., Inc., 303 S. 1st Ave. E., Duluth, Minn.; Riedesel-Lowe Construction Co., Box 915, Cheyenne; Charles M. Smith, Thermopolis. LY 7-18. Previous report 6-22

UTAH

★ELEMENTARY SCHOOL— Greenfield Village, Utah

Awards announced by Jordan School District, Arthur E. Peterson, superintendent, 9361 S. State St., Sandy, for construction of new twelve-classroom elementary school near 16th East on 70th South in Greenfield Village. Plans by Ashton, Evans & Brazier, architects, 24 S.W. Temple, Salt Lake City. AWARDS—GENERAL: Fredrickson Builders, 4670 Redwood Road, Salt Lake City, $419,286. MECHANICAL: Standard Plumbing & Heating Co., Murray, $85,229.
GH 7-13. Previous report 7-10

▲SAFEWAY STORE— Magna, Utah

Bids received by Safeway Stores, Inc., Construction Division, 2063 McClelland Ave., Salt Lake City, for construction of a Safeway store in Magna. Plans by William James Monroe, architect, 200 American Bldg., Salt Lake City. Bids opened July 11. No figures released for low bidders. LOW BIDS: Construction, Inc., Bountiful; Rocky Mountain Contractors, 522 N. 5th West, Salt Lake City; Maurice B. McCullough, 503 13th Ave., Salt Lake City.
GH 7-18. Previous report 7-5

URANIUM MILL— Mexican Hat, Utah

Preliminary plans underway by Stearns-Roger Co., Denver, Colo., for a uranium mill at Mexican Hot for Texas-Zinc Corp, jointly owned by the Texas Co. and New Jersey Zinc Co.
LY 7-14

OFFICE BUILDING— Ogden, Utah

Plans will be complete September 15 for construction of an office building at Adams and 26th St. in Ogden, for Norman W. Cragun, 2845 Porter Ave., Salt Lake City. Plans by Slack W. Winburn, architect, Beason Bldg., Salt Lake City.

Two-story; 50'x7', 3,500 sq. ft. area; concrete footings and foundation; precast concrete girders, beams, columns. GH 7-14

HEALTH CENTER— Ogden, Utah
(Estimated cost $250,000)

Preliminary plans underway by J. L. and E. F. Piers, architects, 2726 Harrison Ave., Ogden, for construction of new city-county health center west of fire department's main building on 26th St., facing Grant Ave. in Ogden, for Weber County Commissioners, Municipal Bldg., Ogden.

Plans to include one large waiting room and two wings; 10,000 sq. ft. (construction cost, $20 to $25 per sq. ft.); extensive plumbing and electrical work.
SC 7-12. Previous report 2-17

●CHURCH, RECTORY— Ogden, Utah

Bids will be opened 2 p.m., July 30, by the architect, for construction of new Santa Maria Catholic Church and rectory in Ogden, for Santa Maria Mission, Ogden. Plans by R. Bruce Folsom, architect, 1593 S. 12th East, Salt Lake City. $25 deposit.

One-story; basement; 5,900 sq. ft. area (2,300 sq. ft. rectory, 3,600 sq. ft. for church); concrete footings and foundation; solid masonry block walls; concrete slab floors; precast concrete girders, beams, columns; glued laminated truss roofing; aluminum windows; brick and block exterior, exposed block interior finished walls; exposed masonry partitions; vinyl tile floor finish; exposed wood ceilings; wood doors and cabinets; fiberglass insulation in roof; hot water heat and gas fuel.
GH 7-17. Previous report 4-12

★ARMORY— Provo, Utah

Award to Jacobsen Construction Co., 421 W. 13th South, Salt Lake City, $131,995, by Corps of Engineers, San Francisco District, 180 New Montgomery St., San Francisco, Calif., for construction of Army Reserve armory in Provo. Plans by William James Monroe, architect, 1200 American Bldg., Salt Lake City. GH 7-13. Previous report 7-6

★HOSPITAL ADDITION— Price, Utah

Award to Dorland Construction Co., 1309 Jefferson St., Salt Lake City, $1,066,200, by

PACIFIC CONSTRUCTION DAILY

Helps You Find New Business

$75 per Year

2418 Third Avenue Seattle 1 MAin 0285

COMFORT with ECONOMY in PORTLAND OREGON

Portland's fine home-like hotel in the center of the city—Unsurpassed service and fine cuisine makes your visit one of happiness and comfort.

Campbell Court Hotel
ELEVENTH AND MAIN STREETS

Our rates are especially reasonable. All rooms with private bath. Singles from $3.50. Doubles from $4.50



Utah State Building Board, J. G. King, superintendent of construction, 419 State Capitol Bldg., Salt Lake City, for construction of a 50-bed addition to Price city and county hospital. Plans by Fetzer & Fetzer, architects, 415 Zions Savings Bank Bldg., Salt Lake City. GH 7-13. Previous report 7-6

★SKYLIGHT, ROOF REPAIR, VENTILATION, PAINTING— **Salt Lake City, Utah**

Award to R. K. McCullough Construction Co., 676 "G" St., Salt Lake City, $96,950, by General Services Administration, Otto G. Klein, director, Denver Federal Center, Denver, Colo., for roof and skylight work, including new exhaust fans; new ventilation system in basement; additional lighting and electrical work in basement and on first floor; interior painting, counter covering, partition work, at U. S. Post Office and Courthouse in Salt Lake City; Proj. No. 412 (WIR8-3). LY 7-18. Previous report 6-21

ALASKA

■TACAN, NAVAID BUILDINGS— **Anchorage, Alaska**

Planholders announced for the construction of Tacan, Navaid buildings at McGrath, Gulkana Air Force Station, King Salmon Airport and Ladd AFB., in Alaska; ENG-95-507-57-3. Bids to be opened 11 a.m., July 27, by Corps of Engineers, Alaska District, D-E Bldg., Anchorage. Plans with district engineer, above address, or with Seattle Branch office, 4735 E. Marginal Way, Seattle. Bid bond 20%.

Planholders: Schmid Construction Co., 3010 1st Ave.; Chicago Bridge and Iron Co., White-Henry-Stuart Bldg.; B-E-C-K Constructors, Inc., 3637 Stone Way; Morrison-Knudsen Co., Inc., 603 Hoge Bldg., all of Seattle. GW 7-18. Previous report 7-11

■GRADE SCHOOL— **Douglas, Alaska**

Planholders announced for construction of a grade school in Douglas; Proj. No. Aaa 5C-A-196. Bids will be opened 10 a.m., July 25, by Alaska Public Works, John D. Argetsinger, acting director, in the mail-room, 123 W. 3rd St., Juneau.

Planholders: Northern Enterprise, 12556 Bothell Way, Seattle, Wash.; Denali Construction Co., Box 1111, Juneau; S. C. Thorpe Co., Box 97, Haines; King's Construction Co., Box 1357, Ketchikan; Kawneer Co., 422 1st Ave. W., Seattle; Schmid Construction Co., Box 4038, Magnolia Station, Seattle; Hamilton Construction Co., Box 1016, Ketchikan; R. J. Sommers, 3201 Fremont, Seattle; Haladay & Edworthy, 6240 S. Tacoma Way, Tacoma, Wash.; B-E-C-K Constructors, 3647 Stone Way, Seattle; W. L. Reid, 3178 S.W. 87th Ave., Portland, Ore.; James S. Baker, 311 Clay St., San Francisco, Calif.; William D. Burk, Box 1618, Anchorage; Berg Construction Co., Box 276, Juneau; McGillvray Bros., Box 2128, Ketchikan; Teller Construction Co., 845 N. Graham, Portland; C & R Builders, 1126 Fairview N., Seattle; Fryer-Knowles, Inc., 2970 Blakely, Seattle; Cole & Paddock, Box 616, Juneau; Wright & Hill, 140 Marine Way, Juneau. JU 7-14. Previous report 6-13

●REPAIR FAMILY HOUSING— **Eielson AFB, Alaska**

Bids will be opened 11 a.m., July 31, by Corps of Engineers, Alaska District, D-E Bldg., Anchorage, for repair of family housing at Eielson AFB, Alaska; ENG-95-507-57-6. Plans with district engineer, at above address. Bid bond 20%. Work involves restoration of portions of six buildings, including excavation, backfill, concrete, glass block, roofing, painting, mechanical and electrical. Completion date November 1. GW 7-17

PULP MILL EXPANSION— **Ketchikan, Alaska**

(Estimated $4,000,000)

Construction underway by Howard S. Wright & Co., Inc., 414 Pontius, Seattle, for expansion of Ketchikan Pulp Co. plant at Ward Cove north of Ketchikan. Program involves addition of another digester and an increase in capacity of liquor recovery department. Completion time summer of 1957. Owners are Puget Sound Pulp and Timber Co., Laurel St., Bellingham, and the American Vicose Corp. DC 7-14

▲ARMORY— **Seward, Alaska**

Bids received by Alaska National Guard, 3rd Ave. and Orca St., Anchorage, for construction of a National Guard armory in Seward. Bids opened July 9. LOW BIDS: Clements Construction Co., 4th Ave. and Denali St., Anchorage, $165,000; C & R Builders, Inc., 1126 Fairview Ave. N., Seattle, Wash., $172,500; J. B. Warrack Construction Co., 316 E. 1st St., Anchorage, $187,000. HL 7-17. Previous report 6-27

ENGINEERING NEWS

Washington, Oregon, Idaho, Montana, Wyoming, Utah, Alaska

- ● Bids Called
- ★ Contract Awards
- ▲ Low Bids—Bid Received
- ■ Planholders—Prospective Bidders

OREGON

▲TRUNK SEWER— **Albany, Ore.**

Bids opened July 11 by city recorder, William D. Bollman, City Hall, Albany, Ore., for construction of South Industrial Area trunk sewer. Plans by Stevens & Thompson, consulting engineers, 2234 S.W. 5th Ave., P. O. Box 508, Portland. LOW BIDS: Jeske Bros., Eugene, $119,702; Salem Sand & Gravel Co., 1401 N. Front, Salem, $125,160; Frank Kanehl, 6407 S.E. 43rd Ave., Portland, $128,280. WB 7-14. Previous report 6-21

●REVETMENT CONSTRUCTION— **Albany, Ore.**

Bids will be opened 2 p.m., July 26, by Corps of Engineers, Portland District, 628 Pittock Block, Portland, for construction of derrick stone revetment, grouted gravel apron and drift barrier along right bank of South Santiam River at Tripp location, northeast of Albany, and construction of derrick stone revetments along left bank of the river at Sanderson Bridge and Cook locations, east and southeast, respectively, of Albany, Linn County, Ore.; CIVENG-35-026-56-11. Specifications with above office. Bid bond 20%. Completion time 75 calendar days.

Quantities—PART A—TRIPP: 7,160 c.y. excavation; 5,270 derrick stone revetment; 240 c.y. salvage rock; 550 c.y. gravel blanket; 210 c.y. sand-cement grout; 1,120' treated wales; 70 pile shoes; 2,940 lb. hardware. PART B—SANDERSON BRIDGE: 4,070 c.y. excavation; 7,450 c.y. derrick stone revetment. PART C—COOK: 7,2000 c.y. excavtion; 11,220 c.y. derrick stone revetment. Contract for all three locations includes clearing. SP 7-17

●CLEARING— **Blue River, Ore.**

Bids will be opened 2 p.m., August 7, by Corps of Engineers, Portland District, 628 Pittock Block, Portland, for clearing six areas amounting to approximately 194 acres at Cougar Dam Reservoir, South Fork McKenzie River, five to ten miles south of Blue River, Lane County, Ore.; CIVENG-35-026-57-9. Specifications with above office. Bid bond 20%. Completion time 180 calendar days. SP 7-17

●BRIDGE— **Bly, Ore.**

Bids to be opened 2 p.m., July 24, by U. S. Forest Service, regional supply officer, 729 N.E. Oregon St., Portland, for construction of Barnes Valley Creek Bridge, approximately 20 mi. south of Bly, on Forest Service Road No. 375, Fremont National Forest; Bid No. 6 (Readvertisement). Plans with supply officer or Supervisor, Fremont National Forest, Post Office Bldg., Lakeview, Ore. Treated timber bridge, 29' long, on piling and with concrete deck. Government to furnish timber, piling and steel at site. WB 7-13. Previous report 7-3

▲FLOOD CONTROL— **Brownsville, Ore.**

Bids received July 13, by Corps of Engineers, Portland District, 628 Pittock Block, Portland, for repair and construction of bank protection works at Location No. 1, Brownsville, Calapooya River, Linn County, Ore.; CIVENG-35-026-56-270. LOW BIDS: G. D. Dennis & Sons, 7355 S.E. Jackson Creek Blvd., Portland, $40,697; C. J. Eldon, P. O. Box 5686, Portland, $41,115; Buchanan Excavating Co., 455 Ivy St., Junction City, $41,717. Government estimate, $42,682. WB 7-17. Previous report 7-10

▲STREET IMPROVEMENTS—Corvallis, Ore.

Bids received by Benton County Court, Courthouse, Corvallis, for grading and paving 2,100' of 34' street with curb and storm sewers in "Minty Acres" and "Minty Acres No. 2" in Corvallis. Bids opened July 11. LOW BID: Corvallis Sand & Gravel, Box 691, Corvallis, $41,575. ONLY OTHER BID: Warren Northwest, Inc., 9860 Hancock Drive, Portland, $42,913. SP 7-13. Previous report 7-6

★SEWERS— **Corvallis, Ore.**

Awards announced by George Simerville, city recorder, City Hall, Corvallis, for construction of a sanitary sewer lateral No. 36 and lateral sewer No. 140-B in Corvallis. AWARDS—LATERAL 36: Corvallis Sand & Gravel Co., Gallagher Road, Corvallis, $4,079. LATERAL 140-B: Coast Construction Co., Box 3098, Eugene, $4,968. SP 7-18. Previous report 7-7

★BRIDGE— **Cottage Grove, Ore.**

Award to Hannan Bros., 3525 N.E. Going St., Portland, $24,633, by U. S. Forest Service, regional supply officer, 729 N.E. Oregon St., Portland, for construction of Staples Bridge, approximately 21 mi. southeast of Cottage Grove, Umpqua National Forest. Approach roads were deleted from contract. WB 7-17. Previous report 7-6

■CRANE— **Dalles Dam, Ore.**

Planholders announced for designing, manufacturing, shop assembling and testing, and delivering fob. Dalles Dam Powerhouse and erecting, field testing and painting one 35-ton tailrace gantry crane; CIVENG-35-026-57-1. Bids to be opened 2 p.m., September 4, by Corps of Engineers, Portland District, 628 Pittock Block, Portland, Ore.

Planholders: Cutler Hammer, Inc., 208 S.W. Stark St.; Carl B. Kraus Elevator Co., Suite 1025, No. 10 N. Clark St., Chicago; Bearing Sales & Service, 1645 N.W. Hoyt St.; R. H. Blower, 5510 N.E. Stanton; Walter W. Johnson Co., 141 Battery St., San Francisco; Moore Dry Dock Co., Ft of Adeline St., Oakland; Stearns-Roger, 660 Bannock, Denver; Westinghouse Electric Corp., 309 S.W. 6th; Judson Pacific Murphy Corp., 4300 Eastshore Highway, Emeryville, Calif.; Derrick & Hoist Co., Inc., 24-16 Bridge Plaza South, Long Island City, N.Y.; Aurora Pump Div., Aurora, Ill.; Milwaukee Crane & Service, Cudahy, Wisc.; L. P. Sowles, 8725 S.W. White Pine Lane; Allied Engineering Associates, 2604 N.E. 28th Ave.; Puget Sound Fabricators, Inc., 3670

E. Marginal Way, Seattle; Pacific Coast Engineering Co., Oak St. and Clement Ave., Alameda, Calif.; Milwaukee Crane & Service Co., c/o McMahon Bros., Inc., 337 Pittock Block; Orton Crane & Shovel Co., 608 S. Dearborn, Chicago; Weldcraft Steel & Marine Co., Inc., No. 9 Squalicum Fill, Bellingham; Colby Steel & Mfg., Inc., 65 Horton St., Seattle; Universal Craneholst & Monarail Co., 634 Sixth St., San Francisco; Moffett Engineering Co., P. O. Box 54, Albany, Calif; British Consulate, Lewis Bldg.; Guntert & Zimmerman Construction Div., Inc., P. O. Box 1688, Stockton, Calif.; Steel Construction Co. of Oregon, 4200 N.W. Front; Star Iron and Steel Co., 435 E. 11th, Tacoma; Harnischfeger Corp., 2909 1st Ave. S., Seattle; Cyclops Iron Works, 837 Folsom St., San Francisco; Feedrail Corp., 125 Barclay St., New York, N.Y.; W. G. Ballantyne Co., 1215 N.W. Everett St.; Allied Engineering Associates, 2604 N.E. 28th Ave.; General Electric Co., Public Service Bldg. Of Portland except as noted.

WB 7-13. Previous report 7-3

▲STONE REVETMENT— Eugene, Ore.

Bids opened July 12 by Corps of Engineers, Portland District, 628 Pittock Block, Portland, for construction of stone revetment, stone or grouted gravel apron, and a drift barrier along the right bank of the McKenzie River at the Blankton Location, approximately five mi. north of Eugene, Ore.; CIVENG-35-026-56-267. SCHEDULE A—LOW BIDS: R. A. Heintz, 211 N.E. Columbia Blvd., Portland, $207,090; S. W. Groesbeck, 2387 Alder St., Eugene, $207,628; Elte Construction Co., Boring, $240,195. Estimate, $170,251. SCHEDULE B—LOW BIDS: R. A. Heintz, $217,025; S. W. Groesbeck, $217,195; G. D. Dennis & Sons, 7355 S.E. Johnson Creek Blvd., Portland, $240,270. Estimate, $169,561. Bids will probably be rejected. WB 7-14. Previous report 7-6

★RESERVOIR CLEAN-UP— Eugene, Ore.

Award to Glenn Perkey, Diston Route, Cottage Grove, $9,900, by Corps of Engineers, Portland District, 628 Pittock Block, Portland, for cleanup at Dorena Reservoir, Willamette River Basin, Row River, Ore.; CIVENG-35-026-56-265. Bids opened June 29.

WB 7-17

★WATERWORKS MATERIALS— Hillsboro, Ore.

Award to U. S. Pipe & Foundry Co., Colman Bldg., Seattle, $128,046, by City Utilities Commission, J. W. Barney, engineer, City Hall, Hillsboro, for 53,150' of cast iron pipe, 6", 8" and 10". Bids opened June 19.

WB 7-17. Previous report 6-15

★SURFACING— Hillsboro, Ore.

Award to K. F. Jacobson, 1211 N. Loring, Portland, $9,325, by City of Hillsboro, for approximately 1,250 tons of asphaltic concrete surfacing. Bids opened July 3.

WB 7-17. Previous report 6-22

●REVETMENT CONSTRUCTION— Jefferson, Ore.

Bids will be opened 2 p.m., July 23, by Corps of Engineers, Portland District, 628 Pittock Block, Portland, for construction of derrick-stone revetment along right bank of Santiam River at Wickham and Miller Locations, respectively, situated approximately ¾ and 1½ miles west of Jefferson, Marion County, Ore.; CIVENG-35-026-57-8. Specifications with above office. Bid bond 20%. Completion time 75 calendar days. Quantities—PART A—WICKHAM: 7,965 c.y. excavation; 8,900 c.y. derrick-stone revetment. PART B—MILLAR: 13,470 c.y. excavation; 11,150 c.y. derrick-stone revetment. Contract includes clearing at both locations.

SP 7-17

▲GRADING, SURFACING— Klamath Agency, Ore.

Bids opened July 11 by Bureau of Indian Affairs, Portland Area Office, Branch of Roads, 1001 N.E. Lloyd Blvd., Portland, for grading, draining, cinder base and crushed rock surfacing on 15.06 mi. on Lamm Road, Klamath Falls, Klamath Indian Reservation, 25 mi. northeast of Klamath Agency, Ore.; Project KIR P-7(1). LOW BIDS: Norquist Bros., 1327 "L" St., Sweet Home, $257,903; A. H. Saxton & Son, Glide, $281,918; Somers & Stacy, P. O. Box 938, Klamath Falls, $297,633. WB 7-14. Previous report 7-7

●TEST WELL— Klamath Falls, Ore.

Bids will be opened 9 p.m., July 24, by Purchasing Office, Bldg. 412, Hamilton AFB, Calif., for drilling of test water well at family housing site, Klamath Falls Municipal Airport, Klamath Falls; Proj. KLF 46-56 (Rev). Specifications with Installation Engineer Officer, Klamath Falls Municipal Airport, Klamath Falls. Bidders may visit job site by contacting above office. Bid bond 20%. Completion time 90 calendar days.

ZZ 7-18

FLOOD CONTROL, EQUIPMENT— Lebanon, Ore.

Bond issue for $141,000 approved by Lebanon voters to provide additional funds to make mandatory additions and advisable flood control precautions at the sewage disposal plant in Lebanon. Bond issue also passed for $9,000 for purchase of city street maintenance equipment. SC 7-12

★REPAIR BANK PROTECTION— Oregon City, Ore.

Award to Elte Construction Co., Boring, $20,800, by Corps of Engineers, Portland District, 628 Pittock Block, Portland, for repair and construction of bank protection works at Location No. 14 and Paradise Park Location on Clackamas County, Ore.; CIVENG-35-026-56-271.

WB 7-18. Previous report 7-13

SEWER CONSTRUCTION— Portland, Ore.

Bids rejected by Oregon State Board of Higher Education, Earl M. Pallett, secretary, room 110, Portland State College, 1620 S.W. Park Ave., Portland, for construction of offsite sewer to serve three buildings at Portland State College.

WB 7-12

●ACCESS ROAD— Portland, Ore.

Bids to be opened 11 a.m., July 16 (readvertisement), by Port of Portland, 5848 N. Lagoon Ave., Swan Island, Portland, for access road from N.E. 82nd Ave. to new airport terminal area. Road approximately 3,500'; includes 13,000 sq. yd. grading; 2,740 c.y. crushed aggregate base course. Plans with port office. $20 deposit. Certified check, cashier's check or bid bond 5%.

WB 7-13. Previous report 6-16

★CONDUCTOR— Portland, Ore.

Awards by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for conductor and accessories; Inv. No. 8029. AWARDS: Anaconda Wire & Cable, Hastings-on-Hudson, N.Y., $344,539 (Group A); Kaiser Aluminum & Chemical Sales, Inc., Chicago, $142,910 (Groups B & C, except Items 16 and 24).

WB 7-13. Previous report 6-21

▲RELOCATE SEWER— Portland, Ore.

Bids opened July 11 by city purchasing agent, room 208, City Hall, Portland, for S.W. 2nd Ave. and Stark St. sewer system relocation. BIDDERS: P. S. Lord Mechanical Contractors, 4507 S.E. Milwaukie Ave., Portland, $53,996; George W. Lind, 5000 N.E. Killingsworth St., Portland, $67,143.

WB 7-13. Previous report 7-3

★STEEL TOWER— Portland, Ore.

Award to Portland Erection, Inc., 8330 S.W. Schiller Road, Portland, $27,200, by Pacific Telephone & Telegraph Co., 301 Lincoln Bldg., Portland, for second structural steel tower on top of company's Oak St. Bldg., 819 S.W. Oak St., Portland. WB 7-18

▲SEWAGE TREATMENT PLANT— Portland, Ore.

Bids received by Raleigh Sanitary Co., 7501 Beaverton-Hillsdale Highway, Portland, for sewage treatment plant on S.W. Oleson Road. Plans by Carl Green & Associates, consulting engineers, 510 Henry Bldg., Portland. BIDDERS: Packard Pipe & Pump Co., 554 14th Ave., Longview, $53,572; L. B. Read and Mac Sharp, 2607 S.W. Sunset Blvd., Portland, $57,580; P. S. Lord Mechanical Contractor, 4507 S.E. Milwaukie Ave., Portland, $60,276. Bids opened July 16.

WB 7-18. Previous report 7-13

★SURFACING— Portland, Ore.

Award by Bureau of Public Roads, Box 3900, Portland, for 4.472 mi. surfacing, Oregon FHP 47-C3, E1, North Umpqua National Forest, Douglas County, Ore. AWARD: J. C. Compton, P. O. Box 86, McMinnville, $71,479. OTHER BIDS: John R. Saxton, Roseburg, $86,540; P. W. Hamer & Associates, Glide, $94,797. Bids opened July 11.

WB 7-14. Previous report 7-6

★SNOW TRACTOR, TRAILER— Portland, Ore.

Award to Tucker Sno Cat Corp., P. O. Box 888, Medford, $15,749, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for delivering two snow tractors and two trailers fob. Eavan Spur, Vancouver, Wash.; Inv. No. 8024.

WB 7-17. Previous report 6-16

★ACCESS ROADS— Portland, Ore.

Award to Mike B. Porter, 885 Fairview, Salem, $25,646, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for clearing the right-of-way and construction of access roads for Oregon City-Chemawa 230 kv. line No. 3, Clackamas and Marion Counties, Ore.; Inv. No. 8021.

WB 7-17. Previous report 6-9

★TRUCKS— Portland, Ore.

Awards by Corps of Engineers, District Engineer, 628 Pittock Block, Portland, for trucks, fob. 8010 N.W. St. Helens Road, Portland; Inv. CIVENG - 35 - 026 - 56 - 242. AWARDS: General Motors Corp., Chevrolet Div., Detroit, $2,204; General Motors Corp., $8,240; Ford Division, Washington, D.C., $1,751. Bids opened June 18.

WB 7-17. Previous report 6-9

★POWER MOWERS— Portland, Ore.

Awards by Portland School District No. 1, 620 N.E. Halsey St., Portland, for power lawn mowers. AWARDS: Western Golf Course Supply Co., 1006 S.E. Hawthorne Blvd., $1,228; F. B. Connelly Co. of Oregon, 905 N.W. 12th Ave., $1,006; Russellville Nursery, $716. Of Portland. Bids opened June 13. WB 7-17. Previous report 6-2

★STATE HIGHWAY PROJECTS— Portland, Ore.

Awards announced by Oregon State Highway Commission, Portland, for highway construction on which bids opened July 12.

GREASY CREEK BRIDGE — Reinforced concrete deck girder 120' bridge over Greasy Creek on Benton County Route No. 46 about two mi. southwest of Philomath, Benton County; a County Project.

Referred to Benton County. Low bidder was Babler Bros., Inc., 4617 S.E. Milwaukie, Portland, $24,612.

SUNSET JUNCTION SLIDE SECTION—Grading, oiling 0.21 mi. Fishhawk Falls Highway about 2.3 mi. east of Elsie and eight mi. south of Jewell, Clatsop County; FAP No. ER-6(1).

AWARD: J. N. Conley, 4332 N.E. Royal Court, Portland, $27,174.

DIVISION No. 4 — Approximately 12,000 c.y. crusher-run cinders in stockpile for sanding material project on three state highways in vicinity of Prineville, Bend, Sisters, Lapine in Crook and Deschutes counties; a State Project.

AWARD: Babler Bros., Inc., Portland, $29,400.

BEND SAND SHED—Construction 60'x64' frame shed on state highway commission property at Bend, Deschutes County; a State Project.

AWARD: R. H. Jones, Route 1, Box 258, Hillsboro, $9,278.

ELKHEAD ROAD UNIT—Slide correction on Divide-Rice Hill section of Pacific Highway about 18 mi. south of Cottage Grove, Douglas County; a State Project.

AWARD: Henry H. Miller, CV Route, Box 166, Roseburg, $11,837.

WEST UNIT—Slide correction on Reedsport-Dean Creek section of Umpqua Highway, Douglas County; FAP No. ER-14(1). Involves 380' metal guardrail; 3,730 c.y. crushed base material.

AWARD: Henry H. Miller, Roseburg, $39,773.

SHADY-BOOTH RANCH UNIT—About 19,000' of metal guardrail, 250 metal sight posts on Shady-Canyonville section of Pacific Highway about five mi. south of Roseburg, Douglas County; FAP No. BFI-78(28).

Referred to engineer. Low bidder was Glen Hoagland, Beaverton, $46,935.

JOSEPHINE COUNTY LINE-ROGUE RIVER SECTION—Grading 1.75 mi., asphaltic paving 2.11 mi. of Pacific Highway about seven mi. southeast of Grants Pass, Jackson County; FAP No. ER-18(1).

Referred to engineer. Low bidder was Fred H. Slate Co., Oregon Ltd. and E. C. Hall Co., 12012 S.W. Barbur Blvd., Portland, $258,593.

KLAMATH SAND SHED — Construction 6'x64' frame shed on state highway commission property at Klamath Falls, Klamath County; a State Project.

AWARD, A. E. Fitzgerald, 329 Roger-Klamath Falls, $8,590.

GLENDA HILL SECTION—Grading and asphaltic concrete pavement widening on 0.88 mi. Oregon Coast Highway near Florence, Lane County; a State Project.

Referred to engineer. Low bidder was Umpqua Bldg. Navigation Co., Reedsport, $63,043.

SWEET HOME MAINTENANCE BUILDING—Construct 32'x82' masonry block building on state highway commission property at Sweet Home, Linn County; a State Project.

AWARD: Lloyd G. Sperling, Tillamook, $14,730.

McLAREN SCHOOL PROJECT—Grading 0.39 mi. and asphaltic concrete paving 0.33 mi. north of Woodburn, Marion County; a State Project.

All bids referred to State Board of Control.

ONLY BIDS: Central Paving Co., foot of C St., Independence, $16,315; Warren Northwest, Inc., Box 5072, Portland, $17,494.

MISSION ROAD JUNCTION SAND SHED —Construct 69'x96' frame shed on state highway property near Pendleton, Umatilla County; a State Project.

AWARD: Bechtel Bros., La Grande, $12,585.

OSWEGO SECTION—Country Club Road and A Ave., Oswego, Clackamas County, 0.62 mi. grading, asphaltic concrete paving; FAP No. S-325(1).

AWARD: Perkins Bros., 10324 N.E. Halsey, Portland, $106,366.

ASTORIA-MEGLER FERRY—Remove, replace movable ramp at Megler Ferry terminus, Clatsop County; a State Project.

AWARD: General Construction Co., Portland, $14,875.

GARDEN VALLEY ROAD INTERCHANGE —Dead-Sandy Section of Pacific Highway near Roseburg, Douglas County; a State Project; involving automatic irrigating system, roadside improvements.

AWARD: Ernest Ferrante, 3908 S.E. Bybee, Portland, $22,236.

RUTHTON HILL SECTION—Slide correction on Columbia River Highway about two mi. west of Hood River, Hood River County; a State Project.

AWARD: Kelly Construction Co., The Dalles, $13,658.

SECTION MOUNTAIN, N. SLOPE SLIDE SECTION—Grading, asphaltic concrete paving 0.38 mi. Pacific Highway about 13 mi. north of Grants Pass, Josephine County; a State Project.

AWARD: C. R. Oneal, 1944 Fruitdale, Grants Pass, $170,311.

PORTLAND-SALEM EXPRESSWAY — Grading, asphaltic concrete paving on Hopmere Road Interchange and Battle Creek Jct. North connection about eight mi. north and seven mi. south of Salem, Marion County; FAP No. BFI-324(24) and State Project.

AWARD: Central Paving Co., Independence, $71,630.

CHEMAWA OVERCROSSING — Preparation of slope and construction of pneumatically applied 3" slope pavement at overcrossing of Southern Pacific Railroad on Portland-Salem Expressway, Marion County a State Project.

AWARD: Gun-Crete Cement Co., 6533 S.E. 30th, Portland, $8,871.

CHAMPOEG CREEK BRIDGE—Reinforced concrete 200' bridge with eight precast beam spans on treated timber pile bents on Newberg-Yergens Corner Road, about three mi. west of Newberg, Marion County; FAP S-313(1).

Referred to engineer. Low bidder was United Builders, Inc., Box 211, Beaverton, $35,684.

DOLPH CORNER-RICKREALL SECTION —Asphaltic concrete paving 4.43 mi. Willamina-Salem Highway about 10 mi. west of Salem, Polk County; FAP No. F-325(2).

Two low bids held for consideration.

LOW BIDS: Central Paving Co., Independence, $307,503; Parker - Schram Co., Builders Exchange Bldg., Portland, $319,915;

PENDLETON-JOHN DAY HIGHWAY — Grading, asphaltic concrete paving 3.62 mi. of south unit of Pendleton-Pilot Rick Section about 12 mi. south of Pendleton, Umatilla County; FAP No. F-155(6).

Referred to engineer. Low bidder was Roy L. Houck, 1585 N. 20th, Salem, $221,422.

SP 7-14. Previous report 7-13

★STATE HIGHWAY PROJECTS—

Portland, Ore.

Eleven awards, six rejections and three projects referred for awards by Oregon State Highway Commission, Portland, for highway construction on which bids opened July 13.

CATCHING SLOUGH-CHANDLER BRIDGE SECTION—Grading, asphaltic concrete paving on 1.31 mi. Coos River Highway about 2.5 mi. east of Coos Bay, Coos County; FAP No. S-5(6).

AWARD: Coos Bay Dredging Co., Coos Bay, $234,788.

DESCHUTES COUNTY ROADS OILING— About 7,270 c.y. crushed aggregates; 290 ton RC-3 asphalt; 530 ton 150-200 asphalt on 15.81 mi. of five Deschutes County roads; FAP No.'s S-319(1), S-320(1) S-321(1), S-322(1), S-323(1).

Referred to engineer.

LOW BIDS: Central Heating Co., 839 Olive, Eugene, $74,889; Babler Bros., Inc., 4617 S.E. Milwaukie, Portland, $75,982; Harr & Horton, 9209 N. Calvert, Portland, $78,718.

SOUTH UNIT, KELLOGG BRIDGE-YELLOW CREEK SECTION—Grading, asphaltic concrete paving 1.90 mi. Elkton-Sutherlin Highway about 12 mi. northwest of Sutherlin, Douglas County; FAP No. S-216(5).

AWARD: Funderburk Construction Co., Box 633, Sutherlin, $276,215.

MILO-CORN CREEK SECTION—Embankment repair involving about 3,400 c.y. loose rock riprap on 0.2 mi. Tiller-Trail Highway about 18 mi. east of Canyonville, Douglas County; FAP No. ER-8(1).

Bids rejected as too high.

LOW BIDS: Angell Bros., Eastside, $12,026; Funderburk Construction Co., Sutherlin, $12,580; F. L. Sommers, Medford, $13,260.

TORRENT CREEK EMBANKMENT REPAIR—About 16,000 c.y. excavation on Pacific Highway about six mi. south of Ashland, Jackson; a State Project.

AWARD: Phoenix Sand and Gravel Co., Medford, $10,420.

DESCHUTES RIVER - QUINTON ROCK PRODUCTION—About 10,000 c.y. crushed material in stockpile on Columbia River and Sherman Highways about 25 mi. east of The Dalles, Sherman and Gilliam counties; a State Project.

AWARD: Vernie Jarl, 438 S. Roberts, Gresham, $31,900.

BARBUR BLVD.-WILLAMETTE RIVER SECTION—Roadside improvement on Portland-Salem Expressway, Clackamas, Multnomah, Washington counties; FAP No. FBI-303(13).

AWARD: Kaiser Sand and Gravel Co., Salem, $23,941.

Let Pacific Construction Daily point the way to new profits for your firm.

FORT STEVENS STATE PARK—One latrine including septic tank and disposal field and one 20'x60' work shed, Clatsop County, about 12 mi. northwest of Astoria; a State Project.

Bids rejected as too high.

LOW BIDS: Malin & Co., Astoria, $9,451; George F. Anderson, Astoria, $9,860; Duos & Son, Box 222, Astoria, $11,334.

NORTH BEND—Grading, asphaltic concrete paving 1.09 mi. Monroe Ave.-17th St. section of Cape Arago Highway, Coos County; FAP No. US-207(4).

AWARD: Sig Anderson, North Bend, $222,903.

UMPQUA RIVER—Steel and timber pier fender on upstream side of Pier 5 on bridge at Reedsport, Douglas County; FAP ER-15(1).

Bid rejected as too high.

ONLY BID: Tom Lillebo, Reedsport, $13,950.

UMPQUA LIGHTHOUSE STATE PARK— One latrine including septic tank and disposal field and a complete sanitary water system, five mi. south of Reedsport, Douglas County; a State Project.

Bids rejected as too high.

ONLY BIDS: Tom Lillebo, Reedsport, $5,890; Donald W. Thompson, North Bend, $5,987; Sig Anderson, North Bend, $7,127.

WILLOW-KANE - SNIDER - DRY CREEK BRIDGES—Four reinforced concrete deck girder bridges on various Jackson County roads. Lengths are 60', 70', 50' and 50' respectively. Bids are being received on behalf of the county.

Referred to Jackson County.

LOW BIDS: R & M Construction Co., 136 Main, Central Point, $55,532; Ausland Construction Co., 1116 Airport Drive, Grants Pass, $55,870; Orlando C. Bennard, 222 N.E. Holland, Portland, $66,233.

PACIFIC HIGHWAY—Pavement sealing 14.1 mi. and oiling 0.17 mi., Goshen-Cottage Grove section, Lane County; a State Project.

AWARD: Morse Bros., Harrisburg, $20,008.

12th ST. BRIDGE WIDENING—Bridge with 13' prestressed concrete deck and 5' sidewalks over Shelton Ditch in Salem, Marion County; a State Project.

Bid rejected as too high.

ONLY BID: Concrete Structures, Inc., 8906 S.E. Harrison, Portland, $31,650.

TRAFFIC SIGNALS—Install traffic signals on Silver Creek Falls Highway, Marion County, in Salem at intersections of Center and 12th streets, Marion and 12 streets, State and 12th streets, Capitol and Union streets; a State Project.

AWARD: Trowbridge Electric Co., 136 N. Jackson, Roseburg, $15,200.

MT. HOOD HIGHWAY—Install traffic signals and roadway illumination at Mt. Hood Highway intersection with extension of E. Burnside St. about one mi. east of Gresham, Multnomah County; a State Project.

AWARD: W. R. Grasle Co., 437 N.W. 16th, Portland, $18,266.

BANFIELD EXPRESSWAY UNDERCROSSING—Remove portion of deck, sidewalks, rails on existing viaduct; support the existing floor system on temporary falsework; remove two steel and one concrete bent; replace steel girders between bents 1 and 4; place new reinforced concrete deck, sidewalks, metal rail; grade roadbed section, of undercrossing of N.E. 12th Ave. on the T.H. Banfield Expressway in Portland, Multnomah County; FAP UI-323(19).

AWARD: General Construction Co., 6432 N.E. 30th, Portland, $145,024.

McKAY AND TUTUILLA CREEKS BRIDGE WIDENING—Construct 144' reinforced concrete deck girder bridge over McKay Creek and widen roadway on existing Tutuilla Creek bridge from 33' to 56'; Pendleton-John Day Highway near Pendleton, Umatilla County; FAP F-155(5).

Referred to engineer.

LOW BIDS: Rogers Construction Co., Portland, $59,800; Marshall Construction Co., Hermiston, $65,955; R. H. Jones, Route 1, Box 258, Hillsboro, $70,550.

LADD CANYON SLIDE SECTION—Grading, topping on Old Oregon Trail Highway about nine mi. south of LaGrande, Union County; a State Project.

Bids rejected as too high.

LOW BIDS: Arthur Simonsen, 2925 Grandview, Baker, $45,287; Bechtel Bros., La

Grande, $51,744; Fred H. Slate Co., Oregon Ltd., Portland, $55,783.

WILSON RIVER HIGHWAY—Install roadway illumination at Banks Interchange and at North Plains Interchange, Washington County; a State Project.

AWARD: W. R. Grasle, Portland, $23,347. SP 7-18. Previous report 7-14

★INSTALLING LIGHTING EQUIPMENT— Portland, Ore.

Award to Montgomery Electric Co., 2375 N.W. Thurman St., Portland, $19,972, by city purchasing agent, 208 City Hall, Portland, for installing towers, floodlights, transformers, wiring and control equipment for lighting of Lent Park Baseball Field. WB 7-17. Previous report 7-3

★STREET IMPROVEMENTS— Portland, Ore.

Award to Oregon Asphaltic Paving Co., 0441 S.W. Porter St., Portland, $180,995, by Multnimah County Board of Commissioners, purchasing agent, room 504 Courthouse, Portland, for improvement of N.E. Weidler St. and N.E. Halsey St. WB 7-17. Previous report 6-20

★CARRIER COMMUNICATIONS EQUIPMENT— Portland, Ore.

Award to Motorola Communications and Electronics, Inc., Chicago, $51,444, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for carrier communications equipment. WB 7-17

★TOWER STEEL— Portland, Ore.

Award to Bethlehem Pacific Coast Steel, San Francisco, $402,298, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for tower steel; Inv. No. 7991. WB 7-17. Previous report 6-6

★POWER TRANSFORMERS—Portland, Ore.

Additional award to Pennsylvania Transformer Co., Canonsburg, Pa., $446,375 (Items 1-8 and 17), by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for 3-phase power transformers; Inv. No. 7995. WB 7-17. Previous report 7-6

★GRADING— Portland, Ore.

Award to Coos Bay Dredging Co., Coos Bay, $56,319, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for grading of Fairview Substation, Coos County, Ore.; Inv. No. 8037. WB 7-17. Previous report 6-22

★GRADING— Portland, Ore.

Award to P. W. Hamer & Associates, Glide, $737,755, by Bureau of Public Roads, 753 Morgan Bldg., Portland, for construction of 12.808 mi. grading, Wallowa-Whitman 51-A, North Pine Road, Wallowa-Whitman National Forest, Baker County, Ore.; Forest Development Road Project. WB 7-17. Previous report 6-29

★SUBSTATION ADDITIONS— Portland, Ore.

Award to Olson Electric Co., 710 W. 8th, Vancouver, $7,761, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for 57 kv. additions to Chemawa substation, Marion County, Ore.; Inv. No. 8054. Bids opened June 25. WB 7-17. Previous report 6-16

★SEWER, WATER LINES— Portland, Ore.

Award to George W. Lind, 5000 N.E. Killingsworth St., Portland, $26,345, by Port of Portland, 8545 N. Lagoon Ave., Portland, for sewer and water lines in connection with new terminal building project. WB 7-17. Previous report 7-11

●BASKETBALL COURTS—Portland, Ore.

Bids to be received 2:30 p.m., July 25, at Portland School District No. 1, 620 N.E. Halsey St., and opened at 3:30 p.m., at Holladay School Auditorium, 1343 N.E. 9th Ave., Portland, for outdoor basketball courts at various schools. WB 7-17

▲CLEARING, ACCESS ROADS— Portland, Ore.

Bids received July 13 by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., for clearing 125' wide right-of-way and construction of approximately 18.8 mile access road for Alvey-Reston 230 kv. transmission line, Umpqua River-Reston Section, Douglas County, Ore.; Inv. No. 8082. LOW BIDS: Cresto & Lanphier, Long Beach, Wash., $93,575; Trusty & Paris, Route 3, Box 593, Roseburg, $94,890; Zachary Construction Co., 2815 Grand Ave., Everett, $96,650. WB 7-17. Previous report 7-7

★SEWAGE SYSTEM— Prairie City, Ore.

Award announced by City Council, City Hall, Prairie City, for construction of sewers and sewage treatment plant in Prairie City. Plans by Vernon B. Tenneson & Associates, structural engineers, Box 91, Pendleton. Bids opened July 9. SEWAGE TREATMENT PLANT—AWARD: Everett L. Wiggins, 5622 N. Delaware Ave., Portland, $98,000. 2ND LOW: Van Noy & Son, Ontario, $110,900. 3RD LOW: Marshall Construction Co., 40 W. Ridgeway, Hermiston, $121,246. SEWERS—AWARD: Eastern Oregon Pipe Co., Ontario, $54,060. 2ND LOW: Van Noy & Son, Ontario, $54,788. 3RD LOW: Intermountain Co., 1322 Grove, Boise, Idaho, $65,806. SP 7-17. Previous report 6-16

★STREET, SEWER IMPROVEMENTS— Springfield, Ore.

Award to T. C. Wildish Co., Box 345, Eugene, $85,937, by William E. Mansell, city recorder, City Hall, Springfield, for street paving, concrete curb and gutters and appurtenant storm sewers on Mohawk Blvd. from North "A" St. to the North City Limits in Springfield. SP 7-13. Previous report 7-11

●LATERAL SEWERS— Sutherlin, Ore.

Bids to be opened 4 p.m., July 23, by City Recorder, Ida Lehman, City Hall, Sutherlin, for construction of extensions to lateral sewers. Plans with John W. Cunningham & Associates, consulting engineers, 1112 Portland Trust Bldg., Portland, or at office of city manager, Sutherlin. $10 deposit. Certified check or cash 5%.

Quantities: 1,110 c.y. excavation and backfill; 2,460', 8" concrete taper joint sewer pipe; 36', 8" class 150 mechanical joint cast iron pipe; 3 manholes; 46 wyes, 8" and 6"; 7 lampholes. WB 7-13

▲YOKE ASSEMBLIES— The Dalles, Ore.

Bids opened by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for three-string, dead-end yoke assemblies, fob. The Dalles; Inv. No. 8088. LOW BID: Schmitt Steel, Inc., 2765 N.W. Nicolai St., Portland, $1,620. Eight bids of $1,971 received; some with downward escalation. Bids opened July 10. WB 7-14. Previous report 7-5

★TELEPHONE CABLE— The Dalles Dam, Ore.

Award to Graybar Electric Co., Inc., Park and Flanders Sts., Portland, $5,624, by Corps of Engineers, Portland District, 628 Pittock Block, Portland, for telephone cable, fob. Dalles Dam; CIVENG-35-026-56-211. WB 7-17. Previous report 6-6

●STREET OILING— West Linn, Ore.

Bids to be opened 8 p.m., July 30, by Andy Harila, City Recorder, West Linn, approximately 25,000 sq. yd. of oiling on various streets. Specifications with recorder. Certified check 5%. Bids on basis of per ton asphalt and per c.y. rock in place. WB 7-13

WASHINGTON

▲POWER LINES— Wash.

Bids received by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for construction of Chief Joseph powerhouse-switchyard 230 kv. line No. 4 and the Chief Joseph - Columbia River and Berne-Scenic sections of Chief Joseph-Snohomish 345 kv. line No. 4, Douglas, Chelan and King counties, Wash.; Inv. No. 8084. LOW BIDS: Parker-Schram Co., 201 Builders Exchange Bldg., Portland, $585,168 (Schedules 1, 2 and 3; reduce $3,360 if awarded all three); Lee Hoffman, Beaverton, $654,749; Key Construction Co., 1601 Taylor Way, Tacoma, $841,816. Bids opened July 16. WB 7-18. Previous report 7-14

▲CONCRETE OUTLET TOWER— Aberdeen, Wash.

Bids received by City Council, City Hall, Aberdeen, for reconstruction of existing concrete outlet tower at Lake Aberdeen. Plans by John W. Cunningham & Associates, 1112 Portland Trust Bldg., Portland. ONLY BID: Manson Construction Co., 5209 E. Marginal Way, Seattle, $45,000. Bids opened July 11. WB 7-17. Previous report 7-5

●STEEL STANDPIPE, FOUNDATION— Auburn, Wash.

Bids to be opened 8 p.m., August 3, by King County Water District No. 64, Leah S. March, secretary, 30815, 18th Ave. S., Seattle, for furnishing and installing a 500,000-gallon steel standpipe, on foundation to be installed by others (Sched. A); concrete standpipe foundation, to include miscellaneous piping and electrical work (Sched B). Plans with Howard T. Harstad & Associates, consulting engineers, 1000 Lenora, Seattle. $10 deposit. Certified check, 5%. This is a readvertisement. Bids were opened and rejected May 18 on the standpipe and May 4 on the foundation. GW 7-18. Previous report 5-22

★CAST IRON PIPE— Bremerton, Wash.

Award to U.S. Pipe & Foundry Co., Colman Bldg., Seattle, $2.805 per foot, by H. T. Gowan, city clerk, City Hall, Bremerton, for $4,000' of 8" cement lined, class 150, cast iron pipe with mechanical joints. Bids opened July 11. SP 7-17. Previous report 6-28

●GRADING, SURFACING— Cliffs, Maryhill, Wash.

Bids will be opened 2 p.m., August 2, by Corps of Engineers, Portland District, 628 Pittock Block, Portland, Ore., for grading, construction of drainage facilities and surfacing approximately 0.1 mile Washington State Highway No. 8 at Maryhill, and approximately 1.0 mile county, public and access roads in vicinity of Cliffs; CIVENG-35-026-57-10. Specifications with above office. Bid bond 20%. Completion time 120 calendar days. Quantities—SCHEDULE A—MARYHILL: 3,050 c.y. excavation; 1,090 rock revetment; 540 c.y. gravel blanket; 200 c.y. base surfacing; 160 c.y. gravel backfill; 40 c.y. mineral aggregate; 5.2 ton asphaltic cement. CLIFFS: 12,070 c.y. excavation; 1,300 c.y. base surfacing; 76' pipe. SP 7-18

★STREET PAVING— Colfax, Wash.

Award to United Paving Co., Inc., Geiger Field Quarry, Spokane, $99,575, by City Council, City Hall, Colfax, for approximately 48 blocks of new plantmix asphaltic concrete pavement and about 45 blocks of resurfacing with asphaltic plantmix. SP 7-12. Previous report 6-21

●SIDEWALK— Colville, Wash.

Bids to be opened 3 p.m., August 1, by General Services Administration, room 126, Federal Office Bldg., Seattle, for concrete sidewalks and appurtenances at U.S. Post Office, Colville, Wash.; Project No. CR-10-471. Specifications with Construction and Repair Division, at above address. This is a readvertisement, bids were opened and rejected June 25. GW 7-17. Previous report 6-28

★ROCK DRILL— Darrington, Wash.

Award to Homelite Corp., 3436 S.E. Milwaukie Ave., Portland, $1,387, by U.S. Forest Service, 729 N.E. Oregon St., room 18, Portland, for portable electric rock drill and generator. Bids opened July 2. WB 7-17. Previous report 6-28

★**VALLEY VISTA IMPROVEMENTS—** **Ellensburg, Wash.**

Award to Don Akins, Inc., 320 Railroad Ave., Ellensburg, $44,365, by City Council, City Hall, Ellensburg, for improvements, including sewer, curb and gutter and oil mat surfacing, in Valley Vista area in Ellensburg. Bids opened June 27.
SP 7-17. Previous report 6-14

★**EARTHWORK, STRUCTURES—** **Ephrata, Wash.**

Award to Donald M. Drake Co., 1600 N.W. Savier, Portland, $449,032, by Bureau of Reclamation, Box 368, Ephrata, for earthwork and structures, part two, block 18, laterals and wasteways, East Low Canal Laterals, Columbia Basin Project, near Connell, Wash.; Spec. No. DC-4689.
SP 7-12. Previous report 6-13

★**EARTHWORK, STRUCTURES—** **Ephrata, Wash.**

Award to Cherf Bros., Inc. and Sandkay Contractors, Inc., Box 938, Ephrata, $293,371, by Bureau of Reclamation, Box 368, Ephrata, for earthwork and structures of E168D wasteway drainage system, East Low Canal Wasteways, Columbia Basin Project, Wash., near Othello; Spec. No. DC-4696.
SP 7-12. Previous report 6-28

●**WASTEWAY REALINEMENT—** **Ephrata, Wash.**

Bids will be opened 10 a.m., August 14, by Bureau of Reclamation, Division and "C" St. N.W., Ephrata, for Goose Lake wasteway realinement station 0+30 to 4+70, ten miles northwest of Othello, Grant County, Wash.; Spec. No. 117C-386. Specifications with above office. Bid bond 10%. Completion time 95 calendar days. Includes 1,000 c.y. excavation. SP 7-17

★**FENCE REPLACEMENT, SOFTBALL BACKSTOP—** **Everett, Wash.**

Award to San Jose Steel Co., 7034 15th N.W., Seattle, $2,403 (fence), $460 (backstop), by School District No. 2, O. N. Johnson, secretary, Auditorium Bldg., Everett, for replacing fence and furnishing one softball backstop for South Junior High School in Everett. HH 7-17. Previous repoort 6-32

★**PILING, DREDGING—** **Everett, Wash.**

Award announced by Port of Everett, Board of Commissioners, Port Office, Pier No. 1, Everett, for piling and dredging work in Gill Netter Moorage Basin, Everett. Bids opened July 3. AWARD: American Pile Driving Co., Pier 2, Everett, $8,300. 2ND LOW: Manson Construction & Engineering Co., 5209 E. Marginal Way, Seattle, $12,000. 3RD LOW: Larson Construction Co., 468 Coleman Bldg., Seattle, $33,448.
HH 7-17. Previous report 6-27

★**CURBS, GUTTERS—** **Everett, Wash.**

Award to Moller Larsen & Son, 2302 Wetmore, Everett, $8,514, by City Council, City Hall, Everett, for construction of portland cement curbs and gutters for improvement of Alger Ave. from Evergreen Drive to 47th, LID No. 638, Everett. Bids opened July 6.
HH 7-17. Previous report 6-26

▲**PAVING ACCESS ROADS—** **Ice Harbor Dam, Wash.**

Bids received by Corps of Engineers, Walla Walla District, 602 City-County Airport, Walla Walla, for paving existing North Shore and South Shore access roads in the vicinity of Ice Harbor Lock and Dam, Walla Walla and Franklin counties, Wash.; CIV-ENG-45-164-56-73. ONLY BID: L. W. Vail Co., 1948 N. 4th St., Pasco, $81,655. Government estimate, $73,642. Bids were opened July 10. GW 7-17. Previous report 6-30

★**TRANSMISSION LINES—** **Kennewick, Wash.**

Award to Sierra Electric Co., 1269 N. Russet St., Portland, $34,126, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for construction of 1.6 miles transmission line, the Hedges Tap to McNary-Franklin 115 kv. line No. 1, two miles south of Kennewick, Benton County, Wash.; Inv. No. 8064. WB 7-18. Previous report 7-10

●**SUBSTATION COMMUNICATION MAINTENANCE BUILDING—Kent, Wash.**

Bids will be opened 2 p.m., July 24, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for construction of Covington substation communication maintenance building, approximately five miles east of Kent, King County, Wash.; Inv. No. 8096. Specifications with above office. $25 deposit. Bid bond 25%. Completion time 110 calendar days.

Quantities: 50 c.y. excavating and grading parking area; 27 c.y. excavation and backfill, building foundation; 79' concrete curb; 30 c.y. crushed rock; 28 ton asphaltic concrete paving; 200' safety fence. Includes installation of sewage disposal system and alterations to sprinkler system. SP 7-18

▲**SITE CLEARING—** **Kirkland, Wash.**

Bids received by Lake Washington School District No. 414, King County, in the Administration Bldg., 10903 53rd Ave. N.E., Kirkland, for clearing the site of the proposed junior high school in the Redmond area. Plans by Mallis & DeHart, architects, 631 Lyon Bldg., Seattle. LOW BIDS: Ralph Byers, 200th S.W. and Highway 99, Lynnwood, $5,428; D. Mastro, 12248 12th Ave. S.W., Seattle, $6,875; Anderson & Johnson, 11037 Roosevelt Way, Seattle, $6,960. Bids were opened July 11.
GW 7-14. Previous report 6-22

★**PAVING, CURBS—** **Longview, Wash.**

Award to Westco of Longview, 618 14th, Longview, $17,427, by Longview School District No. 122, 28th and Lilac St., Longview, for paving and installation of curbs on 28th Ave. between Harding and Hudson Streets and on Hudson St. from 28th to 30th Avenues. SC 7-18

★**SWITCHYARD, CONTROL HOUSE ADDITIONS—** **Longview, Wash.**

Award to L. B. Read and Mac Sharp, 3607 S.W. Sunset Blvd., Portland, $129,614, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for construction of switchyard and control house additions at Longview substation, outside southwest Longview city limits, Cowlitz County, Wash.; Inv. No. 8068. WB 7-18. Previous report 7-12

★**CONCRETE JOINTS—** **McChord AFB, Wash.**

Award to Woodworth & Co., 1200 E. D St., Tacoma, $42,888, for sealing concrete joints on base operations and hangar aprons at McChord AFB, Wash.; Inv. No. 45-603-56-84. Bids were opened June 14.
GW 7-14. Previous report 5-29

★**MODIFICATION OF TRUCK FILL STANDS—** **McChord AFB, Wash.**

Award to The Bay Co., 1512 Center, Tacoma, $10,880, by Department of Air Force, purchasing and contracting office, McChord AFB, for modification of truck fill stands at McChord AFB, Wash.; Inv. No. 45-603-56-71. Bids were opened June 13.
GW 7-14. Previous report 5-29

★**PIPE ARCH CULVERTS, STORM DRAINS—** **McChord AFB, Wash.**

Award to Woodworth & Co., 1200 E D St., Tacoma, $27,888, by Department of Air Force, purchasing and contracting office, McChord AFB, for multiplate pipe-arch culvert at Clover Creek and A St., on McChord AFB, Wash.; Inv. No. 45-603-56-75. Bids were opened June 13.
GW 7-14. Previous report 6-13

★**STREET REPAIRS—McChord AFB, Wash.**

Award to Woodworth & Co., 1200 E. D St., Tacoma, $72,807, by Department of Air Force, purchasing and contracting office, McChord AFB, for construction of street repairs on five projects at McChord AFB, Wash.; Inv. No. 45-603-56-91. Bids were opened June 19.
GW 7-14. Previous report 5-25

★**FENCING—** **McChord AFB, Wash.**

Award to Seattle Fence Division, San Jose Steel Co., Inc., 7034 15th Ave. N.W., Seattle, $3,767, by Department of Air Force, purchasing and contracting office, McChord AFB, for installatioin of chain link fence around the motor pool area at McChord AFB, Wash.; Inv. No. 45-603-56-65. Bids were opened June 14.
GW 7-14. Previous report 5-29

★**FLOODLIGHTING— McChord AFB, Wash.**

Award to Washington Electric Co., 5235 S. Tacoma Way, Tacoma, $2,398, by Department of Air Force, purchasing and contracting office, McChord AFB, for CAM area flood-lighting in civilian movements area at McChord AFB, Wash.; Inv. No. 45-603-56-73. Bids were opened June 13.
GW 7-14. Previous report 5-29

★**DOCK AND RAMP—McChord AFB, Wash.**

Award to Cascade Asphalt Paving Co., 6238 S. Tacoma Way, $4,780, by Department of Air Force, purchasing and contracting office, McChord AFB, for construction of a reinforced concrete loading dock and asphalt ramp and access roads in the 1400 area at McChord AFB, Wash.; Inv. No. 45-603-56-74. Bids were opened June 18.
GW 7-17. Previous report 5-25

★**RUNWAY PAINTING—** **McChord AFB, Wash.**

Award to Townsco Contracting Co., 1115 Cravens Bldg., Oklahoma City, Okla, $4,324, by Department of Air Force, purchasing and contracting office, McChord AFB, for runway and overrun area marking and painting at McChord AFB, Wash.; Inv. No. 45-603-56-63. Bids were opened June 12.
GW 7-12. Previous report 5-25

★**DRAINAGE, PAVING—** **McChord AFB, Wash.**

Award to Woodworth & Co., 1200 E. D St., Tacoma, $2,057, by Department of Air Force, purchasing and contracting office, McChord AFB, for drainage and paving at railroad crossing on McChord AFB, Wash.; Inv. No. 45-603-56-79. Bids were opened June 20. GW 7-17. Previous report 6-7

★**WATER SUPPLY LINE—** **Mercer Island, Wash.**

Award to Harbor Construction Co., 309 1st Ave. W., Seattle, $479,779, by Board of Public Works, E. G. Henry, secretary, 512 County-City Bldg., Seattle, for construction of Mercer Island water supply line, Unit 2, from Factoria to Mercer Island, Wash.; Ord. No. 82863. Plans by William E. Parker, city engineer, 404 County-City Bldg., Seattle.
GW 7-17. Previous report 7-6

●**SEWAGE TREATMENT PLANT—** **Montesano, Wash.**

Bids to be opened 8 p.m., August 7, by City Council, City Hall, Montesano, for construction of a primary sewage treatment plant to include lift station and equipment, with piping between the units. Plans will be available from Howard T. Harstad & Associates, consulting engineers, 1000 Lenora, Seattle, July 19. $15 deposit. Certified check 5%. GW 7-17

★**WATER MAIN—** **Mukilteo, Wash.**

Award by Mukilteo Water District, 5th and Park Avenues, Mukilteo, for furnishing and installing water main in LID No. 28. Plans by R. E. Wolff, consulting engineer, 1506 Smith Tower, Seattle. AWARD: Argentieri & Colorassi, 1815 Jackson, $7,212. ONLY OTHER BID: Power Construction Co., 3310 20th Ave. S., $9,142; both bidders of Seattle. Bids were opened July 10.
GW 7-13. Previous report 6-27

★**TANK CLEANING, PAINTING—** **Naselle, Wash.**

Award to Runnels Paint Co., 16826 Pacific Highway S., Seattle, $9,946, by Department of Air Force, purchasing and contracting office, McChord AFB, for cleaning and painting interior and exterior of water tanks at Naselle Air Force Station, Wash.;

Inv. No. 45-603-56-92. Bids were opened June 21. GW 7-14. Previous report 6-13

●DIESEL GRADERS— Olympia, Wash.

Bids to be opened 2 p.m., July 26, by H. E. Pike, supervisor of purchasing, Box 1164, Olympia, for three heavy duty diesel powered patrol graders. Plans with supervisor. DC 7-14

▲STATE HIGHWAY PROJECTS— Olympia, Wash.

Bids received July 17 by Washington State Highway Commission, Olympia, for highway construction.

SKYKOMISH RIVER, HASKELL SLOUGH BRIDGES—Reinforced concrete slab bridge and through steel truss bridge with reinforced concrete box girder approaches on 0.158 mi. SSH No. 15-B, Snohomish County; FAS No. S-0225(4).

LOW BIDS: Anderson Bros. Construction Co., 4130 S. Adams, Tacoma, $515,870; Elgin V. Phillips, 4055 21st Ave. W., Seattle, $523,676; MacRae Bros., 5900 1st Ave. S., Seattle, $531,419.

15TH AVE. INTERCHANGE-STRUCTURES Nos. 2, 3, 4—Clearing, grading, draining, reinforced concrete flat slab bridge, reinforced concrete box girder bridge, reinforced concrete T-beam bridge on 0.066 mi. PSH No. 1, Thurston County; FAP No. BIN-BING-001-2(42).

LOW BIDS: MacRae Bros., Seattle, $382,383; N. Fiorito Co., Inc., 844 W. 48th Ave., Seattle, $404,479; Harry Hawkins, 16274 39th Ave. N.E., Seattle, $452,091.

GR AND GL ON AND OFF RAMP OVERCROSSING-EASTSIDE STREET IN OLYMPIA—Clearing, draining, grading, type I-1 asphaltic concrete paving, two reinforced concrete rigid frame slab bridges on PSH No. 1, Thurston County; FAP No. BIN-001-2(46).

LOW BIDS: Harry Hawkins, Seattle, $135,838; MacRae Bros., Seattle, $143,425; Lockyear & White, Inc., Box 687, Longview, $147,281.

LAKE STEVENS TO GETCHELL ROAD—Clearing, draining, grading, surfacing with select roadway borrow on 4.632 mi. SSH No. 1-A, Snohomish County; FAS No. S-0202(4).

LOW BIDS: N. Fiorito Co., Inc., Seattle, $268,472; Scarsella Bros., 2207 S. 146th, Seattle, $269,432; Osberg Construction Co., 1132 N. 128th, Seattle, $319,939.

DOLLARS CORNER TO BATTLEGROUND—Clearing, draining, grading, type I-1 asphaltic concrete paving, stockpiling crushed stone surfacing, maintenance rock and mineral aggregates on 3.432 mi. SSH No. 1-S, Clark County; FAS No. S-0393(2).

ONLY BID: J. N. Conley, 4332 N.E. Royal Court, Portland, Ore., $343,745.

CITY OF SOUTH BEND—Draining, grading, type I-1 asphaltic concrete paving on 0.327 mi. PSH No. 12, Pacific County; FAP No. F-004-1(5) and State Project.

LOW BID: J. T. Graham & Co., 2252 Snively Ave., Chehalis, $70,681. ONLY OTHER BID: Bocek Bros., Box 666, Hoquiam, $76,025.

PE ELL-McDONALD ROAD—Clearing, draining, grading, crushed stone surfacing on 1.642 mi. Lewis County Road; FAS No. S-1208(1).

LOW BIDS: Strong & Macdonald, Inc., 4045 Ruston Way, Tacoma, $120,853; I. M. Saimons, Route 1, Box 788, Alderwood Manor, $120,939; Bocek Bros., Hoquiam, $124,810.

JERRY-CLOVERLAND ROAD—Light bituminous surfacing treatment on 4.527 mi. Asotin County road; FAS No. S-0559(5).

ONLY BID: Carbon Bros., N. 3430 Cook St., Spokane, $51,090.

ROBINSON CANYON ROAD—Reinforced concrete slab bridge on 0.011 mi. Kittitas County road; FAS No. S-0984(2).

LOW BIDS: Roger E. Holmes, Route 10, Box 493, Olympia, $14,881; Russell-Gillette Co., Box "G," Cle Elum, $15,296; Colonial Construction Co., W. 615 Mansfield, Spokane, $18,039.

DOTY TO CLAQUATO—Clearing, draining, grading, cement treated base, type I-1 asphaltic concrete paving; stockpiling crushed stone surfacing on 4.345 mi. PSH No. 12, Lewis County; a State Project.

LOW BID: Pacific Sand & Gravel Co., Box 628, Centralia, $243,607. ONLY OTHER BID: Strong & Macdonald, Tacoma, $313,027.

CHELAN COUNTY LINE NORTH—Clearing, draining, grading, light bituminous surface treatment, stockpiling on 1.184 mi. SH Nos. 10 and 3-P, Chelan, Okanogan and Ferry counties; a State Project.

ONLY BID: Frank G. Baulne, Inc., Box 84, Yardley, $143,889.

MANETTE BRIDGE TO SHERIDAN ROAD IN BREMERTON—Draining, type I-1 asphaltic concrete paving on 1.482 mi. SSH No. 21-B, Kitsap County; a State Project.

LOW BID: Ace Paving Co., Route 2, Box 56, Bremerton, $43,570. ONLY OTHER BID: Acme Construction Co., Box 651, Redmond, $62,777.

NEAH BAY TO CLALLAM BAY—Stockpiling about 10,000 ton crushed stone surfacing, mineral aggregates on SSH No. 9-A, Clallam County; a State Project.

ONLY BID: Pieler Construction Co., Inc., Box 549, Port Angeles, $31,360.

CITY OF MOUNT VERNON—Install about 9,310′ chain link fence on 1.070 mi. PSH No. 1, Skagit County; a State Project.

LOW BID: San Jose Steel Co., Inc., 7035 15th Ave. N.W., Seattle, $30,909. ONLY OTHER BID: U.S. Steel Corp., 1150 Fairview Ave. N., Seattle, $51,467.

RIMROCK TUNNEL—Sealing tunnel roof on 0.11 mi. PSH No. 5, Yakima County; a State Project, involving about 2,800′ drilling, washing grout holes; 1,900 cu. ft. portland cement; 2,600 cu. ft. mixing, pumping grout; 840′ drilling drain holes.

LOW BID: Intrusion-Prepakt, Inc., 300 12th Ave., Seattle, $33,712. ONLY OTHER BID: Wayne Construction Co., 3810 Stone Way, Seattle, $43,462.

DE 7-18. Previous report 7-11

●STATE HIGHWAY PROJECTS— Olympia, Wash.

Bids will be opened 10 a.m., July 31, by Washington State Highway Commission, W. A. Bugge, director, Olympia, for highway construction. Specifications with above office. $2 deposit. Bid bond 5%.

AIRPORT ROAD-NORTH RIVER—Clearing, draining, grading and surfacing 5.528 mile SSH No. 13-A, Pacific County; FAS No. S-0453(4).

Quantities: 46 acre clearing; 418,320 c.y. excavation; 33,670 unit overhaul; 2,703′ pipe; 12,520 ton riprap.

FACTORIA INTERCHANGE EAST—Clearing, draining, grading, surfacing with light bituminous surface treatment, paving with type I-1 asphaltic concrete and constructing a reinforced concrete flat slab bridge on 3.069 mile PSH No. 2, King County; FAP No. IN-002-1(14).

Quantities: 38 acre clearing; 120,290 c.y. excavation and borrow; 21,280 ton selected borrow; 8,960 ton crushed stone surfacing; 76 ton asphalt cement; 660 c.y. crushed cover stone and mineral aggregate; 6,835 ton asphaltic concrete; 20,320 lb. steel reinforcing bars; 1,700′ timber piling.

KAISER ROAD - TUMWATER — Clearing, draining, grading and surfacing with selected roadway borrow on 2.236 mile PSH No. 9, Thurston County; FAP No. F-007-5(6).

Quantities: 61 acre clearing; 247,240 c.y. excavation; 15,670 unit overhaul; 35,510 ton selected roadway borrow; 2,922′ concrete pipe; 245′ corrugated metal pipe.

HIGHLAND STREET - CHESTNUT STREET, CLARKSTON—Draining, grading, surfacing, paving with type I-1 asphaltic concrete and stockpiling crushed stone surfacing, ballast and mineral aggregates on 0.522 mile PSH No. 3, Asotin County; FAP No. F-042-1(2).

Quantities: 5,870 c.y. excavation; 39,610 ton crushed stone surfacing, ballast, maintenance rock and mineral aggregates; 2,810 ton asphaltic concrete; 3,211′ cement concrete curb and gutter.

CUSTER STREET PEDESTRIAN UNDERCROSSING—Constructing a reinforced concrete slab pedestrian bridge on PSH No. 2, Spokane County; FAP No. UI-002-6(23).

Quantities: 267 c.y. concrete; 60,000 lb. steel reinforcing bars; 600 lb. structural steel.

WAPATO-DONALD BRIDGE AND APPROACHES — Grading, surfacing, paving with type I-1 asphaltic concrete and constructing a reinforced concrete box girder bridge on 0.256 mile Yakima County road; FAS No. S-0404(2).

Quantities: 6,250 c.y. excavation and borrow; 1,110 c.y. selected material; 1,003 c.y. concrete; 258,000 lb. steel reinforcing bars; 14,800 lb. structural stel.

SOUTH 312TH STREET—Clearing, draining, grading, surfacing and paving with cement concrete on 2.0 mile road in King County; FAS No. S-1193(1).

Quantities: 23,660 c.y. excavation; 19,340 c.y. roadway borrow; 3,860 ton crushed stone surfacing; 25,831 sq. yd. cement concrete pavement; 3,300 lb. pavement reinforcement; 145 ton bituminous mix; 1,202′ concrete pipe.

PORT ORCHARD-WATERMAN ROAD—Clearing, draining, grading and surfacing with selected roadway borrow on 0.919 mile road in Kitsap County; FAS No. S-0329(1).

Quantities: 33,300 c.y. excavation and borrow; 3,130 c.y. selected roadway borrow; 43 c.y. concrete; 5,750 lb. steel reinforcing bars, 9,950 c.y. riprap; 1,824′ pipe.

CALIFORNIA CREEK AND WISER LAKE ROAD BRIDGES—Two reinforced concrete flat slab bridges on 0.026 mile road in Whatcom County; FAS Nos. S-0752(2), S-0746(1).

Quantities: 224 c.y. concrete; 48,900 lb. steel reinforcing bars; 372′ beam guard rail; 2,540′ concrete piling.

JCT. ROADWAY CUTOFF-42ND STREET, EVERETT—Surfacing with light bituminous surface treatment and paving with type I-1 asphaltic concrete on 4.145 mile PSH No. 1, Snohomish County; a State Project.

Quantities: 6,000 ton crushed stone surfacing; 138 ton asphalt cement; 810 c.y. crushed cover stone; 22,460 ton asphaltic concrete.

JCT. SSH No. 2-B—Draining, grading, surfacing with light bituminous surface treatment, paving with unfinished cement concrete and type I-1 asphaltic concrete and installing an illumination system on 0.246 mile PSH No. 2, King County; a State Project.

Quantities: 1,170 c.y. excavation; 150 c.y. borrow; 480 ton crushed stone surfacing; 2,400 sq. yd. unfinished cement concrete pavement; 470 ton asphaltic concrete; 1,745′ precast traffic curb.

COULEE CITY NORTH—Draining, grading, surfacing and constructing a non-skid single seal treatment on 3.107 mile SSH No. 2-F in Grant County; a State Project.

Quantities: 43,400 c.y. solid rock borrow; 400 c.y. non-skid single seal treatment; 100 c.y. crushed cover stone; 72′ metal pipe; 388′ beam guard rail.

NATIONAL AVENUE-SALZER CREEK—Installing drainage on 0.651 mile PSH No. 1, Lewis County, involving 7,886′ concrete pipe; a State Project.

EASTGATE INTERCHANGE — Installing an illumination system on PSH No. 2 in King County; a State Project.

BELLINGHAM-FERNDALE—Installing illumination systems on PSH No. 1 in Whatcom County; a State Project.

SNOHOMISH RIVER BRIDGE, ET AL—Cleaning and painting three bridges on SSH Nos. 1-A, 1-B and 1-E in Snohomish and Whatcom Counties; a State Project.

BAILEY BRIDGE COMPONENTS—Cleaning, painting, bundling and storing Bailey bridge components in Pierce County; a State Project. SP 7-13

●ROAD IMPROVEMENTS—Prosser, Wash.

Bids to be opened 11 a.m., July 23, by Benton County Commissioners, Courthouse, Prosser, for county road improvements. Plans with Dale E. Bean, county engineer, Box 648, Prosser. $2 deposit. Certified check, cashier's check or bid bond 5%.

Grading, draining, crushed stone surfacing on 0.8 mile Finley Road from Dague Road to 10th Ave., CRP 282 and one mile of Hood Ave. from Volland St. to Fisher St., CRP 287. Quantities: 6,650 c.y. common excavation; 7,280 c.y. common borrow; 33,660 ton crushed stone surfacing, cover stone; 307′ culvert pipe. DM 7-13

▲STEEL PIPE— Quincy, Wash.

Bids received by Bureau of Reclamation, Bldg. 53, Denver Federal Center, Denver, Colo., for furnishing and delivering steel discharge and drain pipes with accessories, including valve supports and service boxes, for Frenchman Springs Pumping Plant, Co-

lumbia Basin Project, Wash.; Inv. No. DS-4715. Bids opened July 12. LOW BIDS: Hydraulic Supply Manufacturing Co., 7500 8th Ave. S., Seattle, $18,647 fob. Quincy; Vulcan Pipe & Engineering Co., Los Angeles, Calif., $18,985 fob. Los Angeles United Concrete Pipe Corp., Baldwin Park, Calif., $26,000 fob. Quincy.
SP 7-18. Previous report 6-16

▲FLOOD CONTROL GATES, DIKES— Renton, Wash.

Bids received by King County Soil Conservation District, 231 William St., Renton, for flood control on the Black River, approximately 2 mi. west of Renton. LOW BIDS: Einar Johnson, Buckley, $38,498; Valley Construction Co., 7722 Rainier Ave., Seattle, $39,660; General Construction Co., 3840 Iowa, Seattle, $46,420. Bids were opened July 11.
GW 7-13. Previous report 6-27

★HOIST ENCLOSURE— Seattle, Wash.

Award to Pacific Car and Foundry, 120 W. Hudson, Seattle, $25,300, by City Council, Paul R. Hendricks, city purchasing agent, room 511, County-City Bldg., Seattle, for furnishing structural steel framing hoist enclosure and air duct for Gorge High Dam; Spec. No. 1421. Bids were opened May 16.
GW 7-12. Previous report 4-26

★TANK REPAIRS— Seattle, Wash.

Award to Puget Sound Fabricators, Inc., 3670 E. Marginal Way, Seattle, $4,549 by 13th Naval District, Public Works Office, room 100, Building 232, U.S. Naval Station, Seattle, for replacement of steel bottom in diesel oil tank No. 98, at U.S. Naval Supply Depot, Seattle. NBy 2021; Spec. No. 2021/56.
GW 7-17. Previous report 6-15

★GROUND IMPROVEMENT— Seattle, Wash.

Award to Scarcella Bros., 2207 S. 146th, Seattle, $5,800 by Seattle School District No. 1, Frank M. Brock, secretary, 815 4th Ave. N. Seattle, for ground improvements at the site of the proposed Sand Point Elementary school, 6208 60th Ave. N.E., Seattle.
GW 7-12. Previous report 6-20

▲VIADUCT WIDENING— Seattle, Wash.

Bids received by Board of Public Works, E. G. Henry, secretary, room 512, County-City Bldg., Seattle, for the widening of the E. 45th St. viaduct and approaches, Seattle. Plans by William E. Parker, city engineer, 404 County-City Bldg., Seattle. LOW BIDS: Allen R. Anderson, 3619 10th Ave. N.E., $170,033; MacRae Bros., 5900 1st Ave. S., $177,372; Butler Construction & Engineering Co., 3419 13th Ave. S.W., $180,813; all of Seattle. Engineer's estimate, $150,576. Bids were opened July 11.
GW 7-13. Previous report 6-30

FLOATING BRIDGE— Seattle, Wash.

Recommendation made by DeLeuw & Cather, Chicago, Ill., engineers, for construction of a new floating bridge across Lake Washington about 300' north of and parallel to the existing bridge. One-way traffic will be imposed on the two bridges, west bound on the new structure and east-bound on the present bridge. Tolls will pay for the proposed bond issue. A bridge will also be built across the East Channel Waterway midway between existing bridge and Bellevue.
DM 7-14

★PIER REPAIRS— Seattle, Wash.

Award to Larsen Construction Co., Colman Bldg., Seattle, $1,500 by Seattle Army Terminal, room 300, Building No. 1, 1519 S. Alaskan Way, Seattle, for repairs to piers Nos. 36 and 37, at Seattle Army Terminal; Inv. No. TC-45-045-56-106.
GW 7-14. Previous report 6-28

★GATE VALVES— Seattle, Wash.

Award to H. D. Fowler Co., 901 Lane, Seattle, $1,614 by City Council, Paul R. Hendricks, city purchasing agent, room 511, County City Bldg., Seattle, for furnishing 20, 4" flanged gate valves. Bids were opened June 7.
GW 7-14. Previous report 5-31

★WIRE— Seattle, Wash.

Award to Platt Electric Co., Dexter Horton Bldg., Seattle, $2,989, by City Council, Paul R. Hendricks, room 511 County City Bldg., Seattle, for furnishing 16,000' of No. 2, stranded single conductor, TW wire. Bids were opened June 5.
GW 7-14. Previous report 5-31

●STREET PAVING— Seattle, Wash.

Bids will be opened 9:30 a. m., July 30, by W. R. Carroll, county purchasing agent, room 606 County-City Bldg., Seattle, for paving 1.1 mi. of S.W. 130th and Shorewood Drive. Plans with D. L. Evans, county road engineer, 905 County-City Bldg., Seattle. $10 deposit. Certified check, cashier's check or bid bond 5%. Quantities: 810 ton type I-1 asphaltic concrete class C, wearing course; 1,215 ton asphaltic concrete class L, leveling course; 10 ton asphaltic cement prime coat.
GW 7-17

★SEWERS, STREET WIDENING AND PAVING, TEST BORINGS—Seattle, Wash.

Awards by Board of Public Works, E. G. Henry, secretary, room 512, County-City Bldg., Seattle, for sewers, street widening and paving, test borings. Plans by city engineer, 404 County-City Bldg., Seattle. AWARDS—Sanitary Sewers: Superior Construction Co., 4610 37th Ave. S.W., $166,738. Sanitary Trunk Sewers: Frank Coluccio ConstructionCo., 7778 Seward Park Ave., $47,698. Sewers: Lario Libri, 5960 Empire Way, $6,976. Street Widening: Seattle Contracting Co., 101 Nickerson, $35,995. Test Borings: Western Drilling and Equipment Co., 1545 E. Bay, Tacoma, $2,857.
GW 7-17. Previous report 6-29

★PAVING, SIDEWALKS— Seattle, Wash.

Awards by Board of Public Works, E. G. Henry, secretary, 512 County-City Bldg., Seattle, for construction of sidewalks and paving in LID No. 6123 and 6124. Plans by city engineer, 404 County-City Bldg., Seattle. AWARDS—LID No. 6123: 14th Ave. W., Seattle Contracting Co., 101 Nickerson, $213,451 (alternate A, portland cement concrete pavement). LID. No. 6124: Walden St., Northwest Construction Co., 3950 6th Ave. N.W., $120,166 (alternate A, portland cement concrete pavement).
GW 7-17. Previous report 7-6

●CONCRETE PIPE LAYING— Seattle, Wash.

Bids to be opened 9:30 a. m., July 23, by King County Commissioners, W. R. Carroll, county purchasing agent, room 606, County-City Bldg., Seattle, for furnishing and laying 532' in sections of 8', 30" tongue and groove, standard strength reinforced concrete pipe; other work includes 130 c.y. structure excavation; concrete sectional top and concrete block manhole 11' high and construct 1'x6'x6' concrete base; removing an existing bulkhead and two lengths of broken 36" pipe at King County Airport, Boeing Field. Plans with county purchasing department and Field Manager's office at the airport. $15 deposit. Certified check, cashier's check or bid bond 5%.
GW 7-17

▲SEWERS— Sedro Woolley, Wash.

Bids received by City Council, Virgil Adams, supervisor, City Hall, Sedro Woolley, for construction of Schedule A: Sewage treatment plant. Schedule B: East side sanitary trunk sewers. Schedule C: West side sanitary trunk sewers. Schedule D: Storm sewer, in the city of Edmonds. Plans by James H. Reid & Associates, consulting engineers, 420 Bell St., Edmonds. LOW BIDS—SCHEDULE A: G. R. Leischner Construction Co., 1201 W. 92nd, Seattle, $129,-355; B. F. Turnbull, Inc., 4351 Leary Way, Seattle, $153,628; Goren Construction Co., 506 14th, Bellingham, $156,415. The following are all basic bids. SCHEDULE B: Lario Libri, 5960 Empire Way, Seattle, $144,892; Arnie's Construction Co., 1018 E. 96th, Seattle, $155,351; Washington Development Co., 1524 Ballard Way, Seattle, $165,724. SCHEDULE C: Washington Development Co., $40,-101; Arnie's Construction Co., $52,425. SCHEDULE D: Washington Development Co., $60,251. Bids were opened July 9.
GW 7-13. Previous report 7-7

●TRACTOR— Shelton, Wash.

Bids to be opened 10:30 a. m., July 23, by Mason County Commissioners, Courthouse, Shelton, for furnishing 75 drawbar hp crawler type tractor with bulldozer blade and winch. Plans with county engineer, Shelton. Bid bond 5%.
DC 7-14

★SUBSTATION ADDITION—Shelton, Wash.

Award to J. M. Montgomery & Co., Inc., 900 S. Robertson Blvd., Los Angeles, $62,678, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for construction of 115 kv. additions to Shelton substation, one mile northwest of Shelton, Mason County, Wash.; Inv. No. 8041.
WB 7-17. Previous report 6-21

★GRADING, CURBING— Spokane, Wash.

Award to Lyle E. Logan, Spokane, $13,-774, by City Council, City Hall, Spokane, for grading and curbing of Madelia St. from Thurston Ave. to 44th Ave. and 42nd Ave. from Madelia St. to Helena St. in Spokane.
EM 7-14. Previous report 6-27

★PAVING— Sunnyside, Wash.

Award to Smith Asphalt Paving Co., Sunnyside, $11,860, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for paving at Midway substation, Benton County, approximately 30 miles northeast of Sunnyside; Inv. No. 8027.
WB 7-17. Preivous report 6-22

●STREET IMPROVEMENTS— Tacoma, Wash.

Bids to be opened 10 a. m., July 24, by Pierce County Commissioners, Courthoue, Tacoma, for street improvements involving grading, draining, asphaltic concrete pavement in Parkland area; CRP 1568. Plans with William A. Stancer, county engineer, courthouse. $5 deposit. Certified check, cashier's check or bid bond 5%.

Quantities: 2,517 c.y. excavation; 2,420 c.y. select roadway borrow; 13.3 ton asphalt cement MC-3; 1,874 ton asphaltic concrete pavement type I-1; 652' concrete culvert pipe; 1,840' corrugated metal drain pipe; 750' reinforced concrete curb, gutter.
DM 7-13

●RESERVOIR— Tacoma, Wash.

Bids will be opened 10 a. m., July 30, by Lakewood Water District, 11900 Gravelly Lake Drive, Tacoma, for construction of a 1,000,000-gallon capacity welded steel reservoir, including plans for reinforced foundation. Specifications with above office and may be inspected at office of Worthen & Wing, consulting engineers, 9152 Gravelly Lake Drive, Tacoma. $15 deposit.
SC 7-17

▲FISHWAY, BAFFLE SYSTEM— Tumwater, Wash.

Bids received by J. C. Claypool, district engineer for Washington State Highway Commission, Tumwater, for construction of fishway entrance structure and baffling system in a reinforced concrete culvert located 5.5 miles east of Port Angeles on PSH No. 9, Clallam County, Seibert Creek-East of Port Angeles section. Bids opened July 12. LOW BIDS: Wilson & Simpson, Box 1070, Port Angeles, $8,700; Winterburg Construction Co., Box 202, Port Townsend, $9,200; Wayne Construction Co., 3810 Stone Way, Seattle, $10,650.
SP 7-14. Previous report 6-26

★SEWERS, WATER LINES— Vancouver, Wash.

Award by Vancouver Housing Authority, McLoughlin Heights, Vancouver, for construction of sewers, water mains and surface drainage facilities in Lieser Crest—9, McLoughlin Heights. AWARD: John Luyben & Son, 14005 N.E. Halsey St., Portland, $53,-135. 2ND LOW: Frank Kanehl, 6407 S.E. 43rd Ave., Portland, $55,145. 3RD LOW: Paul Ferneding, 2111 E. 27th, Vancouver, $55,685. Bids opened July 5.
WB 7-11. Previous report 6-22

★**FISH HATCHERY FACILITIES—** **Vancouver, Wash.**

Award to Teller Construction Co., 845 N. Graham, Portland, $674,660, by State Department of Fisheries, Robert J. Schoettler, director, Foot of Washington St., Olympia, for construction of the Washougal Salmon Hatchery and facilities, located on the Washougal River, approximately 27 mi. east of Vancouver, Wash.
GW 7-14. Previous report 6-14

▲**REVOLVING BIN ASSEMBLY—** **Vancouver, Wash.**

Bids opened by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for revolving bin assemblies and dividers, fob. Eavan Spur, Vancouver; Inv. No. 8079. BIDDERS: Universal Steel Equipment Corp., Long Island City, N. Y., $2,299; William A. Gore Co., Seattle, $2,468; Air Mac, Inc., of Oregon, 1435 S.E. Union Ave., Portland, $2,527. Other incomplete bids received. Bids opened July 6. WB 7-14. Previous report 6-27

★**SANITARY SEWERS—** **Vancouver, Wash.**

Award to Harold Olds, 3111 N. 24th St., Tacoma, $21,059, by city purchasing agent, 712 Washington St., Vancouver, for construction of sanitary sewers; LID 83-S.
WB 7-17. Previous report 6-27

●**POWER INSTALLATION—** **Whidbey Island, Wash.**

Bids to be opened 2 p. m., July 31, by 13th Naval District, Public Works Office, room 100, Building 232, U. S. Naval Station, Seattle, for special power installation, buildings 17 and 28, at the U. S. Naval Air Station, Whidbey Island, (Seaplane base). Plans with public works officer, $25 deposit. Bid bond 20%. GW 7-18

▲**BULKHEAD GATES, APPURTENANCES—** **Yakima, Wash.**

Bids received by Bureau of Reclamation, Bldg. 53, Denver Federal Center, Denver, Colo., for furnishing and delivering two 11'5"x7'6" bulkhead gates and one lot of bulkhead gate seats, guides and latches for turbine draft tubes for Roza Powerplant, Yakima Project, Wash.; Inv. No. DS-4711. Bids opened July 10. LOW BIDS: Monarch Forge & Machinery Works, Inc., 2130 N.W. York St., Portland, Ore., $6,882 fob. Portland; Valley Iron Works, 123 S. Front St., Yakima, $7,854 fob. job site; Adsco Industries, Inc., California Steel Products Division, Richmond, Calif., $7,910 fob. Richmond. SP 7-18

▲**CONTROL EQUIPMENT—** **Yakima, Wash.**

Bids received by Bureau of Reclamation, Bldg. 53, Denver Federal Center, Denver, Colo., for furnishing and delivering fob. Yakima, one lot of control equipment for one 10'x10.66' fixed-wheel gate hoist for Roza Power Plant, Yakima Project, Wash.; Inv. No. DS-4710. Bids opened July 10. LOW BID: Union Steel Mfg., Inc., 1123 W. Hanford, Seattle, $1,910 fob. Seattle. ONLY OTHER BID: Anderson Elevator Co., Denver, Colo., $2,600 fob. Yakima.
SP 7-18. Previous report 6-7

IDAHO

★**SEWER CONSTRUCTION—Alameda, Idaho**

Award announced by City Clerk, City Hall, Alameda, for construction of improvements in LID No. 21 for sewer construction in Alameda, Bannock County, Idaho. Bids opened July 11. AWARD: W. R. Cahoon Construction Co., Box 449, Pocatello, $45,668. ONLY OTHER BID: Rupert Sorenson, Alameda, $48,669. SP 7-18. Previous report 7-3

▲**STATE HIGHWAY PROJECTS—** **Boise, Idaho**

Bids received by Department of Highways, 603 Main St., Boise, for highway construction on which bids opened July 10.

ODD FELLOWS HOME ROAD—Gravel surfacing, bituminous surface treatment and 70' concrete bridge on 5.515 mi. in Bonneville County; FAP No. S-6074(1). Plans with district engineer at Rigby.

LOW BIDS: Western Construction Co., Box 628, Pocatello, $57,229; W. R. Cahoon Construction Co., Box 449, Pocatello, $61,611; Robert V. Burggraf Construction Co., Box 397, Idaho Falls, $67,940.

FENN EAST & WEST—Oil stabilization base and type C surface treatment on 7.382 mi. U.S. Highway 95, Idaho County; ST-4113(513). Plans with district engineer in Lewiston.

LOW BID: J. F. Konen Construction Co., 1408 11th St., Lewiston, $120,588. ONLY OTHER BID: United Paving Co., Gieger Field Quarry, Spokane, $126,761.

MALAD CONNECTION—Seal coating 17.297 mi. U.S. Highway 191 between Utah line and four mi. north of Malad and 0.299 mi. Malad connection; FAP No. FI-1031(4) and ST-1705(502), Oneida County. Plans with district engineer in Pocatello.

LOW BIDS: Western Construction Co., Pocatello, $46,079; Fife Construction Co., Brigham City, Utah, $50,516; Jack B. Parson Construction Co., Smithfield, Utah, $51,834. SP 7-13. Previous report 6-29

★**CURBS, SIDEWALKS—** **Craters of the Moon, Idaho**

Award announced by U. S. National Park Service, San Francisco, Calif., for construction of concrete curbs and sidewalks at the Craters of the Moon National monument in Idaho. Completion time 90 calendar days. AWARD: Robert V. Burggraf, Box 397, Idaho Falls, $53,985. ONLY OTHER BID: Peter Kiewit Sons' Co., Box 253, Idaho Falls, amount not released. SC 7-18

★**RUNWAY EXTENSION—** **Idaho Falls, Idaho**

Award to Carl E. Nelson Construction Co., Box 397, Logan, Utah, $280,006, by City Council, City Hall, Idaho Falls, for construction of a 2,000' extension to the runway at Municipal airport in Idaho Falls. SC 7-14

▲**CRUSHED ROCK—** **Lewiston, Idaho**

Bid received by Nez Perce County Commissioners, Courthouse, Lewiston, for crushed rock for stockpiling on Melrose-Reubens and Rebens-Culdesac portions of county highway in Idaho. Bids opened July 10. ONLY BID: J. F. Konen Construction Co., 1408 11th St., Lewiston, $1.65 per ton.
SP 7-13. Previous report 6-26

●**CLEANING, TREATING, PAINTING—** **Lucky Peak Dam, Idaho**

Bids will be opened 2 p. m., August 7, by Corps of Engineers, Walla Walla District, Bldg. 602, City-County Airport, Walla Walla, for cleaning, treating and painting two intake emergency gates, one intake bulkhead and nine trashrack panels at Lucky Peak Dam, Ada County, Idaho; CIVENG-45-164-57-3. Specifications with above office. Bid bond 20%. Completion times 60 (trashrack panels), 90 (intake gates) and 45 (intake bulkhead) calendar days.
SP 7-17. Previous report 5-24

▲**POL MODIFICATIONS—** **Mountain Home AFB, Idaho**

Bids received by Corps of Engineers, Walla Walla District, 602 City-County Airport, Walla Walla, for POL modifications at Mountain Home AFB, Elmore County, Idaho; ENG-45-164-56-42. ONLY BID: Intermountain Co., 1322 Grove, Boise, $13,684 (basic); $19,239 (sched. A plus item No. 5); $21,770 (sched. A plus items 5 and 6); $26,382 (sched. A plus items 5, 6 and 7); $27,370 (sched. A plus items 5, 6, 7 and 8); $28,307 (sched. A plus items 5, 6, 7, 8 and 9); Government estimate, $10,570, $16,710, $18,950, $22,960, $23,440, $24,100. Bids were opened July 12. GW 7-17. Previous report 7-3

★**CLEARING, GRADING—** **Priest River, Idaho**

Award to Smith Bros., E. 114 Ermia, Spokane, Wash., $12,347, by U. S. Forest Service, Regional Forester, 1036 Federal Bldg., Missoula, Mont., for clearing and grading 1.27 mile roadway, Priest River Experimental Area Road 597C-5, Kaniksu National Forest, 15 miles north of Priest River, Bonner County, Idaho. Bids opened June 28.
SP 7-13. Previous report 6-13

MONTANA

★**SANITARY SEWER—** **Billings, Mont.**

Award announced by City Council, City Hall, Billings, for construction of a sanitary sewer from 10th to 12th Ave. S., between Broadway and 29th St., in Billings. Bids opened July 10. AWARD: Long Construction Co., Lockwood Flats, Billings, $3,515.
EE 7-17. Previous report 7-5

★**SEWER MAINS—** **Billings, Mont.**

Award to Barry O'Leary, Inc., only bidder, 215 N. 16th St., Billings, $5,497, by Yellowstone County Commissioners, Courthouse, Billings, for furnishing and installing 1,170' of 8" sanitary sewer mains and three standard manholes in RSID No. 295 on South Billings Blvd., Billings. Bids opened July 10. No bids were received for 1,400' of 8" sanitary sewer mains and four standard manholes in RSID No. 284 on Rhea Lane and bids will be readvertised.
EE 7-18. Previous report 6-22

●**WATER MAIN—** **Billings, Mont.**

Bids will be opened 11 a.m., August 7, by Yellowstone County Commissinoers, Courthouse, Billings, for installation of 12" water main in RSID 335 in Billings. Specifications with L. R. Sampson, county surveyor, at above address. Certified check 10%. EE 7-18

TELEPHONE FACILITIES— Forsyth, Mont.

R.E.A. loan of $30,000 approved for Range Telephone Cooperative, Robert Laramore, manager, Forsyth, Mont., to provide service to 39 users in thinly populated area with no telephone service. Includes 105 mi. of line in Powder River County, through Ashland Exchange. WB 7-10

▲**WATER SUPPLY, SEWER UTILITIES— Glasgow, Mont.**

Bids received by Valley County Clerk, Courthouse, Glasgow, for water supply and sewer utilities in SID No. 2, Cherry Creek Development, west of Glasgow. Plans by Wenzel & Co., consulting engineers, 41 Meadowlark Drive, Great Falls. Bids opened July 9. LOW BIDS: Elmer Johnson Plumbing & Heating, 550 2nd Ave., Glasgow, $56,031 (Schedules 1, 4 and 5); Kallevig Bros., Sidney, $29,204 (Schedule 1—water district system); A & B Drilling Co., c/o A. J. Wright, Froid, $68,297 (all schedules except steel standpipe); Pittsburgh-Des Moines Steel Co., Des Moines, Iowa, $7,600 (steel standpipe); Layne-Minnesota Co., Minneapolis, Minn., $9,458 (Schedule 2); Northwestern Engineering Co., Box 1392, Rapid City, S. Dak., $69,964 (Schedules 1, 4 and 5); George F. Askin, Ismay, $9,971 (Schedule 2). All of Montana unless noted. SP 7-13. Previous report 6-27

★**STREET IMPROVEMENTS— Great Falls, Mont.**

Award to City Constructors (McLaughlin, Inc., Box 1824; S. Birch & Sons, Ford Bldg.; Nilson-Smith Construction Co., Box 1147; S. Birch, Inc.), Great Falls, $4,186,721, by City Council, Fred Hill, city clerk, City Hall, Great Falls, for construction of street improvements in Kiwanis Paving District in Great Falls. SP 7-18. Previous report 7-5

TELEPHONE FACILITIES— Havre, Mont.

R.E.A. loan of $110,000 approved for Triangle Telephone Association, Thomas Staff, president, Havre, to provide telephone service for 83 subscribers. Includes 138 mi. of line in Chouteau, Hill and Liberty counties.
WB 7-10

★**SEWER SYSTEM, SEWAGE LAGOON— Hingham, Mont.**

Award to Frank Papilla, 125 N. Slide, Havre, $63,569, by John Hultin, clerk, Town

Hall, Hingham, for a municipal sanitary sewer system and sewage lagoon at Hingham.
SP 7-17. Previous report 7-7

●EQUIPMENT— Kalispell, Mont.

Bids will be opened 10 a.m., July 27, by Board of Flathead County Commissioners, clerk, Courthouse, Kalispell, for one two-to three-ton capacity longwheel base truck and one crawler type tractor under 45 hp. Specifications with City Engineer at above address.
RB 7-17

●WATER TANK— Kalispell, Mont.

Bids will be received until 12 noon by City Clerk, and will be opened 7:30 p.m., August 6, by City Council, Claude Walter, mayor, City Hall, Kalispell, for fabrication and erection of 100,000-gallon steel water tank in Highland Park Area of Kalispell. Specifications with Morrison-Maierle, Inc., consulting engineers, 910 Helena Ave., Helena, and with city engineer, City Hall, Kalispell. Bids to include footings for tank tower which will be 123' high, as well as riser and overflow pipes and valves.
RB 7-17

●CURB, GUTTER, STREET IMPROVEMENTS— Shelby, Mont.

Bids will be opened 8 p.m., July 23, by City Council, City Hall, Toole County, Shelby, for curb, gutter and street improvements in Shelby. Specifications with above office and with Wenzel & Co., consulting engineers, 41 Meadowlark Drive, Great Falls. $15 deposit. Bid bond 10%. Quantities: 3,204 c.y. excavation; 16,055 sq. yd. each sand choker course, pit-run gravel course, crushed gravel cushion course; 2,049; curb and gutter; 16,055 sq. yd. asphaltic pavement.
SP 7-18

▲PARK IMPROVEMENTS— West Glacier, Mont.

Bids received by Glacier National Park, Superintendent, West Glacier, for grading, drainage and surfacing of access roads, parking areas and sidewalks and for laying of log curbs at Rising Sun Area on St. Mary Lake on east side of the park. Bids opened July 11, ONLY BID: Blacktop Construction Co., Box 1353, Billings, $30,396.
RB 7-18. Previous report 7-3

WYOMING

★SEWAGE LAGOON— Buffalo, Wyo.

Award to Ralph Hepp, Buffalo, $11,097, by Town Council, City Hall, Buffalo, for sewage lagoon east of Buffalo.
EE 7-13. Previous report 6-29

●CLEARING, GRADING, DRAINAGE— Carbon County, Wyo.

Bids will be opened 2 p.m., July 24, by U.S. Forest Service, Donald E. Clark, regional forester, Bldg. 85, Denver Federal Center, Denver, Colo., for clearing, grading and draining 6.654 mile Sand Lake Road No. 582 in Carbon County, Wyo. Specifications with above office.
LY 7-18

★TRANSFORMERS— Guernsey, Wyo.

Award to Legnano Electric Corp., New York, N.Y., $71,640, fob Guernsey, by Bureau of Reclamation, Bldg. 53, Denver Federal Center, Denver, Colo., for furnishing one three-phase transformer with tank-mounted lightning arresters, for Guernsey substation, Transmission Division, Missouri River Basin Project; Inv. No. DS-4686.
SP 7-13. Previous report 6-13

▲SEWER SYSTEM—Yellowstone Park, Wyo.

Bids received by Yellowstone National Park, Edmund B. Rogers, superintendent, Yellowstone Park, for construction of cabin area water and sewer systems at Lake Lodge Area in Yellowstone National Park. Bids opened July 10. LOW BIDS: Landon Construction Co., 814 S. Durbin St., Casper, $74,472; Studer Construction Co., Route 1, Billings, $79,469; Holm-Sutherland Co., Inc., Box 578, Billings, $80,384.
SP 7-17. Previous report 6-30

UTAH

★WATER OUTLET REPLACEMENT— Midvale, Utah

Award to Okland Construction Co., 2261 Oneida Ave., Salt Lake City, $4,497, for replacement of triple-divide concrete water distribution outlet for Midvale, Sandy and Union-Jordan areas. Divide automatically allocates proper amount of water to each community from central water line leading to the region.
SC 7-14

▲ROAD CONSTRUCTION— Ogden, Utah

Bids received by Bureau of Public Roads, 473 Federal Bldg., Ogden, for construction of Intermountain School roads and streets, Box Elder County, Utah; Proj. No. IMS(1). Bids opened July 10. LOW BIDS: Fife Construction Co., Brigham City, $62,318; Gibbons & Reed, Box 2429, Salt Lake City, $68,922; Tiago Construction Co., 3399 S. 2nd West, Salt Lake City, $73,832.
SP 7-14. Previous report 6-30

●SEWER SYSTEM— Roy, Utah

Bids will be opened August 10 by City Council, City Hall, Roy, for construction of sewer district (Improvement District No. 3) in Roy. Specifications with John O. Reeves, city engineer, at above address.
SC 7-13. Previous report 7-10

★STREET CONSTRUCTION— Salt Lake City, Utah

Award to Inland Construction Co., 337 W. Hartwell Ave., Salt Lake City, $89,038, by Salt Lake City Corp., Roy W. McLeese, city engineer, City-County Bldg., Salt Lake City, for street improvements in Salt Lake City.
GH 7-6. Previous report 6-26

▲STATE HIGHWAY PROJECTS— Salt Lake City, Utah

Bids received by Utah State Road Commission, State Capitol, Salt Lake City, for highway construction on which bids opened July 10.

STATE ROAD NO. 47—Roadmix bituminous surfacing, 2½", on 25.597 miles between Bluff and Mexican Hat, San Juan County; FAP No. S-0402(1) 2nd Contract. Involves 2,905 ton bituminous material; 92,000 ton gravel.

LOW BIDS: Germer, Abbott & Waldron, Tremonton, $329,395; S. M. Sumsion & Sons, Springville, $342,875; W. W. Clyde & Co., Springville, $346,649.

STATE ROAD NO. 180—Road mix bituminous surfacing, 2", on 3.478 miles between Junction SR 73 and SR 180 to Ophir, Tooele County; FASP No. S-0107(1). Involves 385 ton bituminous material; 23,100 ton gravel.

LOW BIDS: Sorensen Construction Co., 4772 S. Redwood Road, Murray, $89,953; England Bros., Tooele, $91,958; Olof Nelson Construction Co., Logan, $93,976.

STATE STREET—Concrete bridge over 20' span and 3½" bituminous concrete paving for 2.015 miles between 3000 South St. and north Murray City limits, Salt Lake County; FAP No. U-032(1) 1st Contract. Involves 12,500 ton bituminous concrete; 845 ton bituminous material; 52,800 sq. yd. concrete base pavement.

LOW BIDS: Gibbons & Reed Co., Box 2429, Salt Lake City, $378,909; Enoch Smith Sons, 1441 Beck St., Salt Lake City, $431,881; W. W. Clyde & Co., Springville, $439,954.
SP 7-17. Previous report 6-27

●STATE HIGHWAY PROJECT— Salt Lake City, Utah

Bids will be opened 2 p.m. July 26, by Utah State Road Commission, State Capitol, Salt Lake City, for construction of a 3½" plantmix bituminous surfaced road, State Street between Midvale Junction and Draper Cross Roads, in Salt Lake County, Utah; State Proj. No. 1568. Specifications with above office. $2 deposit. Quantities: 42,300 ton plantmix bituminous surface; 2,881 ton bituminous material; 55,500 sq. yd. portland cement base course; 2,500 c.y. excavation; 21,600 lb. structural and reinforcing steel; 2,467' concrete pipe; 81 c.y. concrete.
SP 7-17

●STATE HIGHWAY PROJECT— Salt Lake City, Utah

Bids will be opened 2 p.m., July 31, by Utah State Road Commission, State Capitol, Salt Lake City, for construction of 6.353 mile of 3½" plantmix bituminous surfaced road and one concrete bridge over 20' span on U.S. Highway 91 between Wellsville and Logan, Cache County, Utah; FAP No. F-017-1(1). Specifications with above office. $2 deposit. Certified check cashier's check or bid bond 5%. Quantities: 55,900 ton plantmix bituminous surfacing; 3,757 ton bituminous material; 174,900 ton gravel; 1,376 c.y. concrete.
SP 7-18

★LIGHTNING PROTECTION—Tooele, Utah

Award to A. H. Peterson, 1029 Grove St., Meadville, Pa., $12,209, by Purchasing & Contracting Office, Tooele Ordnance Depot, Tooele, for lightning protection rehabilitation on twelve above-ground magazines at Tooele; Ord. No. 42-037-56-68. Bids opened June 26.
SP 7-13. Previous report 6-21

ALASKA

■SANITARY SEWERS—Anchorage, Alaska

Planholders announced for construction of sanitary sewers, including sewage lift station and sewer outfall line, Chester Creek and Airport Heights, Anchorage; Proj. Aaa 50-A-254. Bids will be opened 10 a.m., July 25, by Alaska Public Works, Box 1181, Juneau.

Planholders: Stock & Grove, Box 2051, Anchorage; Macri Construction Co., Box 1079, Anchorage; Westward Construction Co., Box 1452, Anchorage; H. D. Fowler, Box 3084, Seattle, Wash.; Pacific Alaska Construction Co., 1515 Center St., Tacoma, Wash.; William D. Burk, Box 1618, Anchorafe; Patti-MacDonald, Pouch No. 6, Anchorage; Fairbanks, Morse & Co., 668 Lane St., Seattle; Peter Kiewit Sons' Co., 1300 Aloha, Seattle; K. A. Sheppard, Box 97, Anchorage; Pacific Alaska Co., Box 676, Anchorage; Reiten Contractors, Box 1221, Anchorage; Morrison-Knudsen, Box 320, Anchorage; Western Construction Co., Box 2274, Anchorage; Johns-Manville-Norman, 777 Thomas St., Seattle; Denali Construction Co., Box 1111, Juneau; McCray Marine Co., 2370 Fairview Ave. W., Seattle.
JU 7-17. Previous report 7-5

★PUMP HOUSE— Anchorage, Alaska

Award to Pacific Alaska Contractors, 1515 Center, Tacoma, $40,650, by Alaska Public Works, 123 W. 3rd, Juneau, for construction of pump house in Anchorage; Proj. Aaa-50-A-157.
JU 7-17. Previous report 6-14

★GRADING, DRAINING, SURFACING— Juneau, Alaska

Award to M & B Construction Co., Inc., Lloyd Bldg., Seattle, $1,302,144, by Alaska Road Commission, 419 Federal Bldg., Juneau, for grading, drainage and bituminous surfacing on 29.28 mile Sterling B2, located between Hentons Lodge and 3 miles west of Naptowne, on Sterling Highway, Kenai Peninsula, Alaska; FHP No. 5-A6, B4.
JU 7-17. Previous report 6-27

●GRADING— Juneau, Alaska

Bids to be opened 9 a.m., July 30, by Bureau of Public Roads, Chr. F. Wyller, district engineer, 419 Federal Bldg., (Box 1511), Juneau, for grading 3.014 mi. Alaska Forest Development Road Project 153-B, Snug Harbor, Chugach National Forest, Alaska. Plans with division engineer.

Quantities: 19 acre clearing; 15.5 acre grubbing; 68,000 c.y. excavation; 14,000 cu. yd. mi. overhaul; 1,450' culvert pipe.
PS 7-13

▲STEEL AND CONCRETE BRIDGE— Juneau, Alaska

Bids received July 13 by Alaska Road Commission, 319 Federal Bldg., Juneau, for Campbell Creek bridge located at Mile 125.3 on Seward - Anchorage Highway. ONLY

BIDS: United Contractors, Fairbanks, $25,913; Swalling Construction Co., Inc., Box 1039, Anchorage, $37,081. Single span, 21'x34' steel I-beam bridge, concrete deck, abutments of built-up steel rail pipes.
JU 7-14. Previous report 6-27

★**WATER MAINS— Ketchikan, Alaska**

Award to Empire Construction Co., 0234 S.W. Bancroft, Portland, Ore., $80,346, by Alaska Public Works, John D. Argetsinger, acting director, Office of Territories, 123 W. 3rd, Box 1181, Juneau, for water main installations in Ketchikan; Project Aaa 50-A-210. JU 7-13. Previous report 6-8

★**AIRSTRIP IMPROVEMENTS Kiana, Alaska**

Award announced by Herman Porter, director, Alaska Aeronautics and Communication Commission, 202 Glover Bldg., Anchorage, for improvements, including lengthening and grading, on 4,000' airstrip at village of Kiana. Bids opened July 11. AWARD: B & R Tug & Barge Co., Kotzebue, $47,613. 2ND LOW: Lee Bros. Dredging Co., Solomon, $136,960. 3RD LOW: Yukon Navigation Co. and Ramstad Construction Co., Anchorage, $137,195 (joint venture).
HL 7-18

★**AIRPORT LANDING STRIP— Mekoryuk, Alaska**

Award to Yukon Navigation Co., Inc., and Westward Constructors, Box 587, Anchorage, $121,026 (joint venture), by Herman Porter, director, Alaska Aeronautics and Communications Commission, 202 Glover Bldg., Anchorage, for construction of an airport landing strip near Mekoryuk.
SP 7-13. Previous report 6-26

●**GRADING, DRAINAGE— Palmer, Alaska**

Bids will be opened 11 a.m., July 31, by Alaska Road Commission, 319 Federal Bldg., Box 1961, Juneau, for grading and drainage of Palmer-Matanuska Highway from Palmer City limits to a point 3.74 miles in a southwesterly direction. Specifications with above office. Bid bond 5%. Completion time 80 calendar days. Quantities: 44,500 c.y. unclassified excavation; 35,000 c.y. overhaul of borrow. HL 7-18

★**STREET, SEWER, WATER SYSTEM IMPROVEMENTS— Petersburg, Alaska**

Award announced by Alaska Public Works, John D. Argetsinger, acting director, 123 W. 3rd St., Juneau, for street, sewer and water system improvements in Petersburg; Proj. Aaa 50-A-19. Bids opened June 6. AWARD: Empire Construction Co., 0234 S.W. Bancroft, Portland, Ore., $441,810. 2ND LOW: Pacific Alaska Construction Co., 1515 Center, Tacoma, $427,001. 3RD LOW: Berg Construction Co., Box 276, Juneau, $451,990.
JU 7-13. Previous report 5-12

★**AIRPORT LANDING STRIP— Point Hope, Alaska**

Award to Ramstad Construction Co. and Yukon Navigation Co., Box 587, Anchorage, $92,854 (joint venture), by Herman Porter, director, Alaska Aeronautics and Communication Commission, 202 Glover Bldg., Anchorage, for construction of an airport landing strip near Point Hope. Bids opened June 15.
SP 7-18. Previous report 5-31

●**SANITARY SEWERS— Wrangell, Alaska**

Bids will be opened 10 a.m., August 22, by Alaska Public Works, John D. Argetsinger, acting director, Box 1181, Juneau, for construction of sanitary sewer in Wrangell; Proj. Aaa 50-A-104. Specifications with above office. $25 deposit. Bid bond or certified check 5%. Quantities: 314' of 15", 1471' of 12", 1,729' of 10", 14,209' of 8" and 4,943' of 6" sewer pipe; 67 manholes; move 325' existing water lines. SP 7-18

●■**ELECTRICAL DISTRIBUTION SYSTEM— Yakutat, Alaska**

Bid opening extended from July 18 to 10 a.m., August 1, by Alaska Public Works, John D. Argetsinger, acting director, in the mailroom, 123 W. 3rd St., Box 1181, Juneau, for electrical distribution system in Yakutat; Proj. Aaa 50-A-39. Specifications with above office. $25 deposit. Bid bond or certified check 5%.

Planholders: Southeastern Electric, 918 Water St., Ketchikan; Graybar Electric, Box 3127, Seattle, Wash.; Line Material Co., 700 W. Michigan St., Milwaukee, Wis.; City Electric of Anchorage, 2921 13th Ave. S.W., Seattle; Charles A. Gerard, 4727 Findlay St., Seattle. JU 7-18. Previous report 6-13

UNIT BIDS

Grading, Road Construction

Wyoming

The Bureau of Public Roads, K. S. Chamberlain, division engineer, Denver, Colo., opened bids May 23, 1956, for construction 46 miles of Riverton-Gas Hills access road, Fremont County, Wyoming; Project No. A-AA-1 (1). The contract was awarded to the low bidder. Following is a tabulation of the bids received:

(1) J. F. England's Sons, Inc., and Robert A. Millard, Rapid City, S. Dak., $189,749.
(2) Husman Bros. Inc., Sheridan, Wyo., $211,903.
(3) Platte Valley Construction Co., Grand Island, Neb., $219,099.
Taggart Construction Co., Cody, Wyo., $233,517.
Knisley-Moore Co., Douglas, Wyo., $257,290.
Gilpatrick Construction Co., Riverton, Wyo., $266,937.
Boatright-Smith Construction Co., Rawlins, Wyo., $269,537.
Lewis-McNeish Construction Co., Bountiful, Utah, $275,440.
W. E. Barling, Inc., Meeteetse, Wyo., $291,331.

	(1)	(2)	(3)
250 c y uncl excav for structs	1.00	4.00	3.00
4,100 units wtrg	2.00	2.00	3.50
101,00 c y sel borrow surf course	.22	.37	.35
500,000 c y mi haul surf matl	.115	.08	.12
65.2 mbm trtd tbr creosote preservative	380.00	500.00	400.00
903', 18" corr galv sht mtl culv pipe	3.25	7.00	4.00
40', 48" corr galv sht mtl culv pipe	13.50	25.00	17.00
84', 60" corr galv sht mtl culv pipe	24.00	40.00	27.00
92', 84" corr galv sht mtl culv pipe	40.00	60.00	43.00
1,200' trtd tbr piling	3.50	4.00	4.00
49 pile shoes	5.00	7.00	5.00
600 c y loose riprap	5.00	10.00	10.00
2 cattle guards	1800.00	2700.00	2400.00
Lump Sum Bids			
misc force account wk	1,000	1,000	1,000
providing and maintening wtr plant or plants	2,500	800	300

Steel and Concrete Bridges

Montana

Montana State Highway Commission, Frank G. Connelly, chairman, Helena, Mont. opened bids June 4, 1956 on two 156' steel and concrete bridges on the Crow Agency-Hardin and Wyoming State Line-Crow Agency roads, Big Horn County, Mont. Contract was awarded to the low bidder. Following is a tabulation of the bids received:

(1) F. L. Flynn Co., Billings, Mont., $138,868.
(2) Walter Mackin & Son, Billings, Mont., $146,946.
(3) Cop Construction Co., Billings, Mont., $147,973.
Husman Bros. Inc., Sheridan, Wyo., $161,167.
N. A. Nelson Construction Co., Sheridan, Wyo., $166,438.

	(1)	(2)	(3)
146,834 lb reinf stl	.18	.17	.20
330 c y cl A concr	70.00	70.00	75.00
508.4 c y cl AD concr	100.00	90.00	100.00
619' stl bridge rail	10.00	12.00	9.00
720 c y struct excav	8.00	16.00	14.00
2040 c y uncl excav	.75	1.50	1.00
60,800 lb frnsh stl bear piles	.11	.15	.10
783' drive stl bear piles	2.00	3.00	2.50
Lump Sum Bids			
remove exstg struct I-FI 188(7)2	5,000	6,000	4,000
remove struct MTN-IN212(12)2	10,000	12,000	7,000

Grading, Gravel Surfacing, Draining

Montana

Montana State Highway Commission, Frank G. Connelly, chairman, Helena, Mont., opened bids June 4, 1956 for 11.279 mile grading, gravel surfacing, draining on Grass Range-Malta Road, Phillips County. The contract was awarded to the low bidder. Following is a tabulation of the bids received:

(1) Summitt Construction Co., Rapid City, South Dak, $473,766.
(2) Stanley H. Arkwright, Inc., Billings, Mont., $507,973.
(3) Jones-Hinckley & Jones, Inc., Billings, Mont., $537,267.
S. Birch Inc., and S. Birch & Sons, Great Falls, Mont., $556,057.
Peter Kiewit Sons' Co., Billings, Mont., $571,101.
Earl L. McNutt Co., Eugene, Ore., $589,248.
Robertson & Cave, Inc., Great Falls, ont., $595,237.
McLaughlin Inc., Great Falls, Mont., $619,874.

	(1)	(2)	(3)
909,600 c y uncl excav, borrow	.265	.23	.26
3237 c y culv excav	2.16	2.20	2.00
1755 c y grvl backfill	4.32	2.22	3.00
37,318 mi yd overhaul	.18	.22	.18
81,292 ton type B top course	.78	1.11	1.30
1906 c y binder	.55	.01	.60
3812 mi yd overhaul on binder	.15	.01	.20

15,270 M gal wtrg	1.62	2.22	2.00
48', 12" corr mtl pipe culv	2.16	4.44	3.00
126', 18" same	3.13	5.55	4.50
1298', 24" same	5.07	6.66	7.00
232', 30" same	6.16	8.88	9.00
84', 36" same	10.80	11.11	14.00
542', 36", 10 gauge same	12.96	13.13	16.00
76', 42", 10 gauge same	13.50	14.14	18.00
96', 48" 10 gauge same	15.66	15.15	20.00
600', 60" struct plate pipe arch culv, 10 gauge	33.75	45.45	40.00
284', 72" same	39.42	55.55	45.00
125', 90" same	50.76	66.66	55.00
73', 96" same	52.92	77.77	60.00
80', 108" same	58.86	85.85	68.00
144', 120" same	62.64	88.88	78.00
192', 7'8"x5'5" rise, 10 gauge same	46.44	61.61	56.00
72', 12'6"x7'11" rise, 7 gauge same	79.92	88.88	95.00
148', 14'1"x8'9" rise, 7 gauge same	91.80	99.99	120.00
65' relay pipe culv	5.40	5.55	3.00
62,400 lb reinf stl	.14	.14	.13
250' stl hand rail	16.50	15.00	15.00
92', 12" bit coated corr sheet metal culv pipe type 1	2.35	3.50	3.50
700', 18" bit coated corr sheet metal culv pipe type 1	3.75	4.50	4.75
232', 18" bit coated corr sheet metal culv pipe type 1	4.55	4.50	4.75
1,400', 24" bit coated corr sheet metal culv pipe type 1	5.15	6.50	7.00
162', 24" bit coated corr sheet metal culv pipe type 1	6.85	6.50	7.00
168', 24" bit coated corr sheet metal culv pipe type 1, asbestos bonded	5.80	8.00	8.00
202', 36" bit coated corr sheet metal culv pipe type 1	8.85	11.00	13.00
120', 8" bit coated perforated corr galv sheet metal pipe underdrain	2.25	2.00	6.00
126', 18" half round spillways and gutters	3.15	3.00	4.00
550' beam guard rail	3.00	5.00	3.00

Plantmix Bituminous Paving

Idaho

U. S. Atomic Energy Commission, Idaho Falls, Ida., opened bids in May, 1956 for bituminous surfacing of Lincoln Boulevard and certain other roads at the National Reactor Testing Station, Ida. The contract was awarded to the low bidder. Following is a tabulation of the bids received.

(1) Sorenson Construction Co., Murray, Utah, $188,932.
(2) Holmes Construction Co., Heyburn, Idah., $203,207.
(3) Carl E. Nelon Construction Co., Logan, Utah, $224,583.
Robert V. Burggraf Co., Idaho Falls, Idah., $246,530.
Morrison-Knudsen Co., Inc., Boise, Idah., $247,730.
Aspjhalt Paving and Construction Co., Boise, Idah., $270,089.

	(1)	(2)	(3)
1000 bbl liquid asph, tack coat MC-1	6.14	7.15	7.50
250 bbl same, prime coat MC-2	6.14	7.15	8.50
250 bbl same, seal, RC-4	6.45	7.60	10.00
11,000 bbl penetration asph 150-200	5.67	6.72	6.00
37,500 ton plantmix bit surf course cl A	2.75	2.80	3.40
11,000 ton cr grvl surf, ¾" for shoulders	1.15	1.07	1.55
300 M gal wtrg for shoulders	2.00	2.00	3.00

Grading, Asphaltic Concrete Surfacing, Overcrossing

Oregon

The Bureau of Public Roads, Portland, Ore., opened bids June 22, 1956, for grading 3.604 mi. and asphaltic concrete surfacing 2.883 mi. and overcrossing on Mt. Hood Highway, Mt. Hood National Forest, Clackamas County, Ore. Following is a tabulation of the bids received:

(1) Parker-Schrom Co., Portland, Ore., $632,465.
(2) Rogers Constr. Co., Portland, Ore., $698,382.
(3) Fred H. Slate Co., and E. C. Hall Co., Portland, Ore., $709,911.
K. L. Goulter & Son, Seattle, Wn., $729,333.
J. N. Conley, Portland, Ore., $756,358.
Kuckenberg Constr. Co., Portland, Ore., $767,376.
C. J. Eldon, Portland, Ore., $959,418.

	(1)	(2)	(3)
62 ac clg	450.00	700.00	750.00
45 ac grbg	350.00	800.00	350.00
200 sq ft removal of trees and snags	5.00	6.00	4.00
578,000 c y uncl excav	.65	.72	.75
800 c y uncl excav for struct	2.50	4.00	4.00
200 c y uncl excav for struct (overcross)	10.00	10.00	15.00
972,000 sta yds overhaul	.01	.01	.01
1,000 c y mi overhaul	.20	.20	.30
60 c y fdn fill	2.50	10.00	6.00
2 ac pit-clrg (art. 6.1) for items 52A and 114	500.00	1000.00	1000.00
6,000 c y pit strpg (art. 6.1) for items 52A and 114	.30	.40	.50
26,000 c y cr grbl or cr stone base course, C1 2, grade B-1	2.90	2.50	2.65
12,400 c y cr grvl or cr stone base course, C1 2, grad D-1	3.00	2.50	2.75
110 tons rapid-curing cut-back asph, grade 2 for prime coat	45.00	40.00	60.00
1,685 c y (cl A pvmt) aggr for desig AT-36 surf trmt	4.00	5.00	4.50
140 tons asph, grade 150-200 for cl A surf trmt	40.00	45.00	45.00
323 c y concr cl A	85.00	76.00	78.00

Bank Protection Works

Oregon

The Corps of Engineers, Portland District, Portland, opened bids June 7, 1956 for repair and construction of bank protection works along both banks of the Long Tom river, downstream from Fern Ridge Reservoir; comprised of Part A Ferguson Drop Location, and Part B, Stroda Drop Location in Lane County, and Part C, Bundy Bridge Location in Benton County, Willamette River Basin, Ore. CIVENG-35-026-56-234. Following is a tabulation of the bids received:

(1) Floyd Grahm Construction Co., Lebanon, Ore., $31,206.
(2) C. J. Eldon, Portland, Ore., $34,134.
(3) L. C. Daniel, Eugene, Ore., $35,013.
L. P. Stubblefield, Eugene, Ore., $37,551.

	(1)	(2)	(3)
Part "A" Ferguson Drop Location			
710 c y excav	.60	1.00	1.00
1,100 c y embankment from borrow	1.25	1.75	1.50
1,390 c y stone blanket	3.50	3.70	3.75
1,400 c y dumped stone revetment	3.50	3.80	3.75
Part "B" Stroda Drop Location			
980 c y embankment from borrow	1.50	2.00	1.75
1,120 c y dumped stone revetment	3.25	4.50	3.35
Part "C" Bundy Bridge Location			
4,940 c y embankment from borrow	1.00	.90	1.25
2,740 c y dumped stone revetment	3.50	3.50	3.85

Access Road Tunnel

Wyoming

The Bureau of Reclamation, L. N. McClellan, Chief Engineer, Denver, Colo., opened bids May 22, 1956 for construction of access road tunnel, Fremont Canyon Power Plant, near Casper, in Natrona County, Spec. No. DC-4679. Following is a tabulation of the bids received:

(1) Guy H. James, Construction Co., Oklahoma City, Okla., $393,700.
(2) Lipsett Inc., Yankton, South Dakota, $446,095.
(3) Mountain States Construction Co., Denver, Colo., $457,263.
Boyles Bros. Drilling Co., Salt Lake City, Utah, $535,652.
Colorado Construction, Inc., Denver, Colo., $595,608.
Long Construction Co., Inc., Billings, Mont., $653,020.
Northwood Inc., Denver, Colo., $676,522.
M. M. Saliba Co., & Norman I. Fodel, Inc., Gardena, Calif., $694,360 (joint venture).
Lowdermilk Bros., Englewood, Colo., $737,235.
C. F. Lytle Co., Sioux City, Iowa, $976,192.

	(1)	(2)	(3)
7,000 c y excav, removing talus, first 7,000 c y	2.20	4.00	4.97
7,00 c y same, over 7,000 c y	2.20	1.00	1.38
9,500 c y excav for tunnel approaches, first 9,500 c y	3.00	12.35	7.00
9,500 c y same, over 9,500 c y	2.35	4.00	1.76
18,000 c y excav in tunnel	16.00	12.35	16.41
44,000 lb frnsh, place permanent struct stl supports	.20	.30	.30
31' frnsh and lay 13"x22" No. 16 gauge corr mtl pipe arch	8.00	10.00	23.00
160 c y concr in tunnel portals	50.00	70.00	80.00
230 bbl frnsh and handle cem	6.25	7.00	7.00
16,000 lb frnsh and place reinforcement bars	.15	.20	.20
550 c y grvl or cr rk surfacing	5.00	5.00	3.20

Advertisements for Bids

Advertisements reaching us not later than Wednesday noon will appear the same week.

THE RATE for Advertisements for Bids is 35 cents per line for the first insertion; 25 cents per line for each insertion thereafter.

GRADING, DRAINING, SURFACING
BIDS CLOSE 11 A. M., S.T., AUGUST 1
Yakima, Washington
NOTICE TO CONTRACTORS

NOTICE is hereby given that sealed bids will be received by the Board of County Commissioners at their office in the County Court House at Yakima, Washington, until 11:00 A.M. (Standard Time) August 1, 1956, for the letting of two contracts involving the following work:

Contract No. 1—

County Road Improvement District No.'s 3, 4, 5, 6, 7 and 8 for the grading, draining and manufacturing and placing of surfacing material and placing of a Bituminous surfaces on streets and roads in the vicinity of Yakima with the following principle quantities: Unclassified Excavation 6760 cu. yds., Roadway 87.4 (100' sta.); Ballast in place 11,600 Tons; Top Course in Place 1,550 Tons, Base Course in Place 2395 Tons; Preparation of Roadway 58.7 (100' stas.); Type I-1 Bituminous surfacing in place 2325 Tons; Concrete curbs in place 11,388 Lin. Ft. Mo-3 Bituminous Road oil in place 58.6 Tons; and concrete pipe in place 1560 Lin. Ft.

Contract No. 2—

Local County Road Project Special Maintenance No. 252 Unit-2 for loading, hauling and truck spreading of surfacing material on County Roads in the vicinity of Sunnyside and Grandview, Washington, with the following principle quantities: Loading of surfacing material from stockpile 11,840 Cu. yds. and hauling 50,600 cu. yds. miles.

Sets of Plans and Specifications for each contract may be obtained from the County Road Engineers office in Yakima at $2.00 per contract.

All bid proposals shall be accompanied by a bid proposal deposit in cash, certified check or cashiers check, payable to the Yakima County Treasurer in an amount equal to five percent (5%) of the amount bid.

The deposit will be forfeited to the County if the successful bidder fails to enter into a contract and furnish a satisfactory performance bond within ten (10) days from date of award.

The Board of County Commissioners expressly reserves the right to reject any and all bids or parts thereof.

HAROLD PURDIN,
County Auditor.
By Lois Mathus,
Deputy County Auditor.

5552—7-18, 25

GRADING
BIDS CLOSE 9 A.M., JULY 30
Juneau, Alaska
NOTICE TO CONTRACTORS

DEPARTMENT OF COMMERCE, BUREAU OF PUBLIC ROADS, July 9, 1956. SEALED BIDS will be received at the office of Mr. Chr. F. Wyller, District Engineer, Bureau of Public Roads, Room 419, Federal Building, P. O. Box 1511, Juneau, Alaska, until 9:00 A.M., July 30, 1956, and then publicly opened for furnishing the materials and performing the work for constructing Alaska Forest Development Road Project 153-B, Snug Harbor, 3.014 miles of grading, Chugach National Forest, Third Judicial Division, Territory of Alaska, involving 19 Acres Clearing; 15.5 Acres Grubbing; 68,000 Cu. Yds. Excavations; 14,000 Cu. Yd. miles Overhaul; 1450 Lin. feet Culvert Pipe, and other small items. Plans and specifications may be examined at the Bureau of Public Roads, 419 Federal Building, Juneau, Alaska; Bureau of Public Roads, Seward, Alaska; Associated General Contractors of America, 220 West Harrison Street, Seattle, Washington; Associated General Contractors of America, Multnomah Hotel, Portland, Oregon; Associated General Contractors of America 304-306 Central Building, Anchorage, Alaska. Plans, Proposal Forms and Specifications will be furnished upon request to any bona fide or previously qualified contractor by the District Engineer, Room 419 Federal Building (P.O. Box 1511), Juneau, Alaska. Chr. F. Wyller, District Engineer.

5547—7-12, 24

HIGH SCHOOL
BIDS CLOSE 2 P.M., JULY 27
Roundup, Montana
NOTICE TO CONTRACTORS

Sealed bids will be received by the Board of Trustees of School District No. 55, Musselshell County, Roundup, Montana, at the office of the Superintendent of Schools until 2:00 P.M. of July 27, 1956, and then publicly opened and read, for the construction of the Roundup High School at Roundup, Montana, all according to plans and specifications prepared by van Teylingen-Knight and van Teylingen, Architects and Engineers.

Separate bids will be received for the following divisions of the work:

1. General Contract
2. Mechanical Contract
3. Electrical Contract

Copies of said plans and specifications may be obtained at the office of the Architects, 413 Medical Arts Building, Great Falls, Montana, upon deposit of $40.00.

Upon prompt return in good condition of said plans and specifications, bidders shall be refunded all and non-bidders one-half of said deposit.

Each bid shall be accompanied by a certified check in an amount not less than 5% of the bid plus any alternates, and must show the Contractor's license number, and all successful bidders will be required to conform to all State Laws governing labor employed on public works.

The Board of Trustees reserves the right to reject any or all bids, to waive irregularities and to accept any bid which it deems most advantageous.

The Board of Trustees
SCHOOL DISTRICT NO. 55
John G. Liggett, Chairman

ATTEST: Eileen Stortz, Clerk

5539—7-7, 14, 21, 26

STREETS, UTILITIES, RESIDENCES
BIDS CLOSE AUGUST 14
Weaverville, California
NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-4722) will be received at Weaverville, California, until August 14, 1956, for furnishing labor and materials for Streets, Utilities Residences, and Miscellaneous Buildings for Trinity Government Community Facilties, Trinity River Division, Central Valley Project, California. Location near Lewiston, California. Principal items are 120,000 cu. yds. excavation; 12,600 lin. ft.—furnishing and erecting wire-mesh type fencing; 34,500 lin. ft.—excavation and backfill of pipe trenches; 15,500 lin. ft.—furnishing and laying 4-, 6-, and 8-inch diameter sewer pipe; 9,325 lin. ft.—furnishing and laying 6-, 4-, and 3-inch diameter water pipe and fittings; 170 tons-liquid asphalt MC-2 and MC-4; 90 buildings—constructing two and three bedroom residences; 8 buildings—constructing miscellaneous buildings; 146 carports — constructing carports of various sizes; and other work. Completion time 360 days. For particulars, address Bureau of Reclamation, P. O. Box 2511, Sacramento, California; Weaverville, California; or Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.

5550—7-21

SIPHON
BIDS CLOSE AUGUST 21
Ephrata, Washington
NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-4620) will be received at Ephrata, Washington, until August 21, 1956, for furnishing labor and materials for the construction of Wahluke Siphon, Station 0/00 to Station 159/05.13, Wahluke Branch Canal, and PE 16.4 Wasteway, Station 577+40 to Station 677+25, Columbia Basin Project, Washington. Location south of Othello, Washington. Principal items are 281,000 cu. yds. excavation; 7,500 cu. yds. concrete in structures; 2½ miles concrete pipe in siphon, 15 ft. 4-inch diameter, alternative monolithic or precast; ½ mile plate steel pipe in siphon; and other work. Completion time 800 days. For particulars, address Bureau of Reclamation, P. O. Box 368, Ephrata, Washington; or Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.

5545—7-21

LATERALS, SUBLATERALS
BIDS CLOSE AUGUST 23
Lindsay, California
NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-4732) will be received at Lindsay, California, until August 23, 1956, for furnishing labor and materials for Shafter-Wasco Laterals and Sublaterals; and completion of Laterals 134.4 and 137.2, Shafter-Wasco Irrigation District, Central Valley Project, California. Location near Wasco, California. Principal items are earthwork for and furnishing and laying 26 miles of concrete pipe, 27 inches and larger, under Schedule No. 1; and 82 miles of pipe, 24 inches and smaller, under Schedule No. 2. Diameters vary from 12- to 72-inches with option for use of asbestos-cement pipe for diameters of 24 inches or less. Work includes installation of pumps, valves, meters, and other work. Completion time 650 days. For particulars, address Bureau of Reclamation, P. O. Box 525, Lindsay, California; or Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.

5549—7-21

GRADING, DRAINING
BIDS CLOSE 11 a.m., July 31
Juneau, Alaska
NOTICE TO CONTRACTORS

Department of the Interior, Alaska Road Commission. Date: July 10, 1956, Juneau, Alaska. Sealed bids, in single copy for furnishing all labor, equipment, and materials and performing all work for the Reconstruction of Palmer-Matanuska Highway project described herein will be received until 11:00 a.m., July 31, 1956, in room 319, Alaska Road Commission offices, Federal Building, Juneau, Alaska, and then publicly opened. Plans and specifications for the project may be obtained from the Alaska Road Commission, P. O. Box 1961, Juneau, Alaska. Plans shall be returned to the Alaska Road Commission District Office, Anchorage, Alaska. No deposit will be

required, but if plans are not returned in good condition within thirty days after date of bid opening, the planholder will be billed for the actual cost of the plans. A guarantee of not less than five percent (5%) of the total amount bid will be required with each bid. Grading and Drainage of the Palmer-Matanuska Highway from the Palmer City limits to a point 3.74 miles in a south-westerly direction. Principal items of work include 17,000 cu. yds. Unclassified Excavation, 27,500 cu. yds. Unclassified Excavation for Borrow, 35,000 cu. yd. mi. Overhaul of Borrow. Work shall be started within 20 days after date of receipt of Notice to Proceed and all work shall be completed within 80 days after date of receipt of Notice to Proceed. A. F. Ghiglione, Director.
5551—7-21

STATE HIGHWAY CONSTRUCTION
BIDS CLOSE 9:30 A.M., JULY 26
Helena, Montana
NOTICE TO CONTRACTORS

Sealed bids on the following projects will be received by the Montana Highway Commission at the offices of said Commission in the City of Helena until 9:30 A.M., on July 26, 1956. The proposals will be publicly opened and read immediately thereafter.

1. **F 2(13)**—Grade, gravel surfacing, bituminous surface treatment and drain 11.266 miles on the Baker-Wibaux Road in Wibaux County involving about 341,105 cu. yds. excavation; 280 cu. yds. gravel backfill; 40,962 mi. yds. overhaul; 38,501 tons crushed gravel; 223,359 tons selected borrow base course; 66,907 gals. liquid asphalt; 66,907 gals. emulsified asphalt; 9,872 M gals. watering; 1,625 units rolling; 500 lin. ft. steel guard rail; 1,066 lin. ft. reinforced concrete pipe culvert; 70 lin. ft. corrugated metal pipe culvert; 286 lin. ft. structural plate pipe; and other items. Project to be completed in 240 calendar days.

2. **F 43(12)**—Grade, gravel surfacing, bituminous surface treatment, construction of one 38.0' treated timber bridge and drain. 5.256 miles on the Wisdom-Divide road in Beaverhead Countiy involving about 251,465 cu. yds. excavation; 100 cu. yds. gravel backfill; 35,784 mi. yds. overhaul; 88,833 tons crushed gravel; 30,409 gals. liquid asphalt; 30,409 gals emulsified asphalt; 5,534 M gals. watering; 1,066 units rolling; 1,642 lin. ft. reinforced concrete pipe culvert; 96 lin. ft. corrugated metal syphon pipe; 24.445 MBM treated timber; 0.607 MBM untreated timber; 576 lbs. structural steel; 100' 25' treated timber piles; 690' 30' treated timber piles; and other items. Project to be completed in 150 calendar days.

3. **F 43(13)**—Grade, gravel surface, bituminous surface treatment, the construction of one 38.0' treated timber pile bridge and drain 0.566 mile on the Wisdom-Divide Road in Silver Bow County involving about 41,506 cu. yds. excavation; 5,486 mi. yds. overhaul; 20 cu. yds. random riprap; 2,500 tons crushed gravel; 7,739 tons selected borrow base course; 4,117 gals. liquid asphalt; 4,117 gals. emulsified asphalt; 820 M Gals. watering; 122 units rolling; 464 lin. ft. reinforced concrete pipe culverts; 281 lin. ft. corrugated metal pipe culverts; 21.284 MBM treated timber; 0.607 MBM untreated timber; 675' 25.0' treated timber piles; and other items. Project to be completed not later than sixty (60) days after the issuance of a proceed order in 1957.

4. **F 62(9)**—Grade, gravel surfacing, bituminous surface treatment and drain 8.249 miles on the Shelby-Chester Road in Toole and Liberty Counties involving about 216,-276 cu. yds. excavation; 389 cu. yds. gravel backfill; 11,266 mi. yds. overhaul; 31,981 tons crushed gravel; 115,019 tons selected borrow base course; 108,858 gals. liquid asphalt; 6,160 M gal. watering; 1,170 units rolling; 1,284 lin. ft. reinforced concrete pipe culverts; 360 lin. ft. structural plate pipe culverts; and other items. Project to be completed in 200 calendar days.

5. **FI-FGI 70(11)U3, I 70(13)U2, U 70(14)U3 and U-UG 279(3)U4** Surfacing and bituminous surface treatment on 4.383 miles on the Brewery Bypass-Butte Road and the Butte West Road in Silver Bow County, involving about 204,474 tons crushed gravel; 68,892 gals. liquid asphalt; 273,017 gals. emulsified asphalt; 688 gals. bituminous material additive; 4,090 M gals. watering; 1,780 units rolling; 7,379 lin. ft. concrete median curb; 3,-447 lin. ft. concrete integral curb and gutter; 2,463 sq. yds. concrete sidewalk; and other items. Project to be completed by July 31, 1957.

6. **F 267(9)U1**—Grade, gravel surface, and drain 7.08 miles on the Ovando-Rogers Pass Road in Powell countiy involving about 410,874 cu. yds. excavation; 805 cu. yds gravel backfill; 312 cu. yds. sand backfill; 50,546 mi. yds. overhaul; 46,714 tons top course; 1,049 units rolling; 3,596 lin. ft. reinforced concrete pipe culverts; 376 lin. ft. structural plate pipe culverts; 490 lin. ft. helically corrugated metal perforated pipe culvert; and other items. Project to be completed in 250 calendar days.

7. **S 36(6)**—Grade, gravel surfacing and drain 4.032 miles on the Drummond-Helmuilk-Blackfoot Canyon Road in Powell County involving about 310,923 cu. yds. excavation; 282 cu. yds. gravel backfill; 25,-109 mi. yds. overhaul; 25,880 crushed gravel; 5,160 M gals. watering; 737 units rolling; 258 lin. ft. corrugated metal pipe culverts; 1,122 lin. ft. reinforced concrete pipe culverts; 180 lin. ft. standard sectional reinforced concrete pipe culverts; and other items. Project to be completed in 150 calendar days.

8. **S 40(2)U2**—Grade, gravel surfacing, bituminous surface treatment, and drain 7.833 miles on the Belgrade-Menard Road in Gallatin County involving about 161,467 cu. yds. excavation; 91,740 cu. yds. designated borrow; 225 cu. yds. gravel backfill; 138,026 mi. yds. overhaul; 192,234 mi. yds. overhaul on designated borrow; 97,625 tons crushed gravel; 46,225 gals. liquid asphalt; 46,073 gals. emulsified asphalt; 5,725 M gal. watering; 1,139 units rolling; 1,318 lin. ft. reinforced concrete pipe culverts; 1,020 lin. ft. corrugated metal pipe culverts; 128 lin. ft. structural plate pipe culverts; and other items. Project to be completed in 180 calendar days.

9. **S 120(1)U2, S SG 169(1)U4 and S 170(1) U3**—seal coat oiling on the Stevensville-Three Mile Creek Road in Ravalli County, Superior South and East Road in Mineral County and the Three Mile Creek-Florence Road in Ravalli County a total distance of 11.640 miles involving about 1,907 tons hauling and placing cover material; 43,412 gals. emulsified asphalt; 100 gals. liquid asphalt; 59 hours watering; 75 units rolling; and other items. Project to be completed by September 15, 1956.

10. **S 282(3) and S 337(7)**—Grade, gravel surfacing, plant mix oiling, and drain 10.708 miles on the Malta-North and Malta-Loring Roads in Phillips County involving about 47,123 cu. yds. excavation; 100 cu. yds. gravel backfill; 40,501 mi. yds. overhaul; 80,770 tons selected borrow base course; 43,976 tons crushed gravel; 235,078 gals. liquid asphalt; 40,828 gals. emulsified asphalt; 383 hours blading; 144 hours scraping; 3,120 M gal. watering; 784 units rolling; 318 lin. ft. corrugated metal pipe; 1,489 lbs. structural steel; 4.475 MBM treated timber; 0.092 MBM untreated timber; 1 50.0' treated timber pile; 175 sq. yds. grouted riprap; and other items. Project to be completed by September 15, 1957.

11. **S 348(7) and S 348(8)**—Seal coat oiling on 6.705 miles on Great Falls-Highwood road in Cascade County and grade, gravel surfacing, plant mix oiling and drain 7.039 miles on the Great Falls-Highwood Road in Cascade County involving about 162,178 cu. yds. excavation; 13,710 mi. yds. overhaul; 99,756 tons crushed gravel; 132,548 gals. asphalt cement; 84,483 gals. liquid asphalt; 4,222 M gal. watering; 801 units rolling; 306 lin. ft. reinforced concrete pipe culverts; 370 lin. ft. corrugated metal pipe culverts; and other items. Project to be completed by September 15, 1957.

The above listed quantities are approximate only.

All bid proposals shal lbe accompanied by a certified or cashier's check, cash, postal money order, bank money order, or bid bond in the amount of at least 5% of the bid. Should the successful bidder fail to enter into his contract and furnish a satisfactory performance bond within the time stated in his proposal, the bid deposit shall be forfeited to the State Highway Commission of Montana.

Prequalification of bidders at least 72 hours prior to the opening of bids is required.

Plans, specifications, forms of contract and bond, proposals blanks, and full instructions are on file for examination and may be obtained at the office of the State Highway Commission in Helena, Montana. Plans and specifications for all Federal Aid Projects are also on file and may be examined in the office of the Bureau of Public Roads at Missoula.

Frank G. Connelly, Chairman
Scott P. Hart, State Highway Engineer
5544—7-14, 21

WOMEN'S DORMITORY
BIDS OPEN 10 A.M., P.S.T., AUGUST 15
Juneau, Alaska
NOTICE TO CONTRACTORS

Project Aaa. 50-A-219, Women's Dormitory, College, Alaska. Date June 27, 1956. Name and location of project, Women's Dormitory, University of Alaska, Project Aaa 50-A-219, College, Alaska. Department or Agency, Alaska Public Works, Office of Territories, Department of the Interior, By (Issuing office) John D. Argetsinger, Acting Director, Alaska Public Works, Office of Territories, Department of the Interior, Post Office Box 1181, Juneau, Alaska. **Sealed bids** in single copy for furnishing all labor, equipment, and materials and performing all work for the project described herein will be received until 10:00 A.M. Pacific Standard Time, August 15, 1956, in the mailroom of the Office of the Director, Alaska Public Works, Office of Territories, Department of the Interior, 123 West Third Street, P. O. Box 118, Juneau, Alaska and then **publicly** opened and read aloud. Information regarding bidding material, bid guarantee, and bonds follows: Plans and specifications and other proposed contract documents are open for public inspection at the Director's office, Juneau, Alaska; at Room 2723, Interior Bldg., Washington 25, D. C., at the Area Engineer's Office, Alaska Public Works, Room 220, Chena Bldg., 510 Second Ave., P. O Box 1189, Fairbanks, Alaska; and Associated General Contractors of America offices as follows: Seattle Chapter, Construction Center, Third Avenue West and Harrison St., Seattle, Wash.; Mountain Chapter, 219 Benjamin Franklin Hotel, Seattle, Wash.; Tacoma Chapter, 1605 Center St., Tacoma 3, Wash.; Portland Chapter, Suite 112, Multnomah Hotel, Portland, Oregon; and the Alaska Chapter, Anchorage, Alaska; at the Plan Bureau, 2413 Western Ave., Seattle, Wash. and Builders Exchange Cooperative, 317 Builders Exchange Bldg., Portland, Oregon. A set of such documents may be procured from the office of the Director at Juneau, Alaska, upon deposit of $25.00, all of which will be refunded upon the return of the plans and specifications in good condition within twenty (20) days from date of bid opening. Each bid must be accompanied by a satisfactory bid security (certified check or bid bond) in an amount not less than 5 per cent of the total bid in dollars and cents. No bid will be withdrawn until thirty days after the scheduled closing date for the receipt of bids. The successful bidder will be required to furnish a performance bond and payment bond, each in the amount of 100 per cent of the contract price. The Government reserves the right to award a contract for the project on the

Have You Changed Your Address?

For uninterrupted service please send old and new address to

PACIFIC ARCHITECT AND BUILDER

2418 3rd Avenue Seattle 1, Wash.

basis of the acceptance of any or all of the alternates, whichever course is in the best interest of the Government. DESCRIPTION: Women's Dormitory, Project Aaa. 50-A-219, College, Alaska, three story steel frame, concrete and masonry dormitory building with approximately 24,500 sq. ft. of floor area. Information regarding liquidated damages (if any), payments, etc., is attached or made a part of the specifications. Bids shall be submitted on the forms furnished or copies thereof.
5540—7-7, 14, 21

STATE HIGHWAY CONSTRUCTION
BIDS CLOSE 10 A.M., JULY 31
Olympia, Washington
NOTICE TO CONTRACTORS

Sealed bids will be received by the Washington State Highway Commission at Olympia, Washington, on Tuesday, July 31, 1956, until 10:00 A.M. for the construction of the following improvements and will then and there be opened and publicly read:

1. Clearing, Draining, Grading and Surfacing on 5.528 miles of Secondary State Highway No. 13-A in Pacific County, AIRPORT ROAD TO NORTH RIVER, FAS No. S-0453(4), involving about 46 acres of Clearing, 394,590 cubic yards of Common Excavation, 33,670 units of Overhaul, 23,730 cubic yards of Excavation of Unsuitable Material, 28,450 tons of Ballast, 1,125 linear feet of Concrete Pipe, 1,578 linear feet of Corrugated Metal Pipe, 50 cubic yards of Hand Placed Riprap 12,520 tons of Loose Riprap and other items.
2. Clearing, Draining, Grading, Surfacing with Light Bituminous Surface Treatment, Paving with Type I-1 Asphaltic Concrete and Constructing a Reinforced Concrete Flat Slab Bridge on 3.069 miles of Primary State Highway No. 2 in King County, FACTORIA INTERCHANGE EAST, FAP No. IN-002-1(14), involving about 38 acres of Clearing, 120,290 cubic yards of Common Excavation and Borrow, 21,280 tons of Selected Roadway Borrow, 8,960 tons of Crushed Stone Surfacing, 76 tons of Asphalt Cement, 660 cubic yards of Crushed Cover Stone and Mineral Aggregate, 6,835 tons of Asphaltic Concrete, 750 linear feet of Asphaltic Concrete Gutter, 4,547 linear feet of Cement Concrete Gutter, 170 linear feet of Asphalt Lined Spillway, 890 linear feet of Asphaltic Shoulder Curb, 4,895 linear feet of Mountable Cement Concrete Curb and Extruded Traffic Curb, 2,290 linear feet of Corrugated Metal Pipe, 3,869 linear feet of Concrete Pipe, 78 linear feet of Beam Guard Rail (State Furnished), 100 Spot Posts (State Furnished), 106 cubic yards of Riprap, 560 linear feet of Conduit Pipe, 240 square yards of Paved Slope Wall, 156 cubic yards of Concrete, 20,320 pounds of Steel Reinforcing Bars, 1,700 linear feet of Timber Piling and other items.
3. Clearing, Draining, Grading and Surfacing with Selected Roadway Borrow on 2.236 miles of Primary State Highway No. 9 in Thurston County, KAISER ROAD TO TUMWATER, FAP No. F-007-5(6), involving about 61 acres of Clearing, 247,240 cubic yards of Common Excavation, 15,670 units of Overhaul, 35,-510 tons of Selected Roadway Borrow, 2,922 linear feet of Concrete Pipe, 245 linear feet of Corrugated Metal Pipe and other items.
4. Draining, Grading, Surfacing, Paving with Type I-1 Asphaltic Concrete and Stockpiling Crushed Stone Surfacing, Ballast and Mineral Aggregates on 0.522 mile of Primary State Highway No. 3 in Asotin County, HIGHLAND STREET TO CHESTNUT STREET IN CLARKSTON, FAP No. F-042-1(2), involving about 5,870 cubic yards of Common Excavation, 39,-610 tons of Crushed Stone Surfacing, Ballast, Maintenance Rock and Mineral Aggregates, 2,810 tons of Asphaltic Concrete, 23 tons of Asphalt Cement, 125 cubic yards of Mineral Aggreate, 3,211 linear feet of Cement Concrete Curb and Gutter, 308 linear feet of Precast Traffic Curb, 4,918 linear feet of Concrete Pipe, 95 square yards of Cement Concrete Sidewalk and other items.
5. Constructing a Reinforced Concrete Slab Pedestrian Bridge on Primary State Highway No. 2 in Spokane County, CUSTER STREET PEDESTRIAN UNDERCROSSING, FAP No. U1-002-6(23), involving about 267 cubic yards of Concrete, 60,000 pounds of Steel Reinforcing Bars, 768 linear feet of Steel Handrail, 600 pounds of Structural Steel, a lump sum bid for Installation of Electrical Heating System and other items.
6. Grading, Surfacing, Paving with Type I-1 Asphaltic Concrete and Constructing a Reinforced Concrete Box Girder Bridge on 0.256 mile of a Yakima County Road, WAPATO-DONALD BRIDGE AND APPROACHES, FAS No. S-0404(2), involving about 6,250 cubic yards of Unclassified Excavation and Borrow, 1,110 cubic yards of Selected Material, 545 cubic yards of Crushed Stone Surfacing and Mineral Aggregates, 380 tons of Asphaltic Concrete, 750 linear feet of Beam Guard Rail, 360 cubic yards of Riprap, 1,003 cubic yards of Concrete, 258,000 pounds of Steel Reinforcing Bars, 14,800 pounds of Structural Steel, 894 linear feet of Steel Handrail, 360 linear feet of Concrete Piling and other items.
7. Clearing, Draining, Grading, Surfacing and Paving with Cement Concrete on 2.0 miles of a King County Road, SOUTH 312TH STREET, FAS No. S-1193(1), involving about 23,660 cubic yards of Common Excavation, 19,340 tons of Selected Roadway Borrow, 3,860 tons of Crushed Stone Surfacing, 25,831 square yards of Cement Concrete Pavement, 3,300 pounds of Pavement Reinforcement, 145 tons of Bituminous Mix, 1,202 linear feet of Concrete Pipe, 80 Guide Posts and other items.
8. Clearing, Draining, Grading and Surfacing with Selected Roadway Borrow on 0.919 mile of a Kitsap County Road, PORT ORCHARD-WATERMAN ROAD, FAS No. S-0329(1), involving about 33,300 cubic yards of Unclassified Excavation and Borrow, 3,130 cubic yards of Selected Roadway Borrow, 43 cubic yards of Concrete, 5,750 pounds of Steel Reinforcing Bars, 60 linear feet of Conduit Pipe, 1,764 linear feet of Concrete Pipe, 9,950 cubic yards of Riprap and other items.
9. Constructing Two Reinforced Concrete Flat Slab Bridges on 0.036 mile of a Whatcom County Road, CALIFORNIA CREEK AND WISER LAKE ROAD BRIDGES, FAS Nos. S-0752(2) and S-0746(1), involving about 224 cubic yards of Concrete, 48,900 pounds of Steel Reinforcing Bars, 372 linear feet of Beam Guard Rail, 2,540 linear feet of Concrete Piling and other items.
10. Surfacing with Light Bituminous Surface Treatment and Paving with Type I-1 Asphaltic Concrete on 4.145 miles of Primary State Highway No. 1 in Snohomish County, JCT. BROADWAY CUTOFF TO 42ND STREET IN EVERETT, a State Project, involving about 6,000 tons of Crushed Stone Surfacing, 138 tons of Asphalt Cement, 810 cubic yards of Crushed Cover Stone, 22,460 tons of Asphaltic Concrete and other items.
11. Draining, Grading, Surfacing with Light Bituminous Surface Treatment, Paving with Unfinished Cement Concrete and Type I-1 Asphaltic Concrete and Installing an Illumination System on 0.246 mile of Primary State Highway No. 2 in King County, JCT. SSH No. 2-B, a State Project, involving about 1,170 cubic yards of Unclassified Excavation, 150 cubic yards of Selected Roadway Borrow, 480 tons of Crushed Stone Surfacing, 5 tons of Asphalt Cement, 40 cubic yards of Crushed Cover Stone, 470 tons of Asphaltic Concrete, 2,400 square yards of Unfinished Cement Concrete Pavement, 60 linear feet of Asphaltic Concrete Gutter, 320 linear feet of Integral Cement Concrete Curb, 1,745 linear feet of Precast Traffic Curb, 42 linear feet of Concrete Pipe, a lump sum bid for Installation of an Illumination System and other items.
12. Draining, Grading, Surfacing and Constructing a Non-Skid Single Seal Treatment on 3.107 miles of Secondary State Highway No. 2-F in Grant County, COULEE CITY NORTH, a State Project, involving about 43,400 cubic yards of Solid Rock Borrow, 400 cubic yards of Non-Skid Single Seal Treatment, 100 cubic yards of Crushed Cover Stone, 72 linear feet of Corrugated Metal Pipe, 388 linear feet of Beam Guard Rail and other items.
13. Installing Drainage on 0.651 mile of Primary State Highway No. 1 in Lewis County, NATIONAL AVENUE TO SALZER CREEK, a State Project, involving about 7,886 linear feet of Concrete Pipe and other items.
14. Installing an Illumination System on Primary State Highway No. 2 in King County, EASTGATE INTERCHANGE, a State Project, involving a lump sum bid for the Installation of an Illumination System.
15. Installing Illumination Systems on Primary State Highway No. 1 in Whatcom County, BELLINGHAM TO FERNDALE, a State Project, involving a lump sum bid for Installation of Illumination Systems.
16. Cleaning and Painting Three Bridges on Secondary State Highways Nos. 1-A, 1-B, and 1-E in Snohomish and Whatcom Counties, SNOHOMISH RIVER BRIDGE, ET AL, a State Project, involving about 250 hours of Sandblast Cleaning and 3 lump sum bids for Cleaning and Painting.
17. Cleaning, Painting, Bundling and Storing Bailey Bridge Components in Pierce County, BAILEY BRIDGE COMPONENTS, a State Project, involving a lump sum bid for the Entire Improvement.

Federal funds have been allocated for items Nos. 1 to 9, inclusive.

All bid proposals shall be accompanied by a bid proposal deposit in cash, certified check, cashier's check or surety bond in an amount equal to five per cent (5%) of the amount of such bid proposal. Should the successful bidder fail to enter into such contract and furnish satisfactory performance bond within the time stated in the specifications, the bid proposal deposit shall be forfeited to the State of Washington.

Prequalifications of bidders is required. Maps, plans and specifications may be obtained from this office upon written request therefor and payment to the Director of Highways by cash, certified check, cashier's check or money order in the sum of two dollars ($2.00) for each copy of such maps, plans and specifications as a rental for the use of them. Plans will be forwarded by First Class Mail.

Informational copies of maps, plans and specifications are on file in the office of the County Engineer of the County in which the work is situated, the Chapter offices of the Associated General Contractors of America in Seattle, Spokane, Tacoma and Portland and the offices of the District Engineers of the Department of Highways where they may be inspected.

E. C. HUNTLEY, Chairman
W. A. BUGGE, Director of Highways
5548—7-14, 21

PUMPING UNITS
BIDS CLOSE AUGUST 14
Denver, Colorado
NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Invitation No. DS-4723) will be received at Denver, Colorado, until August 14, 1956, for furnishing the following motor-driven pumping units: vertical-shaft, turbine-type, four units, each with capacity of 11.7 cfs under 190 foot head; horizontal, centrifugal-type, four-units, each with capacity of 11.7 cfs under 350 foot head, and three units, each with capacity of 13.0 cfs under 150 foot head, for Brewster Flat Pumping Plants, Foster Creek Division, Chief Joseph Dam Project, Washington. Delivery is desired within 300 days. For particulars, address Bureau of Reclamation, Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.
5535—7-14

BRIDGE

BIDS CLOSE 10 A.M., JULY 27

Portland, Oregon

NOTICE TO CONTRACTORS

DEPARTMENT OF COMMERCE, BUREAU OF PUBLIC ROADS, July 13, 1956. SEALED BIDS will be received at the office of the Bureau of Public Roads, 753 Morgan Building, Portland, Oregon, mail address P. O. Box 3900, Portland, Oregon, until 10:00 o'clock A.M. on July 27, 1956, for furnishing the material and performing the work for constructing 0.019 mile bridge, Oregon Forest Devepolment Road Project Umpqua 2719-B, Black Creek Road, Black Creek Bridge, Umpqua National Forest, Douglas County, Oregon, involving 130 Cu. Yds. Structure Excavation; 154 Cu. Yds. Concrete; 39,000 Lbs. Reinforcing Steel; 214 Lin. Ft. Metal Hand Rail, and other small items of work. Plans, specifications and proposals may be obtained at the office of the Bureau of Public Roads, 753 Morgan Building, Portland, Oregon. F. E. ANDREWS, Division Engineer.

5546—7-14

EARTHWORK, STRUCTURES

BIDS CLOSE AUGUST 2

Rupert, Idaho

NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specification No. DC-4721) will be received at Rupert, Idaho, until August 2, 1956, for furnishing labor and materials for Earthwork and Structures, Main Canal West-Michaud Flats Project, Idaho. Location near American Falls, Power County, Idaho. Principal items are 115,000 cu. yds. excavation; 325 cu. yds. concrete; 6,000 lin. ft. standard strength culvert and pressure pipe; and other work. Completion time 400 days. For particulars, address Bureau of Reclamation, Rupert, Idaho; or Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.

5534—7-14

PUMPING PLANT EXTENSIONS

BIDS CLOSE AUGUST 21

Boise, Idaho

NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-4729) will be received at Boise, Idaho, until August 21, 1956, for furnishing labor and materials for Extension of "C" Line Canal Pumping Plant, Payette Division, Boise Project, Idaho. Location near Emmett, Idaho. Principal items are 4,170 cu. yds. excavation; 380 cu. yds. concrete; 388 lin. ft. furnishing and laying 48-inch diameter HC50, HC75 and HC100 concrete pressure pipe; 1,525 sq. ft. construction 8-inch concrete masonry unit walls; 21,000 pounds furnishing and erecting steel for pumping-plant superstructure; installing and testing one 75-cfs vertical centrifugal pump; and other work. Completion time 310 days. For particulars, address Bureau of Reclamation, P. O. Box 937, Boise, Idaho; or Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.

5541—7-14

CANAL STRUCTURES

BIDS CLOSE AUGUST 22

Medford, Oregon

NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-4728) will be received at Medford, Oregon, until August 22, 1956, for furnishing labor and materials for Main Canal Structures, Station 123/00 to Station 829/00, Medford and Rogue River Valley Irrigation District, Rogue River Basin Project, Oregon. Location northeast of Medford, Oregon. Principal items are 350 cu. yds. excavation for flumes and wall; 200 cu. yds. concrete for flumes and wall; constructing 60-inch concrete siphon, about 350 feet long; constructing 54-inch concrete siphon, about 1,100 feet long; and other work. Completion time 180 days. For particulars, address Bureau of Reclamation, P. O. Box 629, Medford, Oregon; or Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.

5542—7-14

PUMPING PLANTS, DISCHARGE LINES

BIDS CLOSE AUGUST 2

Ephrata, Washington

NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-4719) will be received at Ephrata, Washington, until August 2, 1956, for furnishing labor and materials for Burbank Pumping Plants No. 2 and 3, Approach Channels BP-2 and BP-3 and Discharge Lines, Block 3, Columbia Basin Project, Washington. Location near Pasco, Washington. Principal items are 103,600 cu. yds. excavation; 1,839 lin. ft. furnishing and laying 30 and 42-inch diameter HC50 and HC75, concrete pressure pipe with type R joints; 535 cu. yds. concrete in structures; furnishing and installing steel discharge lines; furnishing and installing 6 motor-driven vertical-shaft, turbine-type pumping units; and other work. Completion time 360 days. For particulars, address Bureau of Reclamation, P. O. Box 937, Boise, Idaho; P. O. Box 368, Ephrata, Washington; or Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.

5529—6-30

DIVERSION DAM, CANAL

BIDS CLOSE JULY 31

Winter, California

NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-4716) will be received at Winters, California, until July 31, 1956, for furnishing labor and materials for Putah Diversion Dam and Putah South Canal, Station 12/46.44 to Station 14/10, Solano Project, California. Location near Winters, California. Principal items are 72,000 cu. yds. excavation; 6,000 cu. yds. concrete in structures and canal; furnish and install 14 radial gates and hoists; and other work. Completion time 360 days. For particulars, address Bureau of Reclamation, P. O. Box 546, Winters, California, or Building 53, Denver Federal Center, Denver 2, Colorado. W. A. DEXHEIMER, Commissioner.

5511—6-23

COLLEGE CENTER BUILDING

BIDS CLOSE 2 P.M., P.S.T., AUGUST 3

Portland, Oregon

NOTICE TO CONTRACTORS

Sealed bids will be received by the Oregon State Board of Higher Education at Room 110, Portland State College, 1620 S.W. Park Avenue, Portland, Oregon, until 2:00 P.M. Pacific Standard Time on Friday, August 3, 1956, for the construction of the Portland State College Center Building at southwest Montgomery Street and Park Avenue, Portland, Oregon. Separate bids will be received for General Work, Mechanical Work and Electrical Work.

One set of drawings, specifications and forms of contract documents for the General, Mechanical and Electrical Work may be obtained by the respective prime bidders only, from Lawrence, Tucker and Wallmann, Architects, at 920 Failing Building, Portland 4, Oregon, upon the deposit of fifty dollars for General Work, twenty-five dollars for Mechanical and Electrical Work. Additional sets may be obtained from the Architects for the cost of reproduction.

The deposit made upon the procurement of drawings, specifications and forms of contract documents will be refunded upon the return thereof in good condition by the actual bidders within two weeks after the opening of bids, but to non-bidders only if returned no later than two weeks prior to the bid opening.

The drawings, specifications and forms of contract documents may be examined at the Builders Exchange in Portland or at the office of the Architects.

All bidders must be prequalified in accordance with Chapter 279, Oregon Revised Statutes.

No bid will be considered unless fully completed in the manner provided in the "Instructions to Bidders" upon the bid form provided by the Architects and accompanied by a certified check or bid bond, executed in favor of the State of Oregon and the Oregon State Board of Higher Education in an amount not less than ten percent of the total amount of the bid, to be forfeited as fixed and liquidated damages should the bidder neglect or refuse to enter into a contract and provide suitable bond for the faithful performance of the work in the event the contract is awarded to him.

The Oregon State Board of Higher Education reserves the right to reject any or all bids and to waive all informalities.

No bidder may withdraw his bid after the hour set for the opening thereof until after the elapse of 30 days from the bid opening.

OREGON STATE BOARD OF HIGHER EDUCATION,
By: Earl M. Pallett,
Secretary, Eugene, Oregon.

5543—7-6, 12

DOUGLAS GRADE SCHOOL

BIDS CLOSE 10 A.M., P.S.T., JULY 25

Juneau, Alaska

NOTICE TO CONTRACTORS

Project Aaa. 50-A-196, Grade School, Douglas, Alaska, June 11, 1956. Alaska Public Works, Office of Territories, Department of the Interior, by (Issuing office) John D. Argetsinger, Acting Director, Alaska Public Works, Office of Territories, Department of the Interior, Post Office Box 1181, Juneau, Alaska. **Sealed bids** in single copy for furnishing all labor, equipment, and materials and performing all work for the project described herein will be received until 10:00 A.M. Pacific Standard Time, July 25, 1956 in the mailroom of the Office of the Acting Director, Alaska Public Works, Office of Territories, Department of the Interior, 123 West Third Street, P. O. Box 1181, Juneau, Alaska, and then **publicly** opened and read aloud. **Information regarding bidding material, bid guarantee, and bonds** follows: Plans and specificatioin and other proposed contract documents are open for public inspection at the Acting Director's office, Juneau, Alaska; at Room 2723, Interior Bldg., Washington 25, D.C. and Associated General Contractors of America offices as follows: Seattle Chapter, Construction Center, 215 West Harrison Street, Seattle, Wash., Tacoma Chapter, 452 St. Helens Ave., Tacoma 3, Wash., Mountain Chapter, 220 W. Harrison St., Seattle, Wash.; Portland Chapter, Suite 112, Multnomah Hotel, Portland, Ore.; and the Alaska Chapter, P. O. Box 992, 306 Central Bldg., Anchorage, Alaska; at the Plan Bureau, 2413 Western Ave., Seattle, Wash., Builders Exchange Cooperative, 317 Builders Exchange Bldg., Portland, Ore.; and Payroll Service of Anchorage, 414 6th Ave., Anchorage, Alaska. Sets of such documents may be procured from the office of the Acting Director at Juneau, Alaska, upon deposit of $25.00, all of which will be refunded upon the return of the plans and specifications in good condition within **twenty (20) days** from date of bid opening. Each bid must be accompanied by a satisfactory bid security (certified check or bid bond) in an amount not less than 5 per cent of the total bid in dollars and cents. No bid will be withdrawn until thirty days after the scheduled closing date for the receipt of bids. The successful bidder will be required to furnish a performance bond and payment bond, each in the amount of 100 per cent of the contract price. The Government reserves the right to award a contract for the project on the basis of the acceptance of any or all of the alternates, whichever course is in the best interest of the Government. DESCRIPTION: Grade School, Project Aaa. 50-A-196, Douglas Alaska. A grade school building of reinforced concrete open web joints and glued laminated beam construction. Building contains approximately 23,000 sq. ft. of floor area. Information regarding liquidated damages (if any), payments, etc., is attached or made a part of the specifications. Bids shall be submitted on the forms furnished or copies thereof.

5519—6-23, 30; 7-7

LIBRARY
AUG
Architecture & Allied

Pacific Architect and Builder

AUGUST BPA 1956

50¢

WITH CONSTRUCTION NEWS BULLETIN



loating' foundation

Branch bank (p. 22) by Robert B. Price, AIA, featured in a review of Tacoma architecture.

o in this issue—

Two California jobs

- Office building
- Residence

ortimer Adler asks me philosophical estions about design

Published by
PACIFIC BUILDER
ND ENGINEER, Inc.
Established 1902



creative color...

Ceramic Veneer

Pacific Mutual Building, San Francisco, shows how Ceramic Veneer — in a special custom-made grey green mottled color — compliments design appearance. Architects: Loubet & Glynn, A.I.A. General Contractor-MacDonald, Young & Nelson, Inc.



In Honolulu, the F. W Woolworth Store reveals a unique combination of a bevel shape, tooled and smooth Ceramic Veneer Striking "Polynesian print" design exemplifies wide range of patterns now possible through the "silk screen" glazing technique. Designers: F. W. Woolworth Co., San Francisco. General Contractor: Walker Moody Co., Ltd., Honolulu.

UNLIMITED freedom of expression, within the bounds of good design, is an architectural advantage in planning and building. So great is the range of colors and styles in *custom-made* Ceramic Veneer, architects are more and more specifying this modern facing material. Indoors or outdoors, Ceramic Veneer enables you to achieve the kind of dramatic effects that are so desirable.

VERSATILITY is the major reason Ceramic Veneer earns the recommendation of leading architects. Its unique permanence, lower cost of maintenance, and the wide variety of colors, textures and sizes offer a combination of major advantages to consider in planning.

A 32-PAGE CATALOG, illustrating the many advantages of Ceramic Veneer is now available and can be mailed to you quickly. Write today . . . or ask the CV representative near you to demonstrate how Ceramic Veneer can enhance the beauty and practicability of your projects

Ceramic Veneer

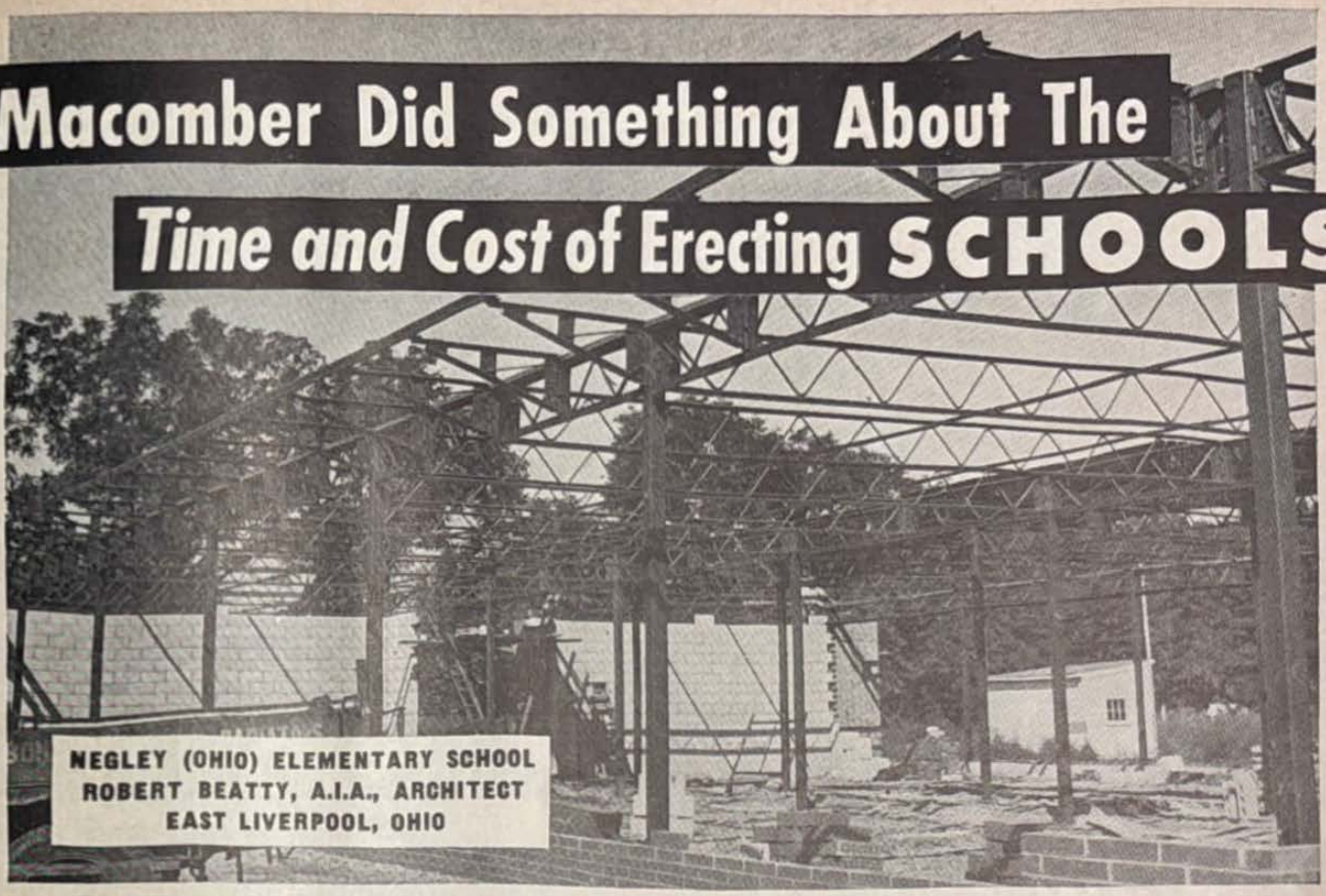
A PRODUCT OF

GLADDING, McBEAN & CO.

Since 1875

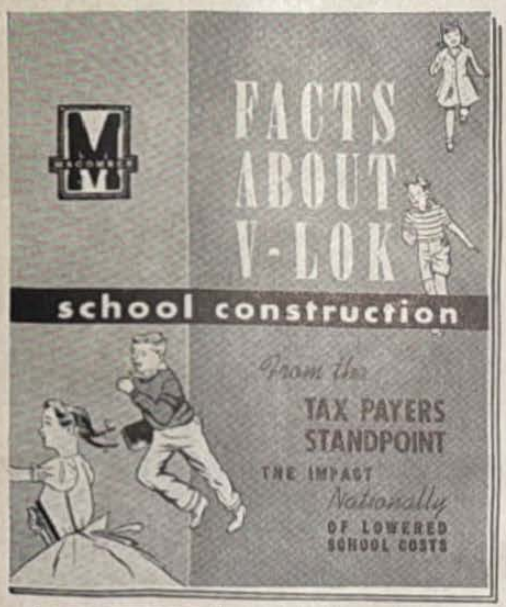
LOS ANGELES • SAN FRANCISCO • SEATTLE
PORTLAND • SPOKANE • PHOENIX

Macomber Did Something About The Time and Cost of Erecting SCHOOLS



NEGLEY (OHIO) ELEMENTARY SCHOOL
ROBERT BEATTY, A.I.A., ARCHITECT
EAST LIVERPOOL, OHIO

WHEREVER A V-LOK STEEL FRAME IS USED, A SCHOOL BOARD AND LOCAL TAX PAYERS SAVE MONEY AND THE SCHOOL IS IN USE MONTHS EARLIER



Schools all across the country are being erected at tremendous savings — per square foot — due to the speed of interlocking structural members. Large rambling elementary and secondary schools are erected and under roof in a few days when Architects design with V-LOK. This is just the reverse of the ancient practice of eventually putting a roof over a school when the walls are completed.

This fundamental difference speeds up every other operation and non-bearing walls and partitions provide greater flexibility for future needs. Send for this booklet. It sells the whole idea of V-LOK savings to your Board and Building Committee.

STANDARDIZED STEEL BUILDING PRODUCTS

MACOMBER INCORPORATED

CANTON 1, OHIO

• ENGINEERING • FABRICATING AND ERECTING •

NAILABLE STEEL JOISTS
•
LONGSPANS
•
BOWSTRING ROOF TRUSSES
•
METAL DECK
•
V-LOK STEEL FRAMING
•
STRUCTURALS

"Been settin' here, wettin' this fool stick for twenty years—and she ain't rotted yet." Paul Bunyan threw down the 12x12 Chemonited* timber in defeat. His disgusted sigh flattened 30 acres of prime Douglas fir. "Yessir, Babe, I been suckered again by a city slicker. That Baxter man bet me a year's free loggin' to a month in Frisco that that there stick would never rot—even in moist ground. On account of this new fangled presarvative, Chemonite* . . . Well come on, you lazy Blue Ox, let's get haulin' . . ."



Baxco

CHEMONITED

pressure treated lumber

*You WERE slickered, Paul. Because hundreds of installations prove that when you pressure treat wood with Chemonite, as the Baxter people do it, you've got a PERMANENT construction material protected from decay and termite attack. Just like the man said, Paul, even water and exposure won't take away that locked-in Chemonite protection. Baxco Chemonited wood is clean, odorless, paintable . . . Write for "Chemonited Forest Products," 28 page brochure on the development, testing, uses and service records of this wood preservative.

RECOMMENDED USES: *Building Foundations . . . Bridge Timbers . . . Wharf Timbers . . . Fence Posts . . . Septic Tanks . . . wherever wood is exposed to decay or insect attack.*



©J. H. Baxter & Co. 1955

J. H. BAXTER & CO.

120 *Montgomery Street, San Francisco 4, California*

Pacific Architect and Builder

AUGUST BPA 1956

WITH CONSTRUCTION NEWS BULLETIN

VOLUME 62 NUMBER 8

Published by
Pacific Builder and Engineer, Inc.
Established 1902

MAIN EDITORIAL AND BUSINESS OFFICE
2418 Third Ave., Seattle 1, Wash.
Phone MAin 0285

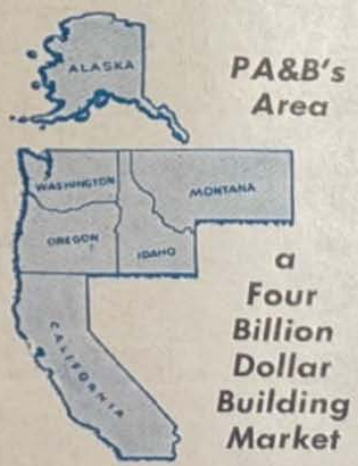
N. B. Chapin — President
Roscoe E. Laing — Manager

Phyllis E. Forth — Production Manager
Robert G. Hitchens — Director of Business Services and Circulation
Frances Eggan — Circulation Manager
Alice Malloy — Asst. Circulation Manager

ADVERTISING
Main Office — Seattle
L. C. McDowell
Paul N. Swanson

Ken MacDonald — Contributing Editor
24 White St., San Francisco 9, Calif.
Phone GRaystone 4-8532

Win Romtvedt — Portland News Manager
1109 S.W. Fourth Ave.—Phone CApitol 3-1229



PA&B's Area

a Four Billion Dollar Building Market

Robert E. Koehler — Editor
Anne Hecker, editorial assistant; Joan Storey, research assistant
D. F. McCormick, editor, Construction News Bulletin

CONTENTS

Office Building Has 82% Rentable Floor Space—Beverly Hills, Calif. 10

Some Philosophical Questions About Design—*by Mortimer Adler* 12

Residence: Lots of Livable Space on a Tight Plan—Mill Valley, Calif. 14

Architecture in and Around Tacoma: A Roundup of Important Contemporary and Historical Buildings 18

Branch Bank: Structural Frame Expresses Finished Design—Tacoma, Wash. 22

DEPARTMENTS

Perspectives 6

News—Trends—Views 7

T-square Talk 9

Building Permit Tabulation 32

Materials, Products, Tools and Latest Literature 36

Products in Action 38

Builders and Suppliers 40

CONSTRUCTION NEWS BULLETIN

Building and Engineering News of the Pacific Northwest and Alaska 43

SUBSCRIPTION RATES—Payable in Advance

PACIFIC ARCHITECT AND BUILDER—3rd Saturday each month $4 one year; $6 two years; $7 three years. Canadian $5, $8, $10. Foreign $6, $10, $13. Single copies 50c. With CONSTRUCTION NEWS BULLETIN (2nd, 4th, 5th Sat.) $16, $24, $31, in U.S. and Alaska.

PACIFIC BUILDER AND ENGINEER—1st Saturday each month, $4 one year; $6 two years; $7 three years. Canadian $5, $8, $10. Foreign $6, $10, $13. Single copies 50c.

FOR NORTHWEST BUILDING AND ENGINEERING NEWS EVERY WEEK subscribe to all three (PA&B, PB&E, CNB) $20 one year; $30 two years; $38 three years. FOR FLASH ADVANCE DAILY SERVICE, read Pacific Construction Daily, $75 per year Rates for U.S. and Alaska.

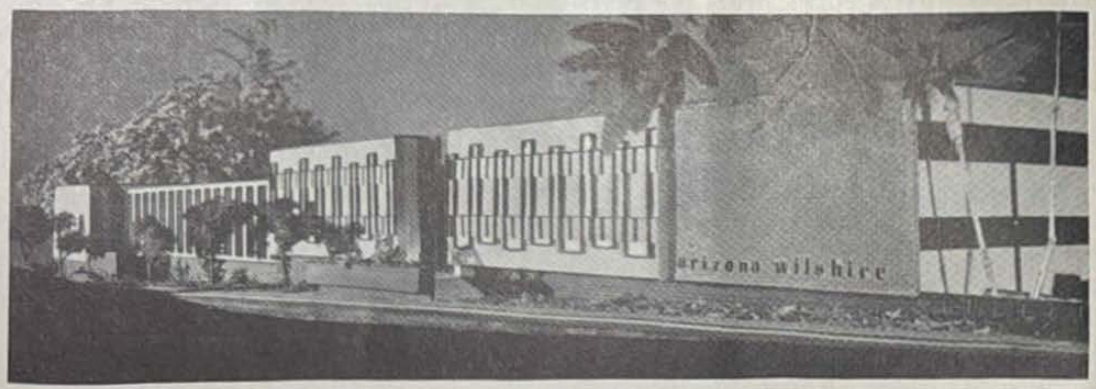
PACIFIC ARCHITECT AND BUILDER is published monthly by Pacific Builder and Engineer, Inc., 2418 Third Ave., Seattle 1, Wash., and is mailed on the third Saturday of each month. Price: $4, per year. Acceptance under P.L.&R. 34.64 authorized.

PERSPECTIVES

by Pacific architects



SAFEWAY DISTRIBUTION CENTER to be erected in Butte, Mont., will be refrigerated building, costing more than $2 million. Designed by Norman J. Hamill & Associates, it will have 216,000 sq. ft. of floor space, concrete foundations and floor slabs, concrete block exterior walls, wood trusses, refrigeration rooms, truck repairs, grocery warehouse, perishable goods warehouse and offices.



DESIGN OF ARIZONA WILSHIRE, luxury apartment building set for construction in Santa Monica, is oriented around 6,000-sq. ft. patio where heated swimming pool provides focal center of landscaped area. Two-story structure combines beige spandrels and charcoal mullions in "meander" pattern with ceramic tile panels in accent colors. Architects for 68-apartment project are Palmer & Krisel.



PRESBYTERIAN CHURCH of Wapato, Wash., will construct sanctuary and fellowship hall on site where church was burned earlier this year. To cost about $175,000, project will have solid masonry walls in sanctuary, brick veneer in hall, with wood exterior trim on both. Plans were drawn by architects Don Gochnour and Edward H. Marble.

HEADQUARTERS AND MAIN FACTORY of Marchant Calculators, Inc., in Oakland will be one of nation's largest light manufacturing plants. Representing $4 million investment, structure will consolidate activities now housed in 12 buildings, with 12 acres under roof. Plans prepared by Albert F. Roller, AIA, call for reinforced concrete walls and floors, with large exterior areas faced with brick.



"ARCHITECTURE UNLIMITED" will be the theme of the fifth annual conference of the Northwest Regional Council, AIA, which will meet in Tacoma, September 6-9, with the Winthrop Hotel as headquarters. Keynote speaker will be William L. Pereira, AIA, Los Angeles. Two other Angelinos will give major talks: landscape architect Garrett Eckbo and engineer Edgardo Contini, associate in charge of Victor Gruen's proposal for downtown Fort Worth.

All three Californians will appear on a panel devoted to the conference theme and moderated by John S. Detlie, AIA, Seattle. The program calls for two other seminars, one on forest products with Paul Thiry, FAIA, Seattle, presiding and another on prestressed concrete with Dr. Arthur Anderson, structural engineer, Tacoma.

National AIA president Leon Chatelain Jr., FAIA, will be the main speaker at the Saturday night banquet at the Tacoma Country Club. Other events: dinner with an address by Walter Taylor, AIA, of the Octagon staff on Thursday and a Puget Sound cruise and salmon bake on Friday.

CALIFORNIA ARCHITECTS AND ENGINEERS are being asked to contact contractors and construction suppliers for contributions to support SCA 6 which will appear on the November ballot as Proposition 10. Campaign manager William Latta says that the program must be stepped up if the $150,000 goal is to be reached. Proposition 10 is intended to speed the state construction program through use of private architects and engineers.

NAHB HOUSING DELEGATION, back from a tour of Russia as guests of the Soviet government, reports that Russians suffer from a lack of production facilities and skilled workmen but that the construction industry there has "done a very big job." Of particular interest were the Soviet techniques in the manufacturing and handling of prefabricated concrete beams, floor and wall panels for apartment house construction and "quickie" building methods—the latter frequently at the expense of quality with regard to finishing and conveniences.

SOUTHERN CALIFORNIA HOMES top the nation in design because "only about 2,000 U. S. builders regularly use the services of an architect—and more than half of these are in the southern California area," according to Arthur B. Gallion, dean of the School of Architecture at the University of Southern California. Fred Emmons, AIA, and William Krisel, AIA, who served on a recent panel with Dean Gallion, agreed that home styling in the area is in transition, with the public "still divided between traditional and contemporary design." All pointed out that the scale is slowly tipping in favor of the latter.

SWAN SONG OF 84TH CONGRESS included passage of the Housing Act of 1956 and an omnibus GI bill which extends the World War II loan program ending date for one more year to July 25, 1958.

NEW LIST OF AMERICAN STANDARDS indexes about 275 in the field of construction and civil engineering. They include codes for building and plumbing, test methods and specifications for building materials of all types, fire tests and safety precautions in construction, modular coordination and many other related items. The 56-page booklet is available by writing the American Standards Association, 70 E. 45th St. New York 17, N.Y.

THE FEDERAL-STATE CONFERENCE ON AGING has recognized that private housing, both single-family and group units, plays an extremely important role in any well rounded program. One of the comments: "We ought not to be building homes for older people as such but well designed, more flexible homes which would include special features, such as handrails and a minimum of stairs. Such homes would have features that would be both essential for the aging and also useful and practical for younger people just starting their families. They would be, in effect, small homes that would be attractive and saleable to any small family seeking a modest-sized home."

AN ARCHITECTURAL LANDMARK in the nation's capital, the Old Patent Office designed by Robert Mills, may be preserved by the government, first as an office building and later for use as a national portrait gallery.

CENTRAL AIR CONDITIONING MANUFACTURERS at a housing meeting in Washington, D. C., claimed that $100 a year is a fair allowance for operation and maintenance of such systems. Meanwhile, a nationwide survey of factories by another manufacturer, The Trane Co., reports on two West Coast cities.

San Francisco—Trend is developing slowly because of low summer and mild winter temperatures in Bay area industrial sections. Increase in tendency to arrange installations to provide for cooling later is very pronounced.

Los Angeles—Many air conditioned factories listed. Trend is snowballing as companies compete for personnel in critical labor market. Harold Cross, vice president of Union Bank, recommends to customers that they consider air conditioning to cut down turnover in personnel.

COLOR SEEMS TO BE AN UNKNOWN QUANTITY in most urban planning, H. Creston Doner, director of design and color for Libbey-Owens-Ford Glass Co., told a citizens' forum in Toledo. "Today the architects, landscape architects and city planners are beginning to coordinate their thinking, but color still is a subject avoided by most experts. Some of the new skyscrapers in the country are beginning to blossom out in gay colors, but it has taken such architects as Eero Saarinen of Detroit and Carlos Lazo of Mexico to use bold, dramatic strokes of color in the great new building projects."

THREE SAN FRANCISCANS will be on the program of the Modern Masonry Conference in Washington, D. C., September 19-20. They are S. Robert Anshen, AIA; A. E. Barnes, manager, architectural products promotion, Gladding, McBean & Co.; and Walter L. Dickey, The Bechtel Corp.

A LEADING BUSINESSMAN and founder of the Building Research Institute has called on his industry to expand its psychological and sociological research activities. "We can no longer afford to give the consumer what he ought to want rather than what he really wants," declares chairman Melvin H. Baker of National Gypsum Co. He asserts that "we have proceeded blithely to develop new architectural styles, combining living and dining rooms, cutting kitchens to a minimum and eliminating extra rooms."

HOME BUILDING AND COMERCIAL CONSTRUCTION throughout northern California ground to an almost complete stop during July when a double-header strike of 16,000 carpenters and 2,000 plumbers joined for a short period by plasterers, dragged on for two weeks. Both strikes ended with new contracts and wage boosts for all concerned, presaging a substantial rise in construction cots and inevitably in the sale price of new homes to be built in the future.

In southern California the record-breaking pace of construction, which last year set all-time records in the

Continued on page 42

LONG RANGE PLANNING WITH

PORCELAIN *enamel*

FOR THE BUILDING INDUSTRY



BLUE CROSS BUILDING, Los Angeles
Architects: ALLISON AND RIBLE, A. I. A.
General Contractor: FORD J. TWAITS CO.

ANOTHER outstanding architectural achievement... designed to meet functional and structural needs for today and many decades to come.

Virtually the entire exterior of this building is protected by Architectural Porcelain Enamel fused to the inherent strength of steel. The locked-in beauty of this lifetime material insures that future years will find this structure as fresh and modern as today!

The versatility of Porcelain Enamel provides complete design freedom... with choice of any color of the spectrum—and finishes ranging from high gloss to semi-matte.

WRITE TODAY for latest details and Color Chart.



• *Architectural Porcelain Enamel used for veneer, louvers, soffits, sills, jambs and headers.*

ARCHITECTURAL DIVISION

PORCELAIN ENAMEL PUBLICITY BUREAU
P. O. BOX 186 • EAST PASADENA STATION • PASADENA 8, CALIFORNIA
1444 WEBSTER STREET • ROOM 4 • OAKLAND 12, CALIFORNIA

Specify PORCELAIN ENAMEL for:
CURTAIN WALLS • WAINSCOTING • CANOPY FACIA • MARQUEE FACIA • LOUVERS • BUILDING FACIA • LETTERS
SPANDRELS • COLUMNS • MULLION COVERS • PARAPET CAPS • WATER TABLES • BULKHEADS • TOWER FACING

Pacific Architect and Builder

T-square talk

about architects • planners • engineers

NEW PARTNERSHIPS: Gifford E. Sobey and Marvin S. Knox have formed an architectural partnership under the firm name of Sobey & Knox and have moved to new offices at 200 San Mateo Ave., Los Gatos, Calif.

In Billings, Mont., Vernon Drake, AIA, and F. Wayne Gustafson, AIA, have formed a partnership for the practice of architecture in the Empire Building. Drake has been engaged in private practice in Billings since 1950. Gustafson has been a member of his new partner's staff for 1½ years. Both are Montana State College graduates.

NEW OFFICES: John R. Ross has opened an office for the practice of architecture at 544 S. Bascom Ave., San Jose, Calif. (CYpress 7-5459). A graduate of the University of Southern California in 1949, he has been associated with several architectural firms in Los Angeles and San Jose.

Rodney J. Grider has opened an architectural office at 1321 Vista Ave., Boise, Idaho. He is a graduate of the University of Idaho and has been associated with the office of Thomas M. I. Leake since 1953.

James Greco has opened an office for the practice of architecture at 771 Lakeview Blvd., Seattle (FRanklin 2405).

ON THE MOVE: The Seattle architectural firm of Waldron & Dietz is now located at 215 Eighth Ave. N.

Henry Hester, AIA, has opened an office at Pier 7, Embarcadero, San Francisco. He is maintaining a temporary San Diego office at 3030½ Macauley, with Ronald Davis in charge, pending a later move to permanent quarters.

NEW FIRM NAME: Seattle partners Ibsen A. Nelsen and Russell B. Sabin who have been practicing under the former's name at 1314 E. 43rd St., now are known as Ibsen A. Nelsen, Russell B. Sabin, architects.

OREGON BOARD MOVES: Offices of the Oregon State Board of Architect Examiners were moved on August 1 from the Concord Bldg. to 307 Portland Trust Bldg., Portland. The office will be open Mondays, Tuesdays and Thursdays, and the new phone number is CApitol 7-1073.

Mrs. Joyce Wineberg is acting secretary, replacing Mrs. Margaret Goodin Fritsch, AIA. Mrs. Fritsch had served in the post since 1926, succeeding architect George M. Post, the first secretary, who took office in 1919. Mrs. Fritsch has announced no future plans.

Other new officers of the board are Irving G. Smith of Portland, president; Cleo Jenkins of Corvallis, vice president, and George Whittier of Portland, treasurer.

A revised version of the "California Form of Agreement Between Owner and Architect for School Building Projects" is now available and copies may be obtained from the California Council of Architects office at 26 O'Farrell St., San Francisco 8, at a cost of 10c each. Quantities larger than 100 will be made available to chapters at a special rate.

SERVICE CITED: Fred Brinkman, of the Kalispell architectural firm of Brinkman & Lenon, recently received recognition for 16 years of service on the Montana Architectural Registration Board.

EDUCATIONAL CONSULTANT: W. Harold Farquar, for the past eight years superintendent of the Southern Humboldt Unified School District, has joined the San Francisco architectural-engineering firm of Ernest Frederick Winkler as an educational consultant in the field of school plant construction.

ON WSC CAMPUS: Charles D. Peterson will leave the office of Seattle architect William Aitken to take over basic design courses at Washington State College, Pullman, this fall. He will replace Thorkel Haaland who died of a heart attack early this year. Both men had been classmates at Massachusetts Institute of Technology.

Peterson has been with Aitken since taking his master of architecture in January 1955. He received his bachelor's degree from the University of Minnesota and has taught part time in the Boston Architectural Center. He has been associated with architectural firms in New England and the Midwest.

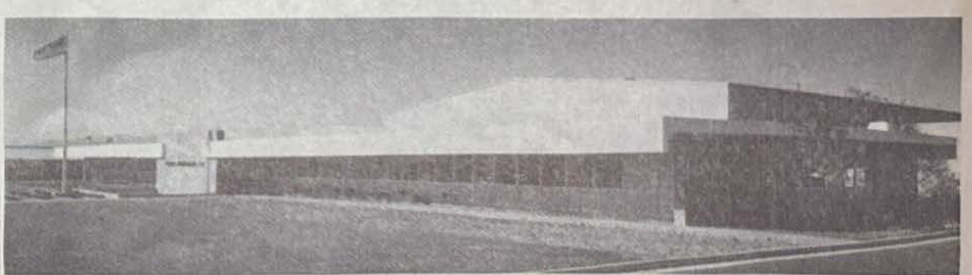
Robert Darlington will return to the WSC campus this fall after a leave of absence during which he earned his master of architecture at the University of Minnesota. He recently received a $2,500 prize for ranking third in the national porcelain enamel design competition.

Named: Architect Robert D. McDonald has been elected president of the Citizens Association of Duarte, Calif.

New president of the La Jolla (Calif.) Town Council is Roy M. Drew, AIA.

Francis E. Huggard, AIA, has been appointed to the Seattle City Planning Commission, succeeding another architect, J. Lister Holmes, AIA.

CONSULTING ENGINEERS: J. Donald Kroeker has been elected first president of the Consulting Engineers Association of Oregon, a 41-member organization formed last month. Other officers, all of Portland: Chet A. Kershaw, vice president; R. Evan Kennedy, secretary; Grant R. Kelley, treasurer. The board of directors includes Thomas R. Miles and H. Loren Thompson, both of Portland; Holly A. Cornell, Corvallis; and Lloyd K. Clark, Salem.



LOS ANGELES ARCHITECTS AND ENGINEERS, Pereira & Luckman, have been honored for their design of the recently completed $4,500,000 Hunter Engineering Co. plant in Riverside, Calif., selected by Factory Management & Maintenance magazine as a "Significant Plant of the Year." It was one of 23 winners of special awards in the annual competition. Facade of the 134,432-sq. ft. structure is beige stucco, set off by white dividers, white stucco fascia and stone.

LONG RANGE PLANNING WITH PORCELAIN *enamel* FOR THE BUILDING INDUSTRY



BLUE CROSS BUILDING, Los Angeles
Architects: ALLISON AND RIBLE, A. I. A.
General Contractor: FORD J. TWAITS CO.

ANOTHER outstanding architectural achievement... designed to meet functional and structural needs for today and many decades to come.

Virtually the entire exterior of this building is protected by Architectural Porcelain Enamel fused to the inherent strength of steel. The locked-in beauty of this lifetime material insures that future years will find this structure as fresh and modern as today!

The versatility of Porcelain Enamel provides complete design freedom... with choice of any color of the spectrum—and finishes ranging from high gloss to semi-matte.

WRITE TODAY for latest details and Color Chart.



● *Architectural Porcelain Enamel used for veneer, louvers, soffits, sills, jambs and headers.*

ARCHITECTURAL DIVISION

PORCELAIN ENAMEL PUBLICITY BUREAU
P. O. BOX 186 • EAST PASADENA STATION • PASADENA 8, CALIFORNIA
1444 WEBSTER STREET • ROOM 4 • OAKLAND 12, CALIFORNIA

Specify PORCELAIN ENAMEL for:
CURTAIN WALLS • WAINSCOTING • CANOPY FACIA • MARQUEE FACIA • LOUVERS • BUILDING FACIA • LETTERS
SPANDRELS • COLUMNS • MULLION COVERS • PARAPET CAPS • WATER TABLES • BULKHEADS • TOWER FACING

Pacific Architect and Builder

T-square talk

about architects • planners • engineers

NEW PARTNERSHIPS: Gifford E. Sobey and Marvin S. Knox have formed an architectural partnership under the firm name of Sobey & Knox and have moved to new offices at 200 San Mateo Ave., Los Gatos, Calif.

In Billings, Mont., Vernon Drake, AIA, and F. Wayne Gustafson, AIA, have formed a partnership for the practice of architecture in the Empire Building. Drake has been engaged in private practice in Billings since 1950. Gustafson has been a member of his new partner's staff for 1½ years. Both are Montana State College graduates.

NEW OFFICES: John R. Ross has opened an office for the practice of architecture at 544 S. Bascom Ave., San Jose, Calif. (CYpress 7-5459). A graduate of the University of Southern California in 1949, he has been associated with several architectural firms in Los Angeles and San Jose.

Rodney J. Grider has opened an architectural office at 1321 Vista Ave., Boise, Idaho. He is a graduate of the University of Idaho and has been associated with the office of Thomas M. I. Leake since 1953.

James Greco has opened an office for the practice of architecture at 771 Lakeview Blvd., Seattle (FRanklin 2405).

ON THE MOVE: The Seattle architectural firm of Waldron & Dietz is now located at 215 Eighth Ave. N.

Henry Hester, AIA, has opened an office at Pier 7, Embarcadero, San Francisco. He is maintaining a temporary San Diego office at 3030½ Macauley, with Ronald Davis in charge, pending a later move to permanent quarters.

NEW FIRM NAME: Seattle partners Ibsen A. Nelsen and Russell B. Sabin who have been practicing under the former's name at 1314 E. 43rd St., now are known as Ibsen A. Nelsen, Russell B. Sabin, architects.

OREGON BOARD MOVES: Offices of the Oregon State Board of Architect Examiners were moved on August 1 from the Concord Bldg. to 307 Portland Trust Bldg., Portland. The office will be open Mondays, Tuesdays and Thursdays, and the new phone number is CApitol 7-1073.

Mrs. Joyce Wineberg is acting secretary, replacing Mrs. Margaret Goodin Fritsch, AIA. Mrs. Fritsch had served in the post since 1926, succeeding architect George M. Post, the first secretary, who took office in 1919. Mrs. Fritsch has announced no future plans.

Other new officers of the board are Irving G. Smith of Portland, president; Cleo Jenkins of Corvallis, vice president, and George Whittier of Portland, treasurer.

A revised version of the "California Form of Agreement Between Owner and Architect for School Building Projects" is now available and copies may be obtained from the California Council of Architects office at 26 O'Farrell St., San Francisco 8, at a cost of 10c each. Quantities larger than 100 will be made available to chapters at a special rate.

SERVICE CITED: Fred Brinkman, of the Kalispell architectural firm of Brinkman & Lenon, recently received recognition for 16 years of service on the Montana Architectural Registration Board.

EDUCATIONAL CONSULTANT: W. Harold Farquar, for the past eight years superintendent of the Southern Humboldt Unified School District, has joined the San Francisco architectural-engineering firm of Ernest Frederick Winkler as an educational consultant in the field of school plant construction.

ON WSC CAMPUS: Charles D. Peterson will leave the office of Seattle architect William Aitken to take over basic design courses at Washington State College, Pullman, this fall. He will replace Thorkel Haaland who died of a heart attack early this year. Both men had been classmates at Massachusetts Institute of Technology.

Peterson has been with Aitken since taking his master of architecture in January 1955. He received his bachelor's degree from the University of Minnesota and has taught part time in the Boston Architectural Center. He has been associated with architectural firms in New England and the Midwest.

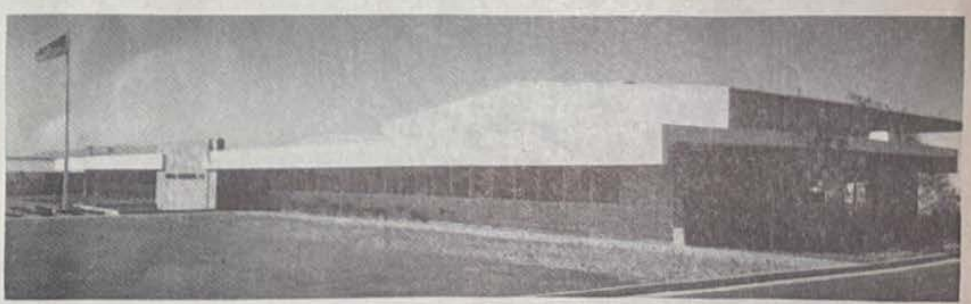
Robert Darlington will return to the WSC campus this fall after a leave of absence during which he earned his master of architecture at the University of Minnesota. He recently received a $2,500 prize for ranking third in the national porcelain enamel design competition.

Named: Architect Robert D. McDonald has been elected president of the Citizens Association of Duarte, Calif.

New president of the La Jolla (Calif.) Town Council is Roy M. Drew, AIA.

Francis E. Huggard, AIA, has been appointed to the Seattle City Planning Commission, succeeding another architect, J. Lister Holmes, AIA.

CONSULTING ENGINEERS: J. Donald Kroeker has been elected first president of the Consulting Engineers Association of Oregon, a 41-member organization formed last month. Other officers, all of Portland: Chet A. Kershaw, vice president; R. Evan Kennedy, secretary; Grant R. Kelley, treasurer. The board of directors includes Thomas R. Miles and H. Loren Thompson, both of Portland; Holly A. Cornell, Corvallis; and Lloyd K. Clark, Salem.



LOS ANGELES ARCHITECTS AND ENGINEERS, Pereira & Luckman, have been honored for their design of the recently completed $4,500,000 Hunter Engineering Co. plant in Riverside, Calif., selected by Factory Management & Maintenance magazine as a "Significant Plant of the Year." It was one of 23 winners of special awards in the annual competition. Facade of the 134,432-sq. ft. structure is beige stucco, set off by white dividers, white stucco fascia and stone.

Office building has 82% rentable floor space

8820 Wilshire Building
Beverly Hills, California

ABSMEIER, O'LEARY & TERASAWA
Architects

JOHN E. MACKEL
Structural Engineer

GILBERT J. COMEAU
Mechanical Engineer

THOMAS H. SAUER
Electrical Engineer

CONTRACTING ENGINEERS CO.
General Contractor

WHEN CORPORATION EXECUTIVES decided to construct a medical office building on a $129,000 corner lot as in investment, they asked for the greatest possible site utilization, economical materials and functional design. Their $475,000 construction budget gave them three floors, a penthouse and a total of 27,912 sq. ft., of which 82% or 22,863 sq. ft. is net rentable floor space.

Because of the requirements of easy maintenance and inherent economy, the architects chose masonry construction to produce a pleasing exterior which need never be painted and eliminates expensive upkeep. They carried the masonry idea inside, using brick and plaster, with terrazzo and asphalt tile on the lightweight concrete slab floors to withstand rough treatment.

The structure contains the building corporation's office, a pharmacy, a clinical laboratory, a radiological suite and 28 "profitable" rental medical and dental suites.

To provide for complete flexibility of office arrangements, the architects used column spacing and a modular window layout; located heating ducts above suspended ceilings for ease of alteration; grouped plumbing risers in positions accessible from any part of the building; and installed electrical and wiring in floor ducts.

Parking, often a problem with rental buildings, has been solved in this instance. The rear of the lot and the rear of an available adjacent lot are used by a concessionaire who furnishes attendants. Slightly more than 50 autos can be accomodated normally and as many as 200 per day have been handled.

OUTLINE SPECIFICATIONS

Type of Construction: Masonry on caissons and concrete beam foundation.

Exterior Walls: Solid masonry and poured concrete faced with Norman brick, one-third bond, with motar joints same color as brick; Hollobilt store front metalwork; adjustable aluminum louvers.

Roof: Flat, composition built up with lightweight concrete thermal insulation, 4-in. fill.

Floors: Lightweight concrete over steel decking with steel joist frames, covered with terrazzo and asphalt tile.

Windows: Ceco architectural projected steel sash in reinforced concrete frames.

Doors: Tubular aluminum and wood slab.

Interior Finish: Brick, plaster and ceramic tile on frame and gypsum lath partitions.

Ceilings: Plaster and acoustical tile.

Heating: Gas fired Hayes furnaces.

Air Conditioning: 80-ton Chrysler Air-Temp system.

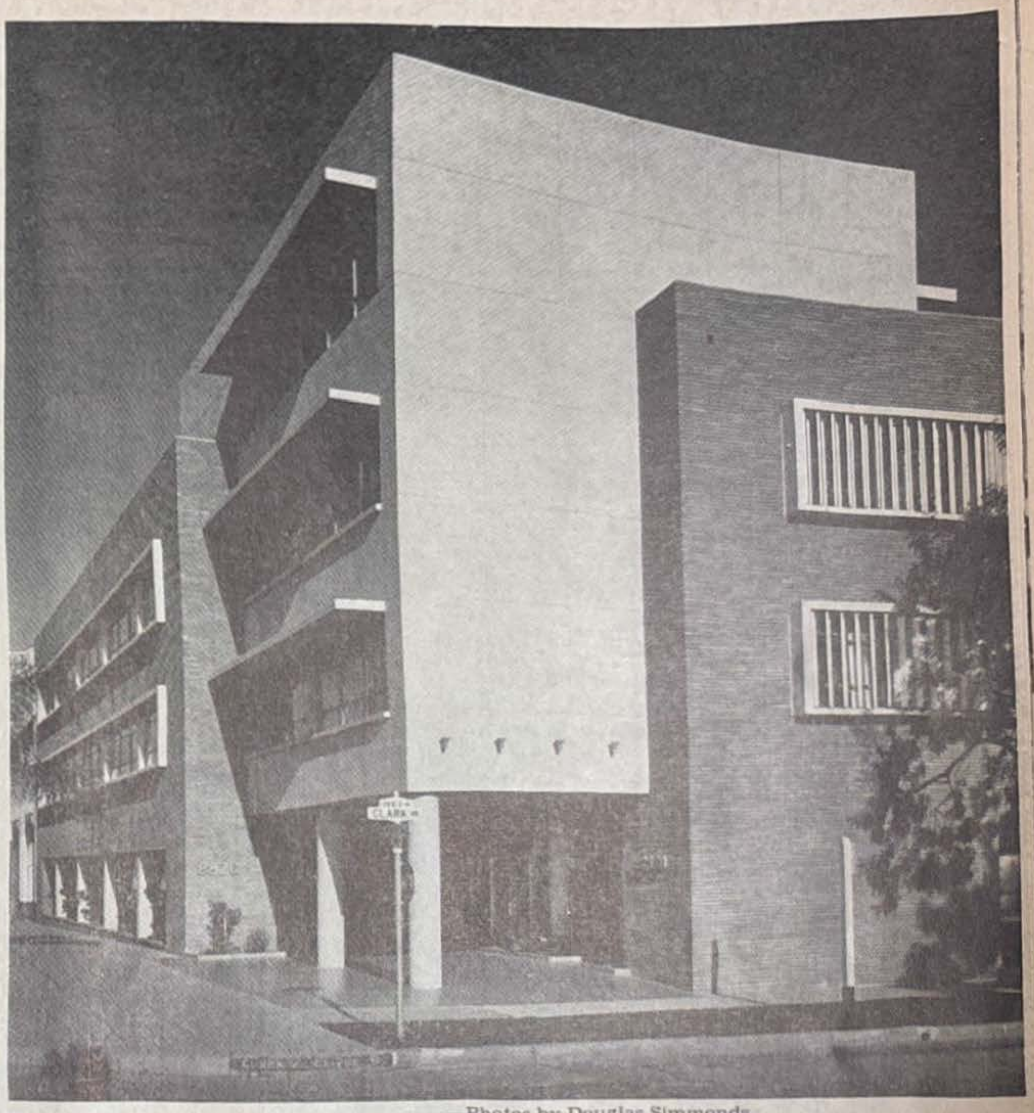
Total Cost: $475,000.

Total Area: 27,912 sq. ft.

	Gross Floor Area (Square feet)	Net Rentable Floor Area (Square feet)	Percent Rentable
1st floor	8,447	6,283	74½
2nd floor	8,905	7,554	85
3rd floor	8,905	7,554	85
Penthouse	1,655	1,472	89
	27,912	22,863	82







—Photos by Douglas Simmonds

WEST SUN is controlled by adjustable aluminum louvers. Exterior is faced with Norman brick; entry floor, columns and planting boxes are terrazzo. Pharmacy entrance gives impression of great size.



Some philosophical questions about design

An address presented at the sixth International Design Conference at Aspen, Colo., by the co-founder of the Great Books Course and present director of the Institute of Philosophic Research in San Francisco

By MORTIMER ADLER

THE QUESTIONS about design I would like to ask are, I hope, not philosophical in the sense that they are of interest only to philosophers. I would prefer to think that they are philosophical because they are fundamental and inescapable questions which anyone who is interested in design must face.

Let me say at once that I do not know the answers to them. I do not understand the nature and meaning of design well enough to find the answers or, given competing answers, to judge where the truth lies. I look to you who have such understanding for the right answers and for the reasons why they are true.

The questions themselves, of course, rest upon some understanding of education and of art. As a philosopher who has long been concerned with both subjects, I think I have enough understanding of the purpose and kinds of education and of the purpose and kinds of art to make clear why I ask what kind of art design is, what purpose it has and what kind of education you have in mind when you propose to discuss the relation of education and design.

Let me begin with a basic distinction in the kinds of education and proceed to an equally basic and closely related distinction in the kinds of art. My questions about design will emerge from these distinctions. The clarity of the questions will depend on the clarity of the distinctions.

* * *

The most fundamental distinction in the sphere of education or learning, in school and out, turns on the purpose for which anyone learns anything.

If the learning is for the sake of leisure, it is liberal. If it is for the sake of labor, in the sense of work productive of the means of subsistence, or even of the comforts and conveniences of life, then it is **not** liberal. I say "**not** liberal" rather than "vocational" or "technical," because some of the arts for which technical training is needed belong to the pursuits of leisure and some of the professions for which men must be vocationally educated are creative of goods that enrich the mind and spirit of man rather than productive of things that serve the needs or comforts of his body. To name the kind of education which is **not** liberal because it is concerned with the production of such serviceable things, the designation which seems to me most apt, though it is likely to be misunderstood, is "servile." Anything which is a means to an end is useful. Both liberal and servile education are, therefore, useful; but they differ in the ends at which they aim and the uses to which they are put.

While it is not possible for men to live well unless they have the means of subsistence, it is quite possible for men to live, in the sense of subsisting, without living well. By living well as opposed to merely living, I do not mean having a plentiful supply of the means of subsistence as opposed to a meager amount. It is quite possible and, unfortunately, all too easy for men not to live well with superabundant wealth. King Midas with all his gold lived no better than the poorest beggar in his court. The opposite is also true. The mendicant St. Francis lived very well indeed on very meager means. So did Socrates. Living well involves all the activities of human life which are concerned with the creation and enjoyment of those goods that enrich the spirit of man and enhance human civilization or culture. They are the goods of leisure, that portion of man's time which is free from the biological necessity of servile work to provide the means of subsistence and of sleep and play to remove the fatigues of toil.

Hence when I distinguish between liberal and servile education by reference to leisure and labor, I am saying that one kind of training aims at helping men to live well and the other at helping them to earn a living. It must be remembered that we are here differentiating one kind of learning from another in terms of its purpose, not in terms of the content or subject matter of what is being learned. Though music, logic and physics are traditionally regarded as liberal arts and sciences, and have for centuries been part of the content of liberal education, it is possible to study them solely for the illiberal purpose of earning a living. Anything can be put to a servile use. A sonata by Mozart can be used to put the baby to sleep and a painting by Raphael to conceal a hiding place for bonds or jewels.

On the other hand, carpentry, masonry and the other skills involved in house building and furniture making have usually been practiced as servile arts and have traditionally been excluded from the curriculum of liberal education. Yet it is also possible to learn carpentry and related skills for the wholly liberal purpose of creating and enjoying some value that is in excess of any need for shelter or physical comfort. A Sheraton table can be placed on a platform, like a statue on a pedestal, for exhibition and with ropes around it to prevent anyone from sitting down to use it; the Parthenon no longer provides shelter for religious worship but it can still be looked at with spiritual profit.

Nevertheless, as I shall try to show in a moment, there is good reason why certain arts, traditionally classified as liberal, are normally and properly the content of liberal education, even though they can always be misused for servile purposes. The same reason explains why other arts or skills are normally and properly excluded from liberal education, even though their products sometimes escape being consumed for the needs or conveniences of living and exist to be enjoyed for the pleasure they contribute to life. But before I divide the arts into those which are essentially liberal and those which are primarily servile, let me ask my first question about design.

What kind of education do you have in mind when you come here to consider the relation of education and design? Looked at one way, that question is too easy; in fact, it is hardly a question at all if all that is meant by "education" is the study of principles and the acquirement of the skills of design. Let me, therefore, rephrase the question in the following way. **Do you think that design should be a part of truly liberal education or do you think that training is primarily servile in its purpose?**

* * *

I realize that you cannot answer this question without first answering a more basic question about the nature of design itself, as an art or skill and as a vocation or profession. I could ask that question at once if I could suppose that you regarded poetry, music and painting, or logic,

Continued on page 25



Bring a little outside inside

With Soulé Intermediate steel windows, you specify the opening dimensions, and we'll supply the exact windows you want. There's no limit to stock sizes with Soulé steel windows. And with our design-engineering service to help you with problems concerning materials, sizes and shapes, there's no premium cost either. Big bonus advantages include Western manufacture and installation by Soulé crews—on time! You deal with one major source for windows and installation, get maximum job protection and guarantee. Call or write your nearest Soulé office for details and specifications. Our sales engineers will gladly supply you with data for your files.

Menlo-Atherton High School, A. D. Janssen, A.I.A., architect.
Associate architects: W. H. Daseking, A.I.A., W. C. Keller, A.I.A.
Contractor: George Bianchi.



CATALOGS (S) IN SWEET'S

Soulé
LEADER IN METAL WINDOWS

3732

SOULÉ STEEL COMPANY

San Francisco 1750 Army St., VAlencia 4-4141 • Los Angeles 6200 Wilmington Ave., LUdlow 5-0911
San Diego 3741 Fifth Ave., CYpress 5-6289 • Portland 2630 N.W. St. Helens Rd., CApitol 3-5154
Seattle 4100 West Marginal Way, HOlly 3600 • Spokane 405 American Legion Bldg., MAdison 6000
Phoenix 2026 South 11th Ave., ALpine 3-3178 • Salt Lake City 220 Greyhound Bldg., EMpire 3-7601
Dallas 528 Interurban Bldg., Riverside 5225

Some philosophical questions about design

An address presented at the sixth International Design Conference at Aspen, Colo., by the co-founder of the Great Books Course and present director of the Institute of Philosophic Research in San Francisco

By MORTIMER ADLER

THE QUESTIONS about design I would like to ask are, I hope, not philosophical in the sense that they are of interest only to philosophers. I would prefer to think that they are philosophical because they are fundamental and inescapable questions which anyone who is interested in design must face.

Let me say at once that I do not know the answers to them. I do not understand the nature and meaning of design well enough to find the answers or, given competing answers, to judge where the truth lies. I look to you who have such understanding for the right answers and for the reasons why they are true.

The questions themselves, of course, rest upon some understanding of education and of art. As a philosopher who has long been concerned with both subjects, I think I have enough understanding of the purpose and kinds of education and of the purpose and kinds of art to make clear why I ask what kind of art design is, what purpose it has and what kind of education you have in mind when you propose to discuss the relation of education and design.

Let me begin with a basic distinction in the kinds of education and proceed to an equally basic and closely related distinction in the kinds of art. My questions about design will emerge from these distinctions. The clarity of the questions will depend on the clarity of the distinctions.

* * *

The most fundamental distinction in the sphere of education or learning, in school and out, turns on the purpose for which anyone learns anything.

If the learning is for the sake of leisure, it is liberal. If it is for the sake of labor, in the sense of work productive of the means of subsistence, or even of the comforts and conveniences of life, then it is **not** liberal. I say "**not** liberal" rather than "vocational" or "technical," because some of the arts for which technical training is needed belong to the pursuits of leisure and some of the professions for which men must be vocationally educated are creative of goods that enrich the mind and spirit of man rather than productive of things that serve the needs or comforts of his body. To name the kind of education which is **not** liberal because it is concerned with the production of such serviceable things, the designation which seems to me most apt, though it is likely to be misunderstood, is "servile." Anything which is a means to an end is useful. Both liberal and servile education are, therefore, useful; but they differ in the ends at which they aim and the uses to which they are put.

While it is not possible for men to live well unless they have the means of subsistence, it is quite possible for men to live, in the sense of subsisting, without living well. By living well as opposed to merely living, I do not mean having a plentiful supply of the means of subsistence as opposed to a meager amount. It is quite possible and, unfortunately, all too easy for men not to live well with superabundant wealth. King Midas with all his gold lived no better than the poorest beggar in his court. The opposite is also true. The mendicant St. Francis lived very well indeed on very meager means. So did Socrates. Living well involves all the activities of human life which are concerned with the creation and enjoyment of those goods that enrich the spirit of man and enhance human civilization or culture. They are the goods of leisure, that portion of man's time which is free from the biological necessity of servile work to provide the means of subsistence and of sleep and play to remove the fatigues of toil.

Hence when I distinguish between liberal and servile education by reference to leisure and labor, I am saying that one kind of training aims at helping men to live well and the other at helping them to earn a living. It must be remembered that we are here differentiating one kind of learning from another in terms of its purpose, not in terms of the content or subject matter of what is being learned. Though music, logic and physics are traditionally regarded as liberal arts and sciences, and have for centuries been part of the content of liberal education, it is possible to study them solely for the illiberal purpose of earning a living. Anything can be put to a servile use. A sonata by Mozart can be used to put the baby to sleep and a painting by Raphael to conceal a hiding place for bonds or jewels.

On the other hand, carpentry, masonry and the other skills involved in house building and furniture making have usually been practiced as servile arts and have traditionally been excluded from the curriculum of liberal education. Yet it is also possible to learn carpentry and related skills for the wholly liberal purpose of creating and enjoying some value that is in excess of any need for shelter or physical comfort. A Sheraton table can be placed on a platform, like a statue on a pedestal, for exhibition and with ropes around it to prevent anyone from sitting down to use it; the Parthenon no longer provides shelter for religious worship but it can still be looked at with spiritual profit.

Nevertheless, as I shall try to show in a moment, there is good reason why certain arts, traditionally classified as liberal, are normally and properly the content of liberal education, even though they can always be misused for servile purposes. The same reason explains why other arts or skills are normally and properly excluded from liberal education, even though their products sometimes escape being consumed for the needs or conveniences of living and exist to be enjoyed for the pleasure they contribute to life. But before I divide the arts into those which are essentially liberal and those which are primarily servile, let me ask my first question about design.

What kind of education do you have in mind when you come here to consider the relation of education and design? Looked at one way, that question is too easy; in fact, it is hardly a question at all if all that is meant by "education" is the study of principles and the acquirement of the skills of design. Let me, therefore, rephrase the question in the following way. **Do you think that design should be a part of truly liberal education or do you think that training is primarily servile in its purpose?**

* * *

I realize that you cannot answer this question without first answering a more basic question about the nature of design itself, as an art or skill and as a vocation or profession. I could ask that question at once if I could suppose that you regarded poetry, music and painting, or logic,

Continued on page 25



Bring a little outside inside

With Soulé Intermediate steel windows, you specify the opening dimensions, and we'll supply the exact windows you want. There's no limit to stock sizes with Soulé steel windows. And with our design-engineering service to help you with problems concerning materials, sizes and shapes, there's no premium cost either. Big bonus advantages include Western manufacture and installation by Soulé crews—on time! You deal with one major source for windows and installation, get maximum job protection and guarantee. Call or write your nearest Soulé office for details and specifications. Our sales engineers will gladly supply you with data for your files.

Menlo-Atherton High School, A. D. Janssen, A.I.A., architect.
Associate architects: W. H. Daseking, A.I.A., W. C. Keller, A.I.A.
Contractor: George Bianchi.



CATALOGS (S) IN SWEET'S

Soulé
LEADER IN METAL WINDOWS

3732

SOULÉ STEEL COMPANY

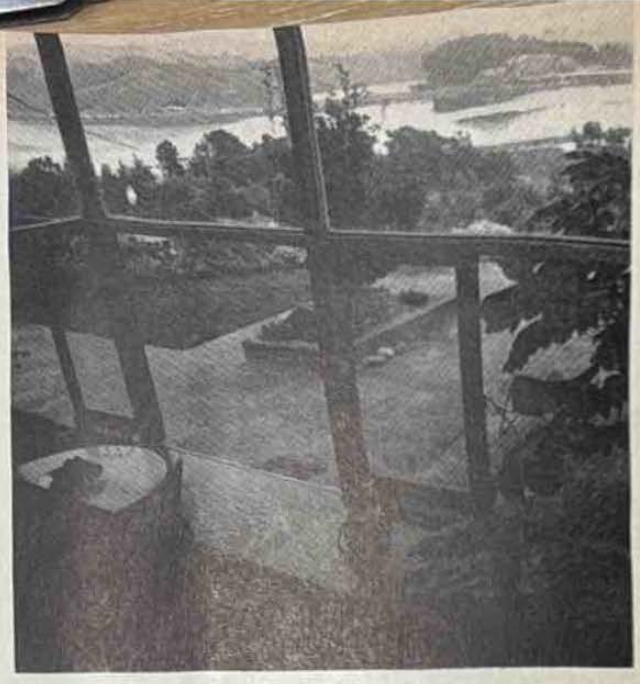
San Francisco 1750 Army St., VAlencia 4-4141 • Los Angeles 6200 Wilmington Ave., LUdlow 5-0911
San Diego 3741 Fifth Ave., CYpress 5-6289 • Portland 2630 N.W. St. Helens Rd., CApitol 3-5154
Seattle 4100 West Marginal Way, HOlly 3600 • Spokane 405 American Legion Bldg., MAdison 6000
Phoenix 2026 South 11th Ave., ALpine 3-3178 • Salt Lake City 220 Greyhound Bldg., EMpire 3-7601
Dallas 528 Interurban Bldg., Riverside 5225

Donn Emmons Residence
Mill Valley, California

WURSTER, BERNARDI & EMMONS, Architects

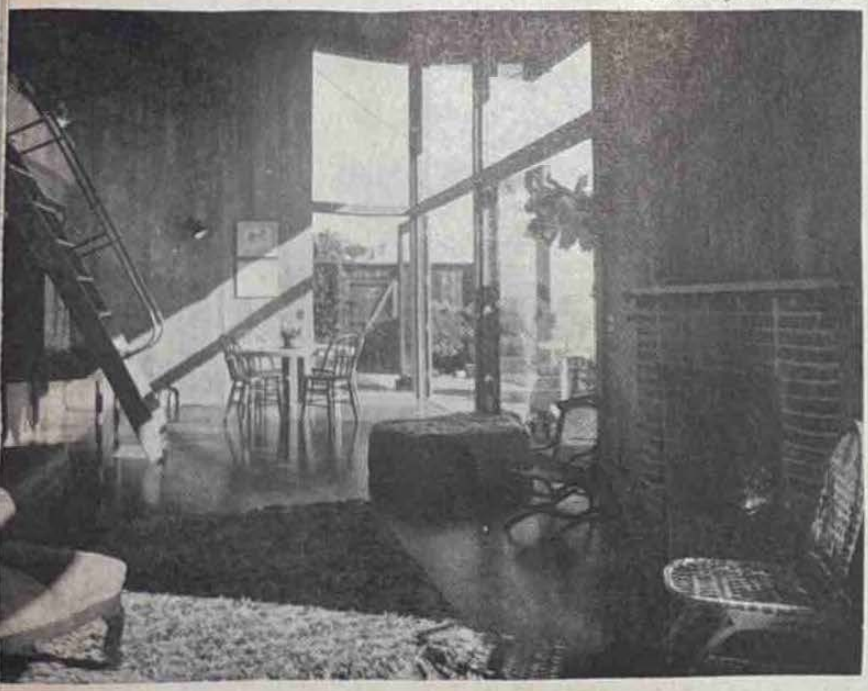
LAWRENCE HALPRIN, Landscape Architect

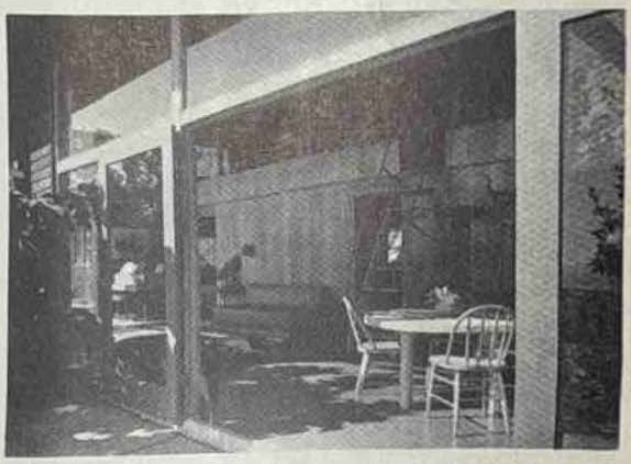
HENRY ARIAN and JOHN CLYDE, General Contractors



LIVING ROOM and outdoor living area (below) are bathed in morning sun, shaded in late afternoon. View at early evening from upper balcony level (right) shows panorama of San Francisco Bay area, with Richardson Bay in foreground.

Photos by Phil Palmer





Lots of livable space on tight plan

"WE WANTED a small house as an economic hedge against the possibility of inflation," explains the client, a partner in the architectural firm which designed this residence. "We also wanted a minimum of housekeeping and of non-essential space, such as hallways, and a maximum of interfamily privacy in a house of generous character."

The site that the architect-client had in mind is tabled on a hill sloping sharply to the east, overlooking a portion of San Francisco Bay, Marin County, the Bay Bridge and East Bay cities. It was subject to the wind from the west, especially during the summer months, and was well exposed to the sun. The year-round mildness of climate and the view called for an open effect toward the east and south.

The tight plan uses land sparingly but provides the family of five with a room for themselves, a guest room, two separate bedrooms for the three small children, a large living-dining area and a small kitchen. All of this is in a 24x32-ft. rectangle with two levels of sleeping quarters, one on a mezzanine reached by a ship's ladder which eliminates the need for a stair hall.

The adaptation of the mezzanine with open ladder resulted in a two-story house without the "walk up and down" or boxed room features or expensive rambling of the single-story type unit. The four-bedroom, two-bath home is amazingly spacious. One third of the total space—1,250 sq. ft.—is in the main living area.

The dormitory section stacks one level of sleeping areas above the other, with the kitchen tucked off to the side. The children's bedrooms are completely closed off and private; the master bedroom upstairs and the bedroom downstairs are open to a high glass wall, 32 ft. long and 16 ft. high, at the front of the house.



HIGH WOOD FENCE protects outdoor patio and terrace from westerly winds. Terrace is paved with pebbled concrete squares separated by wood strips.

Costing $12,500, exclusive of land or landscaping, the house was built at $10 per square foot in a custom construction operation. Included in this figure are radiant heat in colored slab, a brick fireplace with large outside flue and wide swinging doors that open to a patio. The architect is convinced that a tract builder could cut that cost even lower without sacrificing any of the numerous design advantages.

The house was designed and built as one of five which have been constructed on the same plan but with varying details and landscape treatment. The three original models cost $10,000 to build but the two more recent ones increased by $2,500.

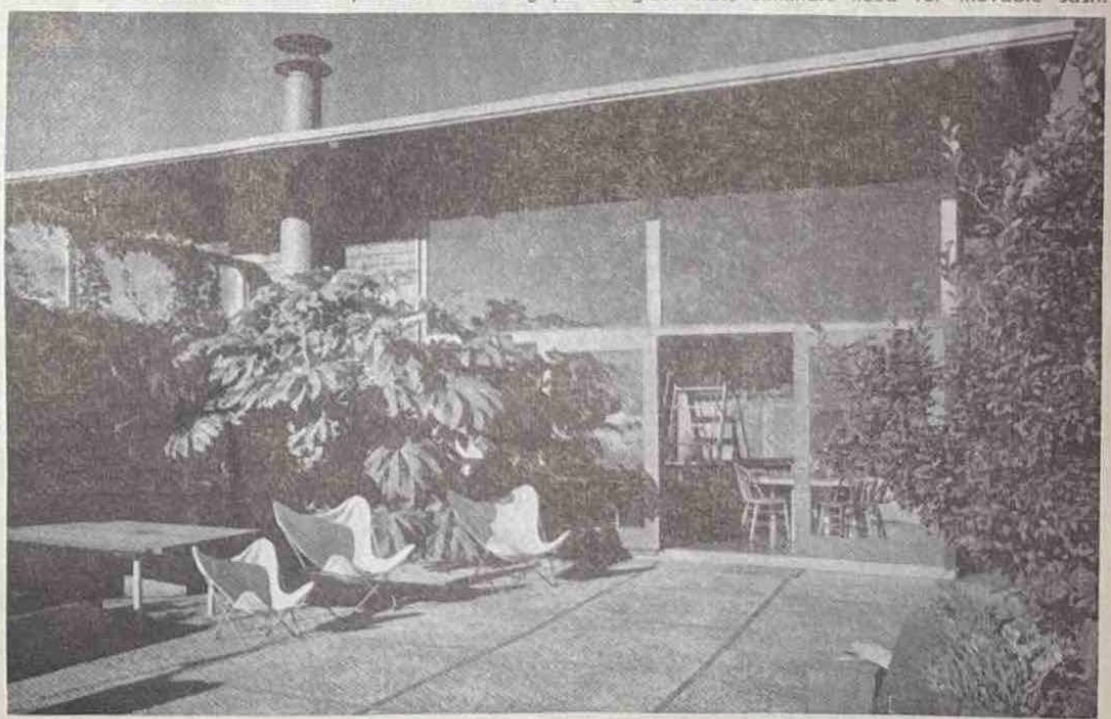
The rectangular plan and regularly spaced framing made for simple erection and low labor costs. Among construction economies were the plate glass windows which cost no more than the conventional rear wall, a solid frame and sheathing surface with five windows and a door. A saving of $300-400 was made by using 4x4 stock and 4x6 prime grades with stops rather than the usual millwork for the box fixed frames of the ¼-in. plate.

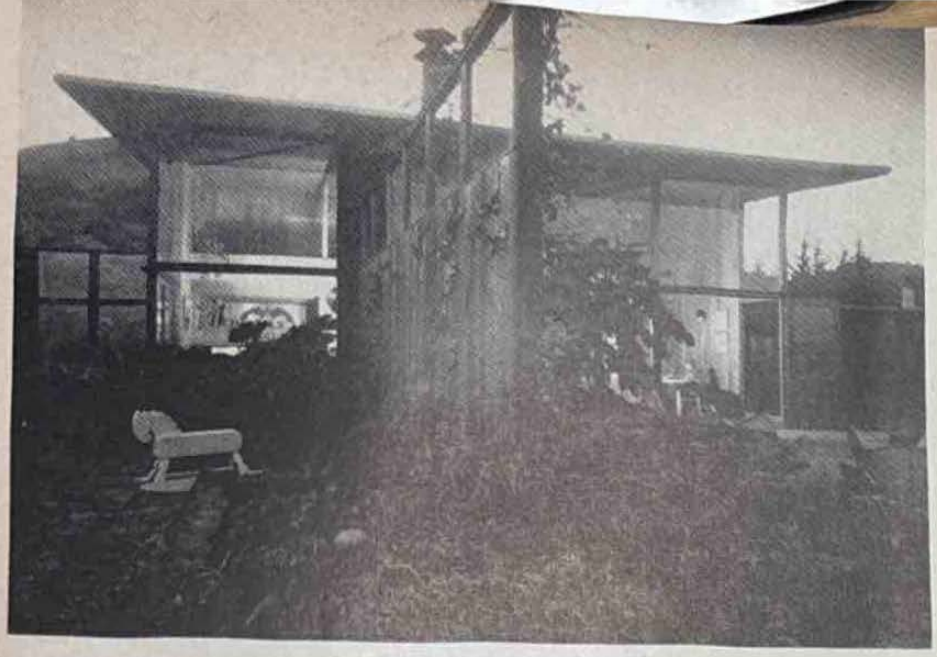
A full ventilating job for the glass side of the house is effected by the entrance doors alone, eliminating the need for expensive movable sash; and no elaborate frames are needed for the small back windows which slide in continuous wood strips nailed to the exterior wall.

The bath and kitchen are placed back to back with the second bath on the mezzanine directly above. No heating is required for the balcony floor because copper pipe embedded in the slab floor for hot water radiant heat creates sufficient convection to keep both floors at uniform temperatures.

The exterior is covered with redwood shingles; the interior with vertical unfinished California incense cedar; the slightly pitched roof with tar and lightweight, colored gravel.

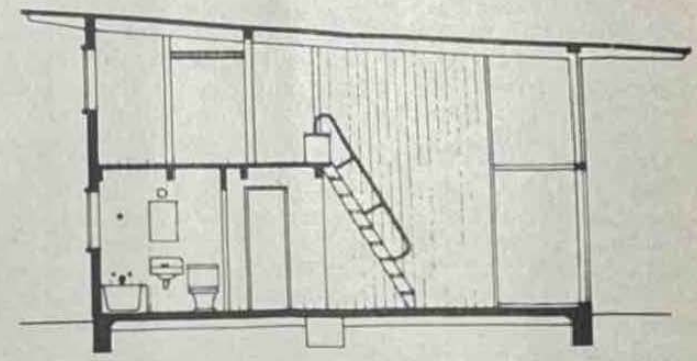
ENTRANCE DOORS perform ventilating job on glass side, eliminate need for movable sash.

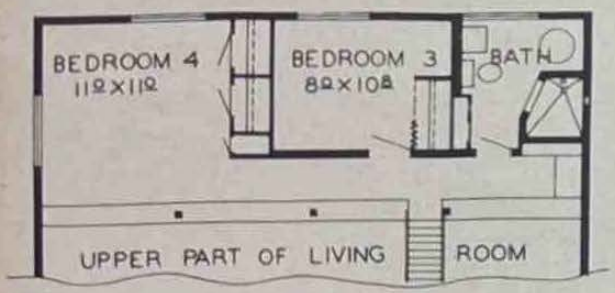




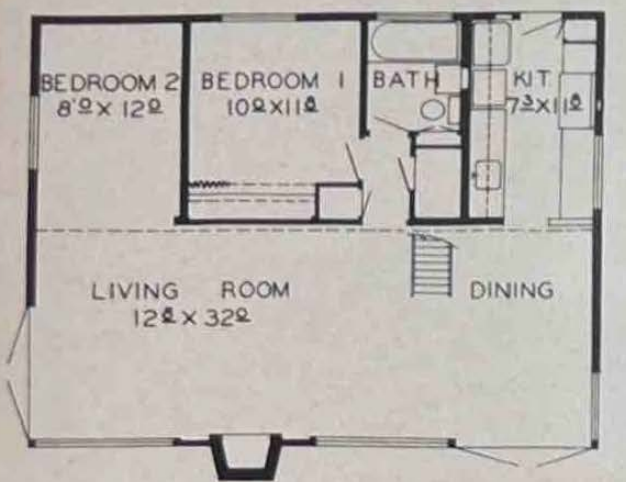
WINDBREAK also divides outdoor area into separate units for children and adults. Cross section indicates how plan turns every inch of space into livable area.

Mill Valley Residence





MEZZANINE



FIRST FLOOR

OUTLINE SPECIFICATIONS

Type of Construction: Frame on monolithically poured foundation floor slab, with troweled-in Lithochrome color hardner.

Exterior Walls: Redwood shingles over diagonal sheathing; glazed east wall of ¼-in. plate glass with stock 4x4 Douglas fir members and stops set in mastic.

Roof: 4x8 beams covered with 2x8 t&g, topped by tar and colored gravel, braced by 2x6 diagonal spiked to underside; slightly pitched.

Floors: Concrete slab; 2x4 t&g covered with carpet on mezzanine.

Windows: Double strength glass sliding in continuous strips nailed to exterior wall.

Doors: Sugar pine sash (no frames needed since strips are continuous on face of exterior walls).

Fireplace: Common sand mold brick; five clay flue lining surrounded by galvanized steel sleeves.

Stairs: Ship's ladder, 1 1/16-in. oak and brass pipe handrails ¾-in. I.D.

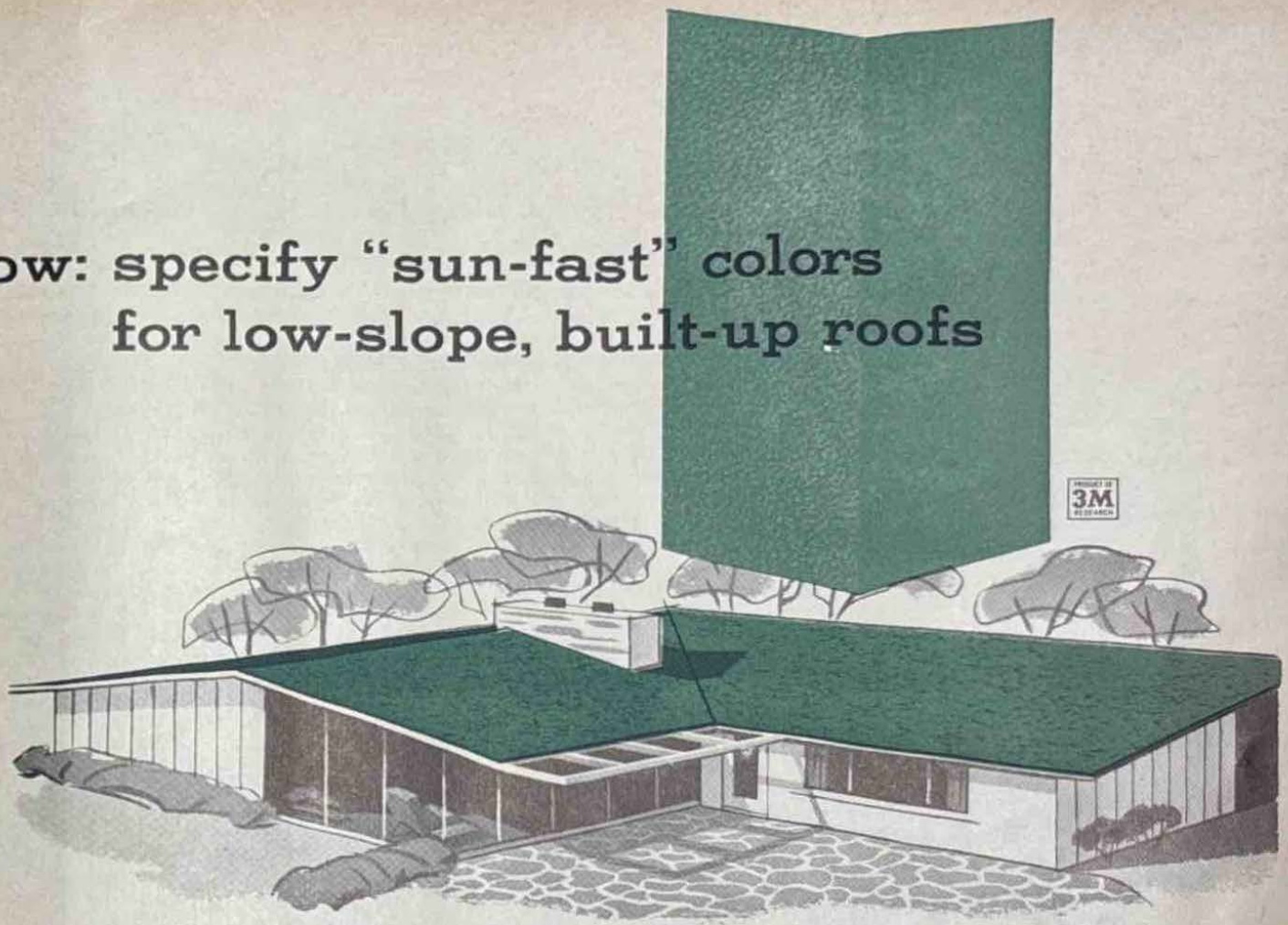
Heating: Hot water radiant copper pipes in floor slabs.

Total Cost: $12,500 (exclusive of land and landscaping).

Total Area: 1,250 sq. ft.

Cost per Square Foot: $10.

Now: specify "sun-fast" colors for low-slope, built-up roofs



3M's new coarse aggregate roofing stones offer lasting beauty and protection in 8 beautiful colors

Here is a brand-new color-styling opportunity for you. 3M Brand Ceramic-Color Stone offers beauty *and* lasting protection – opens up an entirely new field of decorating possibilities because you may select from 8 color-fast shades! Colors are "fired on" by the same special process used in making 3M Roofing Granules . . . supplied to the building trades for over 30 years.

Special treatments developed by 3M Research make 3M Brand Ceramic-Color Stone dust-free and "sun-fast" – with maximum adhesion to asphalt. The material will not strip, roll or wash away leaving bare, unsightly patches. Stones are durable, uniformly graded, dense, fully opaque to provide complete protection against damaging ultra-violet rays.

The pebble-sized stones pack tightly on roof-tops . . . create the appearance of depth and ruggedness with a built-in shadow effect. 3M Brand Ceramic-Color Stone is shipped *dust-free* in 100 lb. bags. All colors available from a single source.

LOOK AT THE COLORS

DARK GREEN	CR16	RED	CR22
BRONZE	CR49	CORAL	CR29
BROWN	CR41	LIGHT GREEN	CR17
BLUE	CR87	SILVERTONE	CR95

3M BRAND

CERAMIC-COLOR STONE

Manufactured at Little Rock, Ark. and Corona, Calif.

Made in U.S.A. by Minnesota Mining and Mfg. Co. General Offices: St. Paul 6, Minn. In Canada: P.O. Box 757, London, Ontario. Export Sales Office: 99 Park Avenue, New York City.

SEND TODAY FOR SAMPLES!

Minnesota Mining and Mfg. Co.
Dept. OC-86, St. Paul 6, Minn.

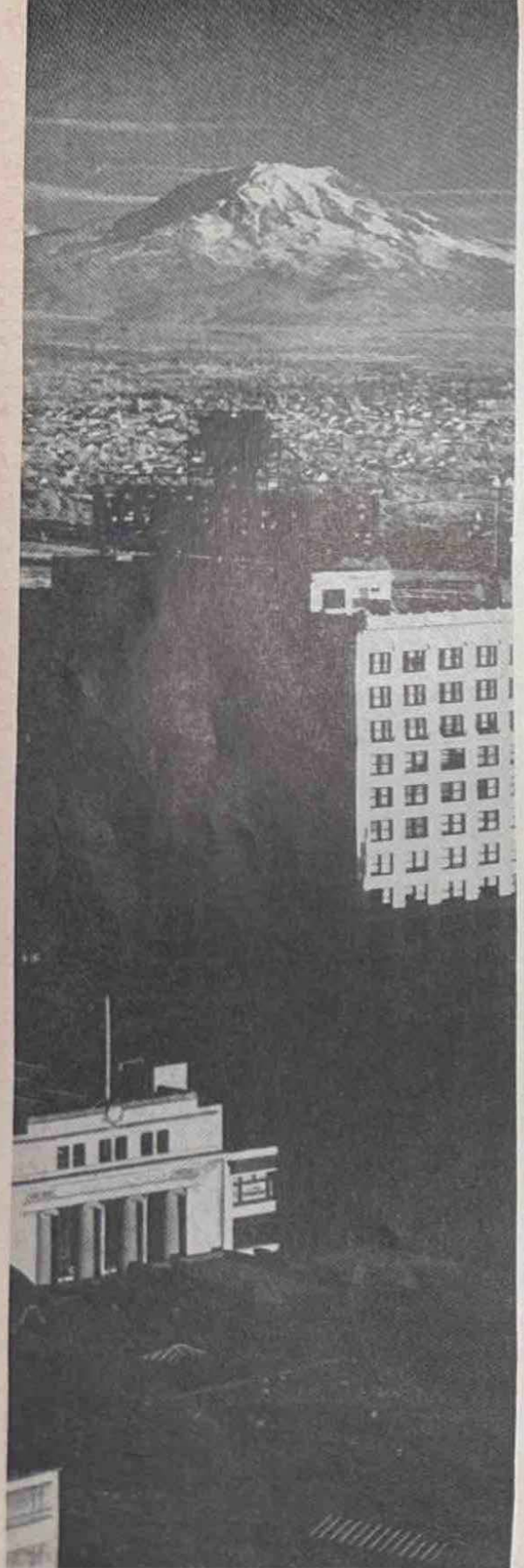
- ☐ Send me FREE sample box of 3M Brand Ceramic-Color Stone
- ☐ Send me FREE booklet on 3M Brand Ceramic-Color Stone
- ☐ Send me name of Distributor nearest me.

NAME_____ TITLE_____

COMPANY_____

ADDRESS_____

CITY_____ ZONE____ STATE_____



—Richards Studio

ARCHITECTURE IN THE TACOMA AREA

WHEN NORTHWEST ARCHITECTS convene in Tacoma next month for their fifth regional AIA conference, undoubtedly some of them will take a busman's holiday. Among the projects they may visit are the 54 important contemporary and historical buildings (of which 37 are pictured) listed on the following pages.

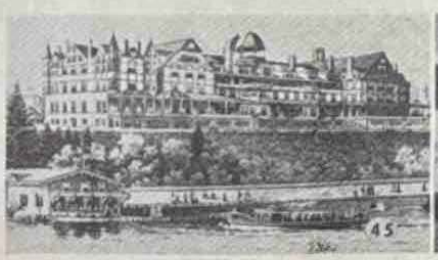
Just what is the architectural climate of the city? One of Tacoma's younger architects, Alan Liddle, AIA, sees it like this:

"They say that architecture is but a reflection of the spirit of the times; that the unrest of the contemporary scene is expressed by a diversity of architectural interpretations. Could it be then that the fluctuations in pace and mood of a city are translated into steel and concrete for posterity to decipher?

"At the turn of the century Tacoma was destined to be the metropolis of the Northwest. It was an era of imagination and exhuberance and the town had style. The best architects in the country were commissioned and the buildings of that period had a dignity and magnificence unequalled since. McKim, Mead & White's Tacoma Hotel, the County Courthouse, the Broadway Theater Building and Stadium High School are reminders of a proud period in Tacoma history.

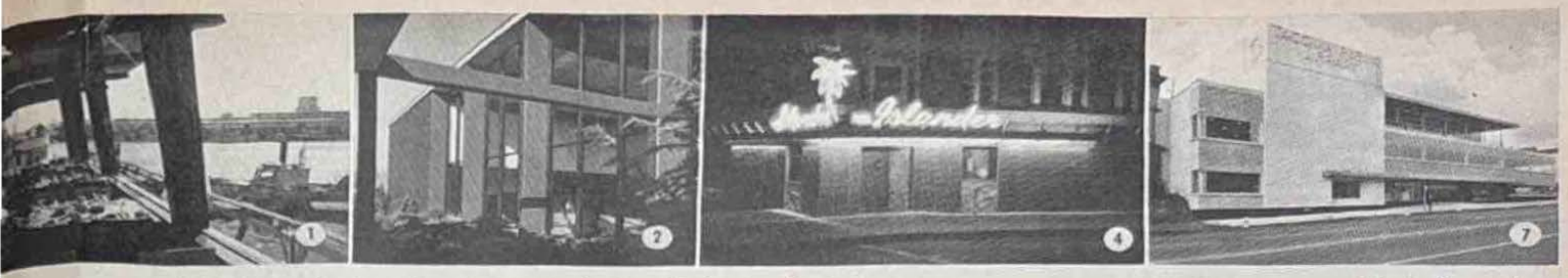
"With the removal of the Northern Pacific headquarters from Tacoma and the increase in shipping from Seattle to Alaska and the Orient, the emphasis on Seattle as industrial and cultural center of the Puget Sound region became more and more apparent. Tacoma was losing the battle for supremacy and took it hard. Two generations of Tacomans were brought up believing that the rest of the world was wrong. Mediocrity prevailed. Growth continued but the spark was gone. Block after block of homes, schools, stores and office buildings went up in a potpourri of tastes. Political intrigues set in; architects were involved. During the thirties and forties, new buildings of architectural note became nonexistent.

"But things have changed. Within the last few years Tacoma has decided where it's going. It is no longer aiming at size; it is quite content to leave that dubious asset to Seattle. Its sights are set on an economy based on diversified, medium-sized industries and has space for them in a planned industrial area. Its political structure has been reorganized under a city-manager system and Tacoma's problems are no longer headline news up and down the coast. Recognition of city planning and enthusiasm for cultural organizations are expanding at a tremendous rate. The attitude of Tacomans is again fortitudinous and imaginative. The city has regained its confidence—and so has its architecture."



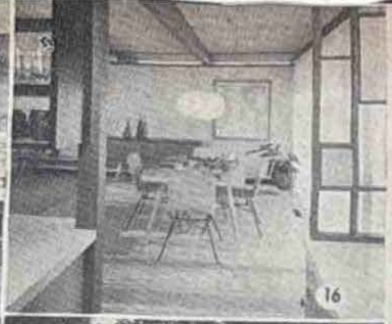


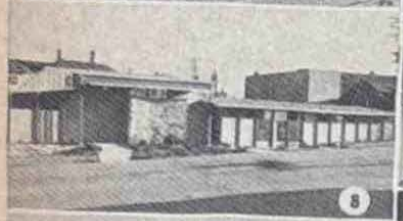
COMPILED BY THE SOUTHWEST WASHINGTON CHAPTER
AMERICAN INSTITUTE OF ARCHITECTS


1
2
Mai Islander
4
7

WEST
QUARTERMAST
MAU
PUGET
GIG HARBOR
DASH POINT
PIERCE CO
COMMENCEMENT
BAY
BROWN'S POINT
RUSTON
KING CO
WOLLOCHET
MILTON
FIFE
FIRCREST
UNIVERSITY PLACE
TACOMA
PUYALLUP
MIDLAND
STEILACOOM
LAKEWOOD
PARKLAND
McCHORD FIELD
AMERICAN LAKE
TILLICUM
AMERICAN LAKE GARDENS
FORT LEWIS
SPANAWAY

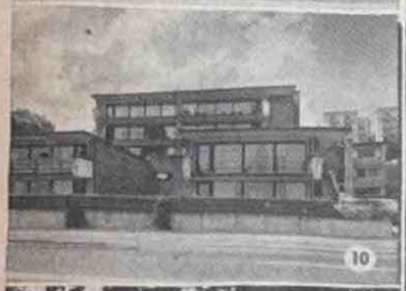




























Contemporary Buildings

1. Johnny's Dock Restaurant, Pier 3, Port of Tacoma Road, Marshall Perrow, architect.
2. National Bank of Washington, Industrial Branch, E. 11th St. and Port of Tacoma Road. Robert B. Price, architect.
3. Concrete Engineering Co. Carports, 1123 Port of Tacoma Road. Dr. Arthur Anderson, structural engineer.
4. Islander Restaurant, 11th and "A" Sts. Johnston & Evans, architects.
5. Pierce County Savings and Loan Association, 1007 Pacific Ave. Marshall Perrow, architect.
6. Tacoma Savings and Loan Association, Ninth and "A" Sts. Lea, Pearson & Richards, architects.
7. Tacoma Public Library, 11th St. and Tacoma Ave. Silas Nelson, architect.
8. Durkin and Banfield Clinic, S. 10th and "J" Sts. Lea, Pearson & Richards, architects.
9. Architects' Office Building. 240 Stadium Way, Lea, Pearson & Richards, architects.
10. Harborview Apartments, Fourth St. and Stadium Way. Lance, McGuire & Muri, architects.
11. Architects' Office Building. 225 S. Tacoma Ave. Charles Rueger & Associates, architects.
12. Normandy Room, Scotty's Restaurant, N. First St. and Tacoma Ave. Johnston & Evans, architects.
13. Judd Day Residence, 718 N. "G" St. Robert B. Price, architect.
14. George L. Davis Residence, 3616 N. 38th St. Mary Lund Davis, architect.
15. Sherman Elementary School, 4502 N. 39th St. Robert B. Price, architect.
16. Model House, 1802 N. Shirley St. Robert B. Price, architect.
17. Big Bear Supermarket, Sixth Ave. and Pearl St. Lyle Swedberg, architect.
18. St. Mark's by the Narrows Lutheran Church, N. 17th and Lenore Drive. Johnson-Austin, architects.
19. Fire Station, Sixth and Jackson Aves. Jensen & Mills, architects.
20. Donald Seifert Residence, Weatherwood Vista. Donald Seifert, architect.
21. Ralph Smalling Residence, North Rosedale. John Sutton, architect.
22. Robert DeLorenzo Residence, Monterey Lane, Fircrest. Gilbert Wojahn, architect.
23. Walter Widmeyer Residence, 612 Dartmouth Ave., Fircrest. Walter Widmeyer, architect.
24. George Davis Jr. Residence, 137 Del Monte Ave., Fircrest. Mary Lund Davis, architect.
25. Robert Jones Residence, 328 El Dorado Ave., Fircrest. Robert Jones, architect.
26. Chauncey Griggs Residence, 7800 John Dower Road S.W. Frank Lloyd Wright, architect; Alan Liddle, supervising architect.
27. Jack Leech Residence, 1402 Rainier St., Steilacoom City. Alan Liddle, architect.
28. M. E. Pitman Residence, 8408 104th St. S.W. Johnson-Austin, architects.

29. A. M. Fisken Residence, 11517 Gravelly Lake Drive S.W. Alan Liddle, architect.

30. Charles Hyde Residence, 12745 Gravelly Lake Drive S.W. Lance, McGuire & Muri, architects.

31. James Reynolds Residence, 12624 Lakeland Ave. S.W. Donald Burr and Mary Lund Davis, associate architects.

32. Joe Long Residence, 12825 DuBois Ave. S.W. Robert B. Price, architect.

33. Mountain View Memorial Mausoleum, 4100 Steilacoom Blvd., Lea, Pearson & Richards, architects.

34. Southgate Elementary School, Southgate Addition. Lea, Pearson & Richards, architects.

35. Alan Liddle Mountain Cabin, Ashford. Alan Liddle, architect.

36. Our Lady Queen of Heaven Church, S. 146th and "A" Sts. Jensen & Mills, architects.

37. Student Union, Pacific Lutheran College, S. 121st and "I" Sts. Johnson-Austin, architects.

38. Pacific Avenue Veterinary Clinic, 10234 Pacific Ave. Johnston & Evans, architects.

39. Baker Junior High School, 8320 S. "I" St. Robert B. Price, architect.

40. Good Shephard Lutheran Church, 140 E. 56th St. Johnson-Austin, architects.

41. Mountain View Sanatorium, S. 36th St. and Pacific Ave. A. Gordon Lumm, architect.

42. Fire Station, S. 35th and Warner Sts. Robert B. Price, architect.

Old Buildings of Particular Significance

43. Union Station, 17th St. and Pacific Ave. Reed & Stem, architects, 1911.

44. Schoenfeld's Department Store, 15th and Pacific Ave., Architect unknown, 1905.

45. Old Tacoma Hotel, McKim, Mead & White, architects, 1884. Destroyed by fire in 1933.

46 Totem Pole, Ninth and "A" Sts. Carved by a tribe of Alaska Indians from a single cedar tree 100 ft. high.

47. City Hall, Seventh St. and Pacific Ave. Hatherton & McIntosh, architects, 1893.

48. Broadway Theater Building, Ninth St. and St. Helens Ave. Col. J. M. Wood, architect, 1890.

49. Pierce County Courthouse, S. 11th and "G" Sts. Proctor & Dennis, architects, 1893.

50. First Presbyterian Church, Division and Tacoma Aves. Cram, Goodhue & Ferguson, architects, 1925.

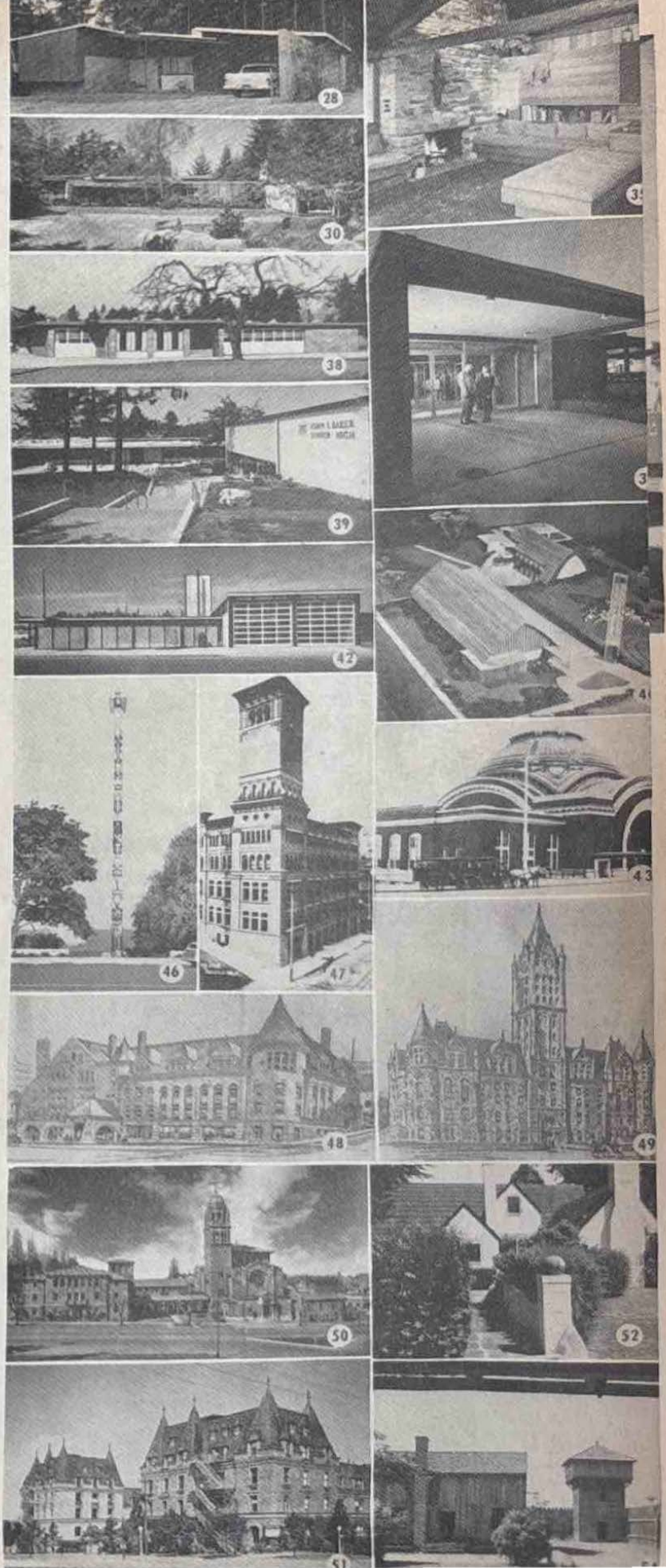
51. Stadium High School (originally built as the Tourist Hotel), N. First and "E" Sts. G. W. and W. D. Hewitt, architects, 1893.

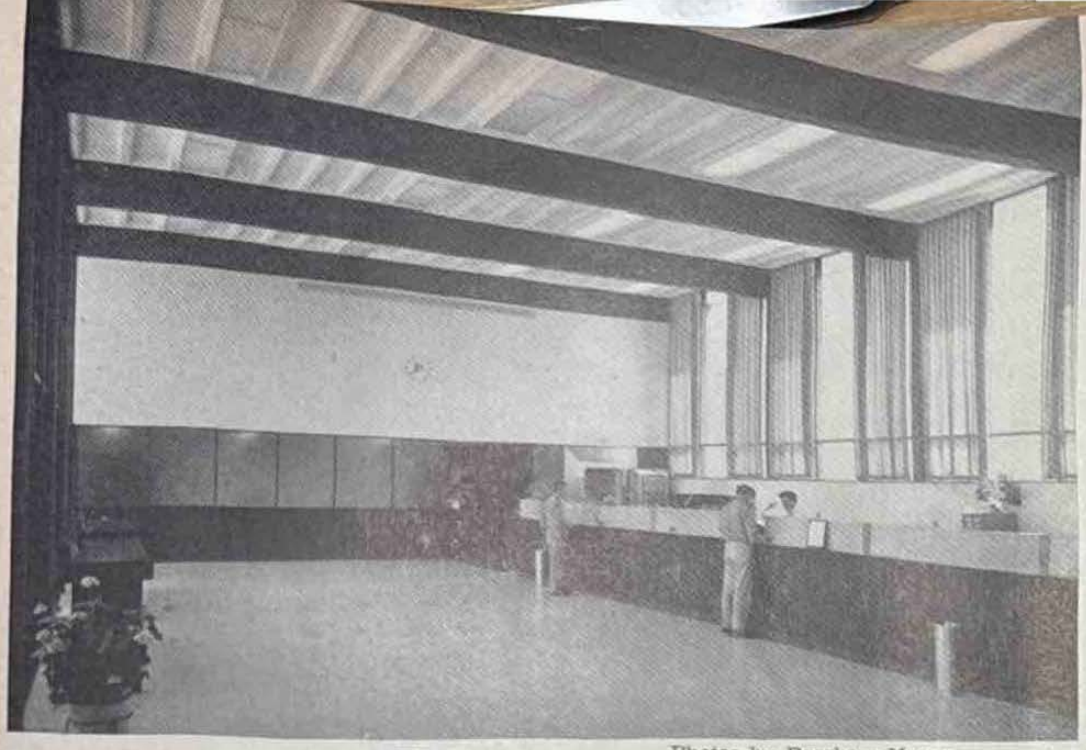
52. John Hewitt Residence, 616 N. "D" St. Delano & Aldrich, architects, under construction 1925-36.

53. St. Luke's Episcopal Church, N. 36th and Gove Sts. Architect unknown. Built in 1882 on a downtown site; moved to its present location in 1947.

54. Fort Steilacoom, Point Defiance Park. A replica of an early outpost of the Hudson Bay Co., restored in 1934.

Photo credits: Art Hupy, 1; Dearborn-Massar, 2, 3, 15, 16, 24, 29, 30, 32, 39, 42; John H. Bickel, 4; Richards Studio, 6, 7, 8, 10, 23, 28, 37, 50, 51; Charles R. Pearson, 14, 25, 27, 35; McKewen Studio, 38; Lee Merrill, 46, 52, 54.





Photos by Dearborn-Massar

SIMPLICITY OF DESIGN is complemented by color scheme: dark red-brown structural frame and white spandrels, along with white exposed roof slabs and pumpkin accent, inside.

Structural frame expresses finished design

National Bank of Washington, Industrial Branch
Tacoma, Washington

ROBERT BILLSBROUGH PRICE, AIA, Architect

DR. ARTHUR R. ANDERSON, Structural Engineer

WHITSON-MILLER & ASSOCIATES, Mechanical Engineers

WALTER S. GORDON, Electrical Engineer

CONCRETE ENGINEERING CO., General Contractor

A NEW TYPE of building has risen out of the reclaimed tideflats in the heart of Tacoma's growing port industrial area. Employing the latest engineering techniques, it follows the concept of expressing the structural system as the basic architecture.

The plan adopted by the architect utilizes a large heavily reinforced concrete slab foundation, calculated to float like a raft on the filled-in ground. Conventional construction



would have required expensive piling. The estimated load capacity of the sandy soil was 1,000 lb. per square foot. However, it was felt that for safety 450 lb. per square foot should be assumed as a design figure.

The foundation slab, varying from 12 to 18 in. thick, not only carries the entire weight of the 102x48-ft. building but also provides a rigid base capable of resisting earthquake forces.

The roof—itself a prefabricated concrete slab made from an aggregate which cuts the weight by about one-third—is supported by seven prestressed concrete beams 45 ft. long, 8 in. wide and 2 ft. deep, which in turn are supported by 14 prefabricated, rectangular concrete columns 28 ft. high and 2 ft. wide.

Beams, columns and roof slab were installed and secured in position in just two days' time. The employment of prestressed concrete for building purposes has been so successfully demonstrated throughout the Tacoma area that the school board has now sanctioned its use for future construction.

The columns are actually outside the building, permitting the spacious lobby and a cashiers' and work area to be completely free of any structural members. The "officers' desk" is readily accessible for the customer and has an informal, enclosed conference area. A mezzanine floor at one end of the bank provides space for record storage and an employees' lounge with a compact kitchen—easily reached but screened from the public's view.

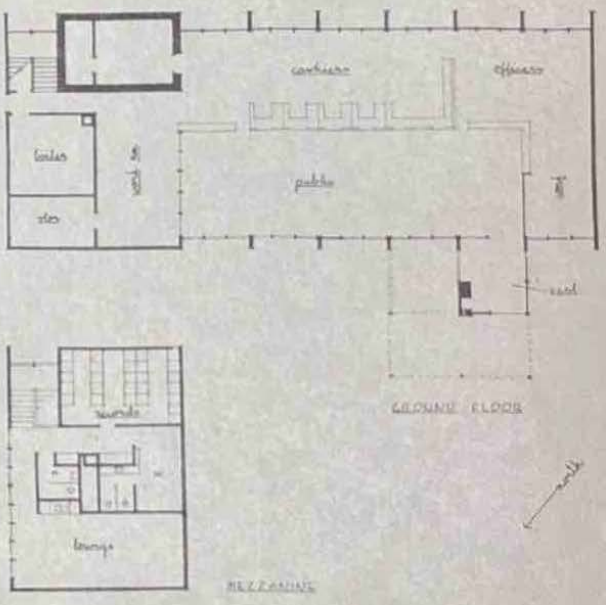
In the glass-walled entrance area a concrete shaft encloses the night depository. Acoustical treatment is found throughout for sound control. Lighting of the main banking area is accomplished by four rows of multiple-lamp fluorescent fixtures. A network of electrical and telephone circuits are embedded in the foundation slab.

Providing adequate heat and ventilation in the concrete and glass shell posed somewhat of a problem. The solution features a system of heated ducts through the foundation slab, allowing part of the heat to be transferred to the floor. The ducts terminate at the base of the glass walls where warm air is forced upward, bathing the glass above. Exhaust fans plus a mixing and fresh air supply unit, provide circulation and ventilation of the main banking area.

Site development includes a paved customer parking lot and a drive-through at the main entry. Planted areas define property lines and complement the lobby and the bank exterior.



ENTIRE NORTHWEST FRONT SIDE is of glass, permitting daylight lobby.



OUTLINE SPECIFICATIONS

Type of Construction: Prestressed concrete on two-way reinforced concrete mat 12 in. thick (18 in. at vault).

Exterior Walls: Tilt-up concrete finished with dark red-brown Zolatone.

Roof: Precast channel slabs with rigid 1½-in. insulation.

Floors: Concrete slab covered with vinyl asbestos.

Windows: Fentron steel sash.

Doors: Metal and aluminum, exterior; slab wood, hollow metal flush, interior.

Interior Finish: End walls surfaced with pressed wood paneling over fiberglass acoustical blanket; painted concrete and drywall partitions.

Ceilings: Painted concrete; acoustical under mezzanine.

Lighting: Multiple-lamp fluorescent fixtures.

Heating: Oil fired, hot air perimeter system.

Total Area: 6,212 sq. ft. (4,782 sq. ft., main floor; 1,430 sq. ft. mezzanine).

Total Cost: $100,000.

Cost per Square Foot: $16.10.

Date of Completion: July 1955.

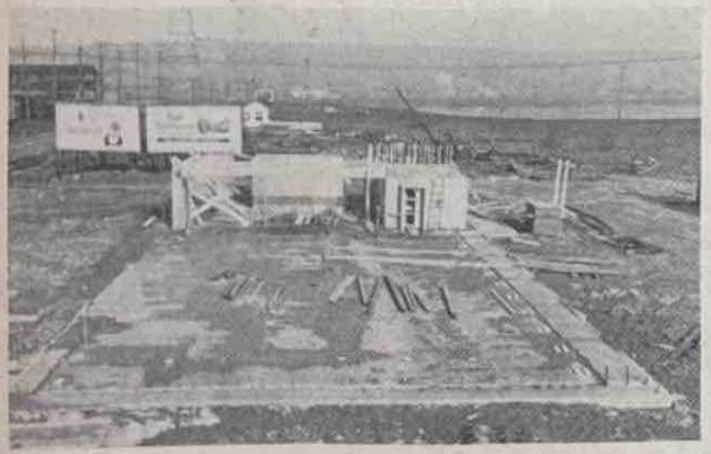


Photos courtesy Concrete Engineering Co.

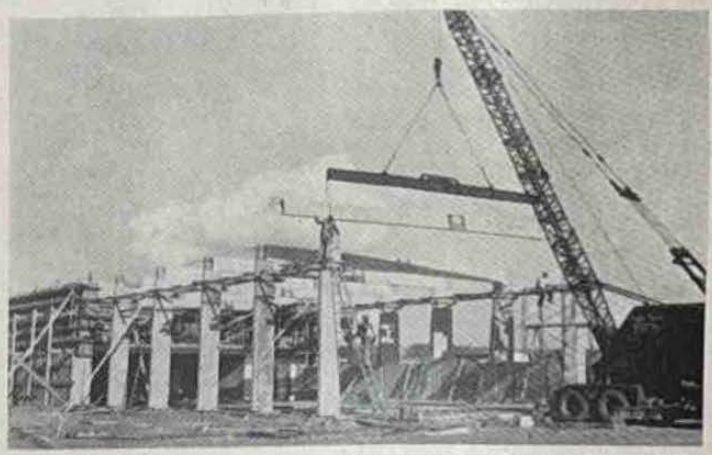
No. 1—Placement of heating and ventilation ducts which terminate at base of glass walls where warm air is forced upward.



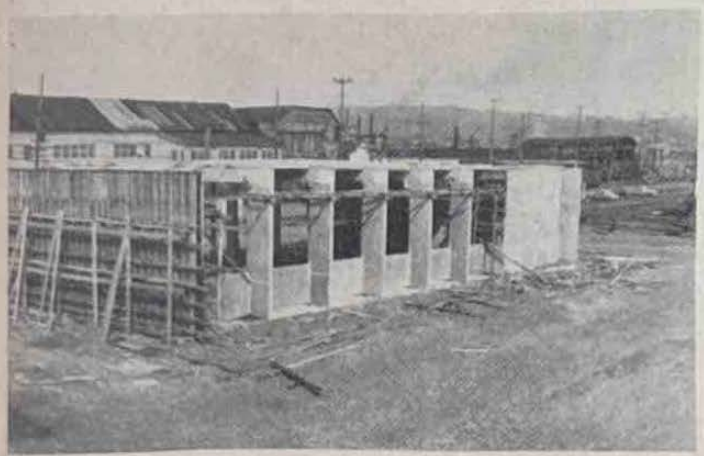
No. 2—Foundation floor slab ready for concrete, with electrical system and reinforcement now in place.



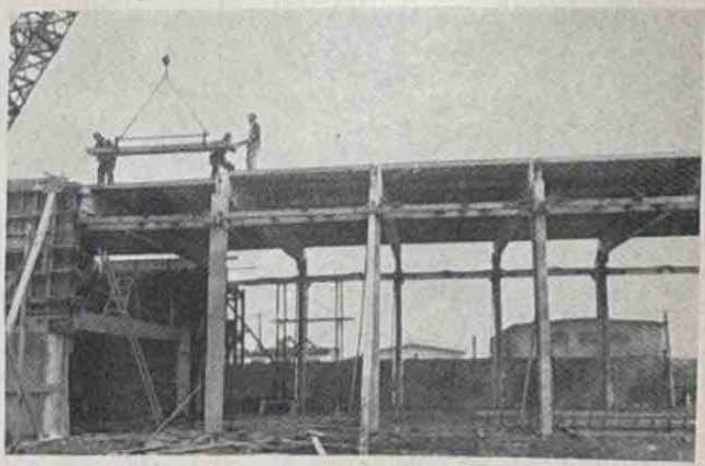
No. 3—Floor slab, formwork for vault and cast-in-place rear wall. Slab "floats" on filled-in ground.



No. 4—Prestressed concrete beams, 45 ft. long, 8 in. wide and 24 in. deep, support prefabricated concrete columns.



No. 5—Prestressed and precast structure erected, along with cast-in-place front wall formwork.



No. 6—Precast lightweight concrete roof slab made of aggregate which cuts weight by about one-third.

Philosophical questions about design

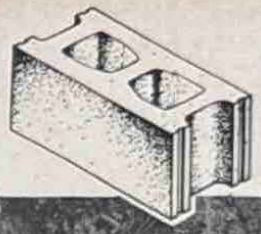
(cont'd. from p. 12)

physics and ethics as essentially liberal subjects which men should study for the uses of leisure or for the sake of living well, and that you looked upon carpentry, cooking and dressmaking, or engineering, architecture and ballistics as servile arts which men should study only for the sake of providing themselves and other men with the means of subsistence, together with the comforts and conveniences of life. But I know that I dare not suppose that the division of arts into liberal and servile is generally clear, or that there is no doubt in anyone's mind about the group to which a particular art belongs; and so the question about design cannot be so easily put.

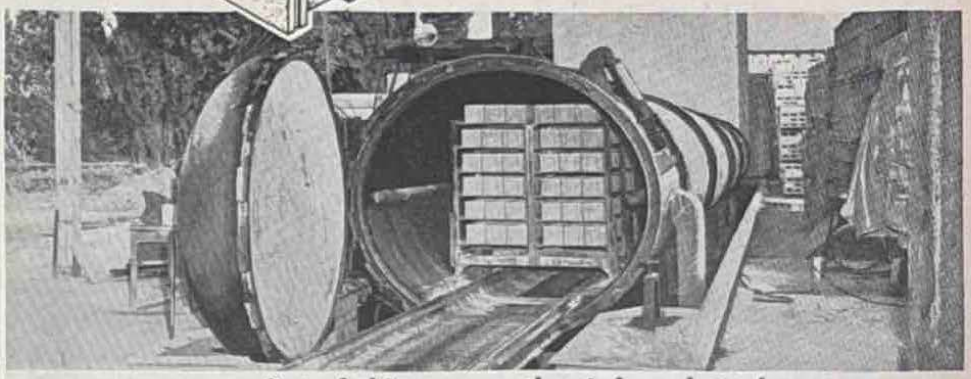
The very mention of architecture, for example, raises all the difficulties which must be faced. Throughout the philosophy of art, the question has been debated whether architecture is a servile art like farming and shoemaking, a liberal art like sculpture and painting, or somehow a mixture of both kinds of art. Those who hold that it is a mixture of both kinds of art, and this is the predominant view, usually defend their position in the following way.

They admit that architecture is not a purely liberal art, because the intention of the building or designer of buildings is certainly to provide men with the shelter they need biologically, just as they need food and clothing and all the other implements of their physical existence. On the other hand, they insist that it need not be a purely servile art, for the architect as master builder, employing the auxiliary arts of scultpure and painting as well as all the engineering skills and building crafts, can have an intention beyond that of biological utility. He can try to make a beautiful as well as a serviceable building; he can design it and adorn or embellish it in ways that do not make it more serviceable but only more beautiful. And even if he is a modern architect who lets function wholly dictate form, he may still be engaged in producing a form or structure enjoyable to contemplate over and above something functional to be lived in or worked in.

If it is true, for the reasons just given, that architecture is a liberal as well as a servile art, then those same reasons make it **possible** for all servile arts to be both. As a matter of historic fact, this possibility begins to be realized as soon as men are able to rise above the most primitive



*Exclusive in Seattle at GRAYSTONE!



Out of this mammoth reinforced steel high-pressure steam chamber come Seattle's finest

CONCRETE MASONRY UNITS!

manufactured by the

AUTOCLAVE* PROCESS

Featuring—

★ Greater Strength

★ High Dimensional Stability

★ Lower Moisture Content

Proof of the superiority of Graystone's Autoclaved concrete masonry units is provided in the constantly increasing demand for these modern, scientifically cured, pre-shrunk and highly stabilized units. Their strength, after less than 12 hours from the block machine to the storage shed, is equal to or greater than normally cured units after 30 to 60 days.

Curing is accomplished in less than 8 hours under steam pressure that reaches 130 to 140 lbs. per square inch, and at a temperature of approximately 360 degrees F. Under this process chemical changes bring about the formation of new inert crystalline compounds that reduce volumetric change and subsequent shrinkage change to a minimum.

Our entire output of pumice and Graylite expanded shale units are now being produced by the Autoclave process. Autoclaved sand and gravel units are also available at a very slight additional cost.

For Further Information Call . . .

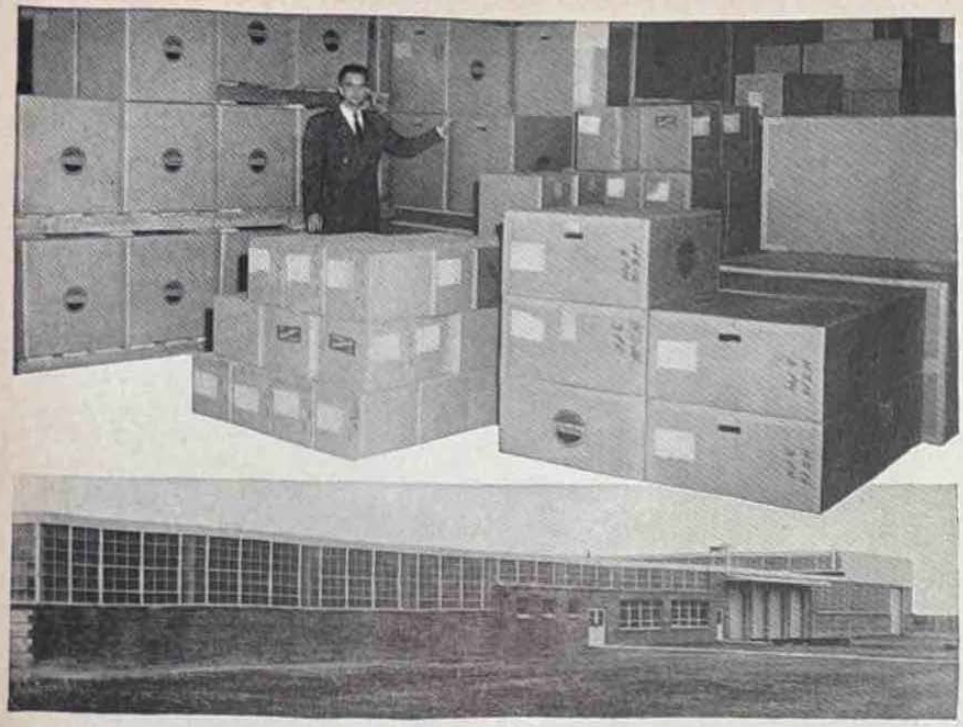


Graystone PRODUCTS

134 Nickerson Street • Seattle

Other Graystone plants at

ABERDEEN • BELLEVUE • CENTRALIA • CHEHALIS • EVERETT • OLYMPIA • SHELTON



NOW! FAST DELIVERIES FROM THIS NEW PEERLESS PLANT!

● Now! Doubled manufacturing and warehouse space permits Peerless to warehouse twice as many fans and blowers and increase our number of models from 250 to more than 400. When you need equipment for a complete air moving job, you can come to one source — Peerless — and get prompt delivery.

The big Peerless line is completely designed, engineered and manufactured under one roof. When you require special motors, our motor division produces them. We have complete control of all components going into every fan and blower. As a result, we can put our unqualified mechanical and performance guarantees on every unit leaving our plant.

Peerless builds to all industry standards — PFMA, NAFM and NEMA. If you require construction to meet other codes — either special industry or government — Peerless can do the job.

Engineering is the backbone of Peerless progress. Whether your installation problem is routine or complex, we'll work with you to solve it most efficiently.

Write today for Bulletins SDA-160 or SDA-200 for complete information on Peerless Forward and Backward Curve Blowers.

THE PEERLESS ELECTRIC COMPANY, WARREN, OHIO

MONTGOMERY BROTHERS

WESTERN REPRESENTATIVES

LOS ANGELES, CALIF. 2113 S. San Pedro St. Phone Richmond 7-9401

SAN FRANCISCO, CALIF. 1122 Howard St. Phone UNderhill 1-3527

PORTLAND, OREGON 1632 N. W. Johnson St. Phone CApital 3-4197

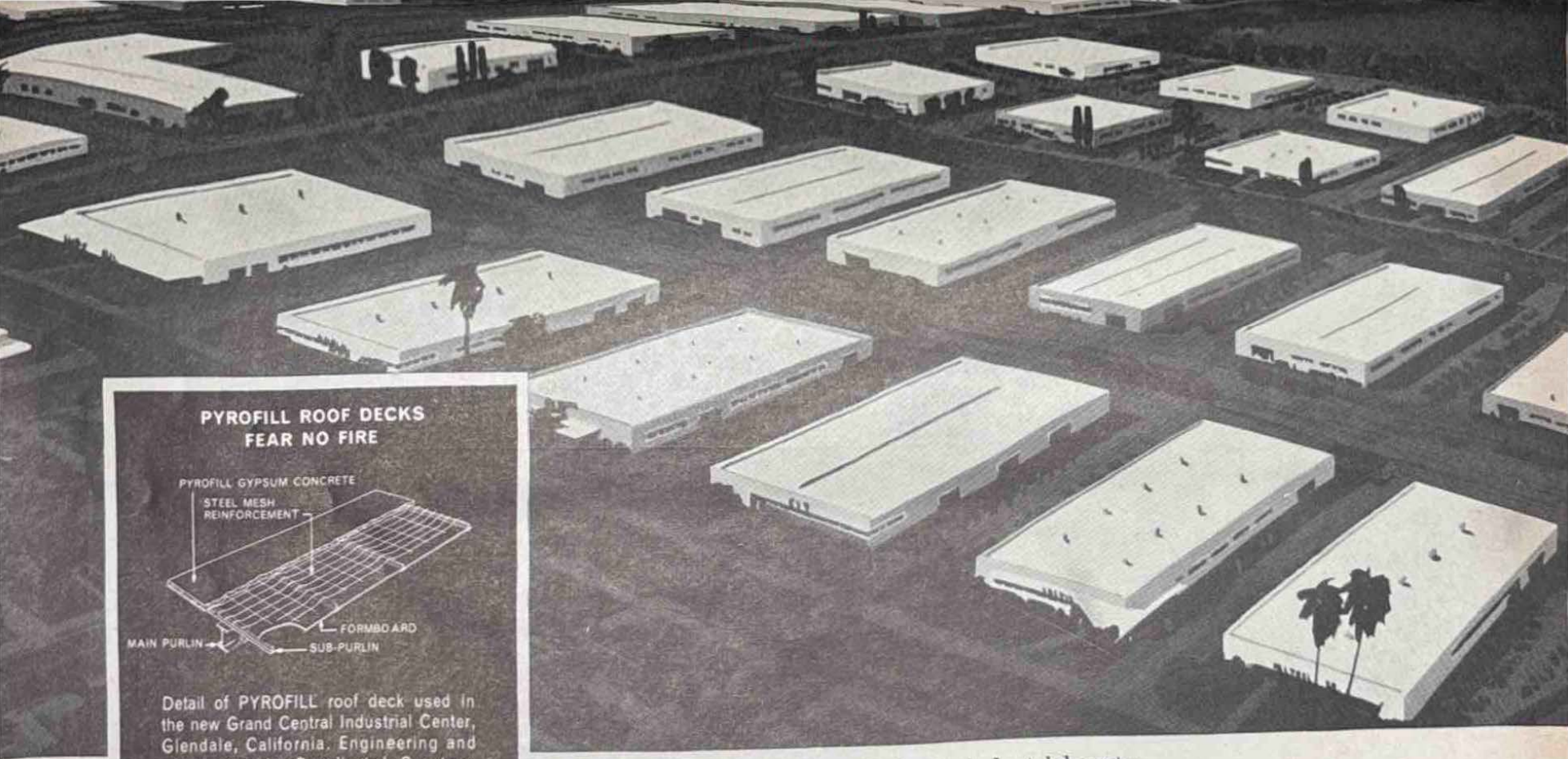
SEATTLE, WASH. 911 Western Ave. Phone SEneca 3270

conditions of human life in which all their skills go to providing the bare necessities. Once they rise above this level, they start to adorn or embellish their houses, furniture, clothing, pottery, weapons, chariots, boats and all the other serviceable things they produce. To whatever extent and in whatever manner they design the things they make not only for the sake of rendering them serviceable, but also to enhance them with some biological useless value, they would appear, like the architect, to be combining the motives of servile and liberal art.

As I have just used the word "design," it has two meanings which are respectively related to the servile and the liberal aims in art. In one meaning, design aims to create biologically serviceable utilities. Accordingly, improvement in the design of anything consists in increasing its utility by making it more serviceable. If this were all that design did, design would comprise all the servile arts, involve nothing but such arts, and excellence in design would be judged entirely in terms of efficiency in function.

But in the other meaning, design aims to create biologically useless values, such as beautiful forms or patterns that provide aesthetic delight to the beholder. Accordingly, the design of something can be improved without increasing its functional efficiency and excellence in design may be judged by standards independent of the measure of a thing's serviceability. To the extent that the design of serviceable things has this second aim and is subject to this second standard of excellence, it would appear to have something of the character of liberal art. Yet if we can take architecture as the prototype of design in all its manifestations, design never has the character of a **purely** liberal art.

The question I want to ask about design, therefore, requires me to distinguish between 1) **the purely liberal arts**, such as poetry, painting and music, and 2) other arts which either do or can **add what appears to be a liberal aspect** to their predominantly servile character. Before I attempt to do this, let me say that I am proceeding on the assumption that there is no art that need be purely servile. Industrial design is now for the most part concerned with styling for delight's sake as well as with planning for the performance of a service. Modern industrial design has come to recognize that form should generally follow function and styling should be subordinate to service in all arts which by their nature are predominantly servile. Nevertheless, the modern designer would admit that



PYROFILL ROOF DECKS FEAR NO FIRE

Detail of PYROFILL roof deck used in the new Grand Central Industrial Center, Glendale, California. Engineering and construction by Coordinated Construction, Inc. Planned, developed and administered by John B. Kilroy, Realtor, and Associates. George Novikoff, structural engineer, Anning-Johnson Co., Pyrofill roof deck contractor.

Selected for this 180-acre California industrial center . . .

PYROFILL* roof decks

INCOMBUSTIBLE GYPSUM

Analysis proved no other roof deck but PYROFILL offered all these advantages:

LOW INITIAL COST—The combination of low unit erected cost and savings in sprinkler installation gave PYROFILL an outstanding advantage.

INCOMBUSTIBLE—PYROFILL fears no fire. The extra fire safety gained from PYROFILL decks was of interest to prospective occupants.

INSURANCE SAVINGS—PYROFILL received the lowest insurance rate of all decks considered.

LOW ROOFING MAINTENANCE COSTS—Experience has shown PYROFILL to be an ideal base for built-up roofing. This cuts roofing maintenance costs to a minimum.

ADAPTABLE—PYROFILL is suitable for flat, curved, or pitched roofs. No other material was adaptable enough to meet individual occupants' requirements.

FAST INSTALLATION—A pouring schedule as high as 20,000 square feet per day permitted early occupancy. No costly curing delays. Roofing applied within an hour of pouring.

SEISMIC FORCE RESISTANCE—Expensive cross bracing was eliminated by using the PYROFILL deck as a horizontal diaphragm. PYROFILL meets the requirements of Uniform Building Code, California Division of Architecture, and all codes of the city and county of Los Angeles.

For full information, see Sweet's Catalog Section 2E/UN, contact your U.S.G. Representative, or write Industrial Sales Department, 2322 West Third Street, Los Angeles 54, California.

*T. M. Reg. U. S. Pat. Off

USG UNITED STATES GYPSUM

UNITED STATES GYPSUM

the greatest name in building

functional efficiency can be increased without improvements in style and that the form or style of utilities, implements and machines can be improved without concomitant increases in their efficiency.

* * *

The purely liberal arts, in addition to their negative characteristic of **not** producing things intended for the sustenance, comfort or convenience of life (whether they happen to be misused for such purposes), create things which have three positive characteristics. The first is the aesthetic delight or enjoyment they afford the beholder by their excellence of form. The second is found in the fact that each work of liberal art is absolutely unique and as such is always set apart as superior to all copies or reproductions of itself. In other words, the liberal artist never merely lays down the specifications for producing an indefinite number of things of the same form or structure, all equally good as works of art.

The third characteristic, closely related to the first and second, is the most important of all. It is that the liberal artist has something to say to the human mind, some truth about man, the human world or human life which he expresses in the special language of his creative medium, whether that be the language of science and philosophy, the language of poetry or the quite different languages of painting and music. The work of liberal art always communicates something or, if you will, always has a message. The greatest works of liberal art are those which, like Michelangelo's "Pieta," Mozart's "Don Giovanni," or Dante's "Divine Comedy," have the most to say or the deepest truth to communicate and say or communicate it with the greatest skill, not those which say little or nothing with the technical virtuosity of supreme craftsmanship.

This third characteristic of liberal art underlies the other two. The uniqueness of a poem, a piece of music or a painting derives from the union of its form and content; what the artist has to say determines his way of saying it. Nor can the aesthetic delight afforded by the sensible form of a work of liberal art be separated from the instruction it affords the mind. If its beauty and its truth are not identical, as Keats said, they are at least inseparable.

I am now ready to pose the question about design or, what is the same, about all the arts which are predominantly servile. We have seen that the works of such art may provide aesthetic delight by their styling or form, either connected with a service performed or over and above mere functional utility. We know that with industrialization most of the predominantly servile arts now seldom produce a unique work, as the handicrafts once produced a single carriage, vase or chair. Nevertheless, there are still numerous instances of industrial design in which the product is a single, unique thing, whether a building, a vessel, a bridge, a mechanical complex or an electronic comptometer. Hence in these two respects, design, even when industrial, can be like liberal art.

But, and here is the question, **do works of predominantly servile art ever have anything at all to say?** The question is not whether they have something important or profound to say. It is simply whether they have any message at all, any truth at all to communicate, any instruction for the human mind.

* * *

Before you answer the question, let me tell you what consequences I would draw from a negative answer.

If design has nothing at all to say which is instructive to the mind, then whatever beauty its productions may have as a result of styling is not the same as the beauty of works of purely liberal art, for it is not a beauty that

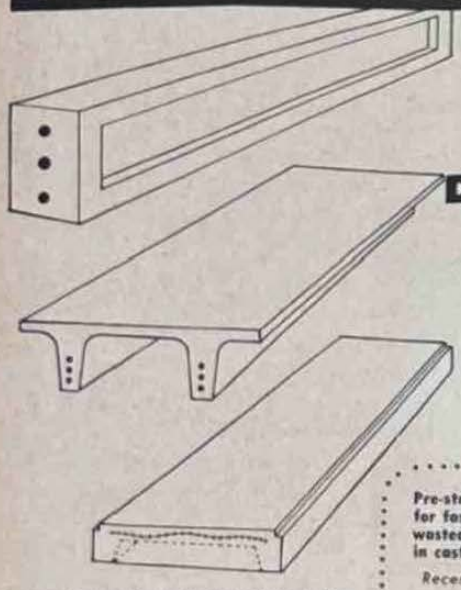
modern speed-up construction



Forms, shoring eliminated

no waiting for concrete to set when you specify lightweight

PRE-STRESSED CONCRETE



I BEAMS

Support double tee or channel slab in all-concrete construction. Spans to 70 ft.

DOUBLE TEE SLABS

for economical pre-cast floors, roofs. 20-40 ft. spans, maximum unit coverage.

CHANNEL SLABS

for 20 foot or shorter spans. Light, easy-to-handle. Use with steel beams, poured or pre-cast concrete beams.

Pre-stressed concrete is the answer to your clients' demands for faster construction, lower costs. No time, labor, material wasted on building forms or waiting for concrete to set (as in cast-in-place method).

Recent Construction—Using Empire Pre-stressed Concrete

SCHOOLS
Woodrow Wilson High School Stadium, Portland
Sabin School, Portland

BRIDGES
Kenai River Bridge, Schooner's Bend, Alaska
Hinkle Bridges 1 and 2, Oregon City

BUILDINGS
C and S Electric, Eugene
Pacific Power & Light Service Center and Shop, Albany
Dutch Building, Portland
Oregon State Hospital Out-patient Wing, Salem
Oregon Metallurgical, Albany
The Central Washington Bank, Moses Lake, Wash.

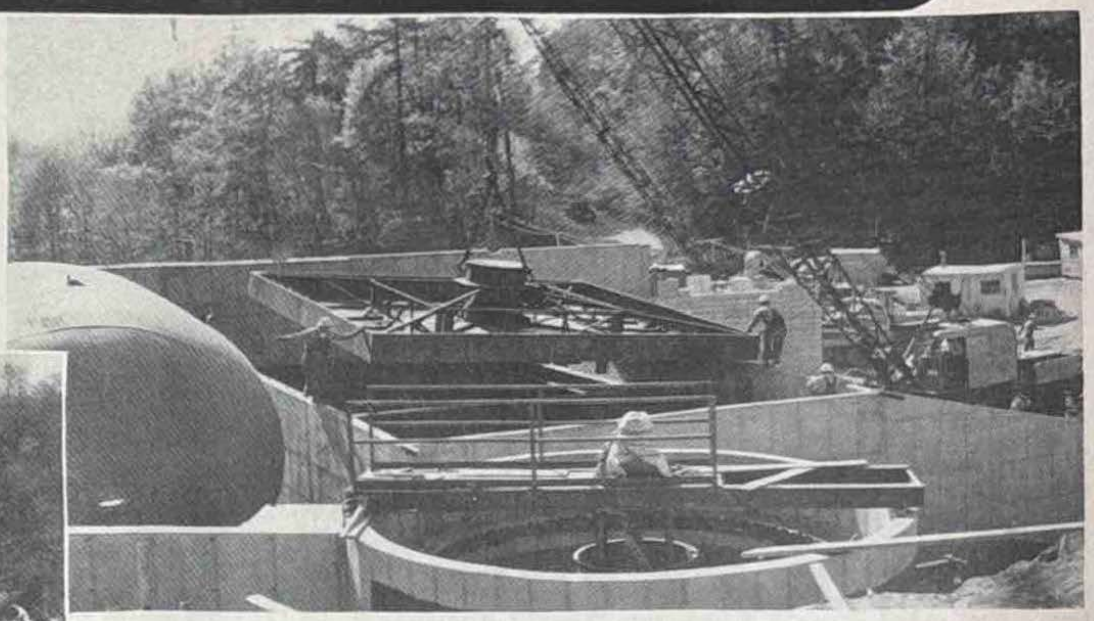
For more information call AL 4-6535 or write —

EMPIRE
BUILDING MATERIAL CO.
N. E. 92nd and Halsey St., Portland, Oregon • Alpine 4-6535

ANOTHER EXAMPLE OF CARCO "One Stop" STEEL SERVICE

Contractor: Noble W. White, Seattle

Consulting Engineers: Hill and Ingman, Seattle





CARCO FABRICATED STEEL HELPS ALONG SEWAGE POLLUTION ABATEMENT PROGRAM

The Southwest Suburban Sewer District, located just outside the Seattle city limits at 10023 Sixteenth Avenue, S.W., is erecting a modern sewage treatment plant at S.W. 125th Street and Shorewood Drive, which will serve suburban communities west and south of this city, including both White Center and Burien.

Scheduled for completion in October, this new sewage treatment plant will cover about an acre of ground and will have a capacity of 8,000,000 gallons per day. The estimated cost for plant and equipment is $750,000.

The equipment to be installed is of the primary sewage treatment type as opposed to secondary type. In the primary type plants, the incoming sewage is received in a series of settling tanks where the sludge sinks to the bottom and is collected in hoppers. From the hoppers, the sludge is pumped to the digester where it is reduced by bacterial action to a humus-like material which is odorless and which can be used, after it has been dried out, for fertilizer.

The effluent is water which is chlorinated to kill all disease-producing bacteria and which in this case will be discharged into Puget Sound in at least 50 feet of water, or about 1000 feet out from the high tide mark.

One of the interesting features of this up-to-date new plant is that gas generated from the sewage treatment will be used to heat the digester in order to accelerate the digestion process.

Pacific Car fabricated and erected a total of 37 tons of structural steel for the Southwest Suburban Sewer District's sewage treatment plant. This includes the structural framing as well as two 21-feet by 21-feet covers or lids weighing 19 tons. One of these is fixed while the other floats. The purpose of the floating lid is to accommodate the accumulation of gas that forms during sewage treatment.

Let Carco help you with your steel problems. Pacific Car offers buyers of structural steel not only the largest fabricating facilities in the Northwest but also a "one stop" steel service. This means money-saving ideas and suggestions, prompt engineering detail and estimates, fabrication and erection. You may count on Pacific Car's interested attention for anything from an I-beam to structural steel for dams, industrial plants, office buildings, schools or other projects. Our facilities and experienced personnel are as close to you as your telephone.

PACIFIC CAR AND FOUNDRY COMPANY

STRUCTURAL STEEL FABRICATION AND ERECTION, STEEL CASTINGS, FORGING, HEAT TREATING, MACHINING, HOT DIP GALVANIZING, TRACTOR EQUIPMENT: Winches, Hoists, Arches, Log Carts, Rigging.

CARCO®

STRUCTURAL STEEL DIVISION—120 W. HUDSON—SEATTLE 4—RAinier 5355 MAIN PLANT AND OFFICES—RENTON, WASHINGTON—OLive 4511

is inseparable from truth. There is all the difference in the world between that which delights by the way it instructs and that which, incidental to the service it performs, also delights.

Furthermore, if design communicates nothing and has no content of truth, then whatever uniqueness some of its productions may have is not the same as the uniqueness of works of purely liberal art, for such uniqueness is merely accidental in the particular case and not essential to the very being of the work. Anything produced by predominantly servile art or industrial design can exist perfectly in multiple reproductions turned out according to the same blueprints or specifications. It is therefore utterly different from the essential uniqueness of a work of purely liberal art, born of the inseparability of its content and form—what the artist has to say and the way he says it.

Hence if you tell me that design has nothing to say, I shall be forced to conclude that such beauty and uniqueness as works of design may have are only counterfeits of the beauty and uniqueness of works of purely liberal art; for without any intellectual content or truth to instruct the mind, their styling does not really give them the liberal aspect we at first attributed to them when we regarded them as combining both kinds of art. Further, I shall have to conclude that they have no place in the scheme of liberal education, for if they have nothing to say about man, human life or the human world, they cannot contribute to the cultivation of the mind or spirit of man, which is the whole and exclusive purpose of liberal education. Finally, I must conclude that form or styling in design, beyond the exigencies of function or service, provides at best an empty aesthetic delight or purely sensual pleasure; and, at worst, serves the purpose of planned obsolescense to increase a partially wasteful consumption, the only justification of which may be its support of our ever increasing industrial productivity.

You may, of course, maintain that design has something to say, in which case my only remaining question would be, **what?** Or you may deny the validity of the question itself by challenging my central thesis that the principal characteristic of works of purely liberal art derives from their content—the truth which, fused with beauty, instructs the mind or cultivates the spirit of man.

Against my thesis, you may point to modern painting or sculpture which, at its abstractionist extreme, seems to have nothing at all to say about man, human life and the human world. The beauty to be found in industrial design, you may say, is no different from the beauty to be found in contemporary abstractions of all sorts; and from this you may argue that if abstractionist painting or sculpture is purely liberal art, industrial design has something of the character of such art and to that extent at least has a place in liberal education and contributes not just to living but to living well.

I would then still have one further question to ask, but it would be about the abstractionist tendencies of modern art and not about design. Though I shall refrain from asking it until it becomes necessary to do so, I am sure you can guess what the question is and what my answer would be.

Why don't we have the cities we need?

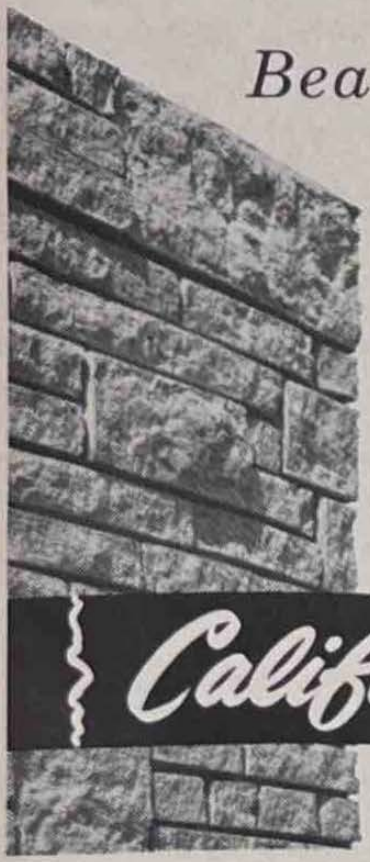
Excerpts from another paper at Aspen, presented by Max Frisch of Switzerland who practiced architecture until 1952, now a full-time writer

Everyone know that architects are chock full of ideas. There is no lack of genial projects drafted by Le Corbusier, Gropius, Neutra, Wiener and Sert, Samona and many others. And when we study them we cannot help being amazed. For these projects are not only capable of satisfying the vital demands of our life today but would even be more economical than anything that is being done at present.

Then why are they not realized? That is the question that preocuppies me most. Are democracy and planning two things that mutually exclude each other? Or, to put it differently, who is really responsible for the formation or deformation of our cities?

Here is another question. Who is really responsible for the development of our cities? The architect? Or the local authorities? Or the land owners? Or the whole body of citizens? I come from a country that I love insofar as it is a democracy and hate when it falls short of democracy. And I believe in the responsibility of citizens. In other words: we have the cities we deserve.

If speculators prevent us from having the cities we need it is not their fault but ours, because we let them do it. The first step we must take to get out of the morass we are in at present is to realize that town planning is not the business of the planners but of the inhabitants. I don't want to offend the architects. What I mean is that the best ideas of our best architects go to the dogs because we fail as a social unit.



Sandstone Beauty and Texture IN COLOR

Save 40%. California Stone (manufactured sandstone) in eleven subtle decorator-selected colors and shades exceeds natural sandstone in range of colors, and ease of handling with the strength and beauty of the natural product. You save 40% in material cost. Sizes available to give a random ashlar effect. Write or phone for complete details.

California Stone®

a product of Layrite Concrete Products of Seattle, Inc.
RAinier 8681 • 7265 E. Marginal Way
®T.M. Reg.

A definition of the good life

Excerpts from the message of the retiring national AIA president, George Bain Cummings, delivered at the Los Angeles convention

What is the good life?. Your own individual definition is the best. May I suggest certain ingredients of my own definition?

I think there must be, first of all, **safety** and **health** and **well-being.** We all reach out instinctively to attain them.

I think there must be **work** and **rest,** in alternation. Work that prevents our bodies, minds and spirits from atrophying through disease. There must be the zest, the exultation of driving ourselves to capacity, followed by a period of recharging.

I think there must be **love** and **worship.** Love, physical for completeness, for fulfillment; but also spiritual love, the sublimest, most nearly God-like, of our attributes: love of mate and family, of friends, of people, of visions, purposes and ideals. Love of the great, good world around us and of its Creator—love and gratefulness and submission, which is worship. As ancient as the human family is this need for love and worship, for faith in something outside ourselves. It is the lodestar of our souls.

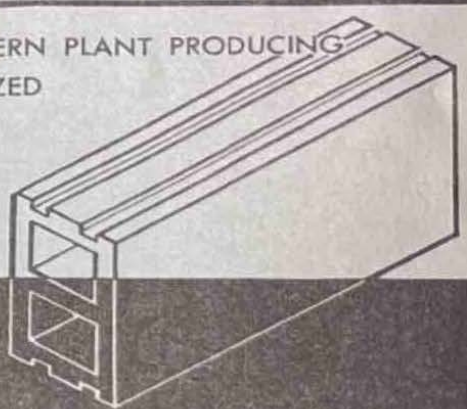
I think there must be **beauty** and **fragrance.** Of Louis Sullivan, who was born 100 years ago, it was said: "He demanded of himself an emotional and spiritual expenditure to endow each building with its own identity of beauty." In Santa Fe there is a remarkable exhibition in the Museum of International Folk Art. Here are collected the artifacts of diverse and wholly unrelated civilization from all parts of the world. There are articles of common purpose, such as the spoon, for example, invented from necessity by each people, unknowing even the existence of other peoples or their work. The strange and striking common factor is the embellishment each people has attempted. It is a common trait of the human family instinctively to strive for beauty, for the amelioration and enhancement of environment. Recall how the narrator of the ancient story of creation reports that after each stage of His work God paused and "saw that it was good." With the great pageant of Nature ever before and around us, all our senses are ministered to and our realization of and yearning for beauty with the fragrance of goodness becomes a demand upon life. We are imbued with the desire and purpose to fulfill our capacity for living and enjoying life and with the urge to create beauty and to make our contribution to the culture of the human family.

And I think there must be **compensation:** recognition, acceptance, approval, reward, incentive and satisfaction. For all our individual striving as architects, there is the hope that there may emerge a work of art; but whether or no, there will be compensation, there will be satisfaction, in having tried our hardest and done our best, in having shared in creation.

So, in sum, my definition of the good life includes safety, health and well-being of our people and we shelter all the diverse activities—personal and of the group—that are involved in making these provisions. We design the shelter for the world's work and for the people's rest and for their loving and their worship. We contrive it with our hearts that there may be beauty and a fragrance along the way. We contrive it for the satisfaction of our own souls and conscience and find our compensation in the contribution we are permitted to make to our day, of our creative ability.

WACO TILE

A NEW MODERN PLANT PRODUCING QUALITY GLAZED STRUCTURAL TILE FOR YOUR JOB





WACO TILE MANUFACTURING PLANT
SPOKANE, WASHINGTON

- ARCHITECTURALLY-SELECTED COLORS
- QUALITY CONTROLLED
- PERMANENT MODERN BEAUTY

WaCo-Tile is distributed over the Pacific Northwest and Alaska . . . the nearest source to your job.

Write now for specifications and detailed information!

WASHINGTON BRICK & LIME CO.

SPOKANE • PORTLAND • SEATTLE

MEMBER WESTERN STRUCTURAL TILE INSTITUTE

Building climbs to record July volume

DESPITE the continued slowdown in home building starts, dollar volume of building permits for the five western states in July boomed up to $260,181,530, highest monthly volume since Pacific Architect and Builder began recording the California totals in January 1955.

Industrial construction, mainly in California, is responsible for the high figure. Housing is still dragging its feet. Large tract building in California has slowed way down and some large cities, like Seattle, report as much as a 30% drop in the number of residential permits for the first seven months of this year. This downward trend also has been noted nationally.

The five-state total is 20% higher than July of 1955 and 8% over June of 1956. On a statewide basis, only California showed increases either above the previous month or the corresponding period last year. California's volume was 17% higher than June of this year and 33% higher than July of last year. Washington dropped .4% from July 1955; Idaho, 9%; Oregon, 13%; and Montana, 3%.

By the end of July the total dollar volume was $1,589,265,691, just 3% higher than the seven-month total last year. All states show fair gains for the year with the exception of Washington which is down 4%. California is up 4%; Oregon, 7%; Montana, 14%; and Idaho, 8%.

Following is a breakdown of building permits issued by several of the major agencies during July.

	DWELLING UNITS	COMMERCIAL & INDUSTRIAL	PUBLIC
Portland	117 ($1,065,370)	16 ($905,200)	
King County	494 (3,597,400)	48 (427,640)	3 ($238,000)
Seattle	172 (2,075,990)	16 (527,350)	
Tacoma	200 (820,163)	36 (439,115)	1 (2,900,000)
Los Angeles Co.	2507 (19,462,625)	543 (7,222,411)	37 (2,273,746)
Orange County	659 (6,501,927)	33 (548,061)	2 (39,500)
Sacramento Co.	589 (4,749,018)	20 (563,925)	9 (267,591)

Building Permit Totals for 116 Western Agencies for July 1956

CALIFORNIA	July 1956	June 1956	July 1955
Alameda County	$ 2,237,136	$ 2,740,200	$ 4,436,960
Anaheim	4,404,014	2,915,850	4,136,201
Bakersfield	6,393,481	602,485	690,950
Burbank	713,595	864,675	987,294
Contra Costa County	3,834,744	4,091,744	4,242,364
Fresno	930,255	997,742	1,779,748
Fullerton	1,527,956	1,671,178	1,674,175
Glendale	1,873,762	1,387,096	1,100,752
Inglewood	1,131,931	802,983	959,842
Long Beach	4,233,720	3,878,030	3,870,170
Los Angeles	47,317,341	52,070,838	29,105,631
Los Angeles County	29,985,673	29,602,593	27,788,741
Oakland	3,176,980	5,803,509	1,957,623
Ontario	258,245	291,859	815,576
Orange County	7,364,900	8,404,780	10,963,273
Palo Alto	1,550,628	1,578,168	2,667,544
Pasadena	4,081,640	1,622,678	1,809,582
Pomona	1,264,388	1,773,737	553,008
Richmond	1,051,987	1,073,584	361,739
Riverside	1,699,565	2,951,226	2,754,366
Sacramento	4,447,336	1,876,338	3,548,335
Sacramento County	5,666,158	9,214,645	6,394,535
San Bernardino	1,162,676	1,175,383	1,727,014
San Bernardino County	30,622,309	4,450,710	3,829,370
San Diego	7,572,778	8,476,149	7,793,625
San Diego County	4,646,850	4,721,000	2,908,605
San Francisco	6,050,207	5,875,834	8,654,992
San Jose	9,098,500	5,104,915	2,837,110
San Mateo	672,020	1,796,331	1,936,939
San Mateo County	1,416,765	1,897,390	3,399,184
Santa Ana	3,495,542	2,280,611	2,488,870
Santa Monica	1,411,102	1,264,245	698,565
Stockton	1,339,735	1,024,344	2,083,775
Sunnyvale	1,623,445	3,505,866	3,469,755
Torrance	4,921,784	5,722,267	5,161,558
West Covina	6,186,835	1,268,280	2,321,770
TOTAL	$215,366,983	$184,777,813	$161,909,571

OREGON	July 1956	June 1956	July 1955
Albany	$ 79,970	$ 149,900	$ 262,300
Astoria	33,118	1,291,080	67,194
Baker	13,150	59,810	91,690
Bend	160,450	81,880	144,940
Coos Bay	54,425	76,675	102,690
Corvallis	490,580	1,320,020	192,955
Eugene	808,365	428,527	277,380
Grants Pass	178,065	212,575	159,875
Gresham	53,700	86,900	43,400
Hillsboro	140,595	77,495	75,120
Klamath Falls	157,127	386,270	170,100
LaGrande	42,800	37,118	52,455
Lane County	702,861	1,115,660	874,097
Medford	335,982	579,772	180,533
Multnomah County	4,481,681	2,708,468	6,023,135
North Bend	48,751	50,778	94,150
Oregon City	40,020	41,782	43,910
Pendleton	265,300	86,555	76,700
Portland	3,241,595	4,467,445	3,414,095
Roseburg	126,505	139,048	170,038
Salem	518,075	563,398	880,205
Springfield	90,585	98,953	207,875
The Dalles	85,648	81,103	214,439
TOTAL	$ 12,149,348	$ 14,141,212	$ 13,819,276

WASHINGTON	July 1956	June 1956	July 1955
Aberdeen	$ 516,057	$ 53,919	$ 126,760
Anacortes	133,044	144,144	269,660
Auburn	137,420	160,775	57,710
Bellingham	377,118	540,692	499,098
Bremerton	167,760	86,235	104,395
Centralia	92,662	195,923	52,298
Chehalis	20,331	17,296	27,787
Clarkston	34,694	83,355	143,829
Ellensburg	37,400	25,975	63,450
Ephrata	64,950	15,940	292,500
Everett	307,309	320,541	293,665
Kelso	48,500	19,400	64,300
Kennewick	81,180	42,450	194,250
King County	4,263,990	14,567,397	7,250,941
Kirkland	63,825	70,675	42,500
Longview	234,837	1,260,803	240,580
Moses Lake	259,332	685,219	452,240
Olympia	128,408	203,804	130,210
Pasco	52,835	50,330	40,100
Pierce County	2,129,200	2,177,698	1,503,847
Port Angeles	52,900	24,650	92,790
Puyallup	78,250	72,680	151,950
Ritzville	22,000	20,000	54,000
Seattle	6,275,770	7,005,160	5,562,165
Shelton	102,150	35,850	22,200
Spokane	4,347,577	2,596,063	4,769,007
Spokane County	1,738,026	1,604,635	1,393,700
Sumner	4,200	27,725	1,550
Tacoma	4,366,625	2,383,764	1,351,316
Vancouver	464,461	572,848	1,581,135
Walla Walla	240,855	236,950	261,165
Wenatchee	197,410	89,000	184,631
Yakima	683,409	671,144	566,022
TOTAL	$ 27,724,485	$ 36,033,041	$ 27,841,757

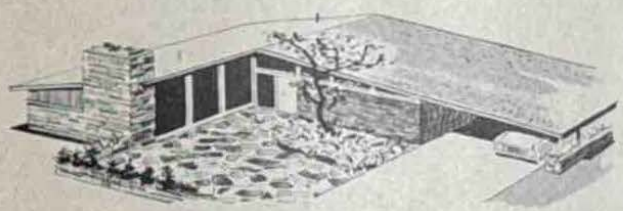
MONTANA	July 1956	June 1956	July 1955
Billings	$ 636,300	$ 1,796,880	$ 759,050
Bozeman	279,300	48,400	338,500
Butte	72,759	90,973	129,912
Glasgow	89,150	23,920	68,564
Glendive	47,325	167,800	56,550
Great Falls	1,117,605	757,776	1,335,134
Helena	388,765	51,134	311,165
Kalispell	400,200	234,350	65,100
Lewistown	52,400	101,000	33,200
Livingston	30,860	70,080	33,800
Miles City	72,164	68,063	85,950
Missoula	41,500	162,400	100,875
TOTAL	$ 3,228,328	$ 3,572,776	$ 3,317,800

IDAHO	July 1958	June 1956	July 1955
Boise	$ 377,527	$ 420,213	$ 384,591
Caldwell	81,925	80,202	127,075
Coeur d'Alene	111,290	259,050	186,250
Idaho Falls	455,144	393,000	338,967
Jerome	19,200	32,590	30,300
Lewiston	90,151	192,649	155,865
Nampa	171,875	197,925	138,735
Payette	7,850	14,300	129,475
Pocatello	177,724	338,463	276,222
Sandpoint	13,650	27,700	23,900
St. Maries	2,700	600	1,500
Twin Falls	203,350	111,675	179,125
TOTAL	$ 1,712,386	$ 2,068,367	$ 1,873,400
GRAND TOTAL	$260,181,530	$240,593,209	$208,761,804









more

opportunities

for

distinctive

design

with... **MASONRY**

BRICK ★ CONCRETE BLOCK ★ STONE ★ STRUCTURAL TILE ★ GLASS BLOCK

LASTING BEAUTY • *TRUE LONG-RANGE ECONOMY*
FIRE PROTECTION • *LOWER INSURANCE* • *GREATER RESALE VALUE*
WIDEST VARIETY OF TEXTURES, PATTERNS, COLORS • *PERMANENCE*
ADAPTABILITY • *EASY CONVERTIBILITY* • *LOWER MAINTENANCE*

★ ★ ★

UNIT MASONRY ASSOCIATIONS

of the Pacific Northwest

SEATTLE • OREGON • TACOMA

Materials center starts expansion

Nationwide expansion of the Construction Materials Center, a $1 million California corporation launched in San Francisco a year ago, will get underway this year.

Victor M. di Suvero opened his first branch of the "one-stop shopping center" for architects and builders in Los Angeles August 1. A similar branch will be opened in Seattle by June of 1957. Others are scheduled for opening in Miami and St. Louis this year and in Dallas, Chicago, Denver, Pittsburgh, Atlanta and Boston next year.

Di Suvero, a graduate of the University of California, formerly worked in the wallpaper sales department of General Paint Corp. Later he headed a branch store wallpaper department for W. P. Fuller Co. in San Francisco.

In 1952 he opened his own Design and Color Service and has done color consultation and material specification for architects and for such tract and custom home builders as Joseph Eichler, Conway & Culligan, Myers Bros., etc.

On July 15, 1955, di Suvero opened the Construction Materials Center, or COMAC, as he calls it, at 330 Clay St., San Francisco, with Mrs. Christine Sherman as associate director. She has served as color consultant and designer for Cliff May Homes in Washington and Oregon.

"So many samples of material were acquired by our Design and Color Service and a library of data on so many products accumulated," di Suvero explains, "that a girl was kept busy nearly eight hours a day just answering questions. It seemed evident that a central display area and a library reference center was not only needed but wanted by the industry—and that's how COMAC originated."

COMAC differs from other permanent displays in that it renders specific services to exhibitors, the building industry and the general public. Competitive products are displayed side by side and presented impartially. Related products can be examined in conjunction with each other and all elements of a proposed exterior or interior can be seen together. Samples are given out, along with technical data and literature. Information is available on local stock supplies and prices, and the center has advertising aids for exhibitors.



HARDWARE DISPLAY is shown by di Suvero (right) to Leslie Davis of Harvis Construction Co., South San Francisco.

Income is derived from yearly dues paid by the exhibitors who may be either the local distributor or the manufacturer.

When the center opened in San Francisco there were 47 original exhibitors. In the first six months of operation, this number jumped to 82 and it has increased steadily since.

The center attracts some 600 visitors a month, of which 20% are architects; 20%, builders; 10%, engineers; 15%, decorators, designers and retailers; and 35%, home owners.

Homemakers expect complete telephone planning



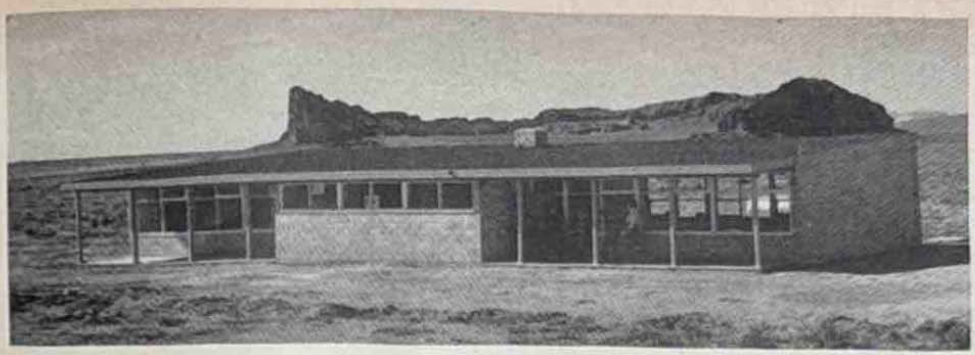
says MRS. MARIAN SILVEY,
housewife, grandmother, interior decorator, and home builder
(Silvey Builders, Portland, Oregon)

"As a builder, I find it pays to anticipate my client's needs. As a homemaker, I know that busy mothers appreciate the time and steps saved by having telephone outlets in the rooms the family uses most. Telephone planning is as indispensable to any well-built home as adequate electric wiring and correctly placed windows—and buyers expect it."

More and more builders and architects now recognize the value of complete telephone planning. We are always ready to help you plan built-in telephone facilities. Just call us and ask for our free Architects and Builders Service.

Specify built-in telephone facilities —a sign of good planning

Pacific Telephone



THE PHOTOGRAPHER, not architect and contractor, is responsible for placing The Rock on top of little schoolhouse in eastern Oregon.

Little (pumice) schoolhouse shows pioneering spirit

Every nail, stick of lumber and plate of glass for the new two-classroom elementary school at Fort Rock, Ore., was brought by truck a minimum of 70 miles.

In September the pumice block structure will be one of the least crowded of the state's grade schools with its estimated enrollment of 34 pupils.

To the amazement of chairman Robert Morehouse and other school board members, seven contractors from as far away as Portland bid on the job to construct the one-story schoolhouse in Lake County, east of the mountains. Award went to Mann Construction Co. of Redmond for $27,400. The cost covered a composition, wood joist roof, acoustical walls and ceilings, vinyl tile floors, blackboards, drinking fountains, all cabinet work and clearing the immediate area for parking and tethering horses.

Richard Mann taxied his top carpenters back and forth in his four-seater Piper cub from Redmond, counting out 1¼ hours daily for commuting to and from the job. Other workmen lived in trailerhouses at the site, which was chosen because a suitable water well could be dug there. Despite these handicaps, the school was built at $9.60 per square foot.

Architect John Howard of the firm of Morrison & Howard, made 12 round trips from Klamath Falls and estimates he drove his own car more than 4,000 miles on the job.

"One of the secrets of keeping contented workmen on the project," comments Howard, "was the good food served at Fort Rock's little grocery-post office-restaurant-filling station."

The little school sits in the shadow of The Rock, a huge volcanic bubble that rose and burst eons ago, leaving a natural ampitheater which may some day be cleared to seat an estimated crowd of 500,000. It is currently used for picnics and sunrise church services. Plans are being made to set aside The Rock as a state park for more extensive use by ranch families in the 40-mile radius who call Fort Rock their post office address.

San Francisco selects Hall of Justice site

The old Father Crowley Playground at Seventh and Bryant streets has been selected as the site for San Francisco's new $19,475,000 Hall of Justice building. Weihe, Frick & Kruse have been named as architects to develop a plan for the new structure.

Negotiations have also been started with the State Highway Commission for acquisition of the land which was purchased by the state six years ago for $898,000 for freeway construction. The portion not used for the freeway, nearly two-thirds of the total, was recently offered for sale at a minimum price of $600,000.

San Francisco voters at a June election approved a bond issue to finance construction of the Hall of Justice.

The site chosen will provide 212,000 sq. ft. of land for building area and the city expects to lease another 132,000 ft. under the freeway for parking of 318 cars. A basement garage and concrete deck will provide for 432 more cars or a total of 750.

The new structure will house not only police headquarters, but the police academy, the district attorney's office, the public defender, coroner, probation department, all criminal courts in both the superior and municipal court level, the sheriff and the city prison and county jail.

architect:
SILAS E. NELSON
contractor:
BONAFIDE CONSTRUCTION CO.
mason contractor:
FRED R. BOEDECKER

College of Puget Sound
Memorial Library features . . .

Distinctive Chehalis Brick



Architect Silas Nelson chose Chehalis Select Common Brick—in a harmonious variety of red shades—to achieve both dignity of design as well as an atmosphere of warm, lasting friendliness in this handsome Memorial Library at Tacoma's College of Puget Sound. For more than three generations the distinctive tones and textures of Chehalis Brick have played an integral part in much of the Pacific Northwest's finest regional architecture.

SCPI

CHEHALIS BRICK and TILE Co.

BOX 868, CHEHALIS, WASHINGTON

Materials — Products — Tools

and the latest literature

BUILDING SYSTEM: A load-bearing curtain wall system consisting of prefabricated aluminum panels eliminates the need for building framework and can be raised in record time. The panels are engineered to carry roof loads without additional supporting members and include integral structural framing, windows, doors and insulation to form the finished wall.

Architects can use the new system, marketed under the name W-A-E (Weather - Anchor - Expansion) by Aluminum Structures, to design one- and two-story schools, churches, manufacturing plants and small office buildings with great flexibility, since the system is fitted to the plans. The wide range of styles and possible combinations provide means for architectural variation.

(Item No. 1)

PLUMBINGWARE: Norris-Thermador has introduced a complete line of plumbingware in porcelain-on-steel and vitreous china in white and pastel shades of pink, tan, yellow, blue gray and green.

The company also produces a sink and tray combination, a favorite in large homes and apartment projects. It provides an extra large right or left hand sump and is suited for either tile or plastic top installation.

(Item No. 2)

ELECTRICAL EXTENSIONS: For electrical outlets needed in the middle of the room, Ideas, Inc., has designed a stumbleproof over-the-floor extension cord. Called Electriduct, it is made of rubber with ribs on underneath side to prevent slipping. It is 2¾-in. wide at the base, rising from a feather edge to an apex of 7/16 in. Office equipment on casters rolls over it easily.

(Item No. 3)

DUAL-PURPOSE FOUNTAIN: For schools, institutions and commercial buildings, American-Standard has designed a combination drinking fountain and receptor coated with acid-resisting enamel. The fixture can be used for such purposes as cleaning paint brushes, moistening modeling clay or cleaning laboratory equipment. It is designed for countertop installation with standard mounting frames.

(Item No. 4)

DOOR PULLS: A sliding door pull has been designed by Merendino-Greene in a choice of finishes selected to harmonize with a variety of architectural detailing in both residential and commercial building. The pulls, created exclusively for Arcadia sliding glass doors, are offered in dull chrome, dull bronze and dull black.

This is the first time that the manufacturer has completely redesigned its entire hardware appearance since the firm began making doors in 1948.

(Item No. 5)

ELECTRIC HEAT: An electrical baseboard home heater with control panel for each room has been introduced by Westinghouse. Installed snugly against the wall in place of baseboards, the units provide heat both by radiation and circulation. Models operate from standard 240-volt circuits.

(Item No. 6)

AIR CONDITIONING: Room air conditioners are getting smaller and smaller. Emerson Radio and Phonograph now announces the Slimline, a 15-in. deep unit with flush-mount design that eliminates overhang inside or outside the room. It is available in ½-, ¾- and 1-hp. units.

(Item No. 7)

CONCRETE BLOCK: To reduce cost of masonry construction, Presto Brick Machine has developed a building unit requiring no additional reinforcement and laid with no mortar between joints.

Each Presto block is a miniature twin-wall in itself, composed of two separate concrete units bound together by corrugated steel ties which are inserted into the units during manufacture. Top, bottom and end surfaces are keyed to lock upon erection, thus permitting a wall to be laid so that at no point does the inner and outer wall have a through masonry bond. The keyed joints are pointed by hand or with mortar gun.

(Item No. 8)



TWIN-WALL UNIT

SCAFFOLD HOIST: A hoist capable of raising 1,000 lb. at a speed of 200 ft. per minute has been developed by a Basin, Wyo., mason contractor, Ross D. Wardell. The hoist and system is built around standard tubular steel scaffolding and packaged masonry and can be used on any sized job. Wardell originally developed the system to solve a bottleneck in vertical movement of materials while building a church with high gable ends.

(Item No. 9)

ASBESTOS CEMENT: Belgium's inexpensive sheets of hydraulically compressed asbestos cement sheets are now available to the American market. They come in 15 colors, ranging from off-white to dark green, and in several thicknesses, depending on the use to which they are to be put.

Waterproof and heatproof, the sheets are excellent for covering surfaces in constant use and exposed to humidity. They can be used as tops for tables or counters and for door panels and shelving.

(Item No. 10)

VENTILATING SASH: To make sure that outdoor temperatures really stay on the outside of extended window wall expanses, Fabrow has produced a rubber insulated ventilating sash. It combines the natural insulating qualities of its own wood with the strength of one-piece Neoprene insulation. Insulating glass completes the combination for triple-storm protection.

(Item No. 11)

DOOR CONTROLS: An automatic operator for all swing type doors wherever there is a high frequency door use comes in eight models, six of which are carpet actuated and two handle actuated. Available in single units or pairs, Dor-O-Matic's design changes center on three areas: a larger and sturdier hinge, a new type molded mat and a simplified heavy duty power unit.

(Item No. 12)

SPANDREL GLASS: A color-enameled spandrel glass with aluminum backing, called Huetex, has been placed on the market by Blue Ridge Glass and Libbey-Owens-Ford. Developed primarily for the growing market in curtain-wall construction, the textured surface is made of 5/16th-in. tempered glass. Ceramic enamel is fused to the back to give color and aluminum welded on to protect the enamel and reflect heat. Twelve colors are available.

(Item No. 13)

TRANSIT-LEVEL: Newly designed optical system, 3-ft. short focus and brass and bronze construction are some of the features of the convertible transit-level manufactured by C. L. Berger. The instrument has a plate level in addition to the telescope vial.

The 3-ft. short focus makes it possible to take sightings in cellars and boiler rooms, for pouring concrete foundations and in other tight spots.

(Item No. 14)

Latest Handbooks, Manuals and Literature

Yours for the Asking

JALOUSIES: Interesting possible uses of jalousies are depicted in a series of photographs in a six-page brochure recently published by Lemlar Manufacturing. Both vertical and horizontal types on new and modernized buildings are shown. The company says jalousies reduce air conditioning requirements by cutting solar heat load and provide better visual conditions by diffusing light and evenly distributing it throughout the room.

(Item No. 15)

FASTENERS: Matching the fastener to the type of wall and weight to be carried is the purpose of a 20-page pocket-sized booklet "The Hang of Things" published by Star Expansion.

The booklet contains a two-page chart giving recommended and alternate fastener according to type of wall. Additional sections take up weight loads and the proper way to attach them or bore the holes. Numerous installation photographs are included.

(Item No. 16)

SCHOOLS: Use of glass block and prismatic glass skylights to daylight schools is illustrated in a recent brochure featuring excellent photographs of 17 schools, a number of them in California. The 20-page brochure, offered by Kimble Glass, shows both new structures and modernization of old schools. Before and after photographs illustrate the improved lighting effects.

(Item No. 17)

PREMOULDED MEMBRANE: Condensation, the damage it can cause to buildings and how to prevent it, is the comprehensive subject tackled in "Design Techniques for Controlling Moisture and Condensation in Building Structures."

Tables provide such information as moisture production by various domestic operations and photographs depict warped floors, cracked plaster, stained walls, etc. The latter half of the booklet describes Sealtight's premoulded membrane and Corktite insulation, products designed to eliminate condensation problems and gives detailed instructions for installation.

(Item No. 18)

CEDAR SHAKES: "How to Begin a Cedar Shake Double-Coursed Sidewall" is a handy, one-sheet guide designed to help the builder in modernization or new construction. The Red Cedar Shingle Bureau has illustrated the six steps in this quick, simple method. The only extra equipment needed is a piece of shiplap, 6 to 8 ft. in length, which also may be used for leveling succeeding courses.

(Item No. 19)

DRY BASEMENTS: Causes of damp basements and construction methods that will keep them dry are discussed in a 16-page pocket-sized booklet published by Medusa. The booklet also reviews steps that can be taken in older homes and includes detailed instructions for the application of Medusa waterproofings.

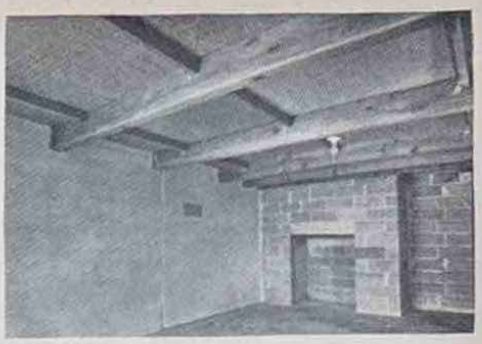
(Item No. 20)

ACOUSTICAL CEILING: Embossed aluminum acoustical ceiling panels which are especially recommended for that special club or restaurant room, the board conference room, executive offices, etc., are introduced by Simplex in a four-page folder. Soft-tone panels are available in gold, copper, blue and natural anodized finishes.

The folder describes the advantage of the 85% noise reduction coefficient offered by the ceiling and contains details of suspension, installation and integration with recessed lighting. Specifications also are included.

(Item No. 21)

SUBFLOORING PANEL: A specification sheet showing recommended details and nailing schedules is available for a structural panel which serves as subfloor and underlayment. Douglas Fir Plywood Association calls its new product 2.4.1, engineered to function as a solid one-piece base over supports on 48-in. centers for



PLYWOOD SUBFLOORING

everything from thin vinyl tile to oak strip flooring.

The accompanying photograph shows how the panel provides a clean, uncluttered appearance in basement ceilings.

(Item No. 22)

PLANT DESIGN: To prevent costly errors in the planning of modern mechanized plants, F. Ward Harman has developed three-dimensional scale models of machinery, materials handling equipment, tables, walls and office furniture. A 44-page catalog describes the models and their advantages.

(Item No. 23)

LIGHTING: To present the company's Continental line, Globe Lighting Products has prepared a 38-page full-color, hard-cover catalog depicting a wide variety of modern fixtures. The Continentals feature coordination in design between large hanging fixtures and wall units.

(Item No. 24)

CORK INSULATION: New incombustible qualities of Johns-Manville Rock Cork refrigeration insulation are illustrated in a four-page folder. The increased fire protection was accomplished by adding a newly developed binder to the naturally fireproof mineral fibers from which Rock Cork is formed. Other advantages, such as high moisture resistance and low conductivity, also are described.

(Item No. 25)

READER SERVICE

Pacific Architect and Builder
2418 Third Ave., Seattle 1, Wash.

Please send the literature or data about the material, products and tools listed on these pages.

AUGUST 1956

ITEM NO. (Circle those you wish): 1 2 3 4 5 6 7 8
9 10 11 12 13 14 15 16 17 18 19 20
21 22 23 24 25 26 27 28 29 30 31 32

Name _____ Title _____

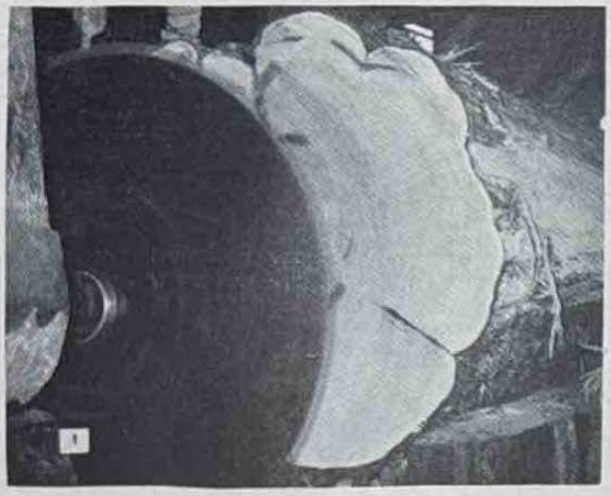
Firm _____

Address _____

City _____ Zone ____ State _____

Have you ever wondered . . .

How red cedar shingles are made



No. 1: Manufacture of cedar shingles actually begins when forest giants, averaging 200 years in age, are brought into mill to be cut into desired lengths by tremendous circular saws.

No. 2: Splitter-saw reduces log sections into quarters so that maximum number of straight, edge-grain shingles may be sawn from each piece of cedar log.

No. 3: Upright shingle machine, to sawyer's left, moves cedar block in and out of circular saw. Sawyer reaches for newly cut shingle with his left hand and "edges" another on circular saw directly in front of him with his right.

No. 4 Shingles are given anther inspection here as packer examines closely each piece before adding it to bundle in front of him. Bundles frequently are dry-kilned before shipment.



THE LONG-LIVED WOOD that is exemplified in western red cedar comes solely from the Pacific Northwest. From the forest, logs are hauled to mills by modern logging methods and equipment.

However, the process of cutting the cedar shingles has remained basically the same for more than 50 years. After the logs are chain-drawn into the shingle mills in large conveyor chutes they are cut into 16-, 18- or 24-in. lengths, according to the size of the shingle desired.

The large log sections are then split or cut into blocks of more or less triangular size for the shingle machines. Every effort is made to cut blocks having a true edge-grain face. The upright machines used to manufacture the actual shingle permit one operator to joint and edge the shingles that come from a single block.

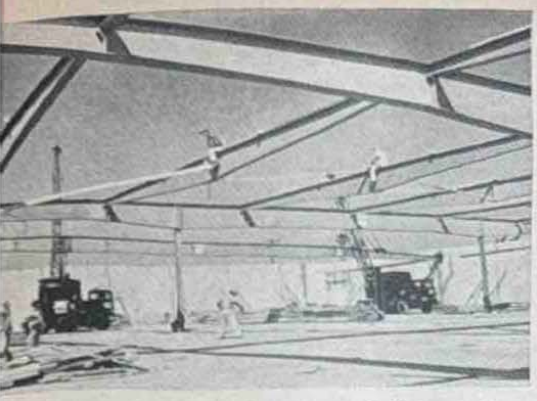
This machine is equipped with a reciprocating, power-driven carriage which carries the block into a thin-gauge, razor-sharp circular saw, which cuts off a complete shingle smoothly at each stroke. On each return stroke of the carriage, pawls engage with the feed rolls between which the block is firmly held, the upper feed roll and the lower feed roll being alternately turned so that a tapered shingle with the butt either up or down is cut at each stroke.

The sawyer picks up each shingle as it comes from the saw, places it on a springboard with the butt held firmly against a guide which is exactly at right angles to the blade of a second circular saw, and presses the springboard down so that the overhanging edge of the shingle is clipped off smoothly. Flipping the shingle over in his hand, he repeats the process, making another smooth edge parallel to the first one.

If defects are present in the shingle as it comes from the saw, he joints the shingle in such a way that a narrower shingle, or two shingles, without defects, can be obtained.

The sawyer then drops the shingle into the proper chute, depending upon the grade, leading to the packing bins below. The packer grades the shingles again as he packs them into bundles in a packing frame, thus checking the sawyer's work.

All shingle mills belonging to the Red Cedar Shingle Bureau come under a complete inspection program which has specific grading rules which each bundle of shingles must meet to maintain the quality standards of the U.S. Department of Commerce. Each shingle bundle carries a distinctive label under the bandstick which identifies the grade and size of the shingles.



EXTRA HEADROOM is provided by built-up steel plate girders on plant under construction in Los Angeles.

Welded girders

Welded girders, built up from steel plate to 190 ft. in length, are providing maximum headroom while using a minimum of steel on the new plant of Rose-Derry Co. in Los Angeles.

The six-ton transverse girders offer the extra headroom between supporting columns by using stress patterns on each beam which eliminate much of the depth required with rolled beams, as well as much of the weight and cost. Double-tapered cross members, built up from plate along the same pattern, provide increased headroom between the transverse beams.

Harold Roach Construction Co. is the general contractor erecting the girders fabricated by Grano Steel Co. from Kaiser Steel plate. Architects and engineers for the plant were Stiles and Robert Clements.

Campus project

A learn-by-doing program at Pasadena City College is teaching students the techniques of construction work in a way which will more quickly qualify them for advancement in the building trades, according to Dean Reinhold, instructor of building construction.

Now in its seventh year, the program wherein students actually design and construct a 1,000-sq. ft. model home on campus has successfully taught 200 students how to select materials, prepare cost estimates, perform carpentry and electrical work. Advanced students supervise the work of beginners, Reinhold says.

The project, he adds, is also an outstanding example of cooperation between school, industry and building trades. Active supporters of the program have been building products manufacturers the Building Contractors Association of Pasadena-San Marino and trade unions.

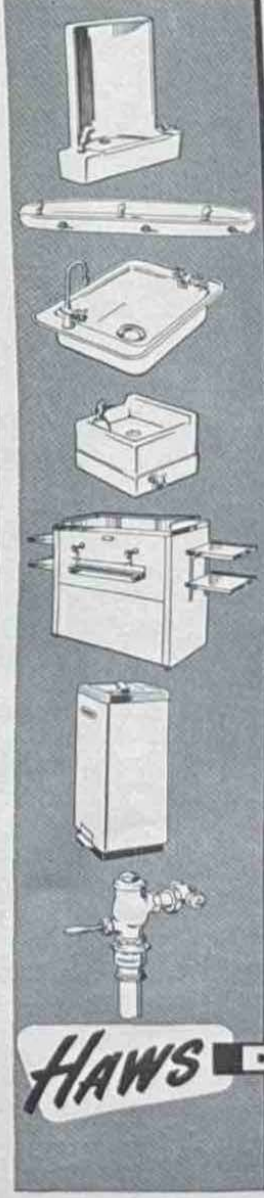
The building construction class meets four hours daily, three hours on the job and one hour in technical study, over a two-year period during which time they participate in building two homes of approximately 1,000 sq. ft.



MODEL HOME built entirely by Pasadena City College students is inspected by Dr. William Langsdorf, president, and Rose Queen Joan Culver. Supporters of program include Norris-Thermador, whose electrical appliances—built-in oven and countertop range—are shown here.

by HAWS

Leading Designs... for Leading Architects





MODEL 7W. Strikingly new in lifetime stainless steel. Flowing curves completely hide supply and waste fixtures... blend with modern styling.

"BUBBLER FEATURES"...

- **Raised fountain head: angle stream, shielded, anti-squirt... prevents direct mouth contact.**
- **Self-closing automatic stream control valve.**
- **Vandal-proof socket flanges prevent fixtures from being turned.**

HAWS provides drinking water facilities of the finest design for today's architectural planning. Handsome wall and pedestal models meet every design requirement—indoors or out, industrial or institutional! Up-to-the-minute styling by skilled craftsmen make HAWS Fountains the leaders!

All HAWS Fountains contain outstanding sanitation features, insuring a lifetime of unequalled protection. Find out what HAWS drinking water facilities can do for your projects!

Write for the new HAWS Catalog—today!

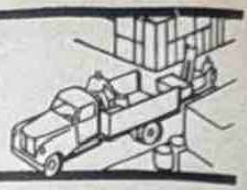
HAWS **DRINKING FAUCET CO.**

1443 FOURTH STREET (Since 1909) BERKELEY 10, CALIFORNIA

HAWS also features Electric Water Coolers, Deck-Type Fountains, HAWS Emergency Eye-Wash Fountains, and **KRAMER Flush Valves** for every make of plumbing fixture.

Builders and Suppliers

headlining the news



• **Concrete Products Association of Washington** has appointed Leland L. Sphar to the position of engineer-manager, succeeding W. S. Callender who is now associated with Seattle Concrete Pipe Co.



SPHAR

A graduate of Carnegie Institute of Technology, Sphar has served as research engineer for the legislative joint fact finding committee on highways, streets and bridges. He also has been public works engineer for the City of Olympia, Wash., and highway economist in the planning survey section for the Washington State Department of Highways.

Sphar will be available for consultation in the field of concrete masonry and precast products and concrete sewer and culvert pipe.

• **Gladding, McBean & Co.** plans immediate construction of a $5 million plant near Corona, Calif., for the manufacture of vitrified clay pipe, a key factor in the company's current $8 million expansion and modernization program. The largest tunnel kiln in the world, 450 ft. long, will be housed in the 200,000-sq. ft., one-story building.

President C. W. Planje announced last month that a discovery of vast new deposits of high-value clay had been made in Bedford Canyon. The new plant wil be located in that area.

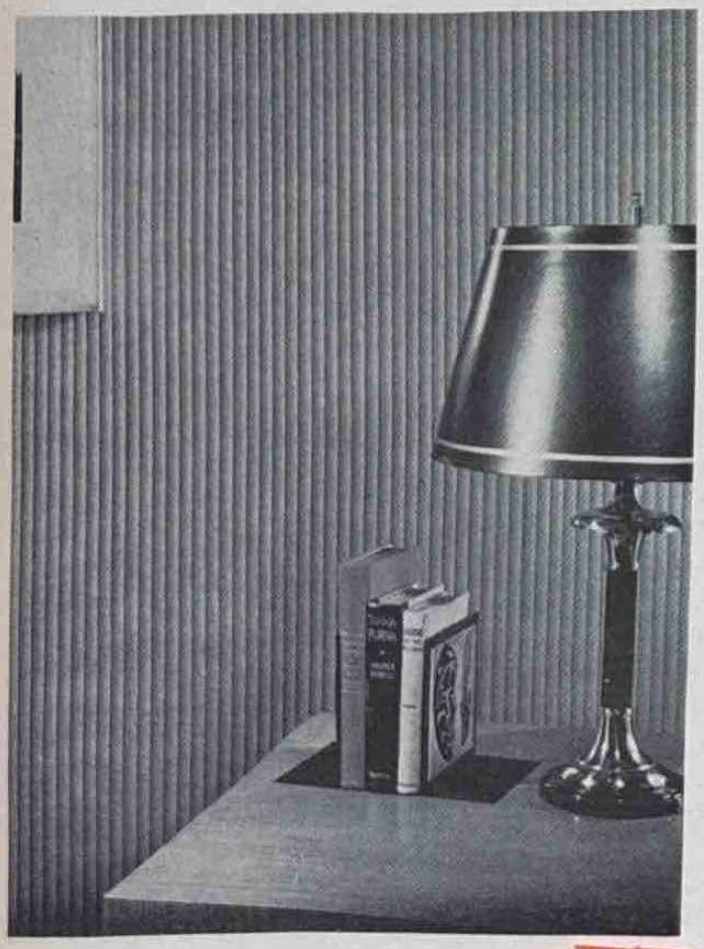
• **Douglas Fir Plywood Association** has reelected its president, Howard B. Garrison, former vice president and general manager of Evans Products Co., Coos Bay, Ore. A. W. (Bill) Agnew, vice president of Pacific Coast Co., Sonoma, Calif., has been renamed vice president; Arnold Koutonen, chairman of DFPA's management committee, is now secretary; and C. Henry Bacon Jr., vice president and general manager of Simpson Logging Co., Shelton, Wash., has been reelected treasurer.

Three association members have been cited in the first annual Carlton L. Smith Memorial Safety Awards competition. They are Weyerhaeuser Timber Co. which has worked 640,-269 man-hours with only two lost-time accidents at its Springfield, Ore., plant; Georgia-Pacific Corp., 363,592 man-hours with two lost-time accidents at its Toledo, Ore., plant; and United States Plywood Corp., with 61,170 man-hours without a lost-time accident at its Kosmos, Wash., plant.

Each year awards will be made in three divisions in memory of Smith, sales manager of Menasha Plywood Corp. and a strong advocate of safety training in fir plywood mills who died in 1952.

• **Arcadia Metal Products** of Fullerton, Calif., has a new architects' promotion representative, Clark C. Williams, who for more than 10 years has been building industry sales representative for Southern California Gas Co.

• **W. J. Burke Co.** has opened its new Seattle plant for manufacturing wire snap ties for concrete form construc-



Introducing . . .

NEW

Oregonbord

SURFA-tex

THE BLOND HARDBOARD WITH
THE RIPPLED SURFACE

Molded blond hardboard panels of the famous Oregonbord line are now available in a new and interesting rippled texture. Panels are 4' x 8' in either ¼" or ⅛" thickness. Tempered or Standard for interior or exterior application.

VISIT OUR NEW OFFICES
WHILE ATTENDING THE CONVENTION

Our newly and entirely renovated offices are open for your inspection during the convention. We invite you to see this new Surfa-tex and many other blond hardboards in a practical use in our own showrooms

SEPTEMBER 8-9-10-11

9:00 A. M. to 5:00 P. M.

WESTERN HARDBOARD SALES CO.
4th Avenue So. and Broadway
Tacoma, Washington

tion in temporary quarters at 2910 First Ave. S. All orders and deliveries will continue to be made from the company's office and warehouse at 1101 Elliott Ave. W., according to Verne K. Cooperrider, district manager.

● **Moore-Evans Steel Co.** has been formed in Eugene to serve the specialized needs of construction and manufacturing industries in southern Oregon and northern California. With facilities a 2030 Cross St., the newly organized firm has bought the equipment and inventory of Moore Steel Service Co.'s reinforcing steel fabrication division.

Principals Melvin C. Moore and Hugh E. Evans will be associated with Jim Rundall, engineer.

● **Northwest Structures, Inc.,** has begun production of glued laminated beams, trusses and arches for school and commercial construction at a former ice arena on the north side of Spokane. President George Kalk Jr. was in the plywood business at Mount Vernon, Wash. John H. Howard is vice president and Gordon Maxwell is plant superintendent.

● **The Mosaic Tile Co.** has announced two personnel changes in its western division. Thomas B. Jordan of Los Angeles will handle sales promotion and architectural contacts for the West Coast and Arthur McNeil, formerly assistant sales manager at the home office in Zanesville, Ohio, has been put in charge of territorial sales for the area.



"SALESMAN OF THE YEAR" for Kwikset Locks, Inc., Anaheim, Calif., Edwin J. Hoseus (l.) of Cincinatti, received congratulations from Robert T. Yerxa, general sales manager, and John St. John, sales manager of the Lockset division.

● **Kaiser Gypsum Co., Inc.,** has appointed Charles E. Watson as assistant district sales manager in the Pacific Northwest. Joining the company in 1952, he has been a special salesman in the southern California district.

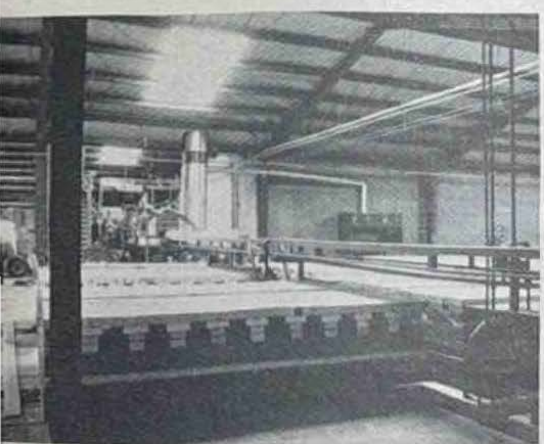
Kaiser Gypsum also has named these sales representatives: Jordan (Rocky) Montano to serve the Fresno-Bakersfield area; Norman G. Foley, the San Francisco-Peninsula area; and Gordon G. Brown Jr., Orange County sales area.

● **York Corp.** has appointed B. W. Steinkuller Pacific district manager, succeeding Clifton Sowers, who will continue his long affiliation with the company as a consultant. Now headquartered in Los Angeles, Steinkuller formerly directed York's San Francisco branch.

Northwest's first structural tile plant opens in Spokane

Washington Brick and Lime Co.'s new $400,00 glazed structural tile plant at Dishman, Wash., is now in operation.

The plant, which includes a large tunnel kiln, is the only one of its kind in the Northwest and one of three such installations west of the Mississippi.



CONVEYOR BELT delivers tile to transfer cars which take product through tunnel kiln. In background are glaze spraying and extrusion machines.

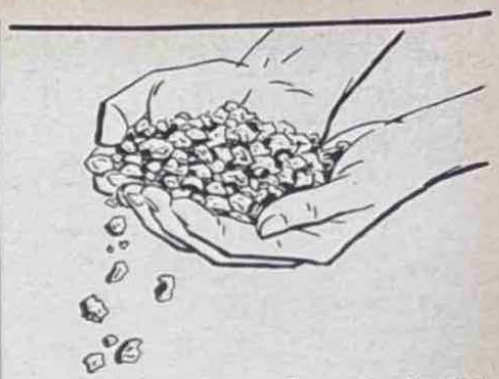
Using specially constructed transfer cars, tile is sent through the kiln automatically for the burning cycle. The gas fired kiln reaches a peak temperature of 2,100 deg. The plant is now operating on butane gas but will be switched over to natural gas in August.

It uses the latest equipment for the entire tile making operation. Clay mixture is sent through the extrusion machine where it is formed into various shapes by dies. It is then cut into desired lengths and sprayed with glaze before loading on transfer cars.

Washington Brick and Lime recently participated in the formation of the Western Structural Tile Institute for the purpose of standardizing specifications.

Officials report that there is a great demand for glazed structural tile in the Northwest. The Dishman plant was decided on after some manufacturers from other regions had quoted delivery dates up to nine months.

Robert Gaines is superintendent of the plant. President of the firm is Neal R. Fosseen.



These hands hold the answer to your concrete masonry needs...

CASCADE PUMICE

You'll find the most satisfactory concrete masonry material is Cascade Pumice Concrete. Its beautiful coloring when used as broken-faced block, plus strength and high insulation value, gives you a better job with lower handling and labor costs. Write for the technical story of Cascade Pumice today.

Count on Cascade Pumice Concrete for:



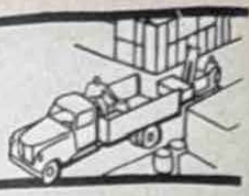
HIGH INSULATION VALUE
FIRE RESISTANCE
LIGHT WEIGHT
STRENGTH

WILLIAMSON *Cascade* PUMICE

Plant and Office:
P. O. Box 1083 Bend, Oregon

Builders and Suppliers

headlining the news



• **Concrete Products Association of Washington** has appointed Leland L. Sphar to the position of engineer-manager, succeeding W. S. Callender who is now associated with Seattle Concrete Pipe Co.



SPHAR

A graduate of Carnegie Institute of Technology, Sphar has served as research engineer for the legislative joint fact finding committee on highways, streets and bridges. He also has been public works engineer for the City of Olympia, Wash., and highway economist in the planning survey section for the Washington State Department of Highways.

Sphar will be available for consultation in the field of concrete masonry and precast products and concrete sewer and culvert pipe.

• **Gladding, McBean & Co.** plans immediate construction of a $5 million plant near Corona, Calif., for the manufacture of vitrified clay pipe, a key factor in the company's current $8 million expansion and modernization program. The largest tunnel kiln in the world, 450 ft. long, will be housed in the 200,000-sq. ft., one-story building.

President C. W. Planje announced last month that a discovery of vast new deposits of high-value clay had been made in Bedford Canyon. The new plant wil be located in that area.

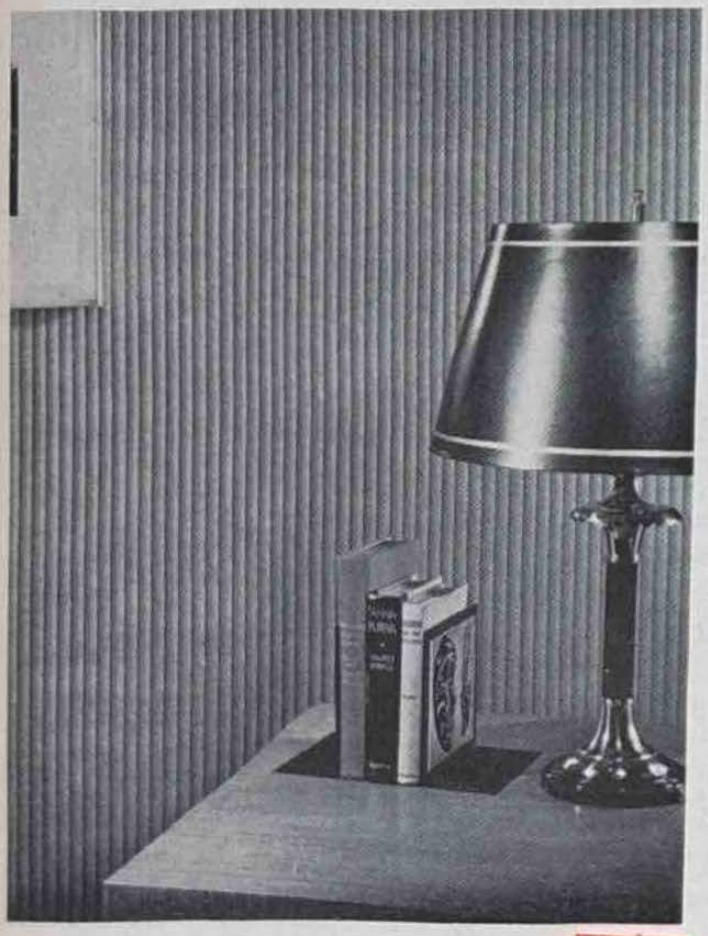
• **Douglas Fir Plywood Association** has reelected its president, Howard B. Garrison, former vice president and general manager of Evans Products Co., Coos Bay, Ore. A. W. (Bill) Agnew, vice president of Pacific Coast Co., Sonoma, Calif., has been renamed vice president; Arnold Koutonen, chairman of DFPA's management committee, is now secretary; and C. Henry Bacon Jr., vice president and general manager of Simpson Logging Co., Shelton, Wash., has been reelected treasurer.

Three association members have been cited in the first annual Carlton L. Smith Memorial Safety Awards competition. They are Weyerhaeuser Timber Co. which has worked 640,-269 man-hours with only two lost-time accidents at its Springfield, Ore., plant; Georgia-Pacific Corp., 363,592 man-hours with two lost-time accidents at its Toledo, Ore., plant; and United States Plywood Corp., with 61,170 man-hours without a lost-time accident at its Kosmos, Wash., plant.

Each year awards will be made in three divisions in memory of Smith, sales manager of Menasha Plywood Corp. and a strong advocate of safety training in fir plywood mills who died in 1952.

• **Arcadia Metal Products** of Fullerton, Calif., has a new architects' promotion representative, Clark C. Williams, who for more than 10 years has been building industry sales representative for Southern California Gas Co.

• **W. J. Burke Co.** has opened its new Seattle plant for manufacturing wire snap ties for concrete form construc-



Introducing . . .

NEW

Oregonbord

SURFA-tex

THE BLOND HARDBOARD WITH
THE RIPPLED SURFACE

Molded blond hardboard panels of the famous Oregonbord line are now available in a new and interesting rippled texture. Panels are 4' x 8' in either ¼" or ⅛" thickness. Tempered or Standard for interior or exterior application.

VISIT OUR NEW OFFICES
WHILE ATTENDING THE CONVENTION

Our newly and entirely renovated offices are open for your inspection during the convention. We invite you to see this new Surfa-tex and many other blond hardboards in a practical use in our own showrooms

SEPTEMBER 8-9-10-11

9:00 A. M. to 5:00 P. M.

WESTERN HARDBOARD SALES CO.
4th Avenue So. and Broadway
Tacoma, Washington

tion in temporary quarters at 2910 First Ave. S. All orders and deliveries will continue to be made from the company's office and warehouse at 1101 Elliott Ave. W., according to Verne K. Cooperrider, district manager.

• **Moore-Evans Steel Co.** has been formed in Eugene to serve the specialized needs of construction and manufacturing industries in southern Oregon and northern California. With facilities a 2030 Cross St., the newly organized firm has bought the equipment and inventory of Moore Steel Service Co.'s reinforcing steel fabrication division.

Principals Melvin C. Moore and Hugh E. Evans will be associated with Jim Rundall, engineer.

• **Northwest Structures, Inc.,** has begun production of glued laminated beams, trusses and arches for school and commercial construction at a former ice arena on the north side of Spokane. President George Kalk Jr. was in the plywood business at Mount Vernon, Wash. John H. Howard is vice president and Gordon Maxwell is plant superintendent.

• **The Mosaic Tile Co.** has announced two personnel changes in its western division. Thomas B. Jordan of Los Angeles will handle sales promotion and architectural contacts for the West Coast and Arthur McNeil, formerly assistant sales manager at the home office in Zanesville, Ohio, has been put in charge of territorial sales for the area.



"SALESMAN OF THE YEAR" for Kwikset Locks, Inc., Anoheim, Calif., Edwin J. Hoseus (l.) of Cincinatti, received congratulations from Robert T. Yerxa, general sales manager, and John St. John, sales manager of the Lockset division.

• **Kaiser Gypsum Co., Inc.,** has appointed Charles E. Watson as assistant district sales manager in the Pacific Northwest. Joining the company in 1952, he has been a special salesman in the southern California district.

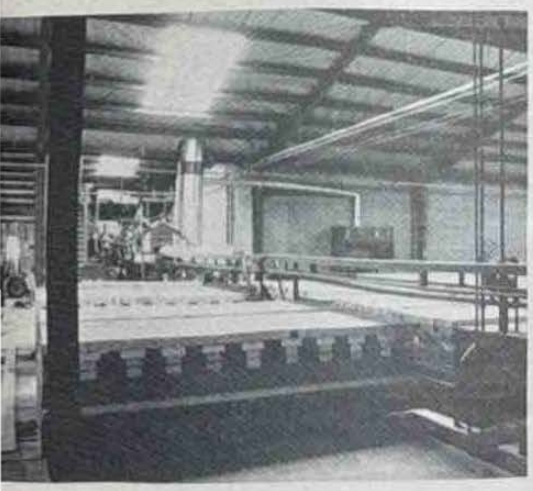
Kaiser Gypsum also has named these sales representatives: Jordan (Rocky) Montano to serve the Fresno-Bakersfield area; Norman G. Foley, the San Francisco-Peninsula area; and Gordon G. Brown Jr., Orange County sales area.

• **York Corp.** has appointed B. W. Steinkuller Pacific district manager, succeeding Clifton Sowers, who will continue his long affiliation with the company as a consultant. Now headquartered in Los Angeles, Steinkuller formerly directed York's San Francisco branch.

Northwest's first structural tile plant opens in Spokane

Washington Brick and Lime Co.'s new $400,00 glazed structural tile plant at Dishman, Wash., is now in operation.

The plant, which includes a large tunnel kiln, is the only one of its kind in the Northwest and one of three such installations west of the Mississippi.



CONVEYOR BELT delivers tile to transfer cars which take product through tunnel kiln. In background are glaze spraying and extrusion machines.

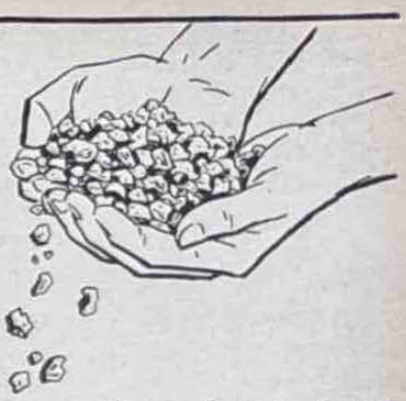
Using specially constructed transfer cars, tile is sent through the kiln automatically for the burning cycle. The gas fired kiln reaches a peak temperature of 2,100 deg. The plant is now operating on butane gas but will be switched over to natural gas in August.

It uses the latest equipment for the entire tile making operation. Clay mixture is sent through the extrusion machine where it is formed into various shapes by dies. It is then cut into desired lengths and sprayed with glaze before loading on transfer cars.

Washington Brick and Lime recently participated in the formation of the Western Structural Tile Institute for the purpose of standardizing specifications.

Officials report that there is a great demand for glazed structural tile in the Northwest. The Dishman plant was decided on after some manufacturers from other regions had quoted delivery dates up to nine months.

Robert Gaines is superintendent of the plant. President of the firm is Neal R. Fosseen.



These hands hold the answer to your concrete masonry needs...

CASCADE PUMICE

You'll find the most satisfactory concrete masonry material is Cascade Pumice Concrete. Its beautiful coloring when used as broken-faced block, plus strength and high insulation value, gives you a better job with lower handling and labor costs. Write for the technical story of Cascade Pumice today.

Count on Cascade Pumice Concrete for:

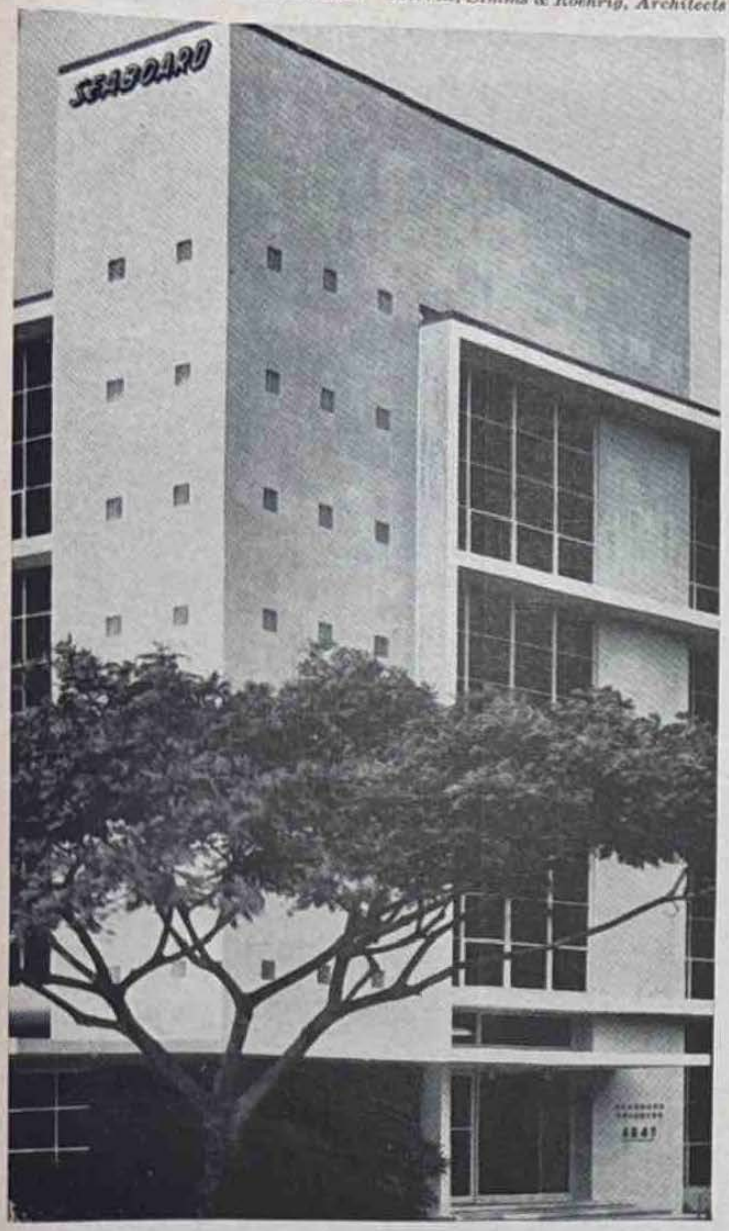


HIGH INSULATION VALUE
FIRE RESISTANCE
LIGHT WEIGHT
STRENGTH

WILLIAMSON *Cascade* PUMICE

Plant and Office:
P. O. Box 1083 Bend, Oregon

Seaboard Finance Co., Honolulu, T.H. Merrill, Simms & Roehrig, Architects



Commanding Architectural Expression executed in

KRAFTILE VENEER

with 60% Savings in Space and Weight

Glazed ceramic veneer panels of ⅜" thickness, weighing only 4 lbs. per sq. ft. offer construction economies, permanent beauty and ease of maintenance. For modernization or new construction, Kraftile Veneer permits much faster handling, on-the-job cutting, and reduced structural support. Install over wood, steel or concrete by common adhesion method. Select color range. Write for Fact File of shapes, specifications and installation examples.

KRAFTILE VENEER

Niles, California

Building news-trends-views

(Cont'd. from p. 7)

Los Angeles-Long Beach area, is now being reflected in increased commercial building and higher retail sales. R. Reese Myers, president of the Los Angeles Home Builders Institute, reports that commercial construction is at least 13% ahead of last year and that the 1956 volume probably will exceed $220 million.

A SACRAMENTO PSYCHIATRIST has urged the board of supervisors to hire special architectural consultants for the remodeling of Sacramento Hospital's psychopathic ward. "It takes specialized architectural skill and experience," Dr. Daniel J. Sullivan declares, "to set up a psychiatric ward so as to include the necessary security precautions and yet avoid the jail kind of appearance which obviously should be avoided in a hospital setting." His "snake pit" charges led to an investigation earlier this year.

CHICAGO'S SKYLINE WILL BE TOPPED by a 50-story luxury tower, to be the city's tallest building, planned by Frank Lloyd Wright. An outer shell of aluminum and glass will be hung on cantilever floors extending from a central mast of reinforced concrete like branches extending from a tree. The site will overlook the lake front and Lincoln Park.

AMERICAN DESIGNERS certainly would have felt at home at a national conference of architects in Warsaw, for Premier Cyrankiewicz said that Polish architecture in too many cases suffered from "facade illness"— a false manumentalism. "We need simplicity and modesty, harmony between facade and interior, between style and building material, between elevation and environment, and between planning and common sense," he added.

A MINIMUM DROP of 250,000 housing starts during 1956 at a cost of more than $3 billion to the national economy is foreseen by John M. Dickerman, NAHB executive director, largely as a result of credit restrictions and tight mortgage money.

TV HAS ENTERED THE BANKING BUSINESS in Bridgeport, Conn. A system created by the president of Mosler Safe Co. enables a teller at his station to serve a customer seated in a car 100 ft. away. It includes a two-way closed circuit TV by which customer and teller see and speak to each other and underground pneumatic tubes through which they transfer money and papers. Development of the "TV Snorkel," says Edwin H. Mosler Jr., brings banking one step closer to the bank of tomorrow.

NEW HEADQUARTERS for the American Concrete Institute in Detroit, designed by Minoru Yamasaki, will feature a folded-plate reinforced concrete roof system, cantilevered front and rear from concrete interior corridor walls. It will project over the exterior walls of pecast concrete panels and glass, shielding them from summer sun and reducing the air conditioning load.

TREE FARMS IN THE 12-STATE western pine region have topped the 1,000-mark in number and 6,000,000-acre mark in total area. The movement, which started 14 years ago in western Washington, has spread to 42 states. Idaho is far ahead in tree farm numbers, with a total of 588 already certified. Other states: California, 170; Washington, 166; Oregon, 74; Montana, 52.

THE $113 MILLION EXPANSION PROGRAM now underway at Kaiser Steel Corp.'s Fontana, Calif., plant will up its production of steel ingots and finished steel by 40%. It is estimated that construction will be completed in about two years, although individual facilities will go into operation as they are ready. The project is believed to be the largest single expansion of an industrial plant in West Coast history.

Construction News Bulletin

Vol. 62—No.17 (PA&B) News Section of Pacific Architect and Builder August 18, 1956

D. F. McCormick.....News Editor
G. M. Westman.....News Staff
Win Romtvedt.....Portland News Manager
S. S. Phillips.....News Staff
Newsroom • 2418 Third Avenue, Seattle 1, Washington • Phone MAin 0285

BUILDING NEWS

Washington, Oregon, Idaho, Montana, Wyoming, Utah, Alaska

- ● Bids Called
- ★ Contract Awards
- ▲ Low Bids—Bid Received
- ■ Planholders—Prospective Bidders

OREGON

★RESIDENCES— Brookings, Gold Beach, Ore.

Award by U.S. Forest Service, Frank Walisch, regional supply officer, 729 N.E. Oregon St., P.O. Box 4137, Portland, for construction of residences at Brookings, Ore., and at Gold Beach, Ore., Siskiyou National Forest. AWARD: Clyde Hamilton, 227 N.E. "A" St., Grants Pass, $32,510. OTHER BIDS: Donald W. Thompson, North Bend, $35,679; Mann Construction Co., Redmond, $41,200; Horton Bros., Brookings, (one residence only) $21,819. Bids opened August 7. WB 8-15. Previous report 7-24

●CHURCH— Condon, Ore.

Bids to be opened 4 p.m., August 24, in office of Williams and Martin, architects, 1919 S.W. 12th Ave., Portland, for church for Community Congregational Church, Bruce Mercer, chairman of building committee, Condon, Ore. Plans with architects. $50 deposit. Bid bond 5%.

Planholders: McCormack Construction Co., S.E. 3rd and Goodwin, Pendleton; Dunford Construction Co., 10815 S.W. Walker Road, Beaverton; Fred W. Carter Co., Inc., 6034 N.E. 60th Ave., Portland.

Church to seat 200; includes main auditorium and education wing with basement. Wood frame and brick construction; glued laminated arches; brick and cedar siding exterior; shake roof over auditorium; built-up roofing elsewhere; wood sash with stopped-in glass; cathedral glass in nave; hemlock roof deck; vinyl and cork flooring; sheet rock interior; oil-fired, hot air heating; kitchen facilities. WB 8-11

●SCHOOL ADDITION—Cherry Grove, Ore.

Bids to be opened 8 p.m., August 20, by School District No. 32, Washington County, Board of Directors, Cherry Grove, Ore., for addition of multi-purpose room to the school, about 12 miles south of Forest Grove. Plans with Scott & Payne, architects, 511 Builders Exchange Bldg., Portland. $25 deposit.

Planholders: Weston Construction Co., 7415 N.E. Glisan St., Portland; Sergeant Construction Co., 10104 S.E. Ankeny St., Portland; Limpus & Phelps, Forest Grove; Wayne Haller, Route 1, Box 43H, Forest Grove.

Concrete block construction; concrete slab floor; glued laminated arches; built-up roofing; steel sash; cement paint exterior finish; interior to be mostly unfinished. WB 8-15

●TELEPHONE BUILDINGS— Elkton, Scottsburg, Ore.

Bids to be opened 2 p.m., P.S.T., August 21, by Umpqua Telephone Co., C. J. Lickider, owner-manager, Elkton, Ore., for two masonry type central office buildings, one at Elkton and one at Scottsburg; R.E.A. Project No. 513. Plans with Northwest Telephone Engineers, c/o Umpqua Telephone Co., Elkton. $5 deposit.

WB 8-11. Previous report 2-8

●MICROWAVE BUILDING—Estacada, Ore.

Bids to be opened 2 p.m., August 28, by Pacific Telephone & Telegraph Co., Charles Twelves, chief engineer, Lincoln Bldg., Portland, for construction of microwave relay building near Estacada. Select list of bidders.

Planholders: Robertson, Hay & Wallace, 1801 S.E. Grand Ave.; Sergeant Construction Co., 10104 S.E. Ankeny St.; George Moore & Associates, 923 S.W. 17th Ave. Of Portland.

One-story, concrete block and reinforced concrete structure, 35'x43'. Bids to be invited later for construction of 75' steel tower at the site. WB 8-15

●LODGE— Eugene, Ore.
(Estimated cost $230,000)

Bids to be opened 2 p.m., August 21, by Loyal Order of Moose, Dewey Hazelton, secretary, Moose Lodge Bldg., Eugene, for new building at 13th and Chambers St. Plans with Freeman, Hayslip, Tuft & Hewlett, architects, 2040 S.W. 3rd Ave., Portland. $25 deposit. Certified check, cashier's check or bid bond 5%.

Planholders: John M. Steinmuller, Jr., 907 W. 3rd; L. S. and R. S. Millhollen, 783 Howard Ave.; Albert Vik & Son, 160 Madison St.; Youel & Huffman, 170 W. Hilyard Lane; Waldo S. Hardie & Son, 191 Park Ave.; Robert L. Deller, 636 Wisteria Drive; Grubb, Johnson & Rose, Crees Bldg., Corvallis. Of Eugene except as noted.

One-story structure including men's and women's lodge rooms, lounge, stag room, dining room, office, library and cloak rooms. Frame construction on concrete slab floor on grade; brick veneer and wood siding exterior; laminated beam roof with joists and built-up roofing; aluminum sash; interior finishes mostly plastic floorng, gypsum walls and acoustical tile ceilings; some wood paneling; some luminous ceilings; ceramic tile floors and wainscoting in toilets; incandescent lighting; low pressure steam heating with attic units; supplemental coils for refrigerated cooling.

WB 8-11. Previous report 3-10

★MEN'S DORMITORY— Eugene, Ore.

Awards by Oregon State Board of Higher Education, Earl M. Pallett, secretary, room 110, Portland State College, 1620 S.W. Park Ave., Portland, for dormitory building at 15th and Agate St., Eugene. Plans by Church, Newberry & Roehr, architects, 619 Builders Exchange Bldg., Portland. AWARDS — GENERAL: Wall, Bartram & Sanford, P.O. Box 488, Junction City, $824,900. MECHANICAL: Willis Plumbing & Heating Co., 450 Figueroa, Eugene, $217,700. ELECTRICAL: L. H. Morris, 944 W. 5th St., Eugene, $56,456.

WB 8-11. Previous report 7-31

▲SCHOOL— Eugene, Ore.

Bids received by School District No. 504C, Clarence Hines, superintendent, 275 E. 7th, Eugene, for construction of Ida Patterson Elementary School near W. 14th and Taylor Avenues in Eugene. Plans by Balzhiser & Seder, rachitects, 1920 Franklin Blvd., Eugene. Bids opened August 13. LOW BIDS: Youel & Huffman, 170 W. Hilliard Lane, Eugene, $297,914 (base bid), $17,858 (add alt 1), $1,630 (add alt. 2); Waldo Hardie & Son, 858 Pearl, Eugene, $298,935, $16,480, $1,660; Albert Vik & Son 160 Madison, Eugene, $308,545, $18,631, $1,800. If alternates are exercised, Waldo Hardie & Son will be low.

DW 8-15. Previous report 8-7

CITY HALL, FIRE HALL— Forest Grove, Ore.
(Estimated cost $75,000)

Preliminary plans approved by City Council, City Hall, and by Forest Grove Rural Fire Protection District, in Forest Grove, for construction of a joint city hall-fire hall building in Forest Grove. Plans by James C. Gardiner, architect, 3158 S.W. 87th Ave., Portland. SC 8-7. Previous report 5-18

CHURCH— Heppner, Ore.

Architects Eddy, Carlson & James, N. 1205 Washington St., Spokane, have been retained to prepare plans for the new American Lutheran Church in Heppner. Rev. Zier is pastor. CE 8-8

●REMODELING NATATORIUM— **Klamath Falls, Ore.**

Bids will be received until 3 p.m. (advanced from 4:30 p.m.) and will be opened 5 p.m., August 20, in the office of the superintendent, Klamath Falls School District No. 2, room 200, Klamath Union High School, Klamath Falls, for remodeling existing Klamath Union High School natatorium, located on the high school grounds. A general bid will include all items of work. Plans with Morrison & Howard, architects, 203 Williams Bldg., Klamath Falls. $35 deposit. Certified check or bid bond 5%.

Project includes demolition of existing roof and walls of natatorium, construction of new shell of building. Walls rebuilt of 8" pumice block; glued laminated wood beams; joist ceiling; built-up composition roof; 6'x68' extension to length of building making it 47'x72'; 3' deck along length of building increased to 9' deck; reinforced concrete foundation for addition; glass block lighting unit windows; forced air ventilators; metal fire doors.

ZZ 8-10. Previous report 8-7

★DORMITORY— **Klamath Falls, Ore.**
(Estimated cost $18,000)

Self-contract has been arranged between Oregon Technical Institute, five miles east of Klamath Falls, and building trade unions for rehabilitation of vacated Marine Corps barracks into a dormitory for the institute. Plans supervised by Winston S. Purvine, director, Oregon Technical School. Two-story, 16'x16', frame building to provide 42 additional double dormitory rooms for the two-year trades school. Floors, walls and roof to be repaired and fire-proofing added.

ZZ 8-14

★RESIDENCE— **Merrill, Ore.**

Contract negotiated with Leon McGuire, Tulelake, Calif., $11,500, for construction of three-bedroom ranch-type residence at 233 N. Garfield in Merrill. House to have area of 1,090 sq. ft.; garage 14'x22'. ZZ 8-11

★RETIREMENT HOME ANNEX— **Milwaukie, Ore.**

Construction starting by Frank C. Ralph & Sons, 2204 N.E. Alberta St., Portland, on Willamette View Court, annex to Willamette View Manor, Clyde W. Mummery, administrator, 2705 Southeast River Road, Milwaukie. Plans by Leslie E. Poole, engineer, 301 Royal Bldg., Portland. Contract has not been formally signed but it will be in excess of basic bid of $1,235,282.

WB 8-11. Previous report 7-25

●SCHOOL ADDITION— **Molalla, Ore.**

Bids to be opened 8 p.m., August 22, by School District No. 35-C, Clackamas County, K. R. Treadwell, clerk, New Grade School Bldg., Molalla, for construction of grade school addition (readvertisement). Plans with Freeman, Hayslip, Tuft & Hewlett, architects, 2040 S.W. 3rd Ave., Portland. $50 deposit. Certified check, cashier's check or bid bond 5%.

Planholders: Sterner Construction Co., 13845 S.E. Rhine Ave., Portland; Art Lantz & Son, Molalla; Fred Blomenkamp, Route 3, Box 343, Molalla; Weston Construction Co., 7515 N.E. Glisan St., Portland; Anfelt B. Hansen, 4115 S.E. Ogden St., Portland.

Addition of four classrooms, gymnasium, dressing rooms, stage and toilets. Classroom section is frame construction on concrete slab; trussed rafters; composition roofing; glass blocks with metal insert sash; asphalt tile flooring; plywood wainscoting; fibreboard upper walls; acoustical tile ceilings. Gym section has frame floor construction with maple flooring; plywood wall finish; acoustical ceiling; concrete floor in dressing room section, with ceramic tile on shower and drying area floors; attic ventilators from existing plant; incandescent lighting. WB 8-11. Previous report 7-7

★ALL-PURPOSE BUILDING— **Newberg, Ore.**

Award announced by School District No. U 6-J, Yamhill County, Newberg, for construction of an all-purpose building between the high school and junior high school in Newberg. Plans by John Laurin Reynolds, architect, 364 E. Broadway, Eugene. Bids opened August 6. AWARD: R. M. Curtis, Newberg, $115,130. 2ND LOW: Weston Construction Co., 7415 N.E. Glisan, Portland, $127,200. 3RD LOW: United Builders, Beaverton, $129,250.

SP 8-11. Previous report 7-19

★ELEMENTARY SCHOOL— Ontario, Ore.

Award to Bechtel Bros., Box 792, La Grande, $182,497, by School District No. 8-C, Tom Calkins, superintendent, Malheur County, Ontario, for construction of new elementary school at 1300 W. Idaho Ave. in Ontario. Plans by Charles W. Johnson, architect, 13 N. 8th, Payette, Idaho.

SP 8-10. Previous report 7-27

▲BUILDING MODIFICATION— **Ordnance, Ore.**

Bids received by Corps of Engineers, Walla Walla District, 602 City-County Airport, Walla Walla, for modifications to ammunition normal maintenance building at Umatilla Ordnance Depot, Ordnance, Ore.; ENG-45-164-56-47. LOW BIDS: Foster Sheet Metal Co., 1207 W. Imnaha, Kennewick, $25,285; Royal Co., Inc., 109 N. Washington, Kennewick, $27,225. Bids opened August 8.

GW 8-14. Previous report 7-31

■CHURCH ADDITION—Oregon City, Ore.

Planholders announced for addition to Zion Lutheran Church, 8th and Jefferson Sts., Oregon City. Bids to be received until 4 p.m., August 24, at office of Edmundson, Kochendoerfer & Kennedy, architects and engineer, 325 Henry Bldg., Portland. Plans with architects-engineer. $25 deposit.

Planholders: Weston Construction Co., 7415 N.E. Glisan St.; Blanchard Construction Co., 2546 S.W. Vista Ave.; Sterner Construction Co., 13845 S.E. Rhine St.; Walker & Greene, Route 3, Oregon City; James & Yost, Inc., 5910 N.E. Ainsworth St.; Wilson & Dean, 1016 N.E. 61st Ave. Of Portland except as noted.

WB 8-15. Previous report 8-9

▲RE-ROOFING, CLEAN GUTTERS— **Portland, Ore.**

Bids received by Multnomah County Board of Commissioners, John W. West, purchasing agent, 504 County Court House, Portland, for re-roofing main roof and cleaning gutters on court house. BIDDERS: Shamrock Sheet Metal & Roofing Co., Swan Island, $13,855; O. P. Bigoni, 4121 N.E. Highland St., $14,288; Tri-State Roofing Co., 4506 S.E. 39th Ave., $19,700; The Bee Co., 134 3rd Ave., $22,100. Of Portland. Bids opened August 7.

WB 8-10. Previous report 7-26

★INSTALL LINOLEUM— Portland, Ore.

Award to Dicken & Cook, Superway and Meldrum, Oregon City, $1,182, by city purchasing agent, 208 City Hall, Portland, for installing linoleum at Stanton Yard. Bids opened July 30.

WB 8-11. Previous report 7-24

★WAREHOUSE-OFFICE BUILDING— **Portland, Ore.**

Award to C. M. Corkum Co., 2630 S.W. 2nd Ave., Portland, $62,913, by the Charles P. Cramer Estate, for warehouse and office building for lease to Reid-Strutt Co., 1015 S.E. Stark St. Plans by Neil Farnham, architect, 2850 N.W. Westover Road, Portland.

WB 8-11. Previous report 8-8

★CHURCH ADDITIONS— Portland, Ore.

Award to William Wechner, 214 N. Russell St., Portland, $56,000, by St. Johns Pioneer Methodist Church, 7528 N. Charleston Ave., Portland, for educational wing addition. Plans by Nelson A. Hodges, Jr., architect, Route 3, Box 228, Tigard.

WB 8-11. Previous report 4-27

●STEAM DISTRIBUTION FACILITIES— **Portland, Ore.**

Bids to be opened 11 a.m., September 7, by Oregon State Board of Higher Education, Earl M. Pallett, secretary, room 117, Administration Bldg., University of Oregon Medical School, Portland, for extension of steam distribution system from the tuberculosis hospital to the medical school to serve the nurses' dormitory and cripple children's division. Includes incidental work in various boiler rooms. Plans with J. Donald Kroeker and Associates, mechanical engineers, 4504 S.W. Corbett Ave., Portland. $50 deposit. Certified check or bid bond 10%.

WB 8-14

★STUDENT UNION BUILDING— **Portland, Ore.**

Awards made on basic bids by Oregon State Board of Higher Education, Dr. Earl Pallett, secretary, room 110, Portland State College, 1620 S.W. Park Ave., Portland, for Portland State College Center Bldg., S.W. Montgomery St. and Park Ave. AWARDS—GENERAL: A. V. Petersen Co., P.O. Box 2368, $681,681. MECHANICAL: A. G. Rushlight & Co., 3900 N.W. St. Helens Road, $158,793. ELECTRICAL: Lord Electric Co., 535 S.W. Clay St., $81,875. Of Portland.

WB 8-14. Previous report 8-7

SWIMMING POOL— Portland, Ore.
(Estimated cost $100,000)

Edmundson, Kochendoerfer & Kennedy, architects and engineer, 325 Henry Bldg., Portland, retained by City, Fred L. Peterson, mayor, City Hall, Portland, to design outdoor swimming pool at Woodrow Wilson High School.

WB 8-14

OFFICE, WAREHOUSE— Portland, Ore.
(Estimated cost $250,000)

Construction starting by Monson & Sivers, 5000 S.E. 25th Ave., Portland, on a office and warehouse building for Six Robblees, Inc., 1335 S.E. Grand Ave., Portland. Plans by Gordon Kee Cochran, architect, 1962 N.W. Kearney Ave.

Company forced to move by approach to new Morrison St. Bridge. New site is S.E. 8th Ave. and Division Place. Warehouse portion of tilt-up concrete construction; flat, built-up roof supported by glued laminated beams and joists; steel sash; four truck loading doors, and two rail loading doors; 40,000 sq. ft. of heated warehouse space plus parts department with separate entrance, shipping office, lunch room, lavatory and boiler room. Two floors of office space, each containing 5,000 sq. ft.; air-conditioning; brick facing and window walls; vertical fins for sun control.

WB 8-14

▲BUILDING REPAIRS— Portland, Ore.

Bids opened by Port of Portland, John J. Winn, Jr., general manager, 5848 N. Lagoon Ave., Swan Island, P.O. Box 4099, Portland, for repairing six buildings at Swan Island. BIDDERS: O. B. Bigoni Roofing, 4121 N.E. Highland, $14,422; Tri-State Roofing Co., 4506 S.E. 39th Ave., $16,390; Paramount Construction Co., 4234 S.E. Hawthorne Blvd., $17,914; Arrow Metal Works, 2225 N. Killingsworth St., $17,948. Of Portland. Bids opened August 13.

WB 8-15. Previous report 8-8

★FIRE ESCAPE— Salem, Ore.

Award to T. J. Patzer, 1960 Highway Ave., Salem, $4,564, by Oregon State Board of Control, room 124, Capitol Bldg., Salem, for construction of a steel exterior fire escape on Supreme Court Bldg. in Salem. Plans by William I. Williams, architect, 1390 N. Capitol, Salem. Bids opened August 7.

SP 8-11. Previous report 8-7

★EXTERIOR STAIRWAY— Salem, Ore.

Award to Lorentz Bruun, 3636 S.E. 20th Ave., Portland, $5,950, by Oregon State Board of Control, 124 Capitol Bldg., Salem, for construction of an exterior stairway at Public Service Bldg., Salem. Plans by Church, Newberry & Roehr, architects, 619 Builders Exchange Bldg., Portland. Bids opened July 6.

WB 8-11. Previous report 6-19

▲SCHOOL ADDITION— Seaside, Ore.

Bids received by School District No. 10-C, Clatsop County, Harry Ohlmann, Jr., clerk, Broadway School, Seaside, for addition to the school. Plans by Potter & Robinson, architects, 1920 S.W. 57th Ave., Portland. BIDDERS: Albert Mittet Co., 905 Irving St., Astoria, $34,907; Simonton & Steele, 3305 S.W. Garden Home Road, Portland, $36,697; Sterner Construction Co., 13845 S.E. Rhine St., Portland, $38,650. School board to meet August 15 to consider award.

WB 8-11. Previous report 7-20

★**RESIDENCE—** **Silver Lake, Ore.**

Award to Hampton C. Platt, 3805 Thorndale Road, Salem, $18,250, by U. S. Forest Service, regional supply officer, P. O. Box 4137, Portland, for construction of residence at Silver Lake Ranger Station, Silver Lake, Ore., Fremont National Forest. Bids opened August 2. WB 8-11. Previous report 7-20

WASHINGTON

●**RESIDENCES, OFFICE BUILDING—** **Amboy, Wash.**

Bids to be opened 2 p. m., August 28, by U. S. Forest Service, Frank Walisch, regional supply officer, 729 N.E. Oregon St., P. O. Box 4137, Portland, for construction of three 3-bedroom residences and an office building at Chelatchie Prairier Ranger Station approximately 4 miles northeast of Amboy, Clark County, Wash., Gifford Pinchot National Forest. Plans with supply officer, or Forest Supervisor, 801 W. 8th St., Vancouver. One-story, frame structures; residences, 45'x38', and office building, 24'x80'. WB 8-15

DOCK— **Anacortes, Wash.**

Approval given to Texas Co., W. B. Logan, Pacific Coast manager, Refining Division, 2500 16th S.W., Seattle, by Corps of Engineers, Seattle District, 4637 E. Marginal Way, Seattle, for construction of a loading pier and wharf to service proposed oil refinery at March's Point, Fidalgo Bay, Anacortes. Bids will be called in September and construction will begin in October. JD 8-14. Previous report 7-13

CHURCH— **Auburn, Wash.**

Drawings have been completed by K. Walter Johnson and John V. Austin, architects, 8810 Bridgeport Way, Tacoma, for a new structure for Zion Lutheran Church in Auburn. Pastor is Rev. John Werth, 101 E. G St., Auburn. Construction will start in September. Sub-contract bids are being received.

Structure to have 3,400 sq. ft. area on main floor, 2,400 sq. ft. in daylight basement; 260 seating capacity; combination solid masonry and frame with cedar siding; vinyl-asbestos and hardwood floors; built-up and asphalt shingle roof; two furnace, perimeter warm air heating plant; glued laminated arches and beams; aluminum windows; 3" t&g floor decking; 2" t&g roof deck. DM 8-11

★**YMCA BUILDING—** **Bellingham, Wash.**

Awards announced by Milton A. Orphan, general secretary, YMCA, State and Holly Streets, Bellingham, for the YMCA building at above address. No amounts disclosed on awards. AWARDS—GENERAL: Lindquist Construction Co., 509 Potter St. ELECTRICAL: Mills Electric Co., 1511 Cornwall. MECHANICAL: Blythe Plumbing & Heating Co., 1313 Railroad Ave. PAINTING: Hagen & Hogberg Paint Co., 1410 Cornwall. All of Bellingham. JD 8-10

★**SERVICE STATION—** **Bellingham, Wash.**

Award to Hebb & Narodick Construction Co., Inc., 232 4th Ave. N., Seattle, $24,500, by Union Oil Co., Glen Keith, local agent, Grand and Kentucky Streets, Bellingham, for construction of new service station at 3024 Northwest Ave. in Bellingham. JD 8-10

FIRE HALL— **Bellingham, Wash.**

(Estimated cost $50,000-$75,000)

Plans cancelled by City Council, City Hall, Bellingham, for construction of new north end fire hall at East Victor and Walnut on Northwest Ave. in Bellingham. New site location now under consideration as owners of property adjacent to existing site have protested the location. JD 8-14

MAUSOLEUM— **Burlington, Wash.**

Plans nearly complete for construction of a modern mausoleum in the Burlington Cemetery. City Council of Burlington has proposed entering into a lease with Northwest Mausoleum Co. for the construction. Heavily reinforced concrete, bronze and marble construction; 100 crypts and 400 niches for cremated remains. JD 8-7

PAINTING— **Bremerton, Wash.**

Bids rejected by 13th Naval District, Building 232, U. S. Naval Station, Seattle, for exterior painting of two buildings and a crane at Puget Sound Naval Shipyard, Bremerton; NBy2082; Spec. No. 2082/56. DM 8-14. Previous report 8-2

★**HIGH SCHOOL—** **Davenport, Wash.**

Award to E. R. Haynes Construction Co., W. 2028 Sinto, Spokane, $179,970, by Lincoln County School District No. 207, Jack Newell, superintendent, Davenport, for construction of a high school in Davenport. Plans by Culler, Gale, Martell & Norrie, architects, 615 Realty Bldg., Spokane. SP 8-10. Previous report 7-24

CHURCH ADDITIONS— **Dayton, Wash.**

(Estimated cost $40,000)

Working drawings underway by Eddy, Carlson & James, architects, N. 1205 Washington St., Spokane, for the construction of one-story educational unit addition to Dayton First Methodist Church, Rev. Linden B. Jenkins, pastor, S. 110 3rd St., Dayton. This is first unit of building addition program which includes further expansion of the church. Construction to start early spring of 1957. CE 8-8. Previous report 1-13

★**BRICK WORK—** **Deming, Wash.**

Award to Nelson Construction Co., Ferndale, $6,493, by Mount Baker High School District, William Castles, superintendent, Mount Baker High School, Deming, for replacing brick-work at the high school. JD 8-10

MEDICAL CENTER—East Wenatchee, Wash.

Plans announced by Eastside Chamber of Commerce, C. C. Simpson, vice president, East Wenatchee, for construction of a modern medical-dental center for which property is being acquired close to north limits of East Wenatchee. SC 8-7

★**HIGH SCHOOL—** **Edmonds, Wash.**

Awards by Edmonds School District No. 15, Harold Silvernail, superintendent, Box 308, Edmonds, for construction of a new senior high school at Holmes Corner, at 76th Ave. W. and 216th Ave. S.W., Edmonds. Plans by Waldron & Dietz, architects, room 8, 208 Columbia, Seattle. AWARDS—GENERAL: Dahlgren Construction Co., 1700 21st Ave. S., Seattle, $1,538,204. MECHANICAL: Haskell Plumbing and Heating Co., 3014 Wetmore, Everett, $341,409. ELECTRICAL: Carlson Electric Co., 4025 Stone Way, Seattle, $173,835. All awards basic plus additive alternates. GW 8-15. Previous report 7-7

●**SAFEWAY STORE—** **Enumclaw, Wash.**

Bids will be received until midnight, August 20, by Safeway Stores, Inc., Construction Division, 1200 Westlake N., Seattle, for construction of new Safeway store in Enumclaw. Plans by Harold W. Hall & Associates, architects, Commerce Bldg., Everett.

Planholders: Riley Pleas, Inc., 1418 E. Lynn; John H. Sellen, 228 9th N.; Jentoft & Forbest, 927 W. 46th; A. W. Robertson, 8233 Overlake Drive W., Bellevue; Clair E. Prescott, 3516 Airport Way; Purvis Construction Co., 801 Portacoma Road, Tacoma; Claude Purvis, 5936 S. Sheridan, Tacoma. Of Seattle unless noted.

Slab on grade construction; 64'x129'; block walls; some brick veneer; glued laminated beam arches wall-to-wall. SC 8-11

HOUSING UNITS— **Ephrata, Wash.**

(Estimated cost $158,946)

The Public Housing Administration has advised that the authority for construction of twelve housing units in Ephrata be approved. It has been suggested that the units be constructed at various places throughout the city in one or two family units. SC 8-7

CHURCH— **Ephrata, Wash.**

(Estimated cost $39,374)

Construction underway by Our Saviour's Lutheran Church, Rev. Rudi P. Lenser, pastor, Box 982, Ephrata, for a new building. Plans by K. Walter Johnson and John C. Austin, architects, 8810 Bridgeport Way, Tacoma. Building will have 3,600 sq. ft. area; seating capacity of 225; tile flooring on concrete; perimeter warm air heating; cedar siding, some masonry; built-up and asphalt shingle roof; glued laminated arches and beams; enclosed garden flanking nave. Sub-contract bids are being received. DM 8-14

▲**ROOFING—** **Everett, Wash.**

Bid received by Everett School District No. 2, O. N. Johnson, secretary, Auditorium Bldg., Everett, for reroofing both South and North junior high schools in Everett. Bids opened August 6. ONLY BID: H. O. Seiffert Co., 2400 Hewitt Ave., Everett, $7,254. HH 8-10. Previous report 7-20

URANIUM TREATMENT PLANT— **Ford, Wash.**

(Estimated cost $3,000,000)

A contract for a uranium processing plant at Ford, 40 miles northwest of Spokane, has been signed by Dawn Mining Co. and the

Increase Concrete Durability 50% with POZZOLITH

POZZOLITH, Master Builder cement dispersing agent, increases concrete durability yet cuts final costs. Pozzolith added to concrete mix makes possible reduced water-cement ratio, produces a more cohesive mix with 20 - 25% greater strength at all ages. Concrete containing Pozzolith cures better, shrinks less, increases 50% in durability. Ask Pioneer for details on laboratory tests and on-the-job results. For better quality concrete and reduced labor cost, specify Pozzolith!

PIONEER SAND & GRAVEL CO.

901 FAIRVIEW AVE. N. ● 910 W. SPOKANE ST. ● SEATTLE ● MAin 2900

Atomic Energy Commission. Ground will be broken during August and plant will be completed by July, 1957. The plant will process ores from the northwest region controlled by the contractor and independent producers. Dawn is a subsidiary of the Newmont Mining Corp. of New York and operates the Midnite uranium mine on the Spokane Indian Reservation.

DC 8-11. Previous report 7-19

● HEATING SYSTEM— Fort Steilacoom, Wash.

Bids will be opened 2 p.m., August 20, by H. E. Pike, supervisor of purchasing, Box 1164, Olympia, for installation of oil burning, hot water heating system in Hill Ward Building at Western State Hospital at Fort Steilacoom. Specifications with above office. SC 8-10

■ ADMINISTRATION BUILDING— Ice Harbor Lock and Dam, Wash.

Planholders announced for construction of an administration building, sewer line and sewer facilities, parking area and exterior electrical work at Ice Harbor Lock and Dam; CIVENG-45-164-57-6. Bid date has not yet been announced by Corps of Engineers, Walla Walla District, 602 City-County Airport, Walla Walla.

Planholders: Paul Rupp, c/o Rupp Bros. Construction, 902 Prosser Ave., Prosser; Engineering Construction Co., 3536 S.E. 29th Ave., Portland, Ore.; Wilmer W. Bartram, Box 502, Grandview; Tomlinson & Buckmaster, Box 12, Warden; Edward Mardis, Suite 7, Title & Trust Bldg., Pasco; Ruud Construction Co., 602 Realty Bldg., Spokane; Hale Construction Co., Box 782, Pasco; Jensen-Rasmussen, Box 89, Sunnyside; Lewis Hopkins Co., 221 S. 3rd St., Pasco.

SP 8-14. Previous report 8-3

CHURCH— Kennewick, Wash.

Working drawings underway by Richard Eddy of Eddy, Carlson & James, architects, N. 1205 Washington St., Spokane, for construction of West Highlands Methodist Church in Kennewick. Construction in early part of 1957. CE 8-8. Previous report 1-13

● SERVICE STATION— Lynden, Wash.
(Estimated cost $25,000)

Bids are now being invited by General Petroleum Corp., D. A. Lemonds, 10th and Taylor Streets, Bellingham, for construction of new service station at Front and 3rd Streets in Lynden. Steel construction; 26'x 43'; underground tanks; paved yard. Includes office, rest rooms, lubricating room, two pump islands with two pumps each.

JD 8-11

SCHOOL ADDITION— Malaga, Wash.

Bids rejected and will be called again in 1957 by Malaga School District No. 115, Chelan Counyt, Malaga, for construction of an addition to the school. Plans by Alvin S. Erickson, architect, Central Bldg., Wenatchee. SP 8-10. Previous report 7-20

★ CHURCH— Midland, Wash.
(Estimated cost $50,000)

Contract for construction of a new structure for the Evangelical Lutheran Church in Midland has been let to Norwall A. Steiro, 952 McKinley Road, Tacoma. Pastor of the church is Rev. W. D. Tollefson, Midland. Plans are nearing completion by K. Walter Johnson and John V. Austin, architects, 8810 Bridgeport Way, Tacoma, and construction will be started in September. Building to have 5,600 sq. ft. area; concrete slab floor; glued laminated beams; exposed 2" decking; combination cavity brick, brick veneer and frame walls with board and batt. DM 8-11

CITY HALL— Millwood, Wash
(Estimated cost $35,000)

Preliminary plans underway by Eddy, Carlson & James, architects, N. 1205 Washington St., Spokane, for construction of new city hall building on corner of Frederick Ave. and Argonne Road in Millwood, for City Council, Lyle Larson, city clerk, City Hall, Millwood. Construction to start this fall.

Two-story; partial basement on slope; 4,000 sq. ft.; reinforced concrete footings and foundation; graded parking lot. CE 8-8

▲ HIGH SCHOOL— Morton, Wash.

Bids received by Morton School District No. 214, Lewis County, Morton, for construction of campus type high school plant. Plans by William Arild Johnson & Associates, architects, 3506 Broadway, Everett. Bids opened August 8. COMBINED BID: K. T. Henderson, 1362 Colorado, Longview, $477,251. LOW BIDS—GENERAL: Anderson Construction Co., 115 S. 9th, Tacoma, $359,900; Shaffer Construction Co., Box 804, Everett, $368,724; Wayne Construction Co., 3810 Stone Way, Seattle, $393,985. MECHANICAL: Rainier Mechanical Contractors, Inc., 2702 E. 112th, Tacoma, $97,225; P. S. Lord Mechanical Contractors, 4507 S.E. Milwaukie, Portland, $101,100; Kaelin Plumbing & Heating, 1301 Center St., Tacoma, $103,000. ELECTRICAL: Wayne Construction Co., Seattle, $34,470; Pioneer Electric, 735 Commerce, Longview, $35,466; James Electric, 1504 Market St., Chehalis, $36,200.

SC 8-11. Previous report 7-27

▲ MAINTENANCE BUILDING— North Bonneville, Wash.

Bids received by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for construction of North Bonneville, substation communications maintenance building, west of North Bonneville, Skamania County, Wash.; Inv. No. 8106. BIDDERS: Mann Construction Co., Redmond, $13,740; Charles R. Schmiedeskamp, 1008 S.W. 6th Ave., Portland, $14,336; L. B. Read and Mac Sharp, 3607 S.W. Sunset Blvd., Portland, $14,970; Engineering Construction Co., Portland, $15,261. Bids opened August 9.

WB 8-11. Previous report 7-25

★ ELEMENTARY SCHOOL— Okanogan, Wash.

Award by Okanogan School District No. 105, Okanogan, for construction of a four-classroom elementary school in Okanogan. Plans by Mallis & DeHart, architects, 631 Lyon Bldg.; Stevenson & Rubens, structural engineers, Olympic National Bldg., and Marius Anderson, mechanical engineer, Central Bldg. All of Seattle. AWARD: Armstrong & Armstrong, c/o Argyle Armstrong, Okanogan, $72,834. OTHER LOW BIDS: Claude Gann, Okanogan, $76,735; Hinde Construction Co., c/o Lester Hinde, Okanogan, $78,453. Bids were opened August 10.

GW 8-14. Previous report 8-7

★ CHURCH— Olympia, Wash.
(Estimated cost $46,000)

Contract has been let to Brynestad Builders, 839 S. Oxford, Tacoma, for construction of a new structure for Evangelical Lutheran Church in Olympia. Pastor is Rev. Judson Crary, Olympia. Plans by K. Walter Johnson and John V. Austin, architects, 8810 Bridgeport Way, Tacoma, will be complete early in September at which time construction will be started.

Building to have 4,720 sq. ft. area; concrete slab floor; perimeter warm air heat; glued laminated beams, columns; some exposed 2" t&g roof decking; mainly plaster board walls with 10" brick cavity, 8" solid brick, brick veneer and frame with vertical cedar boards; built-up, flat room. DM 8-14

★ RADIO RELAY BUILDING— Orting, Wash.

Award to R. L. Absher, RFD 5, Box 134, Puyallup, no figures released by Pacific Telephone and Telegraph Co., George Blackaller, acting building engineer, Exchange Bldg., Seattle, for construction of a radio relay building which will be an addition to an existing building near Orting. Plans by Decker, Christenson & Kitchin, architects and engineers, room 810, 1411 4th Ave. Bldg., Seattle. GW 8-15. Previous report 8-7

● SCHOOL ADDITIONS— Othello, Wash.

Bids will be opened 8 p.m., August 30, by secretary of Othello School District No. 147-163-55, Othello, at Lutacaga Elementary School, Othello, for construction of additions to existing school building, including gymnasium, homemaking and music sections. Plans with Victor Louis Wulff, architect, 1526 W. Riverside, Spokane. Separate bids on general, mechanical, electrical contracts. $25 deposit. Certified check, cashier's check or bid bond 5%. Frame, masonry and steel construction.

HOME-MAKING DEPARTMENT: Glued laminated beams and timber decking construction; masonry walls to match first unit of completed high school; concrete floors on grade; resilient tile; to consist of clothing unit, home economics room, space for child care and development; home-maker's cottage adjacent for student experience. GYMNASIUM: 102'x100'; locker and dressing rooms; reinforced concrete frame construction; block filler walls; some wood siding to serve as both gym and auditorium. MUSIC FACILITIES: To consist of band room for 85 students, instrument storage, choral room, music office and library.

SP 8-7

▲ HOSPITAL— Othello, Wash.

Bids received by Adams County Public Hospital District No. 1, in the office of Cross & Whitmore, attorneys, Victor Bldg., Ritzville, and opened by hospital commissioners in the courthouse in Ritzville, for construction of a new hospital in Othello. Plans by Whitehouse, Price, DeNeff & Deeble, architect, Hutton Bldg., Spokane. Bids opened August 8. LOW BIDS—GENERAL: Ruud Construction Co., Realty Bldg., Spokane, $158,786; E. Chuck Mardis, Tile & Trust Bldg., Pasco, $160,000; Cherf Bros. & Sandkay, Inc., Box 938, Ephrata, $161,819. MECHANICAL: Standard Plumbing & Heating, E. 1801 Sprague, Spokane, $83,618; Valley Plumbing & Heating, 609 W. Yakima Ave., Yakima, $87,196; J. P. Head, 3rd and Columbia Streets, Pasco, $89,057. ELECTRICAL: Electric Smith, 123 E. Sprague, Spokane, $33,843; Ritzville Electric, Ritzville, $33,950; Brown-Johnson Co., N. 118 Lincoln, Spokane, $34,437. SC 8-11. Previous report 8-1

ELEMENTARY SCHOOL— Pacific Beach, Wash.

Bids will be called soon by Pacific Beach School District No. 76, Grays Harbor County, Pacific Beach, for construction of an elementary school in the district. Plans by Jensen & Mills, architects, 308 S. Tacoma Way, Tacoma. Wood construction and concrete slabs; to include four classrooms and a multi-purpose room. SC 8-10

■ AMMUNITION STORAGE BUILDINGS— Paine AFB, Wash.

Planholders announced for construction of ammunition storage buildings at Paine AFB; ENG-45-108-56-189. Bid opening date has not yet been announced by Corps of Engineers, Seattle District, 4735 E. Marginal Way, Seattle.

Planholders: Butler Construction & Engineering Co., 3419 13th S.W., Seattle; Dahlgren Construction Co., 1700 21st S., Seattle; Green Construction Co., 928 Securities Bldg., Seattle; Grove-Shepherd-Wilson & Kruge, 120 6th N., Seattle; Hall-Atwater Co., Box 3023, Terminal Station, 605 13th Ave., Seattle; H. Halvorson, Inc., 20054 Pacific Highway, Seattle, and Box 6, Yardley; Sellen Construction Co., Inc., 228 9th N., Seattle; Thorn & Marble Co., 4225 23rd W., Seattle; Wick Construction Co., 720 N. 35th, Seattle; Associated Sand & Gravel Co., 2508 Colby, Everett; Delguzzi Bros., Box 409, Port Angeles; Roy T. Earley Co., 321 Middle Waterway, Tacoma; Louis Elterich Co., Box 868, Port Angeles; John P. Hopkins Co., Inc., Box 247, Mercer Island; Trans Continental Construction Co., 919 N. Michigan Ave., Chicago, Ill.; J. G. Watts Construction Co., Route 1, Box 300, Salem, Ore.

SP 8-14. Preivous report 8-2

CHURCH— Pasco, Wash.

Preliminary plans approved by Pasco Christian Church, Paul G. Nance, pastor, Pasco, for construction of new church at Marie and Mead Streets in Pasco. Plans by Eddy, Carlson & James, architects, N. 1205 Washington St., Spokane.

CE 8-8. Previous report 1-13

CHURCH— Pasco, Wash.
(Estimated cost $36,800)

Construction underway by Trinity Lutheran Church, Rev. Richard Nack, Pastor, 1507½ W. Irving, Pasco, for construction of a new building. Plans by K. Walter Johnson and John V. Austin, architects, 8810

Bridgeport Way, Tacoma. Building will have 3,900 sq. ft. area; seating capacity of 235; tile flooring on wood and concrete; perimeter warm air heating; combination brick and cedar siding; build-up and tile roof; glued laminated arches and beams.
DM 8-10

▲**CONCRETE FOUNDATION, FLOOR SLAB—** **Pasco, Wash.**

Bids received by City Clerk, City Hall, Pasco, for construction of a concrete foundation and floor slab for a warehouse in Pasco. Bids opened August 7. LOW BID: Hale Construction Co., W. Court St., Pasco, $5,027. ONLY OTHER BID: Thompson Construction Co., 3319 W. 10th Ave., Kennewick, $7,572. SP 8-10. Previous report 8-1

COLLEGE BUILDINGS— **Pasco, Wash.**

Additional description for construction of vocational buildings at Chase St. and Spokane Highway for Columbia Basin College in Pasco. Bids will be opened 8 p.m., August 28, by Pasco School District No. 1, clerk, 517 N. 3rd St., Pasco. Plans with Victor Louis Wulff, architect, 1526 Riverside Ave., Spokane.

One-story; 38,756 sq. ft. area; reinforced concrete footings and foundation; 260'x178' paved parking area, alternates on crushed rock or blacktop; concrete block, steel, brick walls; concrete slab floors; steel girders, beams, columns; steel joists; built-up roof; block partitions; steel windows; painted exterior and interior wall finish; metal exterior and interior wall trim; block partitions; some acoustical tile ceilings; metal doors; wood cabinets; metal overhead doors in garage, rolloing fire doors in paint room; low pressure steam heating system, oil or gas fuel. CE 8-14. Previous report 8-10

★**CONCRETE FOUNDATION, FLOOR SLAB—** **Pasco, Wash.**

Award to Hale Construction Co., W. Court St., Pasco, $5,027, by City Council, City Hall, Pasco, for construction of a concrete foundation and floor slab for a warehouse to be erected by others, in Pasco. Specifications by George R. Fisher, city engineer, City Hall, Pasco. GW 8-15. Previous report 8-10

ADMINISTRATION BUILDING— **Pullman, Wash.**
(Estimated cost $30,000)

Working drawings nearly complete for construction of an administration building at the Pullman-Moscow Regional Airport, part of the improvement program planned for the airport. Plans by Eddy, Carlson & James, architects, N. 1205 Washington St., Spokane. Mayor Kester B. Grimes of Pullman is chairman of Regional Airport Board which has three members from Moscow, Idaho, and two from Pullman. Project engineer is G. A. Riedesel, 236 Cherry St., Moscow. CAA will finance half this project.

One-story; no basement; 2,000 sq. ft.; reinforced concrete footings and foundation; pumice block walls; concrete slab floors; built-up frame roof; frame partitions; aluminum windows; painted exterior, some mahogany, drywall interior wall finish; vinyl-asbestos tile floor finish; acoustical tile ceilings; solid mahogany doors; two rest rooms; aluminum surrounded blanket insulation; hot water heating system, oil heat.
CE 8-7

WAREHOUSE— **Seattle, Wash.**
(Estimated cost $225,000)

Construction to start soon by Howard S. Wright & Co., Inc., Box 3106, Seattle, for a warehouse at 1523 Airport Way in Seattle, to be used for office and storage facilities by Sherman Paper Products Corp., 524 1st Ave. S., Seattle. Plans by Samuel G. Morrison & Associates, architects, Douglas Bldg., Seattle. Warehouse to be 170'x239'; wood piling; slab on grade; tilt-up walls; wood trusses; aluminum siding; wood overhead doors. SP 8-9

▲**INCINERATOR—** **Seattle, Wash.**

Bids received by Paul R. Hendricks, city purchasing agent, room 511, County-City Bldg., Seattle, for furnishing and installing incinerator at the Civic Auditorium, 3rd Ave. N. and Mercer, Seattle. LOW BIDS: Volcano Incinerators, 1120 W. Idaho, Seattle, $1,890; Seattle Boiler Works, 5237 E. Marginal Way, Seattle, $2,745; DePartee Company, 618 Eastlake, Seattle, $2,808. Bids opened August 8.
MS 8-10. Previous report 7-24

●**BOILER HOUSE ALTERATIONS—** **Seattle, Wash.**

Bids will be opened 2 p. m., August 30, by 13th Naval District, room 100, Bldg. 232, U. S. Naval Station, Seattle, for alterations to Boiler House, Bldg. 12, at the U. S. Naval Air Station, Seattle; Spec. No. 1949/56; NBy-1949. Specifications with above office. $10 deposit. Bid bond 20%. Work includes installation of a pressure regulator valve in the boiler feedwater supply line, two condensate return pumps and incidental pipe work for complete installation. SP 8-11

●**PAINTING—** **Seattle, Wash.**

Bids will be opened 2 p. m., August 30, by 13th Naval District, room 100, Bldg 232, U. S. Naval Station, Seattle, for exterior painting of four buildings at U. S. Naval Air Station in Seattle; NBy-1950; Spec. No. 1950/56. Specifications with above office. $10 deposit. Bid bond 20%. SP 8-11

●**GARAGE—** **Seattle, Wash.**

Bids will be opened 4 p. m., August 22, by the architects, for construction of a repair garage at 1717 6th Ave. S. in Seattle, for Portland-Seattle Freight Lines. Plans with James M. Klontz & Associates, architects, Dexter Horton Bldg., Seattle.

Block walls; 50'x64'; reinforced concrete slab; glued laminated beams; wooden overhead doors. SC 8-11

★**RYTHER CENTER EXPANSION—** **Seattle, Wash.**

Award on electrical contract made to Lloyd Larsen Electric Co., 2306 4th Ave., Seattle, $19,868, by Ryther Child Center, Frank S. Bayley, president, 4416 Stone Way, Seattle, on the construction program involving two residences for children, an administration building and three covered play areas. New construction will be on a 10-acre site at E. 95th and 23rd Ave. N.E. General and mechanical awards were reported in PCD 7-28.

●**FAMILY HOUSING—** **Seattle, Wash.**

Bid opening date of August 16 has been rescinded and the bid opening delayed by Corps of Engineers, Seattle District, 4735 E. Marginal Way, Seattle, for construction of family housing in the Seattle Defense Area, Olalla, Kingston, Cougar Mountain and Youngs Lake, Wash.; ENG-45-108-57-15.
DM 8-14. Previous report 8-9

★**BOW LAKE SCHOOL ADDITION—** **Seattle, Wash.**

Awards by Highline School District No. 401, 253 S. 152nd, Seattle, for construction of Bow Lake Elementary school at 18237 42nd Ave. S., Seattle. Plans by Jones & Bindon, architects, Hoge Bldg., Seattle. Following bids are basic plus alternates. AWARDS—GENERAL: B. F. Turnbull Inc., 4351 Leary Way, Seattle, $143,162. MECHANICAL Bellevue Plumbing and Heating Co., 10149 Main, Bellevue, $39,740. ELECTRICAL: Carlson-Collingwood Inc., 8945 Aurora, Seattle, $17,010. DM 8-14. Previous report 8-9

★**SCHOOL ADDITION—** **Seattle, Wash.**

Award by Highline School District No. 401, 253 S. 152nd, Seattle, for an eight-classroom and multipurpose addition to Midway Elementary School at 24th Ave. S. and S. 226th, Seattle. Plans by Mallis & De Hart, architects, Lyon Bldg., Seattle. Following bids are basic plus alternates. AWARDS—GENERAL: Ballard Contractors, 3601 6th N.W., Seattle, $182,700. MECHANICAL: Ashwell-Twist Co., 967 Thomas, Seattle, $67,997. ELECTRICAL: Yansen Electric, Box 85, Burien, $17,724. DM 8-14. Previous report 8-10

★**SOUTHERN HEIGHTS SCHOOL ADDITION—** **Seattle, Wash.**

Awards announced by Highline School District No. 401, 253 S. 152nd, Seattle for construction of a seven-classroom addition to Southern Heights Elementary School at 14th Ave. S. and Glendale Way, Seattle.

Washington State Chapter, Producers' Council, Inc. Wish Continued Success To All Architects In Their Discussion Of—

"Architecture Unlimited"

At The 5th Annual Conference of the Northwest Regional Council A.I.A.

Aluminum Co. of America
American Radiator & Standard Sanitary Corp.
Armstrong Cork Co.
Brower Company
Byron W. Burtch Co.
L. C. Cappa Associates
Cascade Distributors
Celotex Corp.
Chamberlin Co. of America
R. E. Chase Company
Congoleum-Nairn, Inc.
Crane Co.
Ehrlich-Harrison Co.
Fryer-Knowles Corp.
Elliott Bay Lumber Co.
W. P. Fuller & Co.
Fenestra, Inc.
Gladding McBean Co.
The Glidden Co.
Hillyard Chemical Company
Inland Steel Products Co.
Jan-Pacific Co.
Johns-Manville Sales Corp.
Kawneer Company
Kentile, Inc.
Kimble Glass Co.
Glynn-Johnson Corp.
Koppers Co., Inc.
Leckenby Sales Co.
Levolor-Lorentzen, Inc.
Libbey-Owens-Ford Glass Co.
Masonite Corp.
Minneapolis-Honeywell Regulator Co.
Mosaic Tile Co.
National Gas Equipment Co.
Otis Elevator Co.
Owens-Corning Fiberglas Corp.
Richard-Wilcox Mfg. Co.
Sargent & Co.
The Stanley Works
Steel Building Products, Inc.
Structural Clay Products Institute
Guy V. Sweet Co.
Truscon Steel, Republic Steel Corp.
U. S. Plywood Corp.
Uvalde Rock Asphalt Co.
Vermiculite N.W., Inc.
Vonnegut Hardware Co.
Washington Natural Gas Co.
Westinghouse Electric Corp.
Wiley-Bayley & Co.

Plans by Mallis & DeHart, architects, 631 Lyon Bldg., Seattle. AWARDS—GENERAL: Herbert U. Taylor, 11239 Arroya Beach Place S.W., Seattle, $92,233. MECHANICAL: Hi-Line Plumbing and Heating, Inc., 462 S.W. 152nd, Seattle, $11,273. ELECTRICAL: Yansen Electric Co., Box 85, Burien, $18,893. DM 8-14. Previous report 8-2

■ **DENNY HALL REMODELING—** **Seattle, Wash.**

Planholders announced for complete interior remodeling of Denny Hall on University of Washington campus. Bids will be opened 2 p.m., August 28, by University of Washington, Nelson Walstrom, comptroller, Administration Bldg., campus, Seattle. Plans with Grainger, Thomas & Baar, architects, 6153 Arcade Bldg., Seattle.

Planholders: GENERAL: S. S. Mullen, Inc., 621 9th Ave. N.; W. G. Clark Construction Co., 408 Aurora; Wayne Construction Co., 3810 Stoneway. MECHANICAL: Rautman Plumbing & Heating, 115 Jackson St. ELECTRICAL: Holert Electric, 2300 W. Spokane St.; Agutter Electric Co., 5500 14th Ave. N.W.; Van C. McKenny Co., 104 Wall St.; Beckstrom Electric Co., 14058 Bothell Way; Salmon Bay Electric Co., 4728 Ballard Ave.; Industrial Electric Co., 1828 Yale Ave. All of Seattle. SP 8-14. Previous report 7-24

RECREATION CENTER— **Seattle, Wash.**

Construction underway by Cawdrey & Vemo, 3601 Fremont, Seattle, for a recreation center at 14th Ave. N.W. and Market St. in Seattle, for Sunset Bowling and Recreation, Inc., Claude Hobson, president, above address. Plans by Decker, Christensen & Kitchin, architects and engineers, 810 1411 4th Ave. Bldg., Seattle; Albert H. Croonquist, associate architect; Bouillon & Griffiths, mechanical engineers, 1411 4th Ave. Bldg., Seattle. Center will have 26 automatic bowling lanes, six billiard tables and parking for 150 cars. One-story; 24,000 sq. ft.; tilt-up concrete walls, clean-span; glued laminated wood beams. GC 8-14

RESTAURANT— **Seattle, Wash.**

Construction underway by University Builders, Inc., and Continental, Inc., 810 2nd Ave., Seattle, owner builders, for a restaurant at 25th Ave. N.E. and E. 45th, Seattle, in the University Village, Shopping Center. Building will be leased by Clark's Restaurant Enterprises, Inc., White-Henry-Stuart Bldg., Seattle. One-story, completely air conditioned. Plans by Decker, Christenson & Kitchin, architects and engineers, 810 1411 4th Ave. Bldg., Seattle. GC 8-14

★**INDUSTRIAL BUILDING—Seattle, Wash.**

Award to H. S. Ferguson Co., 1927 1st Ave. S., Seattle, $137,854, by Firestone Tire and Rubber Co., E. E. Thompson, branch office engineer, 958 Harrison, Seattle, for construction of a tire retreading shop at 9220 E. Marginal Way, Seattle.
DM 8-15. Previous report 7-7

● **ADMINISTRATION OFFICE—** **Seattle, Wash.**

Bids to be opened 7 p.m., August 24, by Water District No. 75, L. W. Bundy, secretary, 19863 28th Ave. S., Seattle, for construction of masonry administrative office building for the water district. Plans with Philip M. Boteh, engineer and architect, 10 1st Ave. S.W., Auburn, and 308 Marion Bldg., 818 2nd Ave., Seattle. Certified check 5%. Insulated steel roof deck; reinforced concrete basement; retaining wall. DC 8-15

CHURCH ADDITION— **Spokane, Wash.**

Working drawings underway by Eddy, Carlson & James, architects, N. 1205 Washington St., Spokane, for additions to Hays Park Methodist Church, Everett L. Groves, pastor, E. 1725 Bridgeport Ave., Spokane.
CE 8-8. Previous report 1-14

CHURCH— **Spokane, Wash.**
(Estimated cost $125,000)

Plans nearly complete by Eddy, Carlson & James, architects, N. 1205 Washington St., Spokane, for construction of new Centenary Methodist Church at Freya St. and 11th Ave. in Spokane. Rev. Harold W. Black, S. 232 Nelson St., Spokane, is pastor of the church.

One-story; basement; concrete reinforced concrete footings and foundation; hollow masonry walls; concrete floors on grade; built-up roof, cement-asbestos shingles; laminated arches; frame partitions; aluminum windows; plywood mahogany walls; ½" and ⅝" drywall partitions; acoustical ceilings; hot water radiant floor heating system. CE 8-8. Previous report 4-25

ARDEN FARMS ADDITION, REMODELING— **Spokane, Wash.**
(Estimated cost $40,000)

Working drawings underway by Eddy, Carlson & James, architects, N. 1205 Washington St., Spokane, for remodeling and constructing an addition to Arden Farms Co., M. L. Conniff, manager, W. 729 Mallon Ave., Spokane.

Remodeling work is on processing area and includes masonry walls and quarry tile floors. Addition is a second story to existing building; 30'x40'; solid masonry walls; concrete floors over steel joists; flat, built-up roof; glass block windows, aluminum vents; ceramic tile interior wall finish; quarry tile floor finish; hard finish plaster ceilings; metal doors; addition to existing heating system. CE 8-8

PHARMACY— **Spokane, Wash.**
(Estimated cost $20,000)

Preliminary plans approved by Lincoln Heights Pharmacy, Mark Preston, owner, E. 3004 29th Ave., Spokane, for construction of new one-story pharmacy east of existing building in Spokane. Plans by Eddy, Carlson & James, architects, N. 1205 Washington St., Spokane. CE 8-8

▲ **MAUSOLEUM—** **Spokane, Wash.**

Bids received by the architect for construction of a mausoleum at Fairmount Memorial Park in Spokane. Plans by Henry C. Bertelsen, architect, 610 Empire State Bldg., Spokane. Bids opened August 7. LOW BIDS: AAA Construction Co., N. 726 Helena, Spokane, $69,834 (unit 1), $89,991 (unit 2), $113,044 (unit 3); William S. Spilker & Son, Rural Route 5, Spokane, $73,622, $96,622, $119, 102; Peter J. Young & Sons, E. 1211 Columbia, Spokane, $81,862, $110,600, $139,600. SC 8-10. Previous report 8-1

★ **ARMORY REMODELING—Spokane, Wash.**

Award to Phil McInnis and Henry George & Sons, Hutton Bldg., Spokane, $335,440, by H. E. Pike, supervisor of state purchasing, room 216, General Administration Bldg., Olympia, for remodeling the Washington National Guard Armory in Spokane.
DE 8-11. Previous report 6-12

▲ **ELEMENTARY SCHOOL ADDITION—** **Spokane, Wash.**

Bids received by Roman Catholic Diocese of Spokane, Rev. Bernhard J. Topel, S. 317 Howard St., Spokane, for construction of four-classroom addition to St. Pascal's elementary school at E. 7324 Marietta Ave. in Spokane. Plans by Culler, Gale, Martell & Norrie, architects, 615 Realty Bldg., Spokane. Bids opened August 9. LOW BIDS: Purvis Construction Co., E. 5019 Sprague Ave., Spokane, $59,964; Smith & Roberts, Box 6088, Spokane, $64,977; William F. Spilker & Sons, R.F.D. No. 5, Spokane, $66,104.
CE 8-15. Previous report 8-4

● **STEAM, WATER LINE REPAIRS—** **Tacoma, Wash.**

Bids will be opened 2 p.m., August 27, by H. E. Pike, supervisor of purchasing, Box 1164, Olympia, for repairing the steam line and hot water system at National Guard Armory in Tacoma. Specifications with above office. SC 8-10

COUNTY-CITY BUILDING—Tacoma, Wash.

The Tacoma City Council has approved a resolution authorizing the payment of $140,118 to Pierce County to allow the commissioners to reinstate the fifth and sixth floors in the proposed building. The contract will be awarded by the county on the basis of an alternate bid of $260,482 over the basic bid of $4,544,577 submitted by the general contractor, Macdonald Building Co., 1517 S. Tacoma Way, Tacoma. The two floors will make the building 10 stories high. The amount furnished by the city will provide only for the roughing in of the two floors. Only $47,766 of the city's payment will apply to the cost of the additional stories; the remainder will apply toward the city's regular interest and principal payments.
DC 8-11. Previous repodt 7-12

★ **SCHOOL ADDITION—** **Tacoma, Wash.**

Awards announced by Tacoma School District No. 10, S. 8th and Tacoma Ave., Tacoma, for construction of eight-classroom primary addition to Jefferson Elementary School, N. 12th and Stevens, Tacoma. Plans by Alan Liddle, architect, Rust Bldg., Tacoma. AWARDS—GENERAL: Dolph Jones, 1102 S. Tacoma Ave., Tacoma, $92,500 (base

If the job calls for WALL HYDRANTS specify GREENBERG!



BRONZE PRODUCTS by GREENBERG

M. GREENBERG'S SONS
765 FOLSOM ST. • EXbrook 2-3143
SAN FRANCISCO 7, CALIFORNIA
Offices in Principal Cities throughout the United States



Flush type wall hydrant with locking type hinge (will rough into 6" wall).
Nipple and adapter allow placing inlet at either side or back.

bid of $89,700 plus alt. of 5,800). MECHANICAL: Weber Plumbing & Heating Co., 110 N. Tacoma, Tacoma, $9,432. ELECTRICAL: Jardeen Electric, 1240 S. Sprague, Tacoma, $21,070. SP 8-14. Previous report 8-2

SCHOOL ADDITIONS— Tacoma, Wash.
(Estimated cost $200,000)

Description for construction of an addition to Point Defiance elementary school at N. 45th and Visscher Streets in Tacoma. Bids will be opened 3 p.m., September 5, by Tacoma School District No. 10, at the business office, fifth floor, School Administration Bldg., Tacoma. Plans with Gilbert M. Wojahn, architect, 6 N. Tacoma Ave., Tacoma. Structural engineers are Sitts & Hill, 1509 Center, Tacoma; mechanical engineers, Whitson-Miller & Associates, 2907 "A" St., Tacoma; electrical engineer, Walter S. Gordon, 2605 5th, Tacoma. Completion time approximately August, 1957.

One-story; no basement except for mechanical room; modified "T"-shape; 19,500 sq. ft.; reinforced concrete footings and foundation; poured concrete walls; concrete slab floors; steel girders, beams, columns; metal pans for roof; frame partitions; steel or aluminum windows; painted concrete (Zolotone) exterior wall finish; drywall partitions; asphalt tile floor finish; acoustical ceilings; metal exterior, wood interior doors; corrugated plastic panels, blackboards; rigid insulation in roof; high velocity hot air heating system, oil fuel; ventilating system included in heating.
SP 8-14. Previous report 8-10

● INTERIOR PAINTING— Tacoma, Wash.

Bids will be opened 2 p.m., August 22, by H. E. Pike, supervisor of purchasing, Box 1164, Olympia, for interior painting of the National Guard Armory at Tacoma. Specifications with above office. SC 8-14

SCHOOL— Taholah, Wash.
(Estimated cost $120,000)

Bids will be called by Taholah School District No. 77, Marion Shal, clerk, Taholah Elementary School, Taholah, for construction of a new elementary school for Quinault Indian Reservation at Taholah. Plans by Jensen & Mills, architects, 308 S. Tacoma Way, Tacoma. Wood construction and concrete slabs; to include three classrooms, multipurpose room adn health clinic.
SC 8-9. Previous report 6-13

CHURCH— Tenino, Wash.

Plans complete for construction of a new church in Tenino for Community Presbyterian Church, Rev. Jack Weston, pastor, Tenino. Plans by Eddy, Carlson & James, architects, N. 1205 Washington St., Spokane. Owner will hire a foreman and take subbids. Church to include three wings consisting of offices, rest rooms, coat room, kitchen, stage, nave and chancel and fellowship hall.

One-story; no basement; "T"-shaped; 5,488 sq. ft.; wood vertical siding, cedar walls; composition shingles; glued laminated arches; wood windows, cathedral glass; some plywood interior wall trim, back wall of fissured mineral tile; vinyle-asbestos tile floor finish; acoustical tile ceilings; radiant heating system, oil fuel. CE 8-8

● SHORE STRUCTURES—Vancouver, Wash.

Bids will be opened 2 p.m., August 24, by 13th Coast Guard District, room 922, 618 2nd Ave., Seattle, for construction of five 5-pile, one 4-pile and one 9-pile light structures on Columbia River from Harirngton Point to Vancouver; Bid No. FS-1460. Specifications with above office. Bid bond 5%.
SP 8-10

★PLANT ADDITION— Vancouver, Wash.
(Estimated cost $300,000)

Award to Donald M. Drake Co., 1600 N.W. Savier St., Portland, for plant expansion at Carborundum Co., Lower River Road, Vancouver. Includes extending existing furnace building 168', adding five new furnaces and new transformer house. WB 8-14

★FIRE ESCAPE— Vancouver, Wash.

Award announced by Department of Institutions, director, Public Lands-Social Security Bldg., Olympia, for construction of a fire escape stairway in the west end of the Administration Bldg., State School for the Deaf, Vancouver. Plans by Weaver & LaLonde, architects, 204 Central Bldg., Vancouver. Bids opened August 13. AWARD: Larry O. Collins, Highway 99, Vancouver, $5,284. 2ND LOW: George M. Pifer, Box 240, Battleground, $5,990. 3RD LOW: White Construction Co., 210 E. 18th, Vancouver, $6,291. DE 8-15. Previous report 8-4

OFFICES— Vancouver, Wash.

Bids rejected by Inland Navigation Co., Terminal No. 1, Vancouver, for construction of offices in a warehouse at Pier No. 1. Plans by McCoy and Bradbury, architects, 7007 Highway 99-N, Vancouver.
WB 8-15. Previous report 7-27

AUTO PLANT— Wenatchee, Wash.
(Estimated cost $30,000)

Construction underway by Orval Weller & Associates, general contractors, Wenatchee, for an automotive plant on N. Wenatchee Ave. in Wenatchee, for S. M. Service, Richard Barber and Donald Miller, owners, Wenatchee. Included are two private sales offices, locker room, automatic installation to remove motor fumes from garage and suspended natural heating unit. Steel beam construction; 50'x100', 30'x30' addition in rear; 1,500 sq. ft. floor space in show room; full glass front with partial full-height glass on sides, nearly 700 sq. ft. glass; new permanently colored concrete flooring in display room. SC 8-15

★POWER INSTALLATION— Whidbey Island, Wash.

Award to Agutter Electric Co., 5500 14th Ave. N.W., Seattle, $19,292, by 13th Naval District, Public Works Office, room 100, Buildings 17 and 28, at the U.S. Naval Air Station, Whidbey Island.
MS 8-11. Previous report 8-2

▲CITY HALL— Wilbur, Wash.

Bids received by City Council, Wilbur, for the City Hall at Wilbur. Plans by Benjamin K. Reuhl, architect, Old National Bank Bldg., Spokane. Bids opened August 3. LOW BIDS: Havercroft Construction Co., Spokane, $93,668; Purvis Construction Co., Box 64, Yardley, $93,890; Hansen & Parr, W. 315 Boone Ave., Spokane, $94,500.
SP 8-10. Previous report 7-26

ELEMENTARY SCHOOL— Yakima, Wash.
(Estimated cost $345,000)

Preliminary plans underway for construction of new elementary school in Yakima, for West Valley School District No. 208, Harold C. Griffith, superintendent, West Valley High School, Route 4, Yakima. Plans by John S. Villesvik, architect, and Maurice Smith, associate, 109 N. 3rd St., Yakima. To have approximately eleven classrooms; mult-purpose room; lockers and showers; office; kitchen; teachers' room; work room health unit; storage area; two toilet rooms; heating plant. IG 8-9

COMFORT with ECONOMY in
PORTLAND
OREGON
Portland's fine home-like hotel in the center of the city—Unsurpassed service and fine cuisine makes your visit one of happiness and comfort.
Campbell Court Hotel
ELEVENTH AND MAIN STREETS
Our rates are especially reasonable. All rooms with private bath. Singles from $3.50. Doubles from $4.50

PACIFIC CONSTRUCTION DAILY
Helps You Find New Business
$75 per Year
2418 Third Avenue Seattle 1 MAin 0285

IN SPOKANE

BUSINESSMEN
☆ Center-of-the-city convenience
☆ Three parking areas within half-block
☆ Fast, economical room service
☆ Wrapped glassware, "sanitized" bathrooms
FAMILIES
☆ No charge for children under 14
☆ Sensibly priced Oasis Restaurant
☆ Bathroom scales—Baby Sitter Service
☆ TV in every room
SHOPPERS • VISITORS
☆ Close by Spokane's smart stores, shops
☆ Coliseum ticket office in lobby
☆ Nearby Spokane Doctor, Dental offices
☆ Personalized, friendly service
VACATIONERS
☆ Oasis Restaurant—Mirage Lounge
☆ Minutes by car to visitor attractions
☆ Nearby Spokane Theaters, Night Spots
☆ Kleenex—Electric Clocks—Shoe Shiners
Single Without bath from $2.75
Single with bath from $4.75
JOE A. CROWE Managing Director
FOR RESERVATIONS. WRITE
DESERT HOTEL
FIRST and POST
SPOKANE, WASHINGTON


GYMNASIUM, RECREATION CENTER— Yakima, Wash.

Working drawings nearly complete for construction of combination gymnasium and recreational center on Minnesota Ave. in Yakima, for Roman Catholic Diocese of Yakima, Most Rev. Joseph Dougherty, Liberty Bldg., Yakima. Plans by Thomas F. Hargis, Jr., architect, Miller Bldg., Yakima.

Concrete block; brick facing; tilt-up roof, steel beams with wood purlins and 2" t&g; concrete (recreation room), maple (gymnasium) floors; vinyl tile floor covering in gymnasium; forced air heating system. Includes stage, foyer, storage space, dressing and shower rooms. IG 8-9

IDAHO

▲OFFICE BUILDING— Blackfoot, Idaho

Bids received by State Public Works Department, Arthur Warren, Director, Boise, for construction of an office building in Blackfoot for the Idaho Employment Security Agency. LOW BIDS: Yancy Construction Co., Blackfoot, $26,847; Jensen Construction Co., 3225 Crescent Drive, Boise, $27,500; Johnson Bros. Planing Mill, 211 Cliff, Idaho Falls, $29,227. Bids were opened August 9. GW 8-14. Previous report 8-3

SCHOOLS— Boise, Idaho

Bond issue for $2,118,000 approved by voters of Boise Independent School District, 1207 Fort St., Boise, to finance school construction in the district. SC 8-14. Previous report 7-19

THEATER— Boise, Idaho
(Estimated cost $100,000)

Plans announced by Boise Little Theater, Sheridan Gill, president, Boise, for construction of new theater at Gowen Field in Boise to replace the one which was destroyed by fire in May. Concrete block construction; 120'x74'; circular outdoor parking; will accommodate 400 persons. Construction to begin as soon as plans and specifications are complete. SC 8-14

CHURCH— Grangeville, Idaho

Eddy, Carlson & James, 1205 N. Washington St., Spokane, have been retained as architects by First Baptist Church, Rev. Kennedy, pastor, Grangeville, to prepare plans for construction of new church in Grangeville. CE 8-8

★WEST BALCONY ADDITION— Idaho Falls, Idaho

Award to C. W. Watkins & Son, Box 1786, Boise, $15,971, by Atomic Energy Commission, Idaho Operations Office, Box 1221, Idaho Falls, for construction of a structural steel balcony, complete with floor plate and handrails, in the MTR Reactor Bldg., National Reactor Testing Station, Idaho Falls; Inv. No. AT (10-1)-838. GW 8-14. Previous report 7-17

●BUILDING ADDITIONS AND MODIFICATIONS— Idaho Falls, Idaho
(Estimated cost $1,500,000)

Bids to be opened 2 p. m., September 12, by Atomic Energy Commission, operations office, Box 1221, Idaho Falls, for construction of additions and modifications to the Assembly and Maintenance Building in the Aircraft Nuclear Propulsion area, Idaho Falls. Plans with Idaho Operations Office, above address; Inv. No. AT (10-1)-837. Bid bond 10%. Completion time about 15 months.

Planholders—GENERAL: Quinney & Winburn Construction Co., 1474 S. 6th West, Salt Lake City; Ammaco Construction Co., 7706 Balboa Blvd., Van Nuys, Calif.; W. H. Nichols & Co., Inc., 3015 Grand Ave., Dallas, Texas; J. H. Wise & Son, Inc., P. O. Box 267, Boise; Jacobsen Construction Co., 421 W. 13th South, Salt Lake City; Okland Construction Co., 2261 Oneida St., Salt Lake City; Arrington Construction Co., Inc., P. O. Box 881, Idaho Falls; Sound Construction & Engineering Co., 1300 Aloha St., Seattle; Teller Construction Co., 845 N. Graham, Portland; Anderson Burke Co., 2114 Thorndyke, Seattle; M. J. Brock & Sons, Inc., 2894 Rowena Ave., Los Angeles, Calif.; Mountain States Construction Co., 36 E. 4th South, Bountiful, Utah; Manco Construction Co., 3754 Long Beach Blvd., Long Beach, Calif.

Construction will include a 150'x285' addition to and a second floor over a portion of the existing building; roads, parking areas and sidewalks. The addition will have reinforced concrete pier foundations; structural steel framing with pumice block and corrugated asbestos sandwich-type walls; metal deck roof with rigid insulation. Besides construction of a partial second floor, modifications to the building will include new partitioning and relocation of some equipment and machines. GW 8-14

●MARKET BUILDING— Lewiston, Ida.

Bids to be opened 3 p. m., August 22, by Marshall & Son, owner, at Peoples' Market in Pomeroy, Wash., for new market building in Lewiston, Ida. Select list of bidders. Leslie E. Poole, engineer, 301 Royal Bldg., Portland, has issued plans to Funston Construction Co., 3726 S.E. Hawthorne Blvd., Portland. Marshall & Son will issue plans to other bidders.

One-story structure 90'x110', with partial basement; reinforced concrete construction; painted exterior; Roman brick front; aluminum entrance doors; some steel joists in roof; wood deck, insulation and built-up roofing; some steel doors; sheetrock interior partitions; acoustical tile ceilings; asphalt tile flooring; fluorescent and incandescent lighting fixtures; warm air heating; incinerator; built-in meat cooler; metal toilet partitions; blacktop paving. Fixtures under separate contract. WB 8-11

CHURCH— Orofino, Idaho

Eddy, Carlson & James, architects, N. 1205 Washington St., Spokane, have been retained to prepare plans for new Evangelical Lutheran Church in Orofino. CE 8-8

SCHOOL ADDITION— Osborn, Idaho

Plans completed for addition to elementary school in Osborn by architects George M. Rasque & Son, 303 Washington Trust Bldg., Spokane. Plans include two-story, four-classroom unit, one-story multipurpose unit, with stage, kitchen, showers, dressing rooms for both boys and girls. Building will be concrete reinforced, 110'x81' with 11,000 sq. ft. of building area. Walls are of solid masonry construction with floors of both frame and concrete slab; timber girders; glued laminated roof; masonry and frame pastitions; wood stairways; steel windows; rock wool insulation in attic. Finished construction includes: plaster interior walls with metal trim; plaster partitions; maple, linoleum and ceramic tile floors; acoustical tile and plaster ceilings; birch interior doors; wood cabinets; chalkboards. The heating system will be extension of low pressure steam.

Construction is planned to start this fall by School District No. 383, Wayne Brubacker, superintendent, Wallace. CE 8-15. Previous report 7-21

▲HOSPITAL— St. Maries, Idaho

Bids received by Board of Benewah County Commissioners, Frances Mallory, clerk, St. Maries, for construction of 25-bed Benewah Community Hospital at St. Maries; Proj. No. Idaho-24. Plans by McClure & Adkison, architects, 707 Sherwood Bldg., Spokane. Bids opened August 1. LOW BIDS: Walter M. Varnum, 118 N. 7th St., Coeur d'Alene, $388,290; Ruud Construction Co., 602 Realty Bldg., Spokane, Wash., $393,440; Johnson-Busboom & Rauh, N. 601 Cedar St., Spokane, $394,885. SP 8-11. Previous report 7-26

MONTANA

●SAFEWAY STORE— Anaconda, Mont.

Bid opening extended from August 11 to midnight, August 18, by Safeway Stores, Inc., Construction Division, 66 W. Park St., Butte, for construction of new Safeway store and parking lot at Cottonwood and 3rd in Anaconda. Plans by Norman J. Hamill & Associates, architects, 122 W. Granite St., Butte. SP 8-10. Previous report 8-7

●SNOW SHELTER— Anaconda, Mont.

Bids to be opened 2 p. m., P.S.T., August 28, by U. S. Department of Interior, Bonneville Power Administration, 1001 N.E. Lloyd Bldg., Portland, Ore., for the construction of snow shelters over outside stairways at the Anaconda substation, Deer Lodge County, Mont.; Inv. No. 8129. Work will include excavation for shelters on both the control and oil house and for complete construction of both shelters. Award will be made as a whole to one bidder. Plans are with the BPA, Portland. $25 deposit. RG 8-15

●VOCATIONAL SHOP BUILDING— Bigfork, Mont.
(Estimated cost $45,000)

Bids will be opened 8 p. m., August 22, by Katherine G. Barton, clerk, Bigfork High School District No. 38, Flathead and Lake Counties, Bigfork, for construction of new vocational education building at the high school in Bigfork. Plans with superintendent at above address. $10 deposit. Bid bond 5%. RB 8-10. Previous report 7-?

APARTMENT BUILDING— Billings, Mont.

Loners & Stroebe, architects, 418 N. 25th St., Billings, have been retained by State Board of Education, Capitol Bldg., Helena, to prepare plans for an apartment building for married students at Eastern Montana College of Education in Billings. Structure to contain fifty units, including single rooms with housekeeping facilities, one-bedroom suites and two-bedroom apartments. EE 8-9

WAREHOUSE REMODELING— Billings, Mont.

Plans announced by Aldrich & Co., lumber and building supply firm, Robert C. Wright, branch manager, 2725 4th Ave. N., Billings, for remodeling warehouse at 4th Ave. N. and 27th St. in Billings, into a modern supply store and storage house. Ground floor will be remodeled for builders' supply and hardware store with 7,000 sq. ft. floor space, including 3,000 sq. ft. for customer self-service area. Existing frame store and office building and lumber storage sheds will be dismantled to make space for customer parking lot and self-service drive-in yard adjacent to new store. EE 8-9

■OFFICE BUILDING— Billings, Mont.

Planholders announced on office building to be constructed at 4th Ave. N. and 31st St., Billings, on which bids will be opened 3 p. m., August 21, in the office of the owners First Federal Savings & Loan Association, 2710 1st Ave. N., Billings. Plans by Loners & Stroebe, architects, 418 N. 25th, Billings.

Planholders: Hardy Construction Co., 420 N. 25th; Hitz Construction Co., 2111 4th Ave. N.; Boespflug Construction Co., 502 N. 25th; Willis Construction Co., 4015 1st Ave. S.; Wells Bros. Construction Co., 704 Dunham Ave.; Cop Construction Co., 617 Central Ave.; Johns Plumbing and Heating, 114 Grand Ave.; Frisby Plumbing and Heating, 212 Grand Ave.; Wagner's Plumbing and Heating, 1043 Miles Ave.; Midland Plumbing and Heating, 425 N. 19th; Christensen Plumbing and Heating, 3615 Montana; Yellowstone Electric Co., 520 N. 32nd; Empire Electric, 2412 4th Ave. N.; Billings Electric Supply Co., 214 N. 30th; Curley- Naylor Electric, 123 N. 16th; Dahlstrom Electric, 223 N. 15th. Of Billings. EE 8-14. Previous report 8-8

●HOSPITAL ADDITION— Billings, Mont.
(Estimated cost $850,000)

Bids to be opened 2 p. m., September 12, by St. Vincent Hospital, Sister Ann Raymond, hospital administrator, at Marillac Hall, Billings, for construction of a five-story addition to the hospital at 29th St. and 12th Ave. N., Billings. Plans with Cushing & Terrell, architects, 1333 N. 27th, Billings. $50 deposit. Separate bids on general, mechanical and electrical work. Steel and concrete structure, 47'x126', with brick exterior walls; elevator. EE 8-14. Previous report 6-12

▲MULTI-PURPOSE BUILDING— Butte, Mont.

Bids received by City Council, City Hall, Butte, for construction of a multi-purpose building at Clark Park in Butte. Plans may

be abandoned for additional work at the Civic Center in Butte. Bids opened August 2. LOW BIDS—GENERAL: Conrad Benson General Contracting Co., 800 W. Galena, Butte, $8,679. MECHANICAL: Walsh Engineering Co., 1716 Harrison Ave., Butte, $7,350. ELECTRICAL: St. John Electric Co., 130 W. Broadway, Butte, $849. Building, if approved, to include a concession, rest rooms, shower rooms and change rooms. SC 8-10

RESIDENCE— Columbia Falls, Mont.

Plans nearly complete for construction of a residence in Columbia Falls for D. C. Dunham of Columbia Falls. Plans by Brinkman & Lenon, architects, Strand Bldg., Kalispell. Frame construction; 2,500 sq. ft.; stone facing; three-car garage; hot water heating system. RB 8-14

CHURCH— Great Falls, Mont.

Architects, Eddy, Carlson & James, N. 1205 Washington St., Spokane, have been retained to prepare plans for the new Trinity Lutheran Church, Rev. Emerson Leckbank, pastor, Great Falls. CE 8-8

●BUILDING— Great Falls, Mont.

Bids will be opened 10 a.m., August 29, by Cascade County Commissioners, Courthouse, Great Falls, for construction of a building to be located on the south end of Lot 7, Block 81, 9th St. N., Great Falls. Plans with county clerk and recorder at above address. $5 deposit. SC 8-11

EMPLOYMENT SERVICE OFFICE— Havre, Mont.

Plans announced by Montana Unemployment Compensation Commission Co., 2909 Montana Ave., Billings, for construction of an employment service office in Havre. SC 8-9

▲STORE FRONT— Kalispell, Mont.

Bids received by the architects for a new store front for John's Hardware Store at 128 Main St. in Kalispell. Plans by Weed & Fehlberg, architects, Sundelius Bldg., Kalispell. Bids opened August 10. LOW BID: Gyrion Construction Co., Box 72, Kalispell, $4,539. ONLY OTHER BID: W. C. Graham, Strand Theater Bldg., Kalispell, $4,957. RB 8-15. Previous report 8-2

PULP MANUFACTURING PLANT— Missoula, Mont.

Waldorf Paper Products Co. of St. Paul, Minn., is considering construction of a pulp manufacturing plant in the Missoula area which would represent an investment of several million dollars. Three companies have agreed to supply wood wastes to the new plant, according to Perry F. Roys, director of State Planning Board, Helena. MH 8-9

●PAINTING, ROOFING—Roosville, Mont.

Bids will be opened 3 p.m., August 22, by General Services Administration, room 126, Federal Office Bldg., 909 1st Ave., Seattle, Wash., for exterior painting and a new roof at U.S. border station on Highway 93 in Roosville; Proj. No. CR-10-543. Specifications with Regional Office and Custodian at above address, and with General Services Bldg., 19th and "F" Streets N.W., Washington, D.C. Completion time 60 calendar days.

Project includes painting three buildings; removal of existing tile roof on rear dormer; installation of new sheet metal roof on rear dormer of main building; certain repairs to existing copper roof of the canopy over front entrance of the main building. SP 8-11

PLYWOOD FACTORY— Whitefish, Mont.

H. E. Van Allen, owner of Whitefish Lumber Co., Whitefish, has announced that a Tacoma plywood factory may move to Whitefish if a suitable building can be found. Location of the plant would be near Whitefish Lumber Co. and along the Great Northern Railroad tracks west of Whitefish, and the building would be leased from an owner or builder. Building to be 50,700 sq. ft. SC 8-14

Our news covers the six Pacific Northwest states and Alaska.

WYOMING

DENTAL CLINIC— Cheyenne, Wyo.

Preliminary plans underway by James H. Johnson, architect, 9190 W. Colfax, Lakewood, Colo., for construction of a dental clinic in Cheyenne, for Drs. Accardo and Burns of Cheyenne. LY 8-10

★OFFICE IMPROVEMENTS— Cheyenne, Wyo.

Award to Riedesel-Lowe Co., Box 914, Cheyenne, $7,960, by General Services Administration, Building 41, Denver Federal Center, Denver, Colo., for office space improvements in the Federal Recreation Bldg., Cheyenne. Bids opened August 6. DM 8-15. Previous report 8-1

●HIGH SCHOOL ADDITION— Jackson, Wyo.

Bids will be opened 8 p.m., August 29, by Board of Education, Jackson, for construction of addition to existing high school in Jackson. Plans with Kellogg & Kellogg, architects, 309 N. Front St., Rock Springs, Colo. $25 deposit. Bid bond 5%.

One-story; brick and steel construction; 155'x65'; will provide for shops and home economics department. LY 8-11

●POST OFFICE EXTENSION, REMODELING— Rawlins, Wyo.

Bids will be opened 1:30 p.m., August 24, by General Services Administration, Bldg. 41, Denver Federal Center, Denver, Colo., for remodeling and construction of extension to U.S. Post Office in Rawlins. Plans with above office and with custodian, Post Office Bldg., Rawlins. Bids on this project were rejected in June. SP 8-11. Previous report 7-14

AIRPORT— Torrington, Wyo.

Final plans underway by Harold Hoskins & Associates, consulting engineers, 725 9th St., Greeley, Colo., for construction of municipal airport at Torrington. Includes construction of administration building, 5,200' runway, lighting and related work. LY 8-14

▲COMFORT STATIONS— Yellowstone Park, Wyo.

Bids received by U.S. National Park Service, Conrad L. Wirth, director, Interior Bldg., Washington, D.C., for construction of ten comfort stations at Yellowstone National Park. Bids opened July 31. LOW BID: Goodwin Builders, 1005 Ada Ave., Idaho Falls, Idaho, $122,411. ONLY OTHER BID: F. L. Eckman Construction Co., Bountiful, Utah, $128,884. LY 8-11. Previous report 7-26

UTAH

●PAINTING, SIDING ROOFING— Hill AFB, Utah

Bids will be opened 2:30 to 3 p.m., August 28, by Commander, Ogden Air Material Area, Directorate of Procurement and Production, Attn. OOPPCS, Hill AFB, for reroofing buildings and for painting and residing buildings at the base. Specifications with above office. GH 8-14

●CHAPEL— Holladay, Utah

Sub-bids are being taken by Holladay 5th Ward, James J. DeBry, chairman of building committee, 1604 Jefferson St., Salt Lake City, for construction of new 5th ward chapel in Holladay. Plans with Theodore R. Pope, architect, 366 S. 6th East, Salt Lake City. Sub-contracts include electrical, plumbing, heating, brick, steel, tile, roofing, cabinet work, plastering and painting. GH 8-14

SWIMMING POOL ACCOMMODATIONS— Moab, Utah

Working drawings underway by Fetzer & Fetzer, architects, 415 Zions Savings Bank Bldg., Salt Lake City, for construction of a dressing room area, decks, filtration room and fencing for the new swimming pool in Moab, for Grand County Commissioners, Courthouse, Moab. GH 8-14

CHURCH— Ogden, Utah

Construction underway for St. Mary's Catholic Church at 2760 Pennsylvania Ave. in Ogden. Church is for the Spanish speaking members in Ogden. Existing building at 210 W. 22nd St. will be converted into the Santa Maria Mission as mentioned previously in PCD 8-9. Cinderblock and brick veneer construction; steep roof of Gothic characteristics; 40'x90', to seat 300; exposed laminated arches; basement to be utilized as recreation hall. SC 8-14

ELEMENTARY SCHOOL— Ogden, Utah

(Estimated cost $500,000)

Working drawings underway by Hodgson & Holbrook, architects, 807 Eccles Bldg., Ogden, for construction of a new elementary school to be located on site of fire-destroyed Lewis junior high school in Ogden, for Ogden City Board of Education, 2351 Grant Ave., Ogden. GH 8-14

HOSPITAL REMODELING, ADDITION— Provo, Utah

(Estimated cost $850,000)

Working drawings underway for remodeling of and an addition to Utah Valley Hospital, Provo, for Latter Day Saints Church.

Classified Advertising

★

CLASSIFIED RATES

Regular Classified: $6 per column inch.

Classified Display: (Based upon number of insertions during any 12 month period.)

	1 time	6 times	12 times
Per Column Inch:	$9.00	$8.00	$7.00

FOR SALE

140 CLEVELAND TRENCHER

Diesel Engine
Ready to go

●

O'CONNOR CONST. CO.

Columbia Falls, Montana

PACIFIC PRINTING CO.

of Seattle, Inc.

Mailing Pieces — Advertising Folders — Sales Manuals — Sales Literature — Broadsides — Business Stationery — Circulars — Programs

MAin 0285

2418 Third Ave. Seattle 1, Wash.

47 E. S. Temple, Salt Lake City. Plans by Willard C. Nelson, architect, Box 704, 64 N. 1st East, Provo. Addition to include three wings; two-story; designed to provide for additional stories; includes an administration suite, x-ray room, out-patient room, central supply room, 50-bed addition, utility core. GH 8-14

FEDERAL BUILDING—Salt Lake City, Utah
(Estimated cost $7,600,000)

Conditional approval has been given by the Senate and House Public Works Committees, for construction of a new federal building on a site not yet chosen in Salt Lake City, for General Services Administration, Bldg. 41, Denver Federal Center, Denver. Seven- or eight-story; 150,000 sq. ft. to 160,000 sq. ft. GH 8-14

▲LIVESTOCK BUILDING— Salt Lake City, Utah

Bids received by Utah State Building Board, 419 State Capitol Bldg., Salt Lake City, for construction of a new livestock building at Utah State Fairgrounds in Salt Lake City. Plans by Swenson & Panushka, architects, Zions Savings Bldg., Salt Lake City. LOW BIDS: G. Maurice Romney, 424 S. 7th East, $34,375; Chytraus Bros. Co., 2040 Redondo Ave., $34,400; Tri West Construction Co., 170 East Vidas Ave., $34,800; all of Salt Lake City. Bids were opened August 7. GH 8-14. Previous report 8-2

▲SOUND, COMMUNICATION SYSTEM— Salt Lake City, Utah

Bids received by Utah State Building Board, 419 State Capitol Bldg., Salt Lake City, for furnishing and installing sound and intercommunication system in new Student Union Building at University of Utah, in Salt Lake City. Plans by Fred L. Markham, architect, 45 N. University Ave., Provo. LOW BID: Western Sound and Equipment Co., 262 E. 1st South, $12,069. ONLY OTHER BID: Standard Supply Co., 225 E. 6th South, $19,956; both of Salt Lake City. Bids were opened August 7.
GH 8-14. Previous report 8-2

SCHOOL ADDITION— Salt Lake City, Utah

Robert L. Springmeyer, architect, 617 Zions Savings Bank Bldg., Salt Lake City, has been retained by Salt Lake City Board of Education, 440 E. 1st South, Salt Lake City, to prepare plans for an addition, including an auditorium and administrative suite, and remodeling existing toilet rooms at Jordan Junior High School in Salt Lake City. GH 8-15

HOSPITAL ADDITION— Salt Lake City, Utah

Plans contemplated by Latter Day Saints Building Committee, 125 N. Main St., Salt Lake City, for construction of a fourth floor addition to the L.D.S. Primary Children's Hospital at 320 12th Ave. in Salt Lake City. GH 8-15

REMODEL ELEMENTARY SCHOOL— Salt Lake City, Utah

Plans announced by Salt Lake City Board of Education, 440 E. 1st South, Salt Lake City, for remodeling Jackson junior high school in Salt Lake City. Plans by Barker Engineering, 270 S. 12th East, Salt Lake City. GH 8-15

★BUILDING RENOVATIONS, PAINTING— Salt Lake City, Utah

Award to W. S. Lundington, 438 Garfield Ave., Salt Lake City, $9,840, by Utah State Building Board, J. G. King, superintendent of construction, 419 State Capitol Bldg., Salt Lake City, for renovating and painting buildings at Utah State Fairgrounds in Salt Lake City. Plans by Swenson & Panuska, architects, Zions Savings Bank Bldg., Salt Lake City. Bids were opened August 7.
GH 8-15. Previous report 8-2

★CHURCH ADDITION— Salt Lake City, Utah

Award to Perce Young Construction Co., 2750 S. Main St., Salt Lake City, $238,700, by First Presbyterian Church, South Temple and C Streets, Dr. Alvin Morris, Pastor, Salt Lake City. Plans by Scott & Beecher, architects, Dooly Bldg., Salt Lake City.
GH 8-15. Previous report 7-6

JUNIOR HIGH SCHOOL—West Jordan, Utah

Preliminary plans underway by Ashton, Evans & Brazier, architects, 24 S.W. Temple, Salt Lake City, for construction of new junior high school in West Jordan, for Jordan School District, Arthur E. Peterson, superintendent, 9361 S. State St., Sandy. GH 8-15

ALASKA

★SCHOOL ADDITIONS— Adak, Kodiak, Alaska

Award to Raber & Kief, 420 Queen Anne Ave., Seattle, $134,260, by Housing and Home Finance Agency, L. R. Durkee, contracting officer, 450 Federal Office Bldg., Seattle, for construction of a two-classroom addition at the U. S. Naval Station at Adak. The contract for the Kodiak naval station addition was made in July as reported in PCD 7-19. 8-15. Previous report 7-19

★TACAN, NAVAID BUILDINGS— Anchorage, Alaska

Award made on one portion of project, rejection of bid made on another section of the program involving construction of the Tacan, Navaid buildings in Alaska; ENG-95-507-57-3. AWARD—McGrath Site: Walsh & Co., Box 84, Spenard, $63,103. BID REJECTION—King Salmon Airport: The one bid offered was over government estimate and bids will be readvertised later with several other Tacans. Awards on Gulkana and Ladd AFB sections were published in PCD 8-9.

■DORMITORY— College, Alaska

Additional planholders announced on women's dormitory at College on which bids will be opened 10 a.m., August 29, by Alaska Public Works, 123 W. 3rd, Juneau; Proj. Aaa 50-A-219.

Additional planholders: Armstrong Cork Co., 5035 1st Ave. S., Seattle, Wash.; McKinley Painting and Decorating, Box 1694, Fairbanks; Torgerson Bros., 1213 2nd Ave., Fairbanks; Baker & Ford, Box 555, Anchorage; Regal Steel, 405 Dunkel, Fairbanks; S. S. Mullen, Inc., 621 9th Ave. N., Seattle; Maxwell Steel Co., P.O. Drawer 230, Fort Worth, Tex. JU 8-14. Previous report 8-7

▲PIPE GUARDS, RAIN LEADER COVERS— Elmendorf AFB, Alaska

Bid received by Corps of Engineers, Alaska District, D-E Bldg., Anchorage, for furnishing and installing door pipe guards and rain leader covers on warehouse type buildings 21-881 and 21-882 at Elmendorf AFB, Alaska; ENG-95-507-57-10. ONLY BID: Pioneer Sheet Metal and Plumbing Co., 303 2nd Ave., Anchorage, $5,951. Engineer's estimate, $5,406. Bids were opened August 10 in Anchorage. GW 8-15. Previous report 8-3

★BANK ALTERATIONS, ADDITIONS— Fairbanks, Alaska

Award announced by First National Bank, Fairbanks, for alterations and construction of additions to the existing bank. Plans by Alaska Architectural & Engineering Co., 710 3rd Ave., Box 509, Fairbanks. AWARD: Burgess Construction Co., Box 652, Fairbanks, $236,260. 2ND LOW BID: B-E-C-K Constructors, 3647 Stone Way, Seattle, $294,300. Mechanical and electrical work to be bid separately. SP 8-10

▲ACOUSTICAL TILE—Fort Greeley, Alaska

Bids received by Corps of Engineers, Alaska District, D-E Bldg., Anchorage, for treatment of acoustical tile for walls and ceilings of the Arctic Indoctrination School Auditorium, Fort Greeley; ENG-95-507-57-5 BIDDERS: Fuller Paint & Glass Co., 134 E. 4th, Anchorage, $3,685; Northwest Cork & Asbestos, Inc., 3615 Fremont, Seattle, $3,909; Noise Control of Seattle, 1109 N. 35th, Seattle, $4,052. Bids opened 8-8.
RG 8-15. Previous report 7-24

★CHURCH ADDITION, ALTERATIONS— Juneau, Alaska

Award to Denali-McCray, Box 1111, Juneau, $123,713, by Church of the Holy Trinity, 4th and Gold Streets, Juneau, for classroom and multipurpose room addition, extension of existing nave and alterations to existing church in Juneau. Plans by Foss & Olson, architects, Box 2331, Juneau.

Two-story addition; concrete basement; 90'x40'; 7,000 sq. ft.; concrete footings, foundation; poured concrete frame walls; frame, concrete floors; glued laminated truss roof; frame partitions; drywall interior partitions and ceilings; exposed decking.
JU 8-14. Previous report 7-10

ENGINEERING NEWS

Washington, Oregon, Idaho, Montana, Wyoming, Utah, Alaska

- ● Bids Called
- ★ Contract Awards
- ▲ Low Bids—Bid Received
- ■ Planholders—Prospective Bidders

OREGON

★REVETMENT CONSTRUCTION— Albany, Ore.

Award to G. D. Dennis & Sons, 7355 S.E. Johnson Creek Blvd., Portland, $192,940 (alternate figure), by Corps of Engineers, Portland District, 628 Pittock Block, Portland, for construction of derrick stone revetment, grouted gravel apron and drift barrier along right bank of South Santiam River at Tripp location northeast of Albany, and construction of derrick stone revetments along left bank of the river at Sanderson Bridge and Cook locations, east and southeast, respectively, of Albany, Linn County, Ore.; CIVENG-35-026-57-11.
WB 8-11. Previous report 7-28

●FLOOD CONTROL— Albany, Ore.

Bids will be opened 2 p.m., August 23, by Corps of Engineers, Portland District, 628 Pittock Block, Portland, for repair of bank protection works along the rightbank of South Santiam River at Cox Location, approximately 8 mi. east of Albany, Willamette River Basin, Ore.; CIVENG-46-026-57-31. Specifications with above office. Bid bond 20%. Completion time 30 calendar days. Quantities: 2,360 c.y. excavation; 2,990 c.y. derrick stone; 80 c.y. stone revetment.
SP 8-11

●LEVEE IMPROVEMENT—Coos Bay, Ore.

Bids will be opened 2 p.m., August 24, by Corps of Engineers, Portland District, 628 Pittock Block, Portland, for raising and strengthening existing levee, placing dumped stone revetment, removing and replacing designated drainage structures and modifying existing Ross Slough tide box, Catching Inlet Drainage District, Catching Slough, approximately three miles east of Coos Bay, Coos County, Ore.; CIVENG-35-

026-57-23. Specifications with above office. Bid bond 20%. Completion dates October 19, 1956 (installation of additional drainage structures, revetment placement, reinforcing existing levee) and June 14, 1957 (dressing and shaping of levees, preparation of seed bed and seeding, clearing).

Quantities: 76,800 c.y. levee embankment; 3,100 c.y. filter material; 6,200 c.y. dumped stone revetment; 970 c.y. structural excavation; 310 c.y. backfill; 3,060' piling; 270 lb. hardware; 3 c.y. reinforced concrete; treated wales, metal pipe, drainage gate.

Planholders: Palmberg Construction Co., P. O. Box 991, Astoria; J. Bacaloff Co., 6009 N.E. 60th Ave., Portland; Ramsey Construction Co., P. O. Box 507, Corvallis; G. D. Dennis, 7355 S.E. Johnson Creek Blvd., Portland; J. N. Conley, 4332 N.E. Royal Court, Portland; Walter W. Sprague Co., P. O. Box 117, Lynnwood, Wash.; Coos Bay Dredging Co., Box 217, Coos Bay; Angell Bros., Box 125, Eastside, Ore.; C. T. Malcom, 2336 N.E. 30th Ave., Portland; Miller & Strong, Inc., Box 366, Eugene; C. J. Eldon, P. O. Box 5686, Portland. WB 8-14. Previous report 8-10

▲RESERVOIR FOUNDATION— Coquille, Ore.

Bid received by City Council, H. N. Crim, city recorder, City Hall, Coquille, for clearing and grading at reservoir site in Coquille, construction of a 46' ringwall tank foundation and installation of miscellaneous cast-iron pipe and valves and concrete pipe drain line. Specifications by Cornell, Howland, Hayes & Merryfield, consulting engineers, 1600 Western Ave., Corvallis. Bids opened August 6. ONLY BID: Donald W Thompson, North Bend, $4,986.

SC 8-15. Previous report 7-26

● APPROACH ROADS—Cottage Grove, Ore.

Bids to be opened 2 p. m., August 21, by U. S. Forest Service, Frank Walisch, regional supply officer, 729 N.E. Oregon St., P. O. Box 4137, Portland, for construction of approximately ¾ mi. of Staples Bridge approach roads, approximately 21 mi. southeast of Cottage Grove, Umpqua National Forest. Plans with supply officer, or Forest Supervisor, Post Office Bldg., Roseburg. Quantities: 2.7 acres clearing; 1.2 acres grubbing; 14,400 c.y. unclassified excavation; 500 c.y. unclassified excavation for borrow; 18,842 station yds. overhaul (1,000' free haul); 68' of 18" and 42' of 48" corrugated metal culvert; 125 c.y. loose riprap. WB 8-11

● FLOOD CONTROL— Creswell, Ore.

Bids will be opened 2 p. m., August 21, by Corps of Engineers, Portland District, 628 Pittock Block, Portland, for repair and construction of bank protection works at Harrold, Rinehart and Jenkins Locations on Coast Fork Willamette River, near Creswell, Lane County, Ore.; CIVENG-35-026-57-27. Specifications with above office. Bid bond 20%. Completion time 60 calendar days.

Planholders: C. T. Malcom, 2336 N.E. 20th Ave., Portland; Buchanan Excavating Co., 445 W. 6th St., Box 187, Junction City; C. W. Hatfield, 141 Barcley Ave., Oregon City; Miller & Strong, Inc., Box 366, Eugene; L. P. Stubblefield, Box 341, Eugene; C. J. Eldon, P. O. Box 5686, Portland; L. C. Daniel, 745 E. 20th St., Eugene.

Quantities: HARROLD, 2,610 c.y. excavation; 2,780 c.y. dumped stone revetment. RINEHART: 530 c.y. dumped stone revetment; 220 c.y. dumped stone revetment (in excess of 530 c.y.). JENKINS: 6,650 c.y. excavation; 620 c.y. dumped stone revetment; 4,120 c.y. derrick stone. SP 8-10

★STREET IMPROVEMENTS— Dallas, Ore.

Award announced by County Clerk, Courthouse, Dallas, Polk County, Ore. for grading, surfacing and paving of 2,061' on Douglas Ave. and 2,462' on Hawthorne Ave. in Dallas. Bids opened August 3. AWARD: Central Paving Co., Dallas, $28,064. ONLY OTHER BID: Warren Northwest, Inc., Box 5072, Portland, $29,108.

SP 8-11. Previous report 7-25

▲AIRPORT IMPROVEMENTS—Eugene, Ore.

Bids received by Robert Finlayson, city manager, City Hall, Eugene, for runway, apron and road work (Project A) and for runway lighting system (Project B) at Mahlon Sweet Municipal Airport in Eugene. Bids opened August 8. LOW BID—PROJECT A: T. C. Wildish, Box 345, Eugene, $237,273. ONLY OTHER BID: Central Heating Co., Oregon Ltd., 865 Olive St., Eugene, $240,422. PROJECT B: Olson Electric, 710 W. 8th, Vancouver, Wash., $56,295; Trowbridge Electric Co., 136 N. Jackson, Roseburg, $56,577; L. H. Morris Electric, Box 466, Eugene, $59,311. SC 8-11. Previous report 7-25

▲PAVING REPAIR— Klamath Falls, Ore.

Bids received by Frank A. Blackmer, police judge, City Hall, Klamath Falls, for repairing paved streets throughout the city. Bids opened August 6. ONLY BID: Asphalt Paving Co., Pelican City Road, Klamath Falls, $25,812. ZZ 8-10. Previous report 8-1

● SEWERS— Medford, Ore.

Bids will be opened 11 a. m., August 20, by City Recorder, City Hall, Medford, for construction of the southeast Medford and armory trunk sewers in Medford. Specifications with city manager at above address. $10 deposit. Certified check 5%. Separate bids on two sewers.

SOUTHEAST SEWER: Construction of trunk line sewer from existing interceptor sewer at 9th and Cottage St. to Barnett Road, thence along Barnett Road to Murphy Road; also to include lateral trunk lines. Quantities: 17,370 c.y. trench excavation; 18,900' concrete sewer pipe; 550 c.y. creek run gravel; 90 sq. yd. pavement; 40 sq. ft. concrete sidewalk; 30 sq. yd. concrete driveways; 10 c.y. concrete; 120' cast iron pipe. ARMORY SEWER: Installation of sanitary sewer line to connect the armory building now under construction to South Bear Creek sanitary sewer district trunk line. Quantities: 1,100 c.y. trench excavation; 1,780' concrete pipe. SC 8-10

● CANAL STRUCTURES— Medford, Ore.

The location of the office for receiving bids for main canal structures, Rogue River Basin Project, Ore.; Spec. No. DC-4728, has been changed. Bids will be opened 10 a. m., P.S.T., August 22, by the Bureau of Reclamation, Bldg. 234, Camp White, nine miles north of Medford, instead of in the Medford bureau office. The main canal structures on which bids will be opened are located northeast of Medford, Station 123+00 to Station 825+00, Medford and Rogue River Valley Irrigation District, Rogue River Project, Ore. Project involves 350 c.y. excavation for flumes and wall; 200 c.y. concrete; 60" concrete siphon about 350' long; 54" concrete siphon about 1,100' long.

DM 8-15. Previous report 7-6

● DITCH, HEADWALLS, TRASH RACK— Mills City, Ore.

Bids will be opened 2 p. m., September 5, by Corps of Engineers, Portland District, 628 Pittock Block, Portland, for construction of a roadside drainage ditch, concrete headwalls for culverts, and a trash rack at Detroit Dam, North Santiam River, upstream from Mills City, Willamette River Basin, Ore.; CIVENG-35-026-57-30. Specifications with above office. Bid bond 20%. Completion time 60 calendar days. Quantities: 22 c.y. concrete; 11,600 lb. railroad rail.

SP 8-14

▲SANITARY SEWERS— Oakridge, Ore.

Bids received by Dale Helikson, city recorder, City Hall, Oakridge, for construction of trunk by-pass and lateral from existing sewer in Oakridge. Bids opened August 1. LOW BIDS: E. W. Construction Co., 3170 W. 11th Ave., Eugene, $9,246; Tedrick & Quilliam Ditching Co., McMinnville, $9,413; Jeske Bros. Construction Co., 1870 Pacific Highway North, Eugene, $9,433.

DW 8-7. Previous report 7-25

★BRIDGE— Oakridge, Ore.

Award by Bureau of Public Roads, F. E. Andrews, division engineer, Morgan Bldg., Portland, for construction of 120' reinforced concrete bridge spanning Swift Creek, on Rigdon Road, approximately 25 miles south of Oakridge, Lane County, Ore.; FSP Willamette 211-A. AWARD: Hannan Bros., 3525 N.E. Going St., Portland, $52,745. OTHER BIDDERS: C. J. Eldon, P. O. Box 5686, Portland, $53,315; J. N. Conley, 4332 N.E. Royal Court, Portland, $53,815; R. & M. Construction Co., Box 426, Central Point, $56,750. Bids opened August 9.

WB 8-11. Previous report 8-8

★PAVING— Pendleton, Ore.

Award to H. W. & H. J. Miller Construction Co., 1230 Dewey, Baker, $46,240, by City Manager, City Hall, Pendleton, for street paving work in seven improvement districts in Pendleton. Bids opened August 1.

SP 8-11. Previous report 7-28

★REINFORCED CONCRETE BRIDGES— Portland, Ore.

Award by Bureau of Public Roads, 753 Moragn Bldg., Portland, for construction of Cook Creek bridge and Deer Creek bridge, Blue River and Deer Creek roads, Willamette National Forest, Lane County, Ore.; FDRP Willamette 149 - B and 1451 - A. AWARD: Fred H. Stegeman, 455 "A" St., Lebanon, $57,980. OTHER BIDS: C. J. Eldon Co., P. O. Box 5686, Portland, $60,141; J. N. Conley, 4332 N.E. Royal Court, Portland, $64,020. Bids opened August 8.

WB 8-10. Previous report 7-25

▲SEWER FACILITIES— Portland, Ore.

Bids opened by Multnomah County Board of Commissioners, John W. West, purchasing agent, 504 County Court House, Portland, for sewer facilities to serve 35 lots east of Brookford Sanitary District. BIDDERS: Frank W. Kanehl, 6407 S.E. 43rd Ave., (asbestos-cement pipe) $15,886; (concrete pipe) $14,073; George W. Lind, 5000 N.E. Killingsworth St., $19,754, $17,466; Don Thornton, 2809 W. 21st St., Vancouver, $19,275, $17,985; P. S. Lord Mechanical Contractor, 4507 S.E. Milwaukie Ave., no bid, $19,361. Of Portland except as noted. Bids opened July 7.

WB 8-10. Previous report 7-26

● ARC WELDER— Portland, Ore.

Bids to be opened 11 a. m., August 20, by Corps of Engineers, Portland District, 628 Pittock Block, Portland, for one 300 amp., gasoline-driven arc wilder with four-wheel road trailer, fob. Detroit Dam, Ore.; CIV-ENG-35-026-57-29. (Readvertisement of 57-20). WB 8-10. Previous report 7-28

▲SANDING MACHINES— Portland, Ore.

Bids received by city purchasing agent, 208 City Hall, Portland, for furnishing sanding machines. ONLY BID: Edward L. Kropp Co., 1405 S.E. 8th Ave., Portland, $5,568. Bids opened August 7.

WB 8-10 .Previous report 7-31

▲RADIO TOWER— Portland, Ore.

Bids received August 8 by city purchasing agent, 208 City Hall, Portland, for radio tower on top of civil defense control center now under construction. Plans by Edmundson, Kochendoerfer & Kennedy, architects and engineer, 325 Henry Bldg., Portland. BIDDERS: Steel Construction Co., 5300 N.W. Front Ave. (Basic) $63,067, (Deductive alternate) $5,715; Fought & Co., Swan Island, $75,000, $8,850; Tower Sales & Erecting Co., 6100 N.E. Columbia Blvd., $88,000, $9,000. Of Portland. WB 8-10. Previous report 7-24

★MATERIAL LOADER— Portland, Ore.

Award to Nelson Equipment Co., 5251 S.E. McLoughlin Blvd., Portland, $7,097, by city purchasing agent, 208 City Hall, Portland, for automotive material loader.

WB 8-11. Previous report 7-31

▲CENTRIFUGAL PUMP— Portland, Ore.

Bids received by city purchasing agent, 208 City Hall, Portland, for furnishing centrifugal pump. LOW BIDS: R. M. Wade & Co., 1919 N.W. Thurman St., $1,228; Feenaughty Machinery Co., 112 S.E. Belmont St., $1,515; Loggers & Contractors Machinery Co., 240 S.E. Clay St., $1,533. Of Portland. Bids opened August 10.

WB 8-14. Previous report 7-31

★STATE HIGHWAY PROJECTS— Portland, Ore.

Award to Umpqua River Navigation Co., 255 N. 1st, Reedsport, $63,043, by Oregon State Highway Commission, Salem, on grading, asphaltic concrete paving, widening on

0.83 mile of Oregon Coast Highway near Florence, Lane County; a State Project. Bids were opened in Portland on July 12.
DM 8-15. Previous report 7-14

■ **GRADING, CLEARING, BRIDGE—** **Portland, Ore.**

Planholders announced by Bureau of Public Roads, 753 Morgan Bldg., Portland, for 2.131 mile grading, 4.026 mile advance clearing and construction of 131' reinforced concrete bridge on Oregon Coast Highway, Siuslaw National Forest, Tillamook and Lincoln Counties, Ore.; FHP 3-A1. Bids to be opened 10 a. m., August 24, by Bureau of Public Roads, 753 Morgan Bldg., Portland.

Planholders: C. J. Eldon, P. O. Box 5686; O. R. Sawley, 3617 S.W. Hume St.; Peter Kiewit Sons' Co., P. O. Box 531, Vancouver; Natt McDougall Co., 824 Pittock Block; Babler Bros., 4617 S.E. Milwaukie Ave.; Kuckenberg Construction Co., Box 7407; A. L. Harding Co., Inc., P. O. Box 708, Salem; P. W. Hamer & Associates, P. O. Box 428, Roseburg; J. Ira McNutt, 827 N. Mill St., P. O. Box 296, Springfield; Morrison-Knudsen Co., Inc., 319 Broadway, Boise; M. J. Butts Logging Co., 1162 Tyler St., Eugene; J. N. Conley, 4332 N.E. Royal Court. Of Portland except as noted.
WB 8-15. Previous report 8-10

■ **PAVING—** **Portland, Ore.**

Planholders announced for bituminous paving of 4.448 mile Oregon Coast Highway, Siskiyou National Forest, Curry County, Ore.; FHP No. 10-C2, Unit 2. Bids to be opened 10 a. m., August 24, by Bureau of Public Roads, 753 Morgan Bldg., Portland.

Planholders: D. H. Paving Co., 6808 Highway 99, Vancouver; Warren Northwest, Inc., P. O. Box 5072, Portland; Peter Kiewit Sons Co., Room 211, 208 W. Main St., Medford; Central Paving Co., P. O. Box 38, Independence; Babler Bros., 4617 S.E. Milwaukie Ave., Portland; J. C. Compton Co., McMinnville; The Central Heating Co., 865 Olive St., Eugene; J. N. Conley, 4332 N.E. Royal Court, Portland.
WB 8-15. Previous report 8-9

▲ **RUNWAY SEALCOATING—Portland, Ore.**

Bids opened by Port of Portland, John J. Winn, Jr., general manager, 5848 N. Lagoon Ave., Swan Island, Portland, for sealcoating of the Northeast - Southwest Runway at Portland International Airport. BIDDERS: Oregon Asphaltic Paving Co., 0441 S.W. Porter St., Portland, $7,102; Parker-Fuhrman Co., 11524 S.E. Foster Road, Portland, $7,400. Bids opened August 13.
WB 8-15. Previous report 8-9

■ **SEWAGE TREATMENT PLANT—** **Portland, Ore.**

Planholders announced for sewage treatment plant to serve Raleighwood housing development and portions of adjoining properties in Raleigh Hills area near Scholls Ferry Road and Beaverton-Hillsdale Highway. Bids to be opened 1:30 p. m., August 20, by West Hills Homes, Inc., at office of Carl E. Green & Associates, consulting engineers, Henry Bldg., Portland. Plans with engineers. $35 deposit.

Planholders: Packard Pipe & Pump Co., 554 14th Ave., Longview; L. B. Read and Mac Sharp, 9820 S.W. Eagle Lane, Beaverton; Charles S. Camplan, 2035 S.W. 58th Ave., Portland; P. S. Lord, Mechanical Contractor, 4507 S.E. Milwaukie Ave., Portland; Charles R. Schmiedeskamp, 1008 S.W. 6th Ave., Portland.
WB 8-15. Previous report 8-8

PIPELINE, WATER TANK— Rainier, Ore.

Plans approved by City Council, City Hall, Rainier, for installation of a water pipeline and a steel water tank at Rainier. Project is designed as a fire supply line for Van Fleet mill now under construction in Rainier, but will be tied to existing distribution system to bolster the city's water supply. A portion of the line to completed by October 1.

Bids will be called soon on two contracts for the project: one for installation of about 8,610' all-welded steel pipe (already purchased) and construction of a foundation for 750,000-gallon steel tank; other contract for furnishing and installing the tank. SC 8-9

★ **STATE HIGHWAY PROJECT—Salem, Ore.**

Award announced by Oregon State Highway Commission, Salem, for highway construction project on which bids opened July 12.

SHADY-BOOTH RANCH UNIT—About 19,000' of metal guardrail, 250 metal sight posts on Shady-Canyonville section of Pacific Highway about five mi. south of Roseburg, Douglas County; FAP No. BFI-78(28).

AWARD: Vern Hoagland, Beaverton, $46,935. SP 8-11. Previous report 7-14

● **ROLLER—** **Salem, Ore.**

Bids will be opened 10 a. m., August 20, by Marion County Court, room 110, Courthouse, Salem, for a self-propelled roller, rolling width of 90" and maximum capacity of 20 tons. Specifications with county engineer, room 127, Courthouse, Salem. Certified check 10%. SC 8-11

★ **SEWER EXTENSIONS— Toledo, Ore.**

Award to Smith Transfer, Toledo, $34,945, by City Council, City Hall, Toledo, for construction of sanitary sewer extensions in Toledo. Plans by Cornell, Howland, Hayes & Merryfield, consulting engineers, 1600 Western Ave., Corvallis. Bids opened August 6. SP 8-14. Previous report 8-4

WASHINGTON

● **TRANSMISSION LINE—Aberdeen, Wash.**

Bids will be opened 10:30 a. m., September 4, by Public Utility District No. 1, 217 S. "H" St., Aberdeen, for construction of a 69-kv transmission line between Polson Camp Road and North Humptulips along Quinault Highway, Wash. Specifications with above office. $25 deposit. Certified check or cashier's check 5%. SC 8-10

■ **SEWER SYSTEM— Auburn, Wash.**

Planholders announced for construction of a sewer system in the Martha Heisserman Addition in Auburn. Bids will be opened 8 p. m., August 21, by City Council, Robert E. Walker, city clerk, City Hall, Auburn.

Planholders: John Patricelli Construction Co., 1534 32nd Ave. S.; Washington Development Co., 1524 Ballard Way; Valley Construction Co., 7722 Rainier Ave.; Joe Colucio, 1425 Hanford; Schade Construction Co., 151 N. 79th. All of Seattle.
SP 8-14. Previous report 7-28

★ **BRIDGES— Bellingham, Wash.**

Award to C. B. Croy Construction Co., 2502 Lakeway Drive, Bellingham, $41,958, by Whatcom County Commissioners, William Genther, county engineer, Courthouse, Bellingham, for construction of two concrete bridges, one over California Creek on Ferndale-Blaine Road and one over Ten Mile Creek on Wiser Lake Road, in Bellingham.
JD 8-11

● **FLOOD CONTROL PROJECT—** **Bellingham, Wash.**

Bids to be opened 11 a. m., August 28, by Board of Whatcom County Commissioners, Courthouse, Bellingham, for installation of two flood gates and ditch cleaning at Schneider Ditch, located about four miles N.E. of Ferndale between Keefe Lake and the Nooksack River. Plans and specifications obtainable from William Genther, Whatcom County Engineer, Courthouse, Bellingham. JD 8-15

BRIDGE— Benton City, Wash.
(Estimated cost $177,000)

Bids will be opened about August 30 by Benton County Commissioners, Courthouse, Prosser, for construction of a cantilever type bridge over the Yakima River between Kiona and Benton City, Wash. Plans by Homer Hadley of Hadley & Hadley, consulting engineers, Securities Bldg., Seattle. A resolution has been passed by commissioners to provide $15,000 for Benton City approach rights of way; county will pay costs for obtaining deeds to land in right-of-way on Benton City side. County has also obtained a 60' right-of-way for the Kiona approach. Bridge to be constructed over a period of six or seven years. Day labor from road department will be used for bridge approaches.

Reinforced concrete; 400' long, 26' roadway, 4' sidewalk on each side; two main piers and supporting piers.
SC 8-14. Previous report 1-18

● **WATER SYSTEM IMPROVEMENTS—** **Bremerton, Wash**

Bids will be opened 7:30 p. m., August 21, by North Perry Avenue Water District, 2021 Perry Ave., Bremerton, for construction of additions and improvements to water distribution system. Specifications with Hill & Ingman, engineers, 2728 E. Madison St., Seattle. $5 deposit. Certified check 5%.

CONTRACT 1: 14,740' of 10", 8", 6" and 4" water main; miscellaneous gate valves, highway crossings and appurtenances. CONTRACT 2: 50,000-gallon elevated steel tank and appurtenances. CONTRACT 3: 300,000-gallon ground storage reservoir and appurtenances. CONTRACT 4: Booster pump station, well pump stations and appurtenances.
SC 8-11

▲ **ROAD IMPROVEMENTS—** **Carnation, Wash.**

Bids received by King County purchasing agent, W. R. Carroll, room 606, County-City Bldg., Seattle, for clearing, grading, draining and surfacing 1.23 mile of Carnation Farms Road approximately 1½ mile west of Carnation. LOW BIDS: Anderson & Akers, 4756 Fauntleroy, Seattle, $29,163; Robert L. Marsh, 4071 W. Holgate, Seattle, $30,836; J. E. Work, 9200 4th S.W., Seattle, $37,366. Bids opened August 13.
DM 8-14. Previous report 8-3

● **LEVEE WORK— Castle Rock, Wash.**

Bids will be opened 2 p. m., August 28, by Corps of Engineers, Portland District, 628 Pittock Block, Portland, for raising and strengthening existing levee, modification of existing drainage structures and construction of dumped stone revetments on left bank of Cowlitz River at Castle Rock, approximately 10 miles north of Kelso, Cowlitz County, Wash.; CIVENG-35-026-57-28. Specifications with above office. Bid bond 20%. Completion time 90 calendar days.

Quantities: 16,500 c.y. excavation; 9,350 c.y. embankment; 140 c.y. backfill; 6,890 c.y. dumped stone revtment; 60 c.y. concrete; 3,870 lb. steel reinforcement; 45' corrugated metal pipe; 1,350 c.y. gravel road surfacing.
SP 8-10

● **SUMP PUMPS—Chief Joseph Dam, Wash.**

Bids to be opened 2 p. m., P.S.T., August 23, by Corps of Engineers, Seattle District, 4735 E. Marginal Way, Seattle, for removal and salvage of existing two sump pumps and installation of new sump pumps at Chief Joseph Dam, Columbia River, Wash.; CIVENG-45-108-57-5. Plans with Seattle district office. Completion time 120 calendar days. Pumps shall be of the direct connected, electric motor driven, deep-well, turbine type with capacity of 700 gpm each when operating against a static head of 90' plus the friction nad head losses in the system.
DM 8-10

★ **GRADING, SURFACING—** **Cliffs, Maryhill, Wash.**

Award to Vernie Jarl, Gresham, $37,505, by Corps of Engineers, Portland District, 628 Pittock Block, Portland, for grading, construction of drainage facilities and surfacing approximately 0.1 mile Washington State Highway No. 8 at Maryhill and approximately 1.0 mile county, public and access roads in vicinity of Cliffs; CIVENG-35-026-57-10. WB 8-11. Previous report 8-4

★ **TRAIL CONSTRUCTION—** **Early Winters, Wash.**

Award by U. S. Forest Service, Regional Supply Officer, 729 N.E. Oregon St., Portland, for construction of a 3.7 mi. section of Cascade Crest Trail, approximately 15 airmiles northwest of Early Winters, Wash., near Harts Pass, Okanogan National Forest. AWARD: Wilson, Martin & Scott, Mazama.

Wash., $11,840. ONLY OTHER BID: Ray S. Rahn, Enterprise, Ore., $13,875. Bids opened August 8. WB 8-11. Previous report 7-31

▲WASTEWAY REALIGNMENT— Ephrata, Wash.

Bids received by Bureau of Reclamation, P. R. Nalder, project manager, Box 368, Ephrata, for Goose Lake Waseway realignment station 0+30 to 4+70 ten mi. northwest of Othello, Grant County, Wash.; Spec. No. 117C-386. LOW BIDS: Leo J. Lavin, Coulee City, $3,420; Syblon Reid Construction Co., Box 587, Warden, $4,220; Mast & Myers, Box 1132, Moses Lake, $5,420; engineer's estimate, $3,500. Bids were opened August 14. GW 8-15. Previous report 7-17

●RADIAL GATE CHECK DROP— Ephrata, Wash.

Bids to be opened September 20 by Bureau of Reclamation, Box 368, Ephrata, for radial gate check drop, Station 1369+11 for Potholes East Canal, Columbia Basin Project, near Othello, Wash.; Spec. No. DC-4749. Plans with reclamation office in Ephrata.

Quantities: 15,250 c.y. excavation; 850 c.y. concrete in structures. Completion time 170 days. DM 8-14

▲PUMPING PLANT LATERAL— Ephrata, Wash.

Bids received by Bureau of Reclamation, P. R. Nalder, project manager, Box 368, Ephrata, for construction of Frenchman Springs pumping plant approach lateral W531 and discharge lines, Block 79, Columbia Basin Project, near Quincy, Wash.; Spec. No. DC-4698. LOW BIDS: Commercial Builders, Inc., Box 302, Moscow, Idaho, $618,024; J. G. Watt Construction Co., Route 1, Box 300, Salem, Ore., $637,170; Cherf Bros., Inc., and Sandkay Contractors, Inc., Box 938, Ephrata, $639,681. Engineer's estimate, $561,-641. Bids were opened August 14.

GW 8-15. Previous report 7-25

★BULKHEAD REPAIR— Everett, Wash.

Contract negotiated with American Pile Driving Co., Pier 2, Everett, on a cost and material basis by Port of Everett, Pier 1, Everett, for repair and renovation of existing three-strip bulkhead in fill section of Pier 1 in Everett.

HH 8-11. Previous report 7-3

●RADIO TOWER INSTALLATION— Everett, Wash.

Bids to be opened 2 p.m., August 30, by H. E. Pike, state supervisor of purchasing, Box 1164, Olympia, for radio tower installation at Everett. Specifications with above office. DC 8-14

★CURBS, GUTTERS, SIDEWALKS— Everett, Wash.

Award to Lloyd Larson & Sons, Everett, $7,438, by City Council, City Hall, Everett, for portland cement sidewalks and concrete curbs and gutters in LID No. 640, Everett.

HH 8-14. Previous report 8-10

★TRACTOR— Everett, Wash.

Award to Pacific Hoist & Derrick, 3200 4th S., Seattle, $2,934, by City Council, City Hall, Everett, for furnishing the Water Department with one crawler type tractor with dozer blads. HH 8-14. Previous report 8-8

★BITUMINOUS PAVING— Everett, Wash.

Award to Associated Sand and Gravel Co., 3508 Colby, Everett, $18,699, by City Council, City Hall, Everett, for improving various streets and intersections in Everett.

HH 8-14. Previous report 8-10

▲TRUNK SEWER, FORCE MAIN, LIFT STATION— Kent, Wash.

Bids received by City Council, Charles Bridges, city clerk, City Hall, Kent, for construction of sewers, force main, and lift station in city of Kent. Plans by Hill & Ingman, consulting engineers, 1728 E. Madison, Seattle. Two contracts, one for trunk sewer and force main, the other for the lift station. LOW BIDS—Contract 1—Concrete Alternate: Valley Construction Co., 7722 Rainier Ave., $76,405; F. M. Taylor, 2108 N. 194th, $92,251; Shoreline Construction Co., 12519 15th Ave. N.E., $93,845. Clay Pipe Alternate: Valley Construction Co., $78,455; F. M. Taylor, $93,-551; Shoreline Construction Co., $97,701. Contract 2: Shoreline Construction Co., $30,554; Valley Construction Co., $37,000; Washington Development Co., 1524 Ballard Way, $38,073. All bidders of Seattle. Bids opened August 10. GW 8-14. Previous report 7-31

●OILING— Lacrosse, Wash

Bids will be opened 10 a.m., August 27, by Clyde Luther, city clerk, City Hall, Lacrosse, for improvement of ten blocks of oiled streets in Lacrosse. Specifications with City Clerk at Mays Farm Equipment, Lacrosse. $5 deposit. SC 8-11

●APRON REPAIR— McChord AFB, Wash.

Bids will be opened 1:30 p.m., August 28, by Department of U.S. Air Force, Purchasing and Contracting Office, Bldg. No. 524, McChord AFB, for cleaning, patching, paving and resurfacing existing test pad at the base; Inv. No. 45-603-57-5. Specifications with above office. Bid bond 20%. Includes MC-2 prime coat over area to be resurfaced and construction of 2" asphalt concrete surface course. SP 8-10

★SEWAGE TREATMENT PLANT— Montesano, Wash

Award to United Construction Co., Route 8, Box 469, Olympia, $148,000, by City Council, City Hall, Montesano, for construction of a sewage treatment plant in Montesano. The next two low bids were submitted by B. F. Turnbull Construction Co., 4351 Leary Way, Seattle, $171,854, and Utility Construction Co., Montesano, $183,070. Bids opened August 7. Plans by Howard T. Harstad & Associates, consulting engineers, 1000 Lenora Ave., Seattle.

DM 8-14. Previous report 8-11

▲TURBINE PUMP— Moses Lake, Wash.

Bids received by Mabel Waterman, city clerk, City Hall, Moses Lake, for furnishing and installing a deep well 1375-1425 GPM-capacity turbine pump and pulling and storing on the site the existing 75 H.P. pump and motor assembly (Schedule 1), for purchasing said 75 H.P. pump and motor assembly (Schedule 2) and for electrical revisions (Schedule 3). Consulting engineers are Gray & Osborne, 228 S. 2nd St., Spokane. Bids opened August 7. LOW BIDS—SCHED. 1: Shinn Irrigation Equipment Co., Inc., Wheeler Road, Moses Lake, $4,017; Odessa Trading Co., E. 514 Broadway, Moses Lake, $4,021; Spokane Pump & Pipe Co., E. 3903 Trent Ave., Spokane, $4,071. SCHED 2: Shinn Irrigation Equipment Co., Inc., Moses Lake, $1,441. SCHED. 3: Picatti Bros., S. 3rd Ave., Yakima, $1,653.

IG 8-11. Previous report 7-25

●STATE HIGHWAY PROJECTS— Olympia, Wash.

Bids on six highway construction projects will be opened 10 a.m., August 28, by Washington State Highway Commission in the conference room on the first floor of the General Administration Bldg., located at 11th and Columbia Streets on the north edge of the capitol group, Olympia, instead of in the board room of the Public Service Commission where bid openings are usually held. Specifications with office of W. A. Bugge, director of highways, Olympia. $2 deposit. Certified check, cashier's check or bid bond 5%.

RENTON TO MAY CREEK — Clearing, draining, grading, light bituminous surface treatment, cement treated base, type I-1 asphaltic concrete paving, three reinforced concrete T-beam bridges on 3.261 mile of SSH No. 2-A, King County; FAP No. UI-025-1(11).

Quantities: 80 acre clearing; 965,470 c.y. common excavation; 133,600 units overhaul; 21,830 ton select roadway borrow; 7,640 ton crushed stone surfacing; 74,640 ton CTB aggregate; 2,800 bbl. portland cement; 190 ton asphalt cement; 1,150 c.y. crushed coverstone, mineral aggregate; 9,390 ton asphaltic concrete; 5,855' asphaltic shoulder curb; 12,835' asphalt lined spillway and ditch; 700' cement concrete gutter; 540' iron pipe; 3,968' concrete pipe; 5,113' corrugated metal pipe; 318' beam guard rail; 1,701 c.y. concrete; 374,880 lb. steel reinforcing bars; 356' aluminum bridge railing; 2,600 lb. structural steel; 320 lb. cast steel.

GRAVELLE ROAD TO REARDAN—Clearing, draining, grading 5.931 mile PSH No. 2, Lincoln County; FAP No. F-028-4(1).

Quantities: 547,360 c.y. common excavation; 38,210 c.y. solid rock excavation; 37,550 units overhaul; 11,250 c.y. special burrow; 2,632' corrugated metal pipe.

PORT ORCHARD-WATERMAN ROAD—Clearing, draining, grading, surfacing with select roadway borrow on 0.919 mile Kitsap County road; FAS No. S-0329(1).

Quantities: 33,300 c.y. unclassified excavation and borrow; 3,130 c.y. select roadway borrow; 43 c.y. concrete; 5,750 lb. steel reinforcing bars; 60' conduit pipe; 1,764' concrete pipe; 9,950 c.y. riprap.

SOAP LAKE VICINITY—Install eight illumination systems, two traffic signal systems and channelization of SH Nos. 2, 7, 18, 11-G in Douglas and Grant counties; a State Project.

Quantities: 405 c.y. crushed stone surfacing; 134 ton asphaltic concrete; 11,042' precast traffic curb.

TOWN OF CONNELL—Drainage on 0.305 mile of SH Nos. 11 and 11-A in Franklin County; a State Project.

Quantties: 1,050 c.y. structure excavation; 100' corrugated metal pipe; 2,238' concrete pipe.

KELLER FERRY DWELLINGS—Construct a dwelling and remodel a dwelling in Lincoln County; a State Project. DM 8-10

★STATE HIGHWAY PROJECT— Olympia, Wash.

Award announced by Washington State Highway Commission, W. A. Bugge, director, Olympia, for highway construction on which bids were opened July 31.

NATIONAL AVENUE-SALZER CREEK — Installing drainage on 0.651 mile PSH No. 1, Lewis County, involving 7,886' concrete pipe; a State Project.

AWARD: C. W. Thomas & Son, Box 402, Winlock, $21,804. DE 8-14. Previous report 8-2



Yes — it's costly too! Bird infested buildings mean — Less Profit — Less Rentals — Less Income — More Cleaning — More Repairs — More Maintenance — Decreased Value.

End bird troubles permanently! How? The precision engineered porcupine — springy rust proof stainless steel prongs with outwardly projecting needle sharp points — *10 each inch.*

Nixalite®

BIRD BARRIER

- *LASTS A LIFETIME*
- *EASY TO INSTALL*
- *EFFECTIVE*
- *HUMANE*
- *INCONSPICUOUS*
- *NO MAINTENANCE*
- *PAYS ITS OWN WAY*



Eight pages in Sweet's Architectural or Light Construction File devoted to NIXALITE

NIXALITE COMPANY OF AMERICA
115-119 W. 3rd Street, Davenport, Iowa, U.S.A.

■ **STATE HIGHWAY PROJECTS—**
Olympia, Wash.

Planholders announced by Washington State Highway Commission, Olympia, on highway construction on which bids will be opened 10 a. m., August 21, in Olympia.

ROCK ISLAND DAM TO VULCAN—Clearing, draining, grading, surfacing with light bituminous surface treatment, stockpiling mineral aggregates and constructing a reinforced concrete slab bridge on 6.962 mile PSH No. 10 in Douglas County; FAP No. F-FG-030-1(9).

Planholders: American Bitumuls and Asphalt Co., Box 489, Portland, Ore.; James Crick & Sons, Box 4205, Spokane; Curtis Construction Co., Box 106, Spokane; J. W. Hardison, Box 48, Yakima; F. R. Hewett, E. 5916 Baldwin, Spokane; Peter Kiewit Sons' Co., Box 531, Vancouver; Lockyear & White, Inc., Box 687, Longview; Morrison-Knudsen Co., Inc., Hoge Bldg., Seattle; Murphy Bros., Inc., E. 3728 Broadway, Spokane; Natt McDougall, 825 Pittock Block, Portland; C. E. Oneal, Box 270, Ellensburg; Snitily Bros. Construction Co., Box 671, Wenatchee; Standard Asphalt Pacing Co., Inc., 119 N. Post, Spokane; Frank G. Bauine, Inc., Box 84, Yardley; cherf Bros., Inc., and Sandkay Contractors, Inc., Box 938, Ephrata; Riverside sand and Gravel Co., Box 301, Yakima; Soule Steel Co., 4100 W. Marginal Way, Seattle; K. C. Dack Construction Co., Box 35, Milton-Freewater; Hazen F. Willett, Inc., Box 1444, Ephrata.

CITIES OF EPHRATA AND SOAP LAKE—Draining, grading, surfacing with light bituminous surface treatment and paving with type I-1 asphaltic concrete on 1.483 mile PSH No. 7 in Grant County; FAP No. F-031-1(5).

Planholders: American Bitumuls and Asphalt Co., Portland; Curtis Construction Co., Spokane; J. W. Hardison, Box 48, Yakima; F. R. Hewett Co., Spokane; Murphy Bros., Inc., Spokane; J. D. Shotwell Co., 3113 S. Pine, Tacoma; Cherf Bros., Inc., and Sandkay Contractors, Inc., Ephrata; C. J. Painter, 947 W. Court, Pasco; Riverside Sand and Gravel Co., Box 301, Yakima; K. C. Dack Construction Co., Milton-Freewater; L. W. Vail Co., Pasco.

GOLD CREEK VICINITY — Stockpiling sand on PSH No. 2 in Kittitas County; a State Project, involving about 20,000 ton sand.

Planholders: L. W. Vail Coa., Box 847, Pasco; K. C. Dack Construction Co., Milton-Freemater. DM 8-14. Previous report 8-2

▲ **STATE HIGHWAY PROJECTS—**
Olympia, Wash.

Bids received August 14 by Washington State Highway Commission, Olympia, for highway construction.

SELAH CREEK NORTH—Clearing, draining, grading and ballasting railway relocation and stockpiling crushed stone surfacing, ballast, mineral aggregates and CTB aggregate on PSH No. 3 in Yakima County; FAP No. F-027-1(2).

LOW BIDS: Strong & Macdonald, 4045 Ruston Way, Tacoma, $439,404; Cherf Bros. & Sandkay, Inc., Box 938, Ephrata, $506,112; Osberg Construction Co., 1132 N. 128th, Seattle, $567,717.

HATTON COULEE TO LIND COULEE—Clearing, draining, grading and constructing a steel girder railway bridge and a reinforced concrete slab bridge on 4.861 mile PSH No. 11 in Adams County; FAP No. F-FG-033-2(4).

LOW BIDS: C. E. Oneal, Box 270, Ellensburg, $328,493; George W. Lewis, 1938 S. Hartford Place, Kennewick, $351,763; Cherf Bros. and Sandkay, Inc., Ephrata, $366,249.

N. P. RAILWAY UNDERCROSSING AND EASTSIDE STREET UNDERCROSSING IN OLYMPIA—Clearing, draining, grading, surfacing, paving with type I-1 asphaltic concrete and constructing a steel girder bridge and a reinforced concrete rigid frame bridge on 0.199 mile PSH No. 1 in Thurston County; FAP Nos. IN-ING-001-2(40), BIN-001-2(44)

LOW BIDS: MacRae Bros., 5900 1st S., Seattle, $456,565; Harry H. Hawkins, 16274 39th Ave. N.E., Seattle, $478,960; M. P. Butler, Contractor, 3419 13th S.W., Seattle, $479,089.

PACIFIC BEACH NORTH — Clearing, draining, grading and surfacing with crushed stone on 0.937 mile SSH No. 9-C in Grays Harbor County; FAS No. S-0335(8).

ONLY BID: Bocek Bros., Box 666, Hoquiam, $54,447.

HOXIE ROAD-ROCK CREEK BRIDGES—Constructing a reinforced concrete T-beam bridge and a reinforced flat slab bridge on 0.045 mile road in Spokane County; FAS No. S-0464(1).

LOW BIDS: Charles A. Power, Box 1220, Spokane, $57,290; Walter D. Meyers & Son, 1407 N. Calispell, Spokane, $58,271; O. M. Chaplin, 328 S. Thor, Spokane, $62,505.

McDONALD CREEK BRIDGE AND APPROACHES — Clearing, draining, grading, surfacing with selected roadway borrow and constructing a reinforced concrete continuous slab bridge on 0.350 mile road in Clallam County; FAS No. S-0324(1).

LOW BIDS: Hazen F. Willett, Inc., Box 1444, Ephrata, $55,164; Owens Bros., Railroad and Oak Streets, Port Angeles, $57,819; Cotton Engineering & Shipbuilding Co., 126 Madison St., Port Townsend, $59,834.

GOLDSBOROUGH CREEK BRIDGE—Constructing a reinforced concrete flat slab bridge on 0.023 mile road in Mason County; FAS No. S-0332(1).

LOW BIDS: Wilson & Simpson, Box 1070, Port Angeles, $25,920; Cascade-Olympic Contractors, Route 2, Box 131, Shelton, $29,995; Hazen F. Willett, Inc., Ephrata, $30,430.

SILVER LAKE LOOP ROAD—Clearing, draining, grading and surfacing with crushed stone on 3.309 mile road in Island County; FAS No. S-1078(1).

LOW BIDS: Morrison-Cecotti, Box 388, Mount Vernin, $47,189; I. M. Saimons, Route 1, Box 788, Alderwood Manor, $47,628; P. J. Anderson & Son, 13501 Aurora Ave., Seattle, $63,836.

TOWN OF COUPEVILLE—Surfacing with crushed stone on 2.085 mile road in Island County; FAS No. S-1086(1).

LOW BIDS: Morrison-Cecotti, Mount Vernon, $15,416; Fowler Asphalt Paving Co., 711 2nd Ave., Mount Vernon, $17,127; Tent & Tucker, Inc., 1431 134th Ave. N.E., Bellevue, $24,956.

DRY GULCH BRIDGE No. L-V/101 — Draining, grading, surfacing, paving with cement concrete and constructing a treated timber pile trestle bridge with concrete deck on 0.102 mile SSH No. 1-V in Pierce County; a State Project.

ONLY BID: Woodworth & Co., Inc., 1200 E. "D" St., Tacoma, $80,262.

FANICHER ROAD TO DOLLAR ROAD—Grading, surfacing and paving with type I-1 asphaltic concrete on 0.383 mile SSH No. 2-H in Spokane County; a State Project.

LOW BIDS: Inland Asphalt Co., 10th and Havana, Spokane, $18,847; S & F Construction Co., Inc., Route 2, Spokane, $20,290; D. A. Sullivan, Box 37, Parkwater Station, Spokane, $20,398.

LOUP LOUP JCT. VICINITY, ET AL—Stockpiling maintenance rock, crushed cover stone and mineral aggregates on SH Nos. 10 and 3-P in Okanogan and Ferry Counties; a State Project.

LOW BIDS: Carbon Bros., N. 3430 Cook St., Spokane, $77,325; Frank G. Baulne, Inc., Box 84, Yardley, $89,320; Materne Bros. Co., Box 752, Garland Station, Spokane, $95,520.

CRYSTAL CREEK VICINITY—Stockpiling maintenance rock, sand and mineral aggregates on PSH No. 5 in Pierce County; a State Project.

ONLY BID: J. D. Shotwell Co., 3113 S. Pine St., Tacoma, $44,250.

COWLITZ RIVER BRIDGE, ET AL—Cleaning and painting three bridges on SH Nos. 1-Q, 1-T and 1 in Lewis, Cowlitz and Clark Counties; a State Project.

LOW BIDS: C. H. Savage Co., 4126 S.E. Milwaukie, Portland, Ore., $22,281; Runnels Paint Co., 16826 Pacific Highway South, Seattle, $26,730; Andrew Nesheim, 9711 191st S.W., Edmonds, $28,390.

CLE ELUM RIVER BRIDGE, ET AL — Cleaning and painting three bridges on PSH Nos. 2, 3 and 5 in Kittitas, Yakima and Walla Walla Counties; a State Project.

LOW BIDS: Andrew Nesheim, Edmonds, $9,974; George A. Macom Paint Co., 2608 S.E. 23rd, Portland, $10,900; C. H. Savage Co., Portland, $11,989.

ALLEN STREET IN KELSO AND DAVIS TERRACE VICINITIES: Clearing, draining, grading and surfacing on 0.292 mile PSH No. 1 in Cowlitz County; a State Project.

ONLY BID: Peter Kiewit Sons Co., Box 1777, Vancouver, $92,916.

DOTY SLIDE DRAINAGE — Construction drainage system on 0.43 mile PSH No. 12 in Lewis County; a State Project.

Quantities: 1,214' corrugated metal pipe, 7 c.y. concrete; 350 lb. steel reinforcing bars.

No bids received.

DE 8-15. Previous report 8-7

★ **BITUMINOUS PATCHING MATERIAL—**
Pasco, Wash.

Award to L. W. Vail Co., N. 4th St., Box 602, Pasco, $4,170, by City Council, City Hall, Pasco, for furnishing 600 ton bituminous patching material. Bids opened August 7.

SP 8-11. Previous report 8-1

★ **ROAD IMPROVEMENTS— Prosser, Wash.**

Award to Twin City Construction Co., 906 N. 7th St., Pasco, $72,713, by Benton County Commissioners, Courthouse, Prosser, for county road improvemenst. Bids opened July 23.

SP 8-11. Previous report 7-13

★ **SURFACING, STREET RECONSTRUCTION— Pullman, Wash.**

Award to United Paving Co., Geiger Field Quarry, Spokane, $27,907, by City Council, City Hall, Pullman, for street reconstruction, resurfacing and seal coating of streets in Pullman. Bids opened August 7.

MH 8-11. Previous report 7-24

★ **SCHOOL GROUND IMPROVEMENTS—**
Renton, Wash.

Award to Russel J. Boe, 9685 Empire Way, Seattle, $26,247, by Renton School District No. 403, King County, in the office of Oliver M. Hazen, superintendent, 1525 4th Ave. N., Renton, for ground improvements for Renton High School. Bids opened July 26.

MS 8-11. Previous report 7-23

● **WATER MAINS— Renton, Wash.**

Bids to be opened 8 p. m., P.S.T., August 21, by King County Water District No. 90, Dan O'Connor, secretary, at Renton Hill Community Hall, 15606 S.W. 128th St., Renton, for construction of a water distribution system in LID No. 1. Plans with Hill & Ingman, engineers, 1728 E. Madison, Seattle. $2 deposit. Certified check 5%.

Planholders: Washington Development Co., 1524 Ballard Way; Frank M. Taylor, 2198 N. 19th, both of Seattle.

Quantities: 8,400' of 6" water mains; 630' of 4" water mains; miscellaneous gate valves, fittings and appurtenances. DC 8-14

▲ **WATER LINES, SEWER OUTFALL—**
Richland, Wash.

Bids received by Atomic Energy Commission, Bldg. 703, Richland, for construction of an effluent line, sewer outfall and raw water line at two Hanford plant areas in Richland. Bids opened August 9. LOW BIDS: George A. Grant and A. R. Sine, Box 764, Pasco, $122,431; Hoffman Construction Co., 715 S.W. Columbia, Portland, Ore., $126,080; Erwen Construction Co., 831 S. 4th, Pasco, $128,692. SP 811. Previous report 7-26

★ **CONCRETE PIPE LAYING—Seattle, Wash.**

Award to Frank Coluccio Construction Co., 7778 Seward Park Ave., $3,861, by King County Commissioners, 606 County-City Bldg., Seattle, for furnishing and laying 532' standard strength reinforced concrete pipe at King County Airport, Boeing Field, Seattle. Bids opened July 23.

MS 8-10. Previous report 7-24

▲ **STREET PAVING, SEWERS, WATER MAINS— Seattle, Wash.**

Bids received by Board of Public Works, E. G. Henry, secretary, room 512, County-City Bldg., Seattle, for paving, sewers, water mains and necessary appurtenances on West Henderson from 35th Ave. S.W. to 44th Ave. S.W., including the intervening streets in LID No. 6132; Ord. No. 85253. UNIT 1: Northwest Construction Co., 3950 6th Ave. N.W., Seattle, $249,304, on alternate A for portland cement concrete paving, no bid on alternate B for asphaltic concrete paving; Seattle Contracting Co., 101 Nickerson, Seattle, $254,944, $231,169. UNIT 2: Northwest, $211,362 (Alt. A), no bid (Alt. B); Seattle Contracting, $215,837, $215,387. UNIT

3: Northwest, $275,268, no bid; Seattle Contracting, $283,963, $283,642. TOTAL FOR 3 UNITS: Northwest, $728,323 (Alt. A), no bid (Alt. B); Seattle Contracting, $751,816, $749,434. Bids opened August 8.
DM 8-10. Previous report 8-3

▲PAVING, TEST BORINGS, BRIDGE PAINTING— Seattle, Wash.

Bids received by Board of Public Works, E. G. Henry, secretary, room 512, County-City Bldg., Seattle, for asphaltic concrete paving of Rainier Ave. from Atlantic St. to Dearborn, Ord. No. 85203; test borings, north approaches to Ballard bridge on 15th Ave. N.W.; Cleaning and re-painting 12th Ave. S. bridge, over Dearborn from Charles to Lane, Seattle. PAVING: Argentieri & Colorassi, 1815 Jackson, $90,355; Seattle Contracting Co., 101 Nickerson, $100,397. TEST BORING: No bids received. PAINTING: Puget Sound Painters, Inc., 6323 Brooklyn, $18,000; Andrew Nesheim, 9711 191st S.W., Edmonds, $18,774; Runnels Paint Co., 16826 Pacific Highway S., $23,880. All of Seattle unless otherwise stated. Bids opened August 8.
MS 8-10. Previous report 7-28

▲COPPER TUBE FITTINGS—Seattle, Wash.

Bids received by Paul R. Hendricks, city purchasing agent, room 511 County-City Bldg., Seattle, for water works copper tube fittings. LOW BIDS: Pacific Water Works Supply Co., 2900 1st S., $10,473; H. D. Fowler Co., Inc., 901 Lane, $11,057; Western Utilities Supply Co., 5409 Ohio, $11,116. Of Seattle. Bids opened August 9.
DM 8-10. Previous report 8-2

★RIVER SCREEN STRUCTURES— Seattle, Wash.

Award to Albert Land, Waitsburg, $9,796, by John A. Biggs, game director, Game Department Bldg., room 9, 509 Fairview Ave. N., Seattle, for Touchet River screen structures No. 1 and No. 2. Bids were opened July 16.
MS 8-10. Previous report 6-27

★PAVING, FENCING— Seattle, Wash.

Award by Seattle School District No. 1, Frank M. Brock, secretary, 815 4th Ave. N., Seattle, for the paving and fencing at Sand Point School, 6208 60th Ave. N.E., Seattle. Bids opened July 25. AWARDS—PAVING: Hot Mix Paver, 1204 E. Lynn, Seattle, $1,729. FENCING: Anchor Post Fence Division—Anchor Post Products, Inc., 4502 14th Ave. N.W., $1,523. MS 8-10. Previous report 7-26

●STEEL TOWERS— Seattle, Wash.

Bids will be opened 10 a.m., September 11, by Paul R. Hendricks, purchasing agent, 511 County-City Bldg., Seattle, for fabrication of four 26-kv. galvanized steel towers. Specifications with above office. SC 8-11

▲ASPHALTIC CONCRETE PAVING, SEWERS— Seattle, Wash.

Bids received by Port of Seattle, M. J. Weber, secretary, 406 Bell St. Terminal, Pier 66, Seattle, for asphaltic concrete paving and crushed rock surfacing of the land areas and sewers at Pier 20, East Waterway terminal, Seattle. Bids opened August 9. LOW BID: Noble W. White, Pier 65, Seattle, $20,360. ONLY OTHER BID: Ace Construction Co., 7510 Roosevelt Way, Seattle, $20,986.
SP 8-11. Previous report 7-31

★SEWERS— Seattle, Wash.

Award to Frank Coluccio, 7778 Seward Park Ave., Seattle, $32,578, by Highline School District No. 412, 253 S. 152nd, Seattle, for sewer connections for eight schools in Burien area. Plans by Hill & Ingman, consulting engineers, 1728 E. Madison, Seattle.
DM 8-11. Previous report 7-24

●GRADER BLADES— Seattle, Wash.

Bids to be opened 9:30 a.m., August 27, by King County Commissioners, 402 County-City Bldg., Seattle, for furnishing grader blades. Specifications with purchasing department, 606 County-City Bldg., Seattle. Certified check or bid bond 5%. DM 8-11

★WATER MAIN— Seattle, Wash.

Award to Argentieri & Colorassi, 1815 Jackson, Seattle, $14,323 ($11,173 plus tax) by Board of Public Works, County-City Bldg., Seattle, for installation of water mains in LID No. 6131.
DM 8-11. Previous report 8-3

★VIADUCT REPAIRS— Seattle, Wash.

Award to B & V Construction Co., 4055 21st W., Seattle, $10,533, by Board of Public Works, County-City Bldg., Seattle, for temporary repairs to the Garfield St. Viaduct in Seattle. MS 8-11. Previous report 8-3

●PUMPING UNITS, CONTROLS— Seattle, Wash.

Bids will be opened 10 a.m., August 23, by Paul R. Hendricks, purchasing agent, 511 County-City Bldg., Seattle, for two centrifugal pumping units and controls. Specificaions with above office. SC 8-11

●TEST BORINGS, STREET PAVING— Seattle, Wash.

Bids to be opened 2 p.m., August 22, by Board of Public Works, E. G. Henry, secretary, room 512, County-City Bldg., Seattle, for testing borings for north approaches to Ballard Bridge, on 15th Ave. N.W., Ord. No. 84951; street paving of Yancy St., W. Andover, W. Spokane and intervening streets, Ord. No. 85176, LID No. 6128; Paving alley 68, 69, 70 and 71 Kilbourne's Division of Green Lake Addition; Ord. No. 85281, LID No. 6133. Plans with William E. Parker, city engineer, 404 County-City Building, Seattle. $10 deposit. Certified check, cashier's check or bid bond 5%.

Quantities: 20,500 sq. yd. asphaltic concrete pavement; 17,000 sq. yd. cement concrete base, 5" thick; 3,500 sq. yd. cement concrete base, 6 thick; 2,500 sq. yd. sidewalk; 3,000', 6" and 8" cast iron water main. Alternate: 20,500 sq. yd. portland cement concrete pavement; 17,000 sq. yd. portland cement pase, 6" thick; 3,500 sq. yd. portland cement concrete base 7" thick. The test borings project is a readvertisement.
GW 8-14

●RESERVOIRS— Seattle, Wash.

Bids to be opened 2 p.m., August 29, by Board of Public Works, E. G. Henry, secretary, room 512, County-City Bldg., Seattle, for two, 10,000,000-gallon pre-stressed concrete tanks for Bitter Lake Reservoir; alternate bids on welded steel reservoirs: Ord. No. 85070. Plans with William E. Parker, city engineer, 404 County-City Bldg., Seattle. $10 deposit. Certified check, cashier's check or bid bond 5%. GW 8-14

▲SITE CLEARING— Seattle, Wash.

Bids received by Highline School District No. 401, 253 S. 152nd, Seattle, for site clearing for East Junior High School, S. 188th and 42nd St., Seattle. Plans by Waldron & Dietz, architects, room 8, 208 Columbia, Seattle. LOW BIDS: A & P Bulldozing, Seattle, $1,900; Dominic Mastro, 12245 12th S.W., Seattle, $1,995; Anderson & Johnson, 11037 Roosevelt Way, Seattle, $2,750. Bids opened August 9.
MS 8-14. Previous report 8-3

●UNDERPASSSES— Seattle, Wash.
(Estimated cost $1,750,000)

Bids to be opened 2 p.m., September 5, by Board of Public Works, E. G. Henry, secretary, 512 County-City Bldg., Seattle, for the Broad St.-Aurora Ave. underpasses. Plans with William E. Parker, city engineer, 404 County-City Bldg. $10 deposit. Certified check, cashier's check or bid bond 5%. The work will be bid as a single contract and will involve the entire project with the exception of the reinforced concrete roadway slabs at the intersections of Aurora Ave. with Broad and Mercer Streets. The slabs are in place now and the underpass will be constructed under them without interruption of traffic on Aurora.

The project involves underpasses at Aurora Ave. connecting Broad and Mercer Streets and at Broad between the intersection of Dexter and Mercer. Broad St. will be excavated as a depressed roadway from 6th Ave. N. to 8th Ave. N. Retaining walls, sidewalks, stairs, access ramps, railing, sewer and watermain relocations, including sewer pressure siphon, drains, street lighting, wiring, excavation and paving are part of the contract.

Quantities: removal of 17 buildings, clearing and grubbing; 91,500 c.y. common excavation; 33,000 cy. select backfill; 5,600' of steel H-piles; 650,000 lbs. steel sheet piling; 188' concrete piling; 7,900 c.y. concrete; 1,560,000 lb. reinforcing steel; 3,700' aluminum bridge railing; 29,500 sq. yd. of 8" concrete paving; 32 steel lighting poles; 5,170' of 6" to 66" sewer; 32 manholes; 1,360' of 24" and 30" reinforced concrete culvert; 1,690' of 6" to 20" watermains. DM 8-14

★STREET PAVING— Seattle, Wash.

Award to Northwest Asphalt Co., 7343 E. Marginal Way, Seattle, $18,418, by King County Commissioners, W. R. Carroll, county purchasing agent, room 606, County-City Bldg., Seattle, for paving 1.1 mi. of S.W. 130th and Shorewood Drive. Plans by D. L. Evans, county road engineer, 905 County-City Bldg., Seattle.
GW 8-15. Previous report 7-31

●TANK REPAIRS— Seattle, Wash.

Bids to be opened 2 p. m., September 5, by 13th Naval District, Public Works Office, room 100, Building 232, U. S. Naval Station, Seattle, for replacement of steel bottom in diesel oil tank No. 99 and includes providing a sand mat and new welded bottom plates in the existing tank approximately 39' in diameter, at U. S. Naval Supply Depot, Seattle; NBy-6554; Spec. No. 6554/56. Plans with public works office above address. $25 deposit. Bid bond 20%. GW 8-15

▲PAVING, CURBING— Spokane, Wash.

Bids received, found to be over estimate and referred to Department of Public Works by City Council, City Hall, Spokane, for paving and curbing 24th Ave. from Myrtle St. to Freya St. and for paving 32nd Ave. from Lincoln Drive to Jefferson St. in Spokane. Bids opened August 9.
EM 8-11. Previous report 7-25

▲TRANSMISSION LINE— Sultan, Wash.

Bids received August 8 by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for construction of 22.5 miles 345-kv single circuit steel towers, Chief Joseph-Covington line No. 1, Sultan-Covington section, Schedule 1, 3 miles northwest of Sultan, Snohomish and King Counties, Wash.; Inv. No. 8102. LOW BIDS: W. L. Ridge Construction Co., E. 3122 Sharp Ave., Spokane, $311,054; Lee Hoffman, P. O. Box 37, Beaverton, $337,605; Pettijohn Engineering Co., 4145 N.E. Cully Blvd., Portland, $366,566. WB 8-10. Previous report 7-27

★STREET IMPROVEMENT— Sunnyside, Wash.

Award to Smith Asphalt Paving Co., Sunnyside, $12,177, by City Council, City Hall, Sunnyside, for street improvement projects in Sunnyside. Bids opened August 6.
SC 8-11

●PLANTMIX BITUMINOUS PAVING— Sunset Highway, Wash.

Bids to be opened 10 a.m., August 28, by Bureau of Public Roads, F. E. Andrews, division engineer, 753 Morgan Bldg., Portland, for 14.471 mile plantmix bituminous paving, Washington Forest Highway Project 9-A11, B4, Sunset Highway, Wenatchee National Forest, Kittitas and Chelan counties, Wash. Plans with BPR office in Portland.

Quantities: 2,800 ton asphalt; 41,000 ton plantmix; 830 c.y. cover aggregate; 28,000' beam guard rail. DM 8-14

★WATER MAINS— Tacoma, Wash.

Award on proposal 1 to Paine & Galucci, 1521 S. Grant, Tacoma, $108,740, by Board of Contracts and Awards, room 404, City Hall, Tacoma, for furnishing and installing 6" to 16" cast iron water mains in LID No. 5273. Bids were opened June 25.
MS 8-10. Previous report 6-26

★SIDEWALKS— Tacoma, Wash.

Award to George Madsen Company, 6420 6th Ave., Tacoma, $3,321, by Board of Contracts and Awards, room 404, City Hall, Tacoma, for placing cement concrete sidewalks on S. 70th St. from Sheridan to L St., on west side of S. M St. from S 70th

St. north 300' to existing walk and on south side of S. 68th St. from Sheridan to S. M St., LID No. 2258. Bids opened July 23.
MS 8-10. Previous report 7-19

★WATER MAIN— Tacoma, Wash.

Award to Paine & Gallucci, 1521 S. Grant, Tacoma, $4,732, by Board of Contracts and Awards, room 404, City Hall, Tacoma, for reconstructing the 16" cast iron water main over and across Log Sluiceway Span in E. 11th St., near Canal St. in Tacoma.
MS 8-11. Previous report 7-19

▲UNDERGROUND VAULTS— Tacoma, Wash.

Bids received by Board of Contracts and Awards, room 404, City Hall, Tacoma, for construction of reinforced concrete underground vault No. 2 in Highland Hill Development, 6th Ave. and Pearl St., Tacoma; and for three reinforced concrete underground vaults in Villa Plaza, Lakewood area, south of Tacoma. LOW BIDS—HIGHLAND HILL: Concrete Construction Co., 3101 S. Lawrence, $5,044; Woodworth & Co., Inc., 1200 E. D St., $5,320; Korsmo Bros., 155 E. 123rd, $5,825. VILLA PLAZA: Concrete Construction Co., $13,755; Korsmo Bros., $14,509; Sawyer Construction Co., $14,514. All of Tacoma.
DM 8-14. Previous report 8-10

● DRAINAGE— Tacoma, Wash.

Awards by Pierce County Commissioners, Courthouse, Tacoma, for improvements to streets in Tacoma, including construction of catch basins and corrugated iron pipe culverts to provide satisfactory drainage from dry wells in Plats Nos. 2 and 3 of Bellwood Estates, CRP 1588; and construction of catch basins, concrete culvert pipe and other work in University Place, CRP 1575. AWARD—Bellwood Estates: Milone & Tucci, Inc., 3215 S. "M," $12,799. OTHER BIDS: Paine & Galucci, 1521 S. Grant, $13,043; Kendall Construction Co., 3211 Center, $15,088. AWARD—University Place: Ricco & Casperson, 3018 N. Orchard, 30,933. OTHER BIDS: Paine & Galucci, $31,587; Milone & Tucci, Inc., $33,615. All of Tacoma. Bids were opened August 14.
GW 8-15. Previous report 8-3

▲STREET IMPROVEMENTS— Wapato, Wash.

Bids received by City Council, B. McAuliffe, city clerk, City Hall, Wapato, for grading, draining, ballasting and surfacing streets with bituminous treatment (approximately 51,000 sq. yd.) and construction of curbs and gutters in Wapato. Plans by Gray & Osborne, consulting engineers, 228 S. 2nd Ave., Yakima. ONLY BID: Smith Asphalt Co., Sunnyside, $77,114. Bids were opened August 10 and held under advisement.
IG 8-15. Previous report 8-8

★GAS MAIN— Vancouver, Wash.
(Estimated cost $62,000)

Award to Hanning & Gonzales, Portland, $39,234, by Portland Gas & Coke Co., 920 S.W. 6th Ave., Portland, for installation of 19,000' of gas distribution main on north outskirts of Vancouver, to serve Lake Shore residential area.
WB 8-11

★SANITARY SEWERS— Vancouver, Wash.

Award to Paul Ferneding, 2111 E. 27th St., Vancouver, $7,574, by city purchasing agent, 721 Washington St., Vancouver, for sanitary sewers; LID 85-S. Bids were rejected as too high on LID 84-S. Bids opened August 6.
WB 8-11. Previous report 7-27

▲STATE HIGHWAY PROJECTS— Vancouver, Wash.

Bids opened by Washington State Highway Commission, W. A. Bailey, district engineer, Vancouver, for highway construction.

FISHER ROAD TO CAMAS—No bids received.

FOSTER CREEK, BURMA ROAD INTERSECTIONS—BIDDERS: C. A. Gerard and G. S. Electric Co., 4727 Findlay St., Seattle, $7,392; Rochat Electric Co., 4636 N. Williams Ave., Portland, $8,127.

Bids opened August 9. Bids on PSH No. 12, originally advertised for this date, will be opened August 14 in Olympia.
WB 8-11. Previous report 7-25

● STREET IMPROVEMENTS— Vancouver, Wash.

Bids to be opened 1:30 p. m., September 10, by city purchasing agent, Robert Moisant, 712 Washington St., Vancouver, for street improvements, part of six-year plan. Plans with public works office. $15 deposit. Bid bond 5%. Includes resurfacing 22nd St. from Main to "H"; repair and resurfacing of 11th St. from Washington to Main; realignment of Columbia St. from 11th to 12th; widening and resurfacing of 8th St. and Port Way from Hill St. to Miller Ave. Quantities: 1,150 sq. yd. pavement removal; 2,100 tons asphaltic concrete wearing course; 330 tons asphaltic concrete levelling course; 370 c.y. crushed rock; 310' concrete curbs; 400 c.y. excavation.
WB 8-14

★EARTHWORK, STRUCTURES— Warden, Wash.

Award to Syblon-Reid Construction Co., Box 587, Warden, $18,888, by Bureau of Reclamation, Box 368, Ephrata, for earthwork and structures, Block 45, Extension East Low Canal Laterals, about 5 mi. south of Warden, Adams County, Columbia Basin Project, Wash.; Spec. No. 117-380.
SP 8-10. Previous report 7-12

● SITE GRADING— Washougal, Wash.

Bids to be opened 8 p. m., August 20, by School District No. 112, Clark County, Teresa White, clerk, Administration Office, Washougal, for site grading for proposed new high school. Plans with Freeman, Hayslip, Tuft & Hewlett, architects, 2040 S.W. 3rd Ave., Portland. Certified check, cashier's check or bid bond 5%.
WB 8-14. Previous report 7-24

● PUMPING UNITS— White Bluffs Pumping Plant, Wash.

Bids to be opened September 25 by Bureau of Reclamation, Building 53, Denver Federal Center, Denver, Colo., for furnishing four motor-driven, horizontal centrifugal type pumping units, each having capacities of 44.4 cfs under a total head of 85' for White Bluffs Pumping Plant No. 1, Columbia Basin Project, Wash.; Inv. No. DS-4748. Specifications with Denver office.
DM 8-11

★TIMBER BRIDGES—White Salmon, Wash.

Award by U. S. Forest Service, Regional Supply Officer, 729 N.E. Oregon St., P. O. Box 4137, Portland, for construction of White Salmon River Bridge and Cascade Creek Bridge on Gifford Pinchot National Forest, approximately 22 mi. north of White Salmon, Wash.; Bid No. 17. AWARD: B. F. & H. Construction Co., 1217 S.W. 19th Ave., Portland, (White Salmon) $14,249; (Cascade) $11,608; (Total) $25,853. OTHER BIDS: Gaylord Construction Co., 6432 N.E. 30th Ave., Portland, (Total) $33,503; Roger E. Holmes, Olympia, $43,054. Bids opened August 7.
WB 8-11. Previous report 7-26

● SURFACING— Yakima, Wash.

Bids will be opened 11 a. m., August 23, by Yakima County Commissioners, Courthouse, Yakima, for loading, hauling and truck spreading of surfacing material on county roads in vicinities of Yakima, Moxee, Harrah and Buena, Wash.; CRP No. 619, CRP No. 624, Local CRP Special Maintenance No. 253, CRP Special Maintenance No. 254. Specifications with County Road Engineers at above address. $2 deposit. Certified check or cashier's check 5%.
IG 8-10

● STREET IMPROVEMENTS— Yakima, Wash.

Bids to be opened 10 a. m., August 20, by City Council, John Smith, city clerk, City Hall, Yakima, for grading, draining, ballasting, surfacing with asphaltic concrete and construction of curbs and gutters on S. 5th Ave., Yakima. Plans with John Mayo, city engineer, City Hall, Yakima. Cash, cashier's check 5%.

Quantities—SCHED. 1—Curbs and Drainage: 100 c.y. trench excavation; 400' concrete curb and gutter; 16 surface inlets; 300', 8" drain pipe. SCHED. 2—Paving 4,300 c.y. excavation and grading; 2,100 ton crushed stone base course; 2,400 ton asphaltic concrete manholes.
IG 8-13

IDAHO

▲STATE HIGHWAY PROJECTS— Boise, Idaho

Bids received by Department of Highways, 603 Main St., Boise, for highway construction on which bids were opened August 7.

TETON RIVER BRIDGE—Construction of 105' concrete bridge over Teton River on Cache-Richvale road in Teton County; FAP No. S-6822(1). Completion date November 1, 1956.

LOW BID: W. R. Cahoon Construction Co., Box 449, Pocatello, $22,588. ONLY OTHER BID: J. S. Horton, 235 Washington Ave., Pocatello, $24,780.

AMMON EAST—Recondition existing roadbed, construction of surface and roadmix bituminous surface on 3.505 mile Ammon-Ozone Road in Bonneville County; FAP No. S-6710(1). Completion time 45 calendar days.

LOW BID: Duffy Reed Construction Co., Box 1092, Twin Falls, $70,542. ONLY OTHER BID: Morrison-Knudsen Co., Inc., Box 450, Boise, $71,097.

THATCHER-NITER—Construction of roadway, bituminous surface treatment and 26.6' concrete bridge on 6.931 mile SH No. 34 in Franklin and Caribou Counties; FAP No. S-1778(3). Completion date August 1, 1957.

LOW BIDS: Marion J. Hess, Contractor, Box 247, Malad City, $673,246; Wangsgaard Construction Co., Logan, Utah, $295,417; Fife Construction Co., Brigham City, Utah, $746,385.
SP 8-10. Previous report 7-25

★LAWN MOWING EQUIPMENT, BLACKTOP— Boise, Idaho

Awards announced by Independent School District, Clyde Langlois, assistant superintendent, 1207 Fort St., Boise, for lawn mowing equipment and for blacktop for schools in Boise. Bids opened July 16. AWARDS—BLACKTOP: Asphalt Paving & Construction Co., 3206 Pleasanton, Boise, $2,295 (Koelsch School), $830 (Hawthorne School). MOWING EQUIPMENT: Salt Lake Hardware Co., 702 S. 8th St., Boise, $4,900.
SP 8-10. Previous report 7-7

★STATE HIGHWAY PROJECTS— Boise, Idaho

Awards announced by Department of Highways, 603 Main St., Boise, for highway construction on which bids were opened July 24.

EDEN CORNER-GREENWOOD SCHOOL—Reconstruction of roadway and bituminous surface treatment on 13.541 mile State Highway No. 25 and maintenance stockpiles east of Hazelton and west of Eden, Jerome County; FAP No. F-2441(5), Stockpile Project No. 151. Completion date September 15, 1957.

AWARD: Twin Falls Construction Co., Box 1081, Twin Falls, $622,110.

ELMORE COUNTY LINE-BLISS—Resurfacing and placing roadmix bituminous surface on 7.165 mile U. S. Highway 30, and furnishing crushed gravel in stockpiles, Gooding County; FAP No. F-2023(8), Stockpile Project No. 167.

AWARD: Twin Falls Construction Co., Twin Falls, $151,965.

WEISER BRIDGE, HORNET CREEK ROAD APPROACHES—Construction of 120' concrete bridge over Weiser River and grading and draining approaches on 0.246 mile road, Adams County; FAP No. S-3894(1). Completion date December 1, 1956.

AWARD: Colonial Constructon Co., N. 615 Mansfield Ave., Spokane, Wash., $45,718.
SP 8-10. Previous report 7-27

● STATE HIGHWAY PROJECTS— Boise, Idaho

Bids to be opened 2 p. m., August 21, by Department of Highways, 603 Main St., Boise, on highway construction. Specifications with above office. $5 deposit. Cer-

tified check, cashier's check or bid bond 5%.

BANKS-CROUCH—Install two pipe culverts, restore roadway on SH No. 17, Boise County; FAP No. ER-26(1).

Quantities: 5,780 c.y. unclassified excavation; 90' of 48" bituminous coated corrugated metal pipe; 140' of 132" bituminous ccoated corrugated plate pipe.

COUNCIL-MESA — Furnish crushed rock and cover coat material in stcokpiles adjacent to U. S. Highway No. 95 at Council maintenance yard and north of Mesa, Adams County; Stockpile Proj. No. 130.

Quantities: 15,000 ton crushed rock; 3,000 ton cover coat material; 2,500 stripping quarry.

IDAHO FALLS-RIGBY—Roadbed widening, plantmix bituminous surfacing on 0.423 mile U. S. Highways 20 and 191 at two railroad crossing 1½ mile northeasterly of Idaho Falls and ½ mile northeasterly of Rigby, Bonneville and Jefferson counties; FAP No. F-6471(7).

Quantities: 2,240 c.y. borrow; 3,500 yd. mi. haul; 1,980 ton crushed gravel base course; 2,130 gal. asphalt road material for prime coat; 46 ton same for plantmix; 840 ton plantmix bituminous surfacing; 42 c.y. concrete class A.

SHOSHONE HIGHWAY YARD—Furnishing 10,000 ton crushed gravel surfacing, 2,000 ton cover coat material in stockpiles in state highway yard at Shoshone, Lincoln County; Stockpile Project No. 161. DM 8-11

● STATE HIGHWAY PROJECT— Boise, Idaho

Bids to be opened 2 p. m., August 28, by Department of Highways, 603 Main St., Boise, for road construction and roadmix bituminous surfacing on 3.544 mile of Paradise Valley Road; grading, draining 1.260 mile of Pasadena Valley Road, Elmore County; FAP Nos. S-39-3(2), S-3810(2).

Quantities: 61,500 c.y. unclassified excavation; 9,550 c.y. borrow; 6,350 yd. mi. haul; 11.3 c.y. concrete classe A. DM 8-11

● STATE HIGHWAY PROJECTS— Boise, Idaho

Bids will be opened 2 p. m., August 28, by Department of Highways, 603 Main St., Boise, for an additional highway construction project. Specifications with above office. $5 deposit. Bid bond 5%. Completion time August 15, 1957.

GEORGETOWN - NOUNAN ROAD — Construction of base and roadmix bituminous surface on 6.402 mile road in Bear Lake County; FAP No. S-1817(3).

Quantities: 47,500 gal. asphalt; 18,200 ton crushed gravel; 390 ton asphalt road material; 340 ton bituminous surface; 1,500 ton covercoat material.

SP 8-15. Previous report 8-11

LOW POWER REACTOR—Idaho Falls, Idaho
(Estimated cost $1,225,000)

The National Reactor Testing Station near Idaho Falls has been selected by the Atomic Energy Commission as the site of the Argonne Low Power Reactor. This prototype reactor is one of several types which are being developed or are under consideration as power sources for remote military installations. Construction of the plant which will generate 200 kw. of electric power is scheduled to start the latter part of 1956. The Argonne National Laboratory of the ATC is in charge of the overall development of the reactor. Pioneer Service and Engineering Co., Chicago, Ill., is providing architect-engineer services for the non-reactor components of the plant. DM 8-14

● ACCESS ROAD— Idaho Falls, Idaho

Bids to be opened 2:30 p. m., M.S.T., August 29, by the Idaho Operations Office, U. S. Atomic Energy Commission, 550 Second St., Idaho Falls, for the construction of an Army Reactor Area Access Road at the National Reactor Testing Station in Idaho; Inv. AT (10-1)-847. Work will include the construction of approximately ¾ mile of 32' roadway.

Principal quantities: 1,900 c.y. unclassified excavation; 9,900 c.y. borrow; 240 hrs. rolling; 750 M gals. water; 4,450 c.y. select base course; 1150 tons ¾" crushed gravel surface course; 250 c.y. binder material; 80', 12" pipe culverts; 80', 36" pipe culverts. RG 8-15

● LEVEE REPAIR— Kootenai River, Idaho

Bids will be opened 2 p. m., August 29, by Corps of Engineers, Seattle District, 4735 E. Marginal Way, Seattle, for 1956 levee repair in Districts 1, 2, 5 and 11, Kootenai River, Idaho; CIVENG-45-108-57-6. Specifications with above office. Bid bond 20%. Completion time 120 calendar days.

Quantities—SCHEDULE A—DISTRICT 2: 29,200 sq. yd. stripping; 75,500 c.y. levee embankment; 18,200 c.y. mi. overhaul. SCHEDULE B—PART 1—DISTRICT 1: 100,-200 sq. yd. stripping; 309,500 c.y. levee embankment; 16,400 c.y. overhaul. PART 2—DISTRICT 7: 193,800 sq. yd. stripping; 262,-200 c.y. levee embankment; 168,900 c.y. mi. overhaul. SCHEDULE C—PART 1 — DISTRICT 5: 45,900 sq. yd. stripping; 116,000 c.y. levee embankment; 60,400 c.y. mi. overhaul. PART 2—DISTRICT 11: 4,200 sq. yd. stripping; 2,000 c.y. levee embankment. Included in all schedules are reshaping existing levee and pumping (not in part 2, District 11). SP 8-11

▲ CLEANING, TREATING, PAINTING— Lucky Peak Dam, Idaho

Bids received by Corps of Engineers, Walla Walla District, Bldg. 602, City-County Bldg., Walla Walla, for cleaning, treating and painting two intake emergency gates, one intake bulkhead and nine trashrack panels at Lucky Peak Dam, Ada County, Idaho; CIVENG-45-164-57-3. Bids opened August 7. LOW BIDS: Northwestern Sandblasting Co., Box 1314, Boise, $7,350; Wiscombe Painting Co., 1610 N. Chicago St., Salt Lake City, Utah, $8,915; Industrial Painters, Route 3, Box 1220, Bremerton, Wash., $9,310. SP 8-10. Previous report 7-17

MONTANA

● CURBWALK, CURB AND GUTTER— Billings, Mont.

Bids to be opened 5 p. m., August 28, by City Council, City Hall, Billings, for construction of curbwalk on lots 22 through 40, Block 1, Neidemire Subdivision, SID No. 687; curb and gutter and drive approaches on 1200 block of N. 24th, SID No. 688, in Billings. Plans with city council, above address. Certified check 10%. EE 8-14

★ DRAINAGE INSTALLATION— Butte, Plains, Mont.

Award to Aaron Miller, Kalispell, Mont., $9,610, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, Ore., for drainage installation at Hot Springs substation, 17 miles northeast of Plans in Sanders County, and at Silver Bow County, Mont.; Inv. No. 8101. WB 8-11. Previous report 8-4

★ SIDEWALKS— Butte, Mont.

Award to F. J. Allen, 2717 Bayard St., Butte, $11,782, by Housing Authority Commissioners, Joe H. Sullivan, manager, at the office of Silver Bow Homes, Curtis St., Butte, for recovering 112 rear sidewalks with 4" of concrete. Bids were opened July 23 and held under advisement.

GW 8-15. Previous report 7-6

● PIPE, GRAVEL— Great Falls, Mont.

Bids will be opened 8 p. m., August 20, by Fred L. Hill, city clerk, Civic Center, Great Falls, for furnishing 9,700' mechanical joint cast iron pipe; for furnishing, crushing and stockpiling 10,000 c.y. of ⅜" crushed gravel at city's stockpile on the highway by-pass near east approach to Warden Memorial Bridge over Missouri River on 10th Ave. S. in Great Falls. Specifications with City Engineer at above address. Certified check 10%. SC 8-10

★ WATER TANK— Kalispell, Mont.

Award to Pittsburgh-Des Moines Steel Co., Des Moines, Iowa, $33,926, by City Council, City Hall, Kalispell, for fabrication and erection of a 100,000-gallon steel water tank in Highland Park area in Kalispell. Plans by Morrison-Maierle, Inc., consulting engineers, 910 Helena Ave., Helena.

GW 8-15. Previous report 8-10

● GRADING, SURFACING— Missoula, Mont.

Bids will be opened 10 a.m., August 30, by Bureau of Public Roads, Missoula, for grading and surfacing 3.715 mile Yellowstone Trail Highway, between Cyr Bridge and Alberton, Interstate Highway, U. S. Route 10, Lolo National Forest Mineral County, Western Mont.; FHP No. 8-A7. Specifications with above office.

Quantities: 48 acre clearing; 30 acre grubbing; 380,000 c.y. excavation; 1,000,000 overhaul; 173,800 c.y. mi. overhaul; 29,400 c.y. crushed gravel; 54,000 gal. asphalt; 142 c.y. concrete; 20,000 lb. reinforcing steel; 3,000' culvert pipe. SP 8-11

▲ SURFACING— Missoula, Mont.

Bids received by Bureau of Public Roads, 342 Post Office Bldg., Missoula, for surfacing 15. 702 mile Y.G.B. Line highway, Lewis and Clark National Forest, Meagher County, Mont.; FHP No. 32-B5, C7, J2. BIDDERS: Max J. Kuney, N. 120 Ralph, Spokane, $196,-746; McLaughlin, Inc., Great Falls, $199,999; Kiely Construction Co., Butte, $223,726. Bids opened August 10.

WB 8-14. Previous report 7-24

★ ROAD CONSTRUCTION—Missoula, Mont.

Award by U. S. Forest Service, regional forester, room 1036, Federal Bldg., Missoula, for clearing, grubbing, common and rock excavation and portland cement concrete paving, West Fork Bitterroot Road Proj. No. 91C and Blue Joint Road Proj. No. 362 for 5.98 mile including a 162' steel and timber bridge, Bitterroot National Forest, Ravalli County, Mont. AWARD: Kiely Construction Co., P. O. Drawer 246, Butte, $258,-877. 2ND LOW: Union Construction Co., Missoula, $264,800. 3RD LOW: Bud King Construction Co., Missoula, $283,688. Bids opened August 7.

DM 8-14. Previous report 7-21

WYOMING

▲ REVETMENT WORK— Wyo.

Bids received by Bureau of Public Roads, room 242, Bldg. 40, Denver Federal Center, Denver, Colo., for revetment work at Buffalo Fork Bridge, Togwotee Pass, Teton County, Wyo., FHP No. 2-M3. LOW BIDS: Charles M. Smith, Box 508, Thermopolis, $41,950; Eagle Construction Co., Box 141, Loveland, Colo., $47,486; Husman Bros., Inc., Sheridan, $56,335. Bids were opened August 9. GW 8-14. Previous report 7-28

▲ STREET WIDENING— Sheridan, Wyo.

Bids received by City Council, City Hall, Sheridan, for widening of Main St. between Dow St. and Burkitt St. within SID No. 46 in Sheridan. Bids opened August 6. LOW BID: Husman Bros., Inc., 1200 Big Horn Ave., Sheridan, $54,244.

SP 8-11. Previous report 7-20

● WATER METERS— Sheridan, Wyo.

Bids will be opened 10 a. m., August 20, by C. Harold Campbell, city clerk, City Hall, Sheridan, for furnishing propeller type main line water meters with class 150 cast iron bodies and bell and spigot ends, fob Sheridan. Specifications with above office. Cashier's check 10%. SP 8-11

★ WATER SUPPLY ADJUSTMENTS— Sheridan, Wyo.

Award by Director of Construction Service, Veterans Administration, room 2707 Munitions Bldg., Washington, D. C., on item 1 only, elevated storage tank. Item 2, alterations and additions to outside water distribution system has been deleted. AWARD: Chicago Bridge and Iron Co., 1700 Walnut St., Philadelphia, Penn., $139,670.

LY 8-15. Previous report 7-18

SEWER LINES— Torrington, Wyo.
(Estimated cost $121,000)

Preliminary plans completed by Harold Hoskins & Associates, consulting engineers, 725 9th St., Greeley, Colo., for construction of sewage treatment and disposal plant for Torrington. LY 8-11. Previous report 2-9

UTAH

▲RUNWAY PAVING— Milford, Utah

Bids received by Utah State Director of Aeronautics, room 217, Administration Bldg., Salt Lake City Municipal Airport No. 1, Salt Lake City, for paving the N-S runway of Milford Municipal Airport at Milford. LOW BIDS: Whiting and Haymond, Box 88, Springville, $23,589; Ralph Child, 1200 E. 4th South, Springville, $25,927; Lloyd B. Moore, Ogden, $27,350. Bids were opened August 7. GH 8-14. Previous report 7-27

●PAVING— Ogden, Utah

Bids will be opened 10:30 a. m., August 24, by Ogden City Corporation, James R. Eide, city purchasing agent, City Hall, Ogden, for construction of Paving District No. 175 in Ogden. Specifications with city engineer at above address. SC 8-11

▲ROAD CONSTRUCTION— Ogden, Utah

Bids received by Bureau of Public Roads, room 473, Federal Bldg., Ogden, for construction of 3.559 mi. Vernal-Manila Forest Highway Project in Uintah County, Utah; FHP No. 6-D. Bids opened August 7. LOW BIDS: L. A. Young Construction Co. and Vernal Sand & Gravel, Richfield, $189,951; W. W. Clyde & Co., Springville, $202,419; Whiting & Haymond Contractors, Springville, $210,793. Low bidder has been recommended for award.

SP 8-11. Previous report 8-1

★STATE HIGHWAY PROJECT— Salt Lake City, Utah

Award to Thorn Construction Co., Box 111, Springville, $366,895, by Utah State Road Commission, State Capitol, Salt Lake City, for construction of a 3½" plantmix bituminous surface road, State St. between Midvale Junction and Draper Cross Roads, in Salt Lake County, Utah; State Proj. No. 1568. GH 8-10. Previous report 7-17

▲STATE HIGHWAY PROJECT— Salt Lake City, Utah

Bids received by Utah State Road Commission, State Capitol, Salt Lake City, for construction of 1.913 mile of 3¼" bituminous concrete surfaced road on 7th E. St. (F.A.S. Route No. 140) between S. Temple and 13th South St. in Salt Lake County, Utah; FAP No. US-0140(1). Bids opened August 7. LOW BIDS: Gibbons & Reed Co., Box 2429, Salt Lake City, $595,900; Jack B. Parson Construction Co., Smithfield, $631,140; W. W. Clyde & Co., Springville, $638,526.

SP 8-11. Previous report 7-25

SEWAGE TREATMENT PLANT— Salt Lake City, Utah

Plans announced by Salt Lake City Corporation, Roy W. McLeese, city engineer, City-County Bldg., Salt Lake City, for construction of new sewage plant to serve Salt Lake Municipal Airport area, including proposed new administration building, in Salt Lake City. Plans by Templeton & Linke, engineers, 500 Dooly Bldg., Salt Lake City. GH 8-14

■SEAL COATING— Salt Lake City, Utah

Planholders announced for the furnishing and applying bituminous seal coat on new instrument runway and taxiway at Salt Lake City Municipal Airport. Bids to be opened 10:30 a. m., August 21, by Salt Lake City Corporation, Roy W. McLeese, city engineer, City-County Bldg., Salt Lake City. Plans with city engineer, above address. $15 deposit. Bid bond 5%.

Planholders: Gibbons & Reed Construction Co., 825 W. 9th North, Salt Lake City; Contracting Corp., Bountiful; Jack Parson, Smithfield. GH 8-15. Previous report 8-2

Previous Report at the end of an item signifies the previous date the item was published in Pacific Construction Daily.

●SEWAGE TREATMENT PLANT— Vernal, Uta

Bids will be opened 7:30 p. m., August 2 by City Council, City Hall, Vernal, for construction of new sewage treatment plant Vernal. Plans with Neff Engineering Co. consulting engineers, 2500 Evergreen Ave. Salt Lake City. $25 deposit. Bid bond 5% GH 8-1

ALASKA

▲APRON PAVING— Ladd AFB, Alaska

Bids received by Corps of Engineers, Alaska District in the Seattle Branch office, 4735 E. Marginal Way, Seattle, for paving aprons Nos. 1 and 2 at Ladd AFB, Alaska; ENG-95-507-57-8. LOW BIDS: Morrison-Knudsen Co., Inc., 603 Hoge Bldg., $1,702,832; Green Construction Co., Securities Bldg., and Birch Construction Co., Central Bldg., combined bid, $1,718,229; Peter Kiewit Sons' Co., 1300 Aloha, $1,734,074. Of Seattle. Government estimate, $1,784,783. Bids were opened August 14.

GW 8-15. Previous report 8-9

■SANITARY SEWERS— Wrangell, Alaska

Planholders announced on sanitary sewers in Wrangell on which bids will be opened 10 a. m., August 22, by Alaska Public Works, Box 1181, Juneau; Proj. Aaa 50-A-104.

Planholders: Hall Electric Co., Box 1062, Fairbanks; William D. Buck, Box 1618, Anchorage; Empire Construction Co., 6224 S.W. Bancroft, Portland, Ore.; Morrison-Knudsen Co., Inc., Box 320, Anchorage; Collins Concrete and Steel Pipe Co., 3841 N. Columbia Blvd., Portland; Berg Construction Co., Box 276, Juneau; Haligren Co., 1252 1st Ave. S., Seattle, Wash.; Century Metal Works, 7126 W. Marginal Way, Seattle. JU 8-14. Previous report 7-18

Mr. Architect . . .

you can counteract the high costs of construction

. . . by placing your official advertisements for bids in the construction trade journals of the Northwest—PACIFIC BUILDER & ENGINEER (1st Saturday of each month), PACIFIC ARCHITECT AND BUILDER (3rd Saturday of each month), and CONSTRUCTION NEWS BULLETIN (2d, 4th and 5th Saturdays).

They reach more contractors, subcontractors and suppliers than any twenty newspaper-type publications.

That's why more consulting engineers — and more school districts, cities, counties, state departments, PUDs and federal bureaus — place their advertisements for bids in our columns than in any other publication in the entire Northwest.

IF YOU WISH THE *LOWEST COMPETITIVE BIDS CONSISTENT WITH RESPONSIBLE WORKMANSHIP* we can get them for you, whether your job is located in the Willamette Valley or in the Blue Mountains . . . in Western Washington or the Inland Empire . . . in the Coeur d'Alene or the Snake River Valley . . . in the Flathead or on the Yellowstone . . . in the Wasatch country or in Wyoming.

PACIFIC BUILDER & ENGINEER, Inc.

2418-Third Ave., Seattle 1, Wash.

CONTRACTS PENDING

BUILDING PROJECTS

Bids Must Be In — Date Printed in Pacific Construction Daily

OREGON

Aug 20—Cherry Grove—School Addition 8-15
Aug 20—Kings Valley—School Addition 8-7
Aug 20—Klamath Falls—Remodel Natatorium 8-7
Aug 21—Elkton, Scottsburg—Telephone Building 8-11
Aug 21—Eugene—Lodge 8-11
Aug 21—Portland—Acoustical Tile 8-9
Aug 22—Molalla—School Addition 8-11
Aug 23—Summer Lake—Residence, Pump House 8-7
Aug 24—Condon—Church 8-11
Aug 24—Oregon City—Church Addition 8-9
Aug 28—Estacada—Microwave Building 8-15
Aug 30—Eugene—Church 8-9
Sept 7—Portland—Steam Distribution Facilities 8-14

WASHINGTON

Aug 20—Enumclaw—Safeway Store 8-11
Aug 20—Everett—School Additions, Alterations 8-7
Aug 20—Fort Steilacoom—Heating System 8-10
Aug 20—Indian Island Annex—Building Reroofing, Rehabilitation 8-4
Aug 20—Longview—Roofing 8-1
Aug 20—Richland—Painting 8-8
Aug 21—McChord AFB—Modulator Room Addition 7-28
Aug 21—Pullman—Laboratory Addition 8-7
Aug 21—Richland—Dismantling, Replacing Building 7-27
Aug 21—Tacoma—Fife Gymnasium 8-4
Aug 21—Vancouver—Packing Shed 8-8
Aug 22—Chehalis—Dormitory Cottages 7-25
Aug 22—Poulsbo—High School 8-8
Aug 22—Seattle—Garage 8-11
Aug 22—Tacoma—Interior Painting 8-14
Aug 24—Seattle—Administration Office 8-15
Aug 24—Vancouver—Shore Structures 8-10
Aug 27—Tacoma—Steam, Water Line Repairs 8-10
Aug 28—Amboy—Residences, Office Building 8-15
Aug 28—Pasco—College Buildings 8-7
Aug 28—Seattle—Denny Hall Remodeling 7-24
Aug 28—Tonasket—Telephone Building 8-3
Aug 29—Fort Lewis—Kitchen Rehabilitation 8-7
Aug 30—Othello—School Additions 8-10
Aug 30—Seattle—Painting 8-11
Aug 30—Seattle—Boiler House Alterations 8-11
Aug 30—Toppenish—Elementary School 8-2
Aug 31—Pullman—Women's Dormitories 7-10
Aug 31—Pullman—College Housing 7-10
Sept 5—Tacoma—School Addition 8-10
Sept 11—Grand Coulee—Tour Center 7-28

IDAHO

Aug 22—Lewiston—Market Building 8-11
Aug 23—Caldwell—Dormitory, Dining Hall 8-9
Sept 12—Idaho Falls—Building Additions and Modifications 8-14

MONTANA

Aug 20—Bozeman—Bleachers, Basketball Floor 8-9
Aug 21—Billings—Office Building 8-8
Aug 22—Bigfork—Vocational Shop Building 8-10
Aug 22—Roosville—Painting, Roofing 8-11
Aug 23—Glasgow AFB—Infirmary 7-25
Sept 25—Roundup—Post Office 8-3
Aug 27—Billings—Courthouse 7-31
Aug 28—Anaconda—Snow Shelter 8-15
Aug 29—Great Falls—Building 8-11
Sept 12—Billings—Hospital Addition 8-14

WYOMING

Aug 20—Thermopolis—Residence 8-9
Aug 22—Cheyenne—Elementary School 8-1
Aug 24—Rawlins—Post Office Extension, Remodeling 8-11
Aug 29—Jackson—High School Addition 8-11

UTAH

Aug 28—Hill AFB—Painting, Siding, Roofing 8-14
Aug 30—Salt Lake City—Office Building 8-7

ALASKA

Aug 20—Palmer—Prefabricated Shop Building 7-31
Aug 21—Fort Hall Indian Reservation—Warehouse 8-4
Aug 22—Haines, Skagway—Roofing 8-4
Aug 29—College—Dormitory 8-7
Sept 12—Homer—High School 8-7

ENGINEERING PROJECTS

Bids Must Be In — Date Printed in Pacific Construction Daily

OREGON

Aug 20—Medford—Sewers 8-10
Aug 20—Portland—Clearing 8-7
Aug 20—Portland—Sewage Treatment Plant 8-7
Aug 20—Portland—Arc Welder 8-10
Aug 20—Salem—Roller 8-11
Aug 20—The Dalles—Sanitary Sewers 8-3
Aug 21—Cottage Grove—Approach Roads 8-11
Aug 21—Creswell—Flood Control 8-10
Aug 21—Klamath Falls—Irrigation System Improvements 7-25
Aug 22—Medford—Canal Structures 7-6
Aug 23—Albany—Flood Control 8-11
Aug 24—Coos Bay Levee Improvement 8-10
Aug 24—Portland—Grading, Clearing, Bridge 8-10
Aug 24—Portland—Paving 8-9
Aug 24—Portland—Jetty Repair 8-9
Sept 4—Dalles Dam—Crane 7-3
Sept 5—Mills City—Ditch, Headwalls, Trash Rack 8-14

WASHINGTON

Aug 20—Anacortes—Power Line 8-4
Aug 20—Bellingham—Sprinkler and Drainage Materials 8-15
Aug 20—Washougal—Site Grading 8-14
Aug 20—Yakima—Street Improvements 8-15
Aug 21—Auburn—Sewer System 7-28
Aug 21—Bremerton—Water System Improvements 8-11
Aug 21—Ephrata—Siphon 7-12
Aug 21—Everett—Voltage Regulators 7-20
Aug 21—Newport—Sewer Connection 8-4
Aug 21—Olympia—State Highway Projects 8-2
Aug 21—Renton—Water Mains 8-14
Aug 22—Aberdeen—Substation Additions 8-9
Aug 22—Seattle—Test Borings, Street Paving 8-14
Aug 23—Chief Joseph Dam—Sump Pumps 8-10
Aug 23—Seattle—Pumping Units, Controls 8-11
Aug 23—Spokane—Sub-Trunk Sewer 8-1
Aug 23—Spokane—Paving, Curbing 8-7
Aug 23—Yakima—Surfacing 8-10
Aug 24—Wenatchee—Steel Deck, Piling 7-27
Aug 27—Lacrosse—Oiling 8-11
Aug 27—Seattle—Grader Blades 8-11

The Contracts Pending column in Pacific Construction Daily will keep you informed on bid openings throughout the Pacific Northwest and Alaska.

Aug 28—Bellingham—Flood Control Project 8-15
Aug 28—Castle Rock—Levee Work 8-10
Aug 28—Chief Joseph Dam—Pumping Units 8-8
Aug 28—Edmonds—Sewage Treatment Plant Equipment 8-4
Aug 28—Edmonds—Equipment 8-7
Aug 28—McChord AFB—Apron Repair 8-10
Aug 28—Olympia—State Highway Projects 8-10
Aug 28—Prosser—Headworks, Spillway Modifications, Additions 8-2
Aug 28—Seattle—Gate Valves 8-9
Aug 28—Sunset Highway—Plantmix Bituminous Paving 8-14
Aug 29—Seattle—Reservoirs 8-14
Aug 30—Everett—Radio Tower Installation 8-14
Sept 4—Aberdeen—Transmission Line 8-10
Sept 5—Seattle—Tank Repairs 8-15
Sept 5—Seattle—Underpasses 8-14
Sept 6—Pasco—Earthwork, Structures 7-24
Sept 6—Ephrata—Earthwork, Structures 7-25
Sept 10—Mercer Island—Sewer, Undercrossing, Pump Station 8-15
Sept 10—Vancouver—Street Improvements 8-14
Sept 11—Frenchman Springs—Control Equipment Assembly 8-1
Sept 11—Seattle—Steel Towers 8-11
Sept 11—Walla Walla—Water Distribution Improvements 7-19
Sept 18—Othello—Drain Extensions 8-9
Sept 20—Ephrata—Radial Gate Check Drop 8-14
Sept 25—White Bluffs Pumping Plant—Pumping Units 8-11

IDAHO

Aug 21—Boise—State Highway Projects 8-11
Aug 21—Emmett—Pumping Plant Extension 7-6
Aug 22—Idaho Falls—Railroad 8-1
Aug 27—Marsing—Sewers 8-7
Aug 28—Boise—State Highway Project 8-11
Aug 28—Boise—State Highway Projects 8-15
Aug 29—Kootenai River—Levee Repair 8-11
Aug 31—Fort Hall—Pumps, Electric Motors Electric Control Equip 8-9
Sept 11—Emmett—Switchgear Assembly 8-2
Sept 11—Emmett—Canal Alterations 8-2

MONTANA

Aug 20—Billings—Sidewalks, Curbs, Gutters 7-26
Aug 20—Great Falls—Pipe, Gravel 8-10
Aug 21—Billings—Curb, Gutter, Drives 8-9
Aug 21—Kalispell—Tractor Shovel 8-9
Aug 21—Kalispell—Dump Truck 8-9
Aug 22—Billings—Water Main 8-9
Aug 28—Billings—Sanitary Sewer Mains 8-9
Aug 28—Billings—Curbwalk, Curb and Gutter 8-14
Aug 29—Helena—State Highway Projects 8-9
Aug 30—Missoula—Grading, Surfacing 8-11

WYOMING

Aug 20—Sheridan—Water Meters 8-11

UTAH

Aug 21—Salt Lake City—Seal Coating 8-2
Aug 21—Salt Lake City—State Highway Project 8-8
Aug 23—Weber Basin Project—Power Transformers 7-12
Aug 24—Ogden—Paving 8-11
Aug 29—Vernal—Sewage Treatment Plant 8-11

ALASKA

Aug 20—Anchorage—Office Building 7-27
Aug 21—Ketchikan—Steam, Hot Water System 8-7
Aug 22—Wrangell—Sanitary Sewer 7-18

Advertisements for Bids

Advertisements reaching us not later than Wednesday noon will appear the same week.

THE RATE for Advertisements for Bids is 35 cents per line for the first insertion; 25 cents per line for each insertion thereafter.

STATE HIGHWAY PROJECTS
BIDS CLOSE 10 A.M., AUGUST 28
Olympia, Washington
NOTICE TO CONTRACTORS

Sealed bids will be received by the Washington State Highway Commission at Olympia, Washington, on Tuesday, August 28, 1956, until 10 A. M. for the construction of the following improvements and will then and there be opened and publicly read:

Bids for the following projects will be opened in the Conference room on the first floor of the General Administraton Building located at Eleventh and Columbia Streets on the North edge of the capitol group, instead of in the board room of the Public Service Commission where bid openings are usually held.

1. Clearing, Draining, Grading, Surfacing with Light Bituminous Surface Treatment, Constructing a Cement Treated Base, Paving with Type I-1 Asphaltic Concrete and Constructing Three Reinforced Concrete T Beam Bridges on 3.261 miles of Secondary State Highway No. 2-A in King County, RENTON TO MAY CREEK, FAP No. UI-025-1(11), involving about 80 acres of Clearing, 964,470 cubic yards of Common Excavation, 133,600 units of Overhaul, 21,830 tons of Selected Roadway Borrow, 7,640 tons of Crushed Stone Surfacing, 74,640 tons of CTB Aggregate, 2,880 barrels of Portland Cement, 190 tons of Asphalt Cement, 1,150 cubic yards of Crushed Cover Stone and Mineral Aggregate, 9,390 tons of Asphaltic Concrete, 5,855 linear feet of Asphaltic Shoulder Curb, 12,835 linear feet of Asphalt Lined Spillway and Ditch, 700 linear feet of Cement Concrete Gutter, 540 linear feet of Iron Pipe, 3,968 linear feet of Concrete Pipe, 5,113 linear feet of Corrugated Metal Pipe, 318 linear feet of Beam Guard Rail, 220 Guide Posts, 1,618 cubic yards of Riprap, 1,701 cubic yards of Concrete, 374,880 pounds of Steel Reinforcing Bars, 356 linear feet of Aluminum Bridge Railings, 2,600 pounds of Structural Steel, 320 pounds of Cast Steel and other items.
2. Clearing, Draining and Grading on 5.931 miles of Primary State Highway No. 2 in Lincoln County, GRAVELLE ROAD TO REARDON, FAP No. F-028-4(1), involving about 547,360 cubic yards of Common Excavation, 38,210 cubic yards of Solid Rock Excavation, 37,550 units of Overhaul, 11,250 cubic yards of Special Borrow, 2,632 linear feet of Corrugated Metal Pipe and other items.
3. Clearing, Draining, Grading and Surfacing with Selected Roadway Borrow on 0.919 mile of a Kitsap County Road, PORT ORCHARD-WATERMAN ROAD, FAS No. S-0329(1), involving about 33,300 cubic yards of Unclassified Excavation and Borrow, 3,130 cubic yards of Selected Roadway Borrow, 43 cubic yards of Concrete, 5,750 pounds of Steel Reinforcing Bars, 60 linear feet of Conduit Pipe, 1,764 linear feet of Concrete Pipe, 9,950 cubic yards of Riprap and other items.
4. Installing Eight Illumination Systems, Two Traffic Signal Systems and Channelization on State Highways Nos. 2, 7, 18 and 11-G in Douglas and Grant Counties, SOAP LAKE VICINITY, ET AL, a State Project, involving about 405 cubic yards of Crushed Stone Surfacing, 134 tons of Asphaltic Concrete, 11,042 linear feet of Precast Traffic Curb, 8 lump sum bids for Installation of Illumination Systems, 2 lump sum bids for Installation of Traffic Signal Systems and other items.
5. Constructing Drainage on 0.305 mile of State Highways Nos. 11 and 11-A in Franklin County, TOWN OF CONNELL, a State Project, involving about 1,050 cubic yards of Structure Excavation, 100 linear feet of Corrugated Metal Pipe, 2,238 linear feet of Concrete Pipe and other items.
6. Constructing a Dwelling and Remodeling a Dwelling in Lincoln County, KELLER FERRY DWELLINGS, a State Project, involving a lump sum bid for the Entire Improvement.

Federal funds have been allocated for items Nos. 1 to 3, inclusive.

All bid proposals shall be accompanied by a bid proposal deposit in cash, certified check, cashier's check or surety bond in an amount equal to five per cent (5%) of the amount of such bid proposal. Should the successful bidder fail to enter into such contract and furnish satisfactory performance bond within the time stated in the specifications, the bid proposal deposit shall be forfeited to the State of Washington.

Prequalification of bidders is required. Maps, plans and specifications may be obtained from this office upon written request therefor and payment to the Director of Highways by cash, certified check, cashier's check or money order in the sum of two dollars ($2.00) for each copy of such maps, plans and specifications as a rental for the use of them. Plans will be forwarded by First Class Mail.

Informational copies of maps, plans and specifications are on file in the office of the County Engineer of the County in which the work is situated, the Chapter offices of the Associated General Contractors of America in Seattle, Spokane, Tacoma and Portland and the offices of the District Engineers of the Department of Highways where they may be inspected.

E. C. HUNTLEY, Chairman
W. A. BUGGE, Director of Highways

5585—8-11, 18

HIGH SCHOOL
BIDS CLOSE 10 A.M., P.S.T., SEPTEMBER 12
Homer, Alaska
NOTICE TO CONTRACTORS

Project Aaa. 50-A-234, High School, Homer Alaska. Date August 2, 1956. Name and location of project Homer High School. Project Aaa. 50-A-234. Homer, Alaska. Department or agency. Alaska Public Works, Office of Territories, Departmnt of the Interior, by (Issuing office) Thomas G. Mooney, Director, Alaska Public Works, Office of Territories, Department of the Interior Post Office Box 1181, Juneau, Alaska. Sealed bids in single copy for furnishing all labor, equipment, and materials and performing all work for the project described herein will be received until 10:00 A. M. Pacific Standard Time September 12, 1956 in the mailroom of the office of the Director, Alaska Public Works, Office of Territories, Department of the Interior, 123 West Third Street, P.O. Box 1181, Juneau, Alaska and then publicly opened and read aloud. Information regarding bidding material, bid guarantee, and bonds follows: Plans and specifications and other proposed contract documents are open for public inspection at the Director's office, Juneau, Alaska; at Room 2723 Interior Bldg., Washington 25, D. C.; at the Area Engineer's office, Alaska Public Works, Reliable Service Bldg., Anchorage, Alaska; and Associated General Contractors of America offices as follows: Seattle Chapter, Construction Center, 215 W. Harrison St., Seattle, Wash.; Mountain Chapter, 220 West Harrison St., Seattle, Wash.; Tacoma Chapter, 1605 Center St., Tacoma, Wash.; Portland Chapter, Suite 112 Multnomah Hotel, Portland, Oregon; Alaska Chapter, 306 Central Building, Anchorage, Alaska; also the Plan Bureau, 2413 Western Avenue, Seattle, Wash.; and the Builders Exchange Cooperative, 311 Builders Exchange Bldg., Portland, Oregon. A set of such documents may be procured from the office of the Director at Juneau, Alaska, upon deposit of $25.00, all of which will be refunded upon the return of the plans and specifications in good condition within twenty (20) days from date of bid opening. Each bid must be accompanied by a satisfactory bid security (certified check or bid bond) in an amount not less than 5 percent of the total bid in dollars and cents. No bid will be withdrawn until thirty days after the scheduled closing date for the receipt of bid. The successful bidder will be required to furnish a performance bond and payment bond, each in the amount of 100 per cent of the contract price. The Government reserves the right to award a contract for the projects on the basis of the acceptance of any or all of the alternates which ever course is in the best interest of the Government. DESCRIPTION—Homer High School, Project Aaa. 50-A-234, Homer, Alaska. The construction of a three classroom high school building at Homer, Alaska, including toilet rooms, storage room, office, multi-purpose room, kitchen, dressing rooms, library, and other miscellaneous rooms and equipment for the proper function of the facilities. Alternates are provided for two extra classrooms and a shop. Information regarding liquidated damages (if any), payments, etc., is attached or made part of the specifications. Bids shall be submitted on the forms furnished or copies thereof.

5584—8-11, 18, 25

STATE HIGHWAY PROJECTS
BIDS CLOSE 9:30 A.M., AUGUST 29
Helena, Montana
NOTICE TO CONTRACTORS

Sealed bids on the following projects will be received by the Montana Highway Commission at the offices of said Commission in the City of Helena until 9:30 A.M. on August 29, 1956. The proposals will be publicly opened and read immediately thereafter.

1. F 23(4), F 81(5)US, F 101(6)U2, F 154(5)U2 and F 225(2)U2. Seal coat oiling on 9.927 miles on the Chinook-East, Zurich East and the Chinook-Harlem Road in Blaine County and 1.237 miles on the Ethridge-Shelby and the Main Streets Shelby Road in Toole County. A total distance off 11.164 miles. Project involves about 1,931 tons haul and spread State-Furnished cover material; 518 tons cover material; 56,141 gals. emulsified asphalt; 76 hours watering; lump sum furnish and maintain facilities for watering; 95 hours rolling. Project to be completed by July 31, 1957.
2. F 164(9). Grade, gravel surfacing, bituminous surface treatment and widening one 39.6' steel & concrete bridge and the construction of small drainage structures on 5.178 miles of the Philipsburg-Anaconda Road in Deer Lodge County involving about 447,031 cu. yds. excavation; 660 cu. yds. gravel backfill; 55,111 mi. yd. overhaul; 88,365 tons crushed gravel; 113,049 gals. emulsified asphalt; 8,430 M gal. watering; 1,228 units rolling; 2,417 lin. ft. reinforced concrete pipe culverts; 344 lin. ft. structural plate pipe culverts; 64.92 acres clearing; 25.25 acres grubbing; 15,499 lbs. reinforcing steel; 128.4 cu. yds. concrete; 44.48 lin. ft. concrete curb and rail; 265 cu. yds. structure excavation; and other items. Project to be completed in 250 calendar days.
3. F 210(2). Grade, gravel surfacing, bituminous surface treatment, and the construction of small drainage structures on 6.012 miles of the Babb-South Road in Glacier County involving about 611,416 cu. yds. excavation; 404 cu. yds. gravel backfill; 100 cu. yds random riprap; 55,131 mi. yds.

overhaul; 124,428 tons crushed gravel; 107,382 gals. liquid asphalt; 10,939 M gals. watering; 1,921 units rolling; 3,780 lin. ft. corrugated metal pipe culverts; 108.65 acres clearing; 45.42 acres grubbing; and other items. Project to be completed by 220 calendar days.

4. F 249(9). Grade, gravel surfacing, bituminous surface treatment and the construction of small drainage structures on 3.513 miles of the Garrison-Helena Road in Powell County involving about 330,925 Cu. Yds. excavation; 350 cu. yds. hand laid riprap; 37,986 mi. yds. overhaul; 35,112 tons crushed gravel; 22,822 tons selected borrow base course; 49,782 gals. liquid asphalt; 6,115 M gal. watering; 471 units rolling; 960 lin. ft. reinforced concrete pipe culvert; 86 lin. ft. corrugated metal pipe culverts; and other items. Project to be completed in 200 calendar days.

5. 268(6)U2. Seal coat oiling on 5.333 miles of the Ryegate-Roundup Road in Mussellshell County involving about 1,103 tons hauling & placing State-furnished cover material; 26,471 gals. emulsified asphalt; 30 hours watering; 75 units rolling; lump sum furnishing & maintaining facilities for watering cover material. Project to be completed by July 31, 1957.

6. F-FG 273(9). Grade, gravel surfacing, bituminous surface treatment, construction of a 264.0' steel girder bridge and overpass and the construction of small drainage structures on 0.820 miles of the Sidney-Culbertson Road in Roosevelt County involving about 324,975 cu. yds. excavation; 128,327 mi. yds. overhaul; 3,333 tons crushed gravel; 11,321 tons selected borrow base course; 6,762 gals liquid asphalt; 6,969 gals. emulsified asphalt; 5,163 M gal watering; 661 unit rolling; 358 lin. ft. corrugated metal pipe culverts; 6,550.0 lin. ft. steel guard rail; 4,771.4 lin. ft. pre-mix bituminous curb; 49,548 lbs. reinforcing steel; 357.3 cu. yds. concrete; 531.00 lin. ft. steel bridge rail; 255 cu. yds. structural excavation; 3,000 lin. ft. furnishing treated timber piles; 2,866 lin. ft. driving treated timber piles; and other items. Project to be completed by August 31, 1958.

7. S 157(1)U2. Gravel surfacing and bituminous surface treatment on 10.392 miles of the Kalispell-Lupfer Road in Flathead County involving about 100,483 tons crushed gravel; 26,616 cu. yds. sand base; 113,710 gals. liquid asphalt; 2,010 M gals. watering; 775 units rolling; Project to be completed by September 15, 1957.

8. S 176(3). Grade, gravel surfacing, bituminous surface treatment and the construction of small drainage structures on 7.426 miles of the Molt-Billings Road in Stillwater and Yellowstone Counties involving about 151,083 cu. yds. excavation; 356 cu. yds. gravel backfill; 3,814 mi. yds. overhaul; 120,714 tons crushed gravel; 43,729 gals. liquid asphalt; 43,729 gals. emulsified asphalt; 4,660 M gal. watering; 1,039 units rolling; 2,008 lin. ft. reinforced concrete pipe culverts; 152 lin. ft. structural plate pipe culverts; and other items. Project to be completed in 200 calendar days.

9. S 186(4). Grade, gravel surfacing, construction of small drainage structures and one 25.0' treated timber pile bridge on 4.830 miles of the wilsall-Northeast Road in Park County involving about 181,503 cu. yds. excavation; 71,618 mi. yds. overhaul; 29,748 tons crushed gravel; 5,275 M gals. watering; 634 cu. yds. binder; 1,269 mi. yds. overhaul on binder; 135 units rolling; 1,298 lin. ft. reinforced concrete pipe culverts; 812 lin. ft. corrugated metal pipe culverts; 134 cu. yds. gravel backfill; 62 lin. ft. standard sectional reinforced concrete; 13,202 MBM treated timber; 0.424 MBM untreated timber; 380' treated timber piles; and other items. Project to be completed in 180 calendar days.

10. S 208(1)U1. Grade, gravel, and drain on 8.591 miles on the Melville East & West Road in Sweet Grass County involving about 295,182 cu. yds. excavation; 403 cu. yds. gravel backfill; 121,517 mi. yds. overhaul; 16,007 tons selected borrow base course; 36,043 tons crushed gravel; 5,433 M gal. watering; 293 units rolling; 1,127 cu. yds. binder; 2,754 mi. wds. overhaul on binder; 2,899 lin. ft. reinforced concrete pipe culverts; 796 lin. ft. corrugated metal pipe culverts; 324 lin. ft. structural plate pipe arch culverts; and other items. Project to be completed in 200 calendar days.

11. S 289(4). Grade, gravel surfacing, plant mix oiling and construction of small drainage structures on 6.370 miles of the Red Lodge-Columbus Road in Carbon County involving about 441,784 cu. yds. excavation; 239 cu. yds. gravel backfill; 26,296 mi. yds. overhaul; 8,678 tons plant mix; 69,548 tons crushed gravel; 28,960 gals. liquid asphalt; 22,978 gals. emulsified asphalt; 107,117 gal. 250-300 penetration asphalt cement; 7,711 M gal. watering; 1,243 units rolling; 4,062.4 lin. ft. reinforced concrete pipe culverts; 448 lin. ft. corrugated metal pipe culverts; 56 lin. ft. structural plate pipe culverts 1,780 lbs. reinforcing steel; and other items. Project to be completed by September 15, 1957.

12. S 361(8). Grade, gravel surfacing and construction of small drainage structures on about 6.042 miles of the Fairview-Girard-West Road in Richland County involving about 467,001 cu. yds. excavation; 750 cu. yds. gravel backfill; 8,686 mi. yds. overhaul; 37,948 tons crushed gravel; 500 cu. yds. random riprap; 7,700 M gal. watering; 175 units rolling; 3,181 lin. ft. corrugated metal pipe culverts; 606 lin. ft. structural plate pipe culverts; and other items. Project to be completed in 180 calendar days.

The above listed quantities are approximate only.

All bid proposals shall be accompanied by a certified or cashier's check, cash, postal money order, bank money order, or bid bond in the amount of at least 5% of the bid. Should the successful bidder fail to enter into his contract and furnish a satisfactory performance bond within the time stated in his proposal, the bid deposit shall be forfeited to the State Highway Commission of Montana.

Prequalification of bidders at least 72 hours prior to the opening of bids is required.

Plans, specifications, forms of contract and bond, proposal blanks, and full instructions are on file for examination and may be obtained at the offices of the State Highway Commission in Helena, Montana. Plans and specifications for all Federal Aid Projects are also on file and may be examined in the office of the Bureau of Public Roads at Missoula.

Frank G. Connelly, Chairman
Scott P. Hart, State Highway Engineer

5581—8-11, 18

PUMPING PLANTS

BIDS CLOSE SEPTEMBER 25

Denver, Colorado

NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Invitation No. DS-4748) will be received at Denver, Colorado, until September 25, 1956, for furnishing four motor-driven, horizontal, centrifugal-type pumping units, each having a capacity of 44.4 cfs under a total head of 85-feet for White Bluffs Pumping Plant No. 1, Columbia Basin Project, Washington. Delivery is desired within 330 days. For particulars, address Bureau of Reclamation, Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.

5587—8-18

SCHOOL ADDITION

BIDS CLOSE 8 P.M., P.S.T., AUGUST 30

Othello, Washington

NOTICE TO CONTRACTORS

Sealed bids will be received by the Secretary of the Othello School District 147-163-55, Othello, Washington, at the offices of the School District at Lutacaga Elementary School on or before 8:00 P.M., P.S.T., Thursday, August 30, 1956, for the construction of additions to present school consisting of Gymnasium, Homemaking & Music Sections of frame, steel, and masonry construction. The bids will then and there be publicly opened and read aloud.

Bids received after the time fixed for opening cannot be considered.

Separate bids will be received for the following contracts:

a. General
b. Mechanical work
c. Electrical work

Drawings and specifications including contract documents may be examined at the office of the Architect, Victor Louis Wulff, 1526 West Riverside Avenue, Spokane, Washington, and may be obtained there, upon the deposit of $50.00 per set for general and $25.00 for electrical and mechanical.

The sets of plans and specifications will be on file at the following places for convenience of sub-contractors, etc.:

Construction Council, W. 933 3rd Ave., Spokane, Washington.
AGC Builders' Chapter, N. 1207 Washington St., Spokane.
Associated General Contractors, 215 W. Harrison St., Seattle 99.
Builders' Exchange Cooperative, 317 Builders' Exchange Bldg., Portland 4, Oregon.
Plan Bureau, 2413 Western Ave., Seattle 1, Washington.
Construction Council, Moses Lake, Wash.

The full amount of the deposit for one set of documents, will be refunded to actual bidders upon return of the documents, unmutilated and without marks and annotations, within 10 days after the time set for opening of bids, but to non-bidders only if returned no later than 10 days before the bid opening.

No bid will be considered unless fully completed in the manner provided in the "Instructions to Bidders" and on the bid form provided by the Architect and each bid must be accompanied by a certified check, cashier's check or bid bond with State-licensed surety or sureties in an amount of not less than five per cent (5%) of the bid for which security is given, made payable to Othello School District 147-163-55.

The right is reserved to accept or reject any or all bids and waive all claims or any informalities or irregularities in the bids or in the bidding. The School District reserves the right to award a contract for this project on the basis of the acceptance of any or all of the alternates, whichever course is in the best interests of the School District.

No bidder may withdraw his bid after the time set for the opening thereof, unless the award of contract is delayed for a period exceeding 30 days.

By order of Othello School District #147-163-55.
Lutacaga Elementary School, Othello, Wash.
Thomas R. Booker Jr., Chairman.

5586-A—8-11, 14, 15

REMODEL NATATORIUM

BIDS CLOSE 4:30 P.M., AUGUST 20

Klamath Falls, Oregon

NOTICE TO CONTRACTORS

Sealed bids will be received on or before 3 p.m., Monday, August 20, 1956, at the office of the Superintendent of Schools, Room 200, Klamath Union High School, Klamath Falls, Oregon, for remodeling of the existing Klamath Union High School natatorium.

A general bid will include all items of work. Bids will be publicly opened and read at 5 p.m., Monday, August 20, 1956.

As a condition precedent to receipt of his proposal, the bidder must have qualified 10 days prior to the opening of bids as prescribed by Page 225, Laws of Oregon, 1951.

Plans and specifications may be obtained at the offices of Morrison and Howard, architects, 203 Williams Building, Klamath Falls, Oregon. A deposit of $30 will be required and the deposit will be refunded to the bidder upon return of the plans and specifications in good condition.

Plans and specifications on file at the builders exchange cooperatives in Portland, Eugene.

The successful bidder will be required to furnish a surety bond in the full amount of the contract price. He shall be required to carry public liability insurance as specified. A bidders bond or certified check in the amount equal to five per cent of the lump sum bid must accompany the bid as a guarantee for the execution of the contract and bonds in case the contract is awarded to the bidder. The school board reserves the right to refuse to accept any or all bids.

HAROLD ASHLEY
Clerk,
School District No. 2
Klamath Falls, Ore.

5579—8-8, 15

VOCATIONAL BUILDINGS

BIDS CLOSE 8 P.M., AUGUST 28

Pasco, Washington

NOTICE TO CONTRACTORS

Sealed bids will be received by the Clerk of the Pasco School District #1, at the offices of the School District, 517 North 3rd St., Pasco, Washington, on or before 8:00 P.M., P.S.T., Tuesday, August 28, 1956 for the construction of Vocational Buildings for Columbia Basin College of steel, block, and brick construction. The bids will then and there be publicly opened and read aloud.

Bids received after the time fixed for opening cannot be considered.

Separate bids will be received for the following contracts:

a. General
b. Mechanical work
c. Electrical work

Drawings and specifications including contract documents may be examined at the offices of the Architect, Victor Louis Wulff, 1526 West Riverside Avenue, Spokane, Washington, and 507 North 4th, Pasco, Washington, and may be obtained there, upon the deposit of $25.00 per set for General and $15.00 for Mechanical and Electrical.

The sets of plans and specifications will be on file at the following places for the convenience of sub-contractors, etc.:

Tri-City Construction Council, 34 Vista Way, Kennewick, Wash.
Construction Council, 933 West 3rd, Spokane.
AGC Builders' Chapter, N. 1207 Washington, Spokane.
Plan Bureau, 2413 Western Ave., Seattle, Washington.
Builders' Exchange, 317 Builders' Exchange Bldg., Portland, Oregon.
AGC Builders' Chapter, 215 West Harrison St., Seattle, Washington.

The full amount of the deposit for one set of documents, will be refunded to actual bidders upon return of the documents, unmutilated and without marks and annotations, within 10 days after the time set for opening of bids, but to non-bidders only if returned no later than 10 days before the bid opening.

No bid will be considered unless fully completed in the manner provided in the "Instructions to Bidders" and on the bid form provided by the Architect and each bid must be accompanied by a certified check, cashier's check or bid bond with State-licensed surety or sureties in an amount of not less than five per cent (5%) of the bid for which security is given, made payable to Pasco School District #1.

The right is reserved to accept or reject any or all bids and waive all claims, or any informalities or irregularities in the bids or in the bidding.

The School District reserves the right to award a contract for this project on the basis of the acceptance of any or all of the alternates, whichever course is in the best interests of the School District.

No bidder may withdraw his bid after the time set for the opening thereof, unless the award of contract is delayed for a period exceeding 30 days.

By order of Pasco School District #1
517 North 3rd,
Pasco, Washington
Emerson Morgan, Secretary of the School Board 5583—8-9, 15, 22

MECHANICAL EQUIPMENT FOR SEWAGE TREATMENT PLANT

BIDS CLOSE 8 P. M., AUGUST 28

Edmonds, Washington

NOTICE TO CONTRACTORS

Written proposals will be received by the City of Edmonds at the City Hall, Edmonds, Washington, until 8:00 p. m., August 28, 1956, and then and there opened and publicly read aloud for furnishing mechanical equipment required for a primary type Sewage Treatment Plant to include circular clarifiers, bar screen and grinder, lift pump, sludge pump, digester mixer and heat exchanger, grit separator and pump, chlorinator and appurtenances. Each bidder may bid upon one or more items and award will be made to one or more bidders on the basis of individual items, as deemed to the best interest of the City.

Specifications and contract documents may be obtained from the office of James H. Reid & Associates, Consulting Engineers, 420 Bell Street, Edmonds, Washington.

Each proposal shall be accompanied by a certified check or cashier's check made payable to the City Treasurer in amount not less than 5% of the amount of the bid. The check shall be given as a guarantee that the bidder shall execute the contract in conformity with the contract documents if it be awarded to him.

The City of Edmonds reserves the right to reject any or all bids and to waive irregularities or informalities in the bid or in the bidding.

No bidder may withdraw his bid after the hour set for the opening thereof or before award of contract unless said award is delayed for a period exceeding thirty days.

Signed: ANITA BUSCH,
City Clerk, Edmonds.

5578—8-8, 14

COURTHOUSE

BIDS CLOSE 10:30 A. M., AUGUST 27

Billings, Montana

NOTICE TO CONTRACTORS

Notice is hereby given that sealed proposals will be received up to 10:30 A.M. Monday, August 27, 1956 by the Board of County Commissioners, Yellowstone County, Billings, at the office of the commissioners in the County Court House, Billings, Montana for the furnishing of materials and labor for the construction of a Court House at the corner of Third Avenue North and 27th Street North, Billings, Montana for the following:-

1. General Construction
2. Mechanical Construction
3. Electrical Construction
4. Elevator

All to be in accordance with plans and specifications prepared by Chandler C. Cohagen, Architect, 211 Hedden Building, Billings, Montana. Bids will be opened on the 2nd floor of City Hall, August 27, 1956, at 11:00 A.M. Bids shall be made on the printed forms furnished with the specifications. Plans and specifications may be obtained at the office of the architect. Each bid shall be marked on the outside of the opaque envelope with the nature of the proposal and the name of the bidder. Each bidder shall submit, with his proposal, bid bond, certified check or cash in the amount of ten percent, (10%) of the total amount of his proposal. This security shall be made in favor of the County of Yellowstone as a guarantee that bidder will enter into a contract and furnish a performance bond in the value of one hundred percent (100%) if contract is awarded to him. No bidder may withdraw his bid within fifteen days after the closing time for the receipt of bonds. The board reserves the right to waive informalities, to reject any and all bids or to accept the one bid that, in its judgment, will be to the best interest of the county.

Signed
BOARD OF COUNTY COMMISSIONERS, YELLOWSTONE COUNTY, MONTANA.
BEN B. HAGERMAN,
Chairman

CHRIS RUBICH
County Clerk and Recorder
ATTEST:
By R. A. Mikelson
Deputy
5573—8-4, 11, 18

SANITARY SEWER

BIDS CLOSE 10 A.M., P.S.T., AUGUST 22

Juneau, Alaska

NOTICE TO CONTRACTORS

Project Aaa. 50-A-104, Sanitary Sewers, Wrangell, Alaska, July 12, 1956. Wrangell Sanitary Sewer, Project Aaa. 50-A-104, Wrangell, Alaska. Alaska Public Works, Office of Territories, Department of the Interior, by (Issuing office) John D. Argetsinger, Acting Director, Alaska Public Works, Office of Territories, Department of the Interior, Post Office Box 1181, Juneau, Alaska. Sealed bids in single copy for furnishing all labor, equipment, and materials and performing all work for the project described herein will be received until 10:00 A. M. Pacific Standard Time, August 22, 1956, in the mailroom of the office of the Acting Director, Alaska Public Works, Office of Territories, Department of the Interior, 12th West Third Street, P. O. Box 1181, Juneau, Alaska, and then publicly opened and read aloud. Information regarding bidding material, bid guarantee, and bonds follows: Plans and specifications and other proposed contract documents are open for public inspection at the Acting Director's office, Juneau, Alaska; at Room 2723, Interior Bldg., Washington 25, D. C.; at the Area Engineer's office, Alaska Public Works, Room 309 Federal Bldg., Ketchikan, Alaska; and Associated General Contractors of America offices as follows: Seattle Chapter, Construction Center, 215 West Harrison St., Seattle, Wash.; Mountain Chapter, 220 West Harrison St., Seattle, Wash.; Tacoma Chapter, 1605 Center St., Tacoma, Wash.; Portland Chapter, Suite 112, Multnomah Hotel, Portland, Oregon; the Alaska Chapter, 306 Central Building, Anchorage, Alaska, and the Plan Bureau, 2413 Western Ave., Seattle, Wash.; and the Builders Exchange Cooperative, 317 Builders Exchange Bldg., Portland, Oregon. A set of such documents may be procured from the the office of the Acting Director at Juneau, Alaska, upon deposit of $25.00, all of which will be refunded upon the return of the plans and specifications in good condition within twenty (20) days from date of bid opening. Each bid must be accompanied by a satisfactory bid security (certified check or bid bond) in an amount not less than 5 per cent of the total bid in dollars and cents. No bid will be withdrawn until thirty days after the scheduled closing date for the receipt of bids. The successful bidder will be required to furnish a performance bond and payment bond, each in the amount of 100 percent of the contract price. The Government reserves the right to award a contract for the project on the basis of the acceptance of any or all of the alternates, whichever course is in the best interest of the Government. **DESCRIPTION:** Wrangell Sewers, Project Aaa. 50--A-104, Wrangell, Alaska. The project consists of the following approximate quantities of sewer pipe, 314 l.f. 15", 1,471 l.f. 12", 1,729 l.f. 10", 14,209 l.f. 8", 4,943 l.f. 6". 67 manholes and move 325 l.f. of existing water lines. Information regarding liquidated damages (if any), payments, etc., is attached or made a part of the specifications. Bids shall be submitted on the forms furnished or copies thereof.

5559—7-28; 8-4, 11

TOUR CENTER

BIDS CLOSE 10 A.M., P.S.T., SEPTEMBER 11

Ephrata, Washington

NOTICE TO CONTRACTORS

UNITED STATES DEPARTMENT OF THE INTERIOR, Bureau of Reclamation, July 26, 1956. Sealed bids, in single. (Specifications No. 117C-388) will be received at the office of the Project Manager, Bureau of Reclamation, Project Office Building, Division and "C" Streets N.W., Ephrata, Washington, until 10:00 a.m., Pacific Standard Time, September 11, 1956, and then publicly opened for furnishing labor and materials and performing all work for construction of Grand Coulee Dam Tour Center. This work will include construction of a structural concrete type building with store front type aluminum entrances, awning-type aluminum windows, and a covered observation deck; roof will consist of open-web ceiling joists, steel roof decking, rigid roof insulating boards, built-up roofing with a gravel cover; concrete observation deck roof; floors of plain concrete slabs with asphalt tile covering in 3 small rooms; ceilings will be installed over wood furring strips with gypsum wallboard and accoustical tile in lobby and model room, and plaster and plasterboards on all other ceilings; install heating, cooling, electrical and plumbing systems. Time allowed for completion will be 150 calendar days. For particulars address the Bureau of Reclamation, P. R. Nalder, Project Manager, Box 368, Ephrata, Washington.

5572—8-4

EARTHWORK, FOOTINGS FOR RIVER CROSSING

BIDS CLOSE AUGUST 29

Winters, California

NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation, Sealed bids (Specifications No. DC-4744) will be received at Winters, California, until August 29, 1956, for furnishing labor and materials for Earthwork and Footing Modifications for Sacramento River Crossing, Tower 2-C, 230-Kilovolt Shasta-Tracy Transmission Lines 1 and 2 (west side lines), Central Valley Project, California. Location near Rio Vista, California. Principal items are 146,000 cu. yds. excavation; concrete work for underpinning the tower footings; 2,400 sq. yds. plant-mix bituminous surfacing; and other work. Completion time 240 days. For particulars, address Bureau of Reclamation, P. O. Box 546, Winters, California; or Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.
5580—8-11

GRADING, CLEARING, REINFORCED CONCRETE BRIDGE

BIDS CLOSE 10 A.M., AUGUST 24

Portland, Oregon

NOTICE TO CONTRACTORS

DEPARTMENT OF COMMERCE, BUREAU OF PUBLIC ROADS, AUGUST 10, 1956. SEALED BIDS will be received at the office of the Bureau of Public Roads, 753 Morgan Building, Portland, Oregon, mail address P. O. Box 3900, Portland, Oregon, until 10:00 o'clock A.M. on August 24, 1956, for furnishing the material and performing the work for constructing 2.131 miles grading, 4.026 miles advance clearing and a 130-foot reinforced concrete bridge, Oregon Forest Highway Project 3-A1, Oregon Coast Highway, Siuslaw National Forest, Tillamook and Lincoln Counties, Oregon, involving 135 Acres Clearing; 17 Acres Grubbing; 600,000 Cu. Yds. Excavation; 1,610,000 Sta. Yds. Overhaul; 636 Cu. Yds. Concrete; 140,000 Lbs. Reinforcing Steel; 2,000 Lin. Ft. Culvert Pipe, and other small items of work. Plans, specifications and proposals may be obtained at the office of the Bureau of Public Roads, 753 Morgan Building, Portland, Oregon. F. E. ANDREWS, Division Engineer.
5586—8-11

PLANTMIX BITUMINOUS PAVING

BIDS CLOSE 10 A.M., AUGUST 28

Portland, Oregon

NOTICE TO CONTRACTORS

DEPARTMENT OF COMMERCE, BUREAU OF PUBLIC ROADS, AUGUST 14, 1956. SEALED BIDS will be received at the office of the Bureau of Public Roads, 753 Morgan Building, Portland, Oregon, mail address P. O. Box 3900, Portland, Oregon, until 10:00 A. M. on August 28, 1956, for furnishing the material and performing the work for constructing 14.471 miles Bituminous Paving, Washington Forest Highway Project 9-A11, B4, Sunset Highway, Wenatchee National Forest, Kittitas & Chelan Counties, Washington, involving 2,800 Tons Asphalt; 41,000 Tons Plant Mixture; 830 Cu. Yds. Cover Aggregate; 28,000 Lin. Ft. Beam Guard Rail, and other small items of work. Plans, specifications and proposals may be obtained at the office of the Bureau of Public Roads, 753 Morgan Building, Portland, Oregon. F. E. ANDREWS, Division Engineer.
5592—8-18

GARAGE

BIDS CLOSE 11 A.M., SEPTEMBER 18

Valdez, Alaska

NOTICE TO CONTRACTORS

Department of the Interior, Alaska Road Commission, Date: August 6, 1956, Juneau, Alaska. Sealed bids, in single copy for furnishing all labor, equipment, and materials and performing all work for the project of constructing the Valdez Garage, Valdez, Alaska, described herein will be received until 11:00 a.m., September 18, 1956 in Room 319, Alaska Road Commission offices, Federal Building, Juneau, Alaska, and then publicly opened. This is a readvertisement of the bids opened June 15, 1956. Plans and specifications for the project may be obtained from the Alaska Road Commission, P. O. Box 1961, Juneau, Alaska. Plans and specifications should be returned to the Alaska Road Commission District Office, Valdez, Alaska. No deposit will be required, but if not returned in good condition within thirty days after date of bid opening, the planholder will be billed for the actual cost of the plans and specifications. A guarantee of not less than five percent (5%) of the total amount bid will be required with each bid. Constructing a 80' x 80' steel and timber frame building with concrete floor and metal roof and furnishing and installing specified equipment. Work shall be started within 30 calendar days after date of receipt of Notice to Proceed and shall be completed within 215 calendar days after date of Notice to Proceed, which will not be given until May 1, 1957, unless requested to be given at an earlier date. A. F. Ghiglione, Director.
5589—8-18

DRAIN EXTENSIONS

BIDS CLOSE 10 A.M., P.S.T., SEPT. 18

Ephrata, Washington

NOTICE TO CONTRACTORS

UNITED STATES DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids, in single (Specifications No. 117C-389) will be received at the office of the Project Manager, Bureau of Reclamation, Project Office Building, Division and "C" Streets N.W., Ephrata, Washington, until 10:00 a.m., Pacific Standard Time, September 18, 1956, and then publicly opened for furnishing labor and materials and performing all work for construction of Deep Drain Extension Block 49. This work will include earthwork for approximately 2.6 miles of open drains and for approximately 0.6 mile of deepening existing wasteways; bottom width of sections vary from 2 to 4 feet; earthwork for and construction of structures along wasteways and drains, including road crossings and control drop; earthwork for and modification of an existing concrete drop structure; riprap and gravel bedding for cascade drop and gravel protection at the inlet and outlet ends of structures. Time allowed for completion will be 150 calendar days. For particulars address the Bureau of Reclamation, P. R. Nalder, Project Manager, Box 368, Ephrata, Washington.
5588—8-18

REMODEL BUILDING

BIDS CLOSE 2 P.M., AUGUST 28

Seattle, Washington

NOTICE TO CONTRACTORS

Separate sealed proposals will be received by the Board of Regents of the University of Washington at the office of the Comptroller, Room 203 Administration Building, on the University Campus, until Tuesday, August 28, 1956, at 2:00 P.M. for the Denny Hall remodeling for the University of Washington, and said proposals will then and there be publicly opened and read aloud. Bids received after the time set for opening cannot be considered.

Specifications and drawings may be examined after August 7, 1956, at the office of the Architects, Grainger, Thomas & Baar, 6153 Arcade Building, Seattle 1, Washington, or at the Seattle Chapter, Associated General Contractors of America, 215 West Harrison, Seattle, and may be obtained at the Architect's office upon deposit of $25.00 for each set of drawings and specifications. A maximum of two sets per bidder.

The full amount of deposit for each set of documents will be refunded to actual bidders upon return of the documents, unmutilated and without marks or annotations, within one week after the date of the bid opening.

Each bid must be accompanied by money, or a certified or bank cashier's check, or by a bid bond, each in an amount not less than 5% of the Base Bid, made payable to the University of Washington. Bid bond must be furnished in the form set forth in the specifications, with a State-licensed surety company as surety.

Attention of bidders is directed to State laws concerning wages, working hours, and other conditions of employment.

The Board of Regents reserves the right to reject any or all bids, and to waive informalities with respect thereto. No bidder may withdraw his bid after the hour set for opening thereof, unless and until the award of Contract has been delayed for a period exceeding forty-five (45) days.

By order of the BOARD OF REGENTS
UNIVERSITY OF WASHINGTON
SEATTLE, WASHINGTON
By Helen Hoagland, Secretary
5564—8-4, 11

PUMPING PLANT EXTENSIONS

BIDS CLOSE AUGUST 21

Boise, Idaho

NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-4729) will be received at Boise, Idaho, until August 21, 1956, for furnishing labor and materials for Extension of "C" Line Canal Pumping Plant, Payette Division, Boise Project, Idaho. Location near Emmett, Idaho. Principal items are 4,170 cu. yds. excavation; 380 cu. yds. concrete; 388 lin. ft. furnishing and laying 48-inch diameter HC50, HC75 and HC100 concrete pressure pipe; 1,525 sq. ft. construction 8-inch concrete masonry unit walls; 21,000 pounds furnishing and erecting steel for pumping-plant superstructure; installing and testing one 75-cfs vertical centrifugal pump; and other work. Completion time 310 days. For particulars, address Bureau of Reclamation, P. O. Box 937, Boise, Idaho; or Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.
5541—7-14

CANAL STRUCTURES

BIDS CLOSE AUGUST 22

Medford, Oregon

NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-4728) will be received at Medford, Oregon, until August 22, 1956, for furnishing labor and materials for Main Canal Structures, Station 123/00 to Station 829/00, Medford and Rogue River Valley Irrigation District, Rogue River Basin Project, Oregon. Location northeast of Medford, Oregon. Principal items are 350 cu. yds. excavation for flumes and wall; 200 cu. yds. concrete for flumes and wall; constructing 60-inch concrete siphon, about 350 feet long; constructing 54-inch concrete siphon, about 1,100 feet long; and other work. Completion time 180 days. For particulars, address Bureau of Reclamation, P. O. Box 629, Medford, Oregon; or Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.
5542—7-14

LATERALS, SUBLATERALS

BIDS CLOSE AUGUST 23

Lindsay, California

NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-4732) will be received at Lindsay, California, until August 23, 1956, for furnishing labor and materials for Shafter-Wasco Laterals and Sublaterals; and completion of Laterals 134.4 and 137.2, Shafter-Wasco Irrigation District, Central Valley Project, California. Location near Wasco, California. Principal items are earthwork for and furnishing and laying 26 miles of concrete pipe, 27 inches and larger, under Schedule No. 1; and 82 miles of pipe, 24 inches and smaller, under Schedule No. 2. Diameters vary from 12- to 72-inches with option for use of asbestos-cement pipe for diameters of 24 inches or less. Work includes installation of pumps, valves, meters, and other work. Completion time 650 days. For particulars, address Bureau of Reclamation, P. O. Box 525, Lindsay, California; or Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.
5549—7-21

CAPACITATOR INSTALLATION
BIDS CLOSE SEPTEMBER 5
Sacramento, California
NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-4707) will be received at Sacramento, California, until September 5, 1956, for furnishing labor and materials for 69 Kilovolt Capacitor Installation at Folsom-Elverta Terminal Switching Facilities, Central Valley Project, California. Location near Elverta, California. Principal items are 440 cu. yds. excavation; 210 cu. yds. concrete; furnishing and erecting 24,000 pounds steel structures; installing duplex control board section CHA 26; installing two 69-kv, 25,200-kvar, outdoor, power shunt capacitor equipments; and other work. Completion time 150 days. For particulars, address Bureau of Reclamation, P. O. Box 2511, Sacramento, California; or Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.
5556—7-28

EARTHWORK, PIPELINES, STRUCTURES
BIDS CLOSE AUGUST 28
Medford, Oregon
NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-4735) will be received at Medford, Oregon, until August 28, 1956, for furnishing labor and materials for Earthwork, Pipe Lines, and Structures for Yankee Creek Siphon and Antelope Creek Siphon and Wasteway, Medford Canal Rehabilitation, Rogue River Basin Project, Oregon. Location near Medford, Oregon. Principal items are Yankee Creek siphon, concrete, 60-inch diameter, and about 1,940 feet long; Antelope Creek siphon and wasteway, concrete, 60-inch diameter, and about 155 feet long; and other work. Completion time 200 days. For particulars, address Bureau of Reclamation, P. O. Box 629, Medford, Oregon; or Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner. 5562—7-28

CANAL
BIDS CLOSE SEPTEMBER 5
Winters, California
NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-4733) will be received at Winters, California, until September 5, 1956, for furnishing labor and materials for Putah South Canal, Station 338+85.12 to Station 1017+00; and McCoy Creek Wasteway-Solano Project, California. Location near Vacaville, California. Principal items are 1,200,000 cu. yds. excavation; 27,900 cu. yds. concrete in canal lining; 3,800 cu. yds concrete in structures; and other work. Completion time 600 days. For particulars, address Bureau of Reclamation, P. O. Box 546, Winters, California; or Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner. 5557—7-28

SIPHON
BIDS CLOSE AUGUST 21
Ephrata, Washington
NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-4620) will be received at Ephrata, Washington, until August 21, 1956, for furnishing labor and materials for the construction of Wahluke Siphon, Station 0/00 to Station 159/05.13, Wahluke Branch Canal, and PE 16.4 Wasteway, Station 577+40 to Station 677+25, Columbia Basin Project, Washington. Location south of Othello, Washington. Principal items are 281,000 cu. yds. excavation; 7,500 cu. yds. concrete in structures; 2½ miles concrete pipe in siphon, 15 ft. 4-inch diameter, alternative monolithic or precast; ½ mile plate steel pipe in siphon; and other work. Completion time 800 days. For particulars, address Bureau of Reclamation, P. O. Box 368, Ephrata, Washington; or Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.
5545—7-21

DORMITORY COTTAGES
BIDS CLOSE 3 P. M., AUGUST 22
Chehalis, Washington
NOTICE TO CONTRACTORS

Separate sealed bids for General and Mechanical and Electrical work will be received by the Director of General Administration of the State of Washington, at his office, Room 218, General Administration Building, State Capitol Group, Olympia, Washington, until 3:00 P. M., Wednesday, August 22, 1956, for the construction of two Dormitory Cottages at Green Hill School, Chehalis, Washington, as per plans and specifications. Bids received after the time fixed for opening cannot be considered.

Specifications including Contract Documay be obtained at the office of the Architects, Wohleb & Wohleb and Associates, Architects and Engineers, 715 South Washington Street, Olympia, Washington, and they may be examined at the office of the Director of General Administration, Olympia, Washington, the Associated General Contractors offices in Tacoma and Seattle, the Plan Bureau in Seattle, and the Associated Subcontractors of the State of Washington, Inc., Tacoma, Washington. Plans may be obtained at the Architect's office upon deposit of Fifty and No/100 Dollars ($50.00) for each set of plans and specifications.

The full amount of the deposit for one set of documents will be refunded to actual bidders upon return of the documents, unmutilated and without marks or annotations, within three days after the time set for opening bids. Other deposits will be refunded with deduction for the actual cost of reproducing the Drawings, under the same conditions.

Each bid must be accompanied by a certified check, cashier's check or bid bond, with state-licensed surety company as surety, in an amount not less than five per cent (5%) of the Base Bid, made payable to the State of Washington.

The right is reserved to reject any or all bids to waive informalities in connection with said bids.

By order of: H. D. Van Eaton, Director, Department of General Administration, Olympia, Washington.

5566—7-25; 8-1

EARTHWORK, LINING, STRUCTURES
BIDS CLOSE SEPTEMBER 6
Ephrata, Washington
NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-4736) will be received at Ephrata, Washington, until September 6, 1956, for furnishing labor and materials for Earthwork, Concrete Lining, and Structures, Block 3, Burbank Canal Laterals, Columbia Basin Project, Washington. Location southeast of Pasco, Washington. Principal items are 221,000 cu. yds. excavation; 3,000 cu. yds. concrete in lining and structures; 2,200 lin. ft. concrete pipe, 6- to 48-inch; 3,000 pounds metalwork; and other work. Completion time 350 days. For particulars, address Bureau of Reclamation, P.O. Box 368, Ephrata, Washington; or Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.
5554—8-4

COLLEGE HOUSING
BIDS CLOSE 2 P.M., AUGUST 31
Pullman, Washington
NOTICE TO CONTRACTORS

Sealed bids will be received by the Board of Regents of the State College of Washington at a public bid opening on August 31, 1956, Room 306 in the Administration Building of the State College of Washington at 2:00 P. M. for the construction of a MARRIED STUDENT HOUSING PROJECT at Pullman, Washington. Bids received after the time for opening will not be considered. No bidder may withdraw his bid after the hour set for the opening thereof unless said award is delayed for a period exceeding 30 days.

Drawings, specifications, and forms of contract documents may be obtained at the office of Walker, McGough and Trogdon, Architects, A.I.A., West 1023 Riverside Avenue, Spokane, Washington, or examined at the office of Philip E. Keene, College Architect, State College of Washington, Pullman, Washington.

Each prime contractor shall submit a plan deposit of $50.00 per set of contract documents with the maximum of 2 sets per contractor.

Mechanical, electrical and general construction work will be performed under separate prime contracts operating concurrently.

Secretary
Board of Regents
State College of Washington
5560—7-25, 31; 8-7

PUMPING PLANT ASSEMBLIES
BIDS CLOSE SEPTEMBER 11
Frenchman Springs, Washington
NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Invitation No. DS-4742) will be received at Denver, Colorado, until September 11, 1956, for furnishing one 2,500-volt, metal-enclosed, indoor-type, motor control equipment assembly; and one 600-volt, metal-enclosed, indoor-type, station-service control center assembly for Frenchman Springs Pumping Plant, Columbia Basin Project, Washington. Delivery is desired within 270 days. For particulars, address Bureau of Reclamation, Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.
5575—8-11

PLANTMIX BITUMINOUS PAVING
BIDS CLOSE 10 A.M., AUGUST 24
Portland, Oregon
NOTICE TO CONTRACTORS

DEPARTMENT OF COMMERCE, BUREAU OF PUBLIC ROADS, AUGUST 10, 1956. SEALED BIDS will be received at the office of the Bureau of Public Roads, 753 Morgan Building, Portland, Oregon, mail address P.O. Box 3900, Portland, Oregon, until 10:00 o'clock A.M. on August 24, 1956, for furnishing the material and performing the work for constructing 8.448 Miles Bituminous Paving, Oregon Forest Highway Project 10-C2, Unit 2, Oregon Coast Highway, Siskiyou National Forest, Curry County, Oregon, involving 12,600 Cu. Yds. Excavation; 2,000 Tons Asphalt; 27,000 Tons Plant Mixture; 1,950 Lin. Ft. Culvert Pipe; 22,200 Lin. Ft. Bituminous Curb; 18,600 Lin. Ft. Beam Guard Rail, and other small items of work. Plans, specifications and proposals may be obtained at the office of the Bureau of Public Roads, 753 Morgan Building, Portland, Oregon. F. E. ANDREWS, Division Engineer.
5582—8-11

ROAD RELOCATION, ACCESS ROAD, BRIDGE
BIDS CLOSE AUGUST 30
Weaverville, California
NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-4737) will be received at Weaverville, California, until August 30, 1956, for furnishing labor and materials for County Road Relocation for Trinity Dam; Access Road for Lewiston-Spring Creek Tunnel; and Piers, Abutments, and approach for Trinity River Bridge, Trinit River Division, Central Valley Project, California. Location near Lewiston, California. Principal items are 1,073,000 cu. yds. excavation; furnishing and laying 5,100 lin. ft., 12- to 60-inch corrugated metal pipe; 490 cu. yds. concrete; 31,600 cu. yds. crushed rock base; 242 tons liquid asphalt; and other work. Completion time 270 days. For particulars, address Bureau of Reclamation, Weaverville, California; or Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.
5561—8-4

Legal advertisements published in our columns are read throughout the Pacific Northwest and Alaska.

Library
30.5

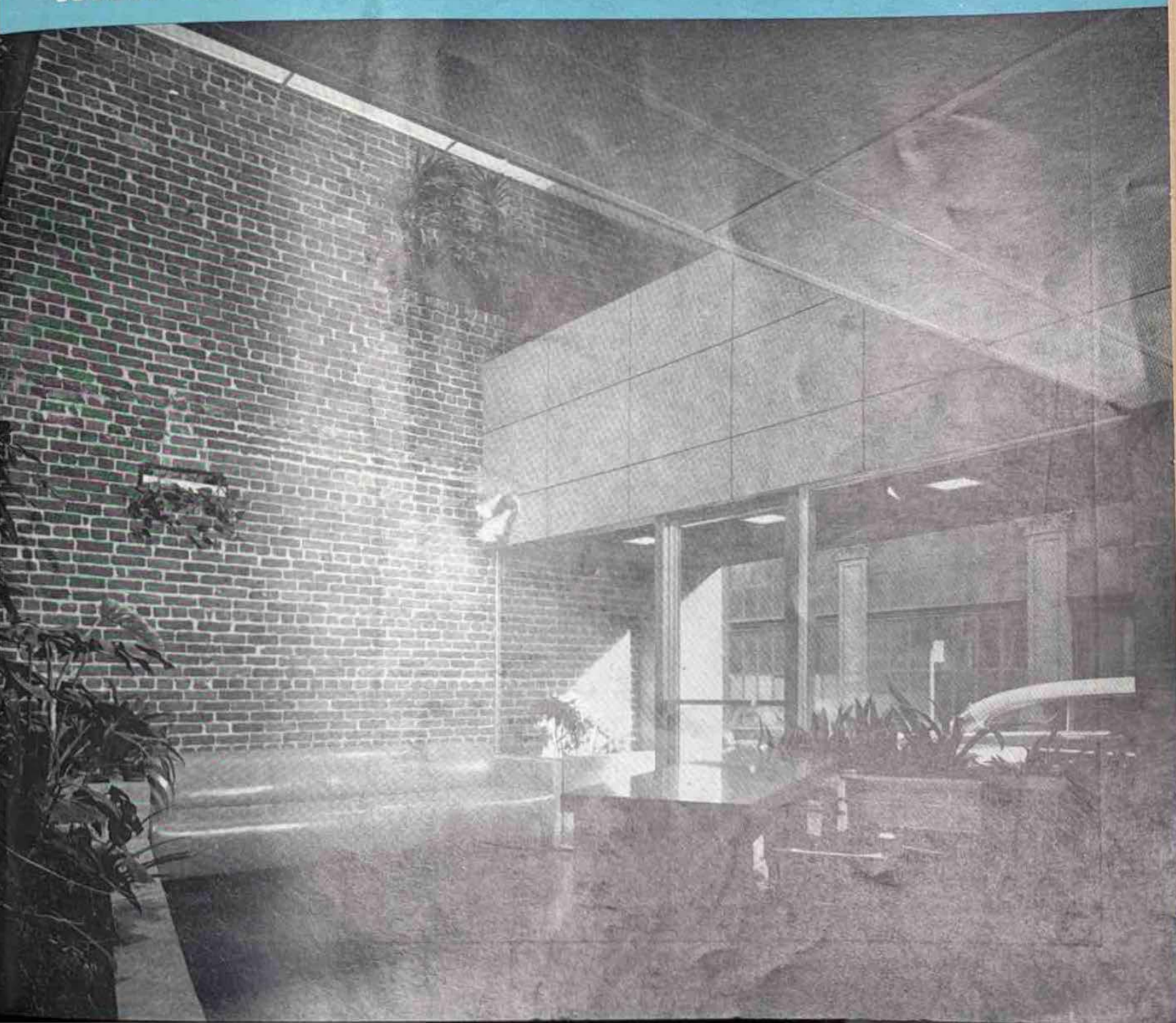
UNIVERSITY OF OREGON
DEC 6 1901
LIBRARY

Pacific Architect and Builder

SEPTEMBER BPA 1956

50¢

WITH CONSTRUCTION NEWS BULLETIN



see the man from Smoot-Holman first!...

...for the best in school, commercial and industrial lighting

No matter how difficult the illumination problem — the Smoot-Holman lighting expert is the **man to see!** Here is trained "know-how" backed by Smoot-Holman's modern plant facilities and quality lighting equipment.

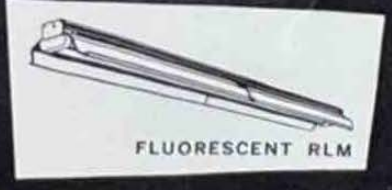
Call your local Smoot-Holman office or write direct. Ask to **see the man** from Smoot-Holman.

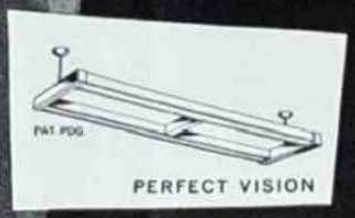

SKYLIKE


MASTER FLOOD


RECESSED TROFFER


EDUCATOR


FLUORESCENT RLM



PERFECT VISION


RLM DOME

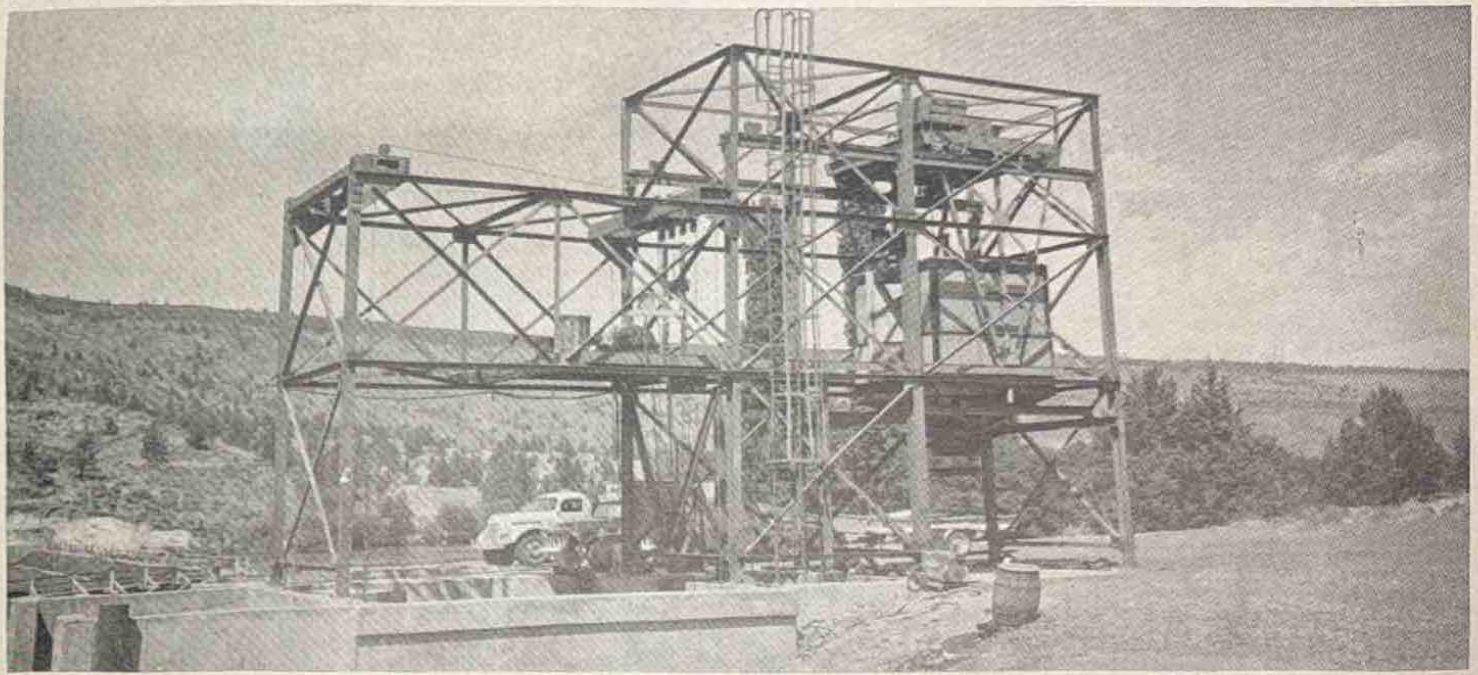
SMOOT-HOLMAN

INGLEWOOD, CALIFORNIA

We support the National Lighting Bureau

service in the west and southwest for all school, commercial and industrial lighting

ANOTHER EXAMPLE OF CARCO "one stop" STEEL SERVICE



FISH PASSAGE FACILITIES TO COST $5,000,000 AT PORTLAND GENERAL ELECTRIC'S PELTON PROJECT



In designing and developing the Pelton hydroelectric project on the Deschutes river near Madras, Oregon, the Portland General Electric Company has gone to unusual lengths to preserve commercial and sports fishing for present and future generations.

While the project is being built and until the permanent fish passage facilities are erected, a temporary fish elevator has just been completed. Upstream migrants enter a brail which is hoisted or elevated for dumping into a hopper which, in turn, is lifted and moved by a traveling crane for emptying into a transportation truck.

Eventually, about $5,000,000 of the $25,000,000 project cost will be spent on the fish elevator, the re-regulating dam, the fish ladder and other facilities to guide upstream and downstream salmon and steelhead migrants past the dam.

Pacific Car fabricated 30 tons of structural steel for the Pelton project's temporary fish elevator.

Let Carco help you with your structural steel problems. Pacific Car offers not only the largest fabricating facilities in the Northwest but also a "one-stop" steel service. This means money-saving ideas and suggestions, prompt engineering detail and estimates, fabrication and erection. Remember, no job is too large for Pacific Car's equipment and technical competence, nor too small to receive our interested attention.

Contractor:
Guy F. Atkinson Co.,
San Francisco

Engineers:
Ebasco Services, Inc.,
New York

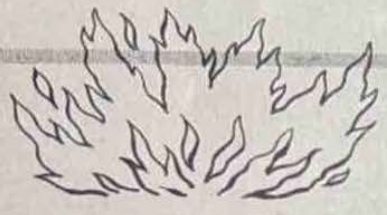
PACIFIC CAR AND FOUNDRY COMPANY

STRUCTURAL STEEL FABRICATION AND ERECTION, STEEL CASTINGS, FORGING, HEAT TREATING, MACHINING, HOT DIP GALVANIZING, TRACTOR EQUIPMENT: Winches, Hoists, Arches, Log Carts, Rigging.

CARCO®

STRUCTURAL STEEL DIVISION—120 W. HUDSON—SEATTLE 4—RAinier 5355 MAIN PLANT AND OFFICES—RENTON, WASHINGTON—OLive 4511

ONLY
PUMICE
(expanded by nature)
IS SO
FIRE
RESISTANT



Pumice is the *only* structural lightweight aggregate from which building blocks of standard wall thickness can be manufactured to meet all these rigid requirements: (1) Satisfy **ASTM** specifications for class "B" block, (2) Satisfy **FHA** requirements for "U" Factor of 0.25, (3) Satisfy **Underwriters Laboratories, Inc.** specifications for a *4-hour* fire wall block — and, at the same time, possesses the other desirable qualities of lightweight aggregates.

Natural expanded Pumice cuts construction costs, too. Free, complete technical data gladly sent upon request.

THE
CENTRAL OREGON
PUMICE COMPANY
125 Oregon Ave. • Bend, Oregon

A plea for design: *our very best*

A digest of an address presented by Robert Billsbrough Price at the Honor Awards banquet of the Oregon chapter, AIA, in Portland

DURING the past few years I have been very fortunate to be a guest and also to play host to a number of my colleagues, both in cities around the country and in my own city of Tacoma.

The most fascinating part of these meetings has been the exchange of ideas and to hear the various practitioners express their philosophy of architecture. However, more times than I care to count the discussion very quickly regresses to a discussion of details, client problems or how much of a financial loss the last project entailed. It is stimulating when the big approach is given: the problem (what the architect was attempting to accomplish) and finally his solution.

This facet of our complex work, I believe, is the very foundation of our professional existence. From the start of our scholastic training, all subjects are subordinate to the concept that the ability to create order, function and beauty in the fields of products, industry, building and planning is our biggest contribution to those we serve.

To realize a peak of design perfection is not a simple job, but rather one of a united and determined effort on the part of all connected with the project to give their very best.

It is my contention that one can not precisely and carefully isolate any one phase of the problem, such as design, mechanical, electrical, acoustical, landscape, sculpture and painting, from the others. Each draws strength and meaning from its relationship to the others. Each must be examined in its relationship to the others and to the whole.

To realize the very best from those participating within and without of the office, there must be a feeling of teamwork. Each participant must be made to feel that he is a real and vital part of those responsible. Any man entrusted with a phase of the work is worth listening to and given a chance to express himself. There should be in every office an atmosphere that is conducive to a free exchange of ideas.

When I hear the expression, "We are out of the design stage and are now on work drawings," it makes me boil. There is design in all phases of the job, down to the very problem of sheet composition and the cover layout for the specs. This feeling for perfection, this awareness for order and beauty, must be paramount in the minds of all participating.

There must be a leader but he should be so instilled with a desire to do his very best that it becomes contagious to all working with him.

At a recent lecture dealing with the subject of better acquainting the public with an architect's services, care was taken to call attention to complete plans, specifications, competitive bidding, supervision, etc.—but not one word of design, no mention of that attribute that takes the ordinary and makes something fine.

Every job should have your very best. And each job as it is approached should be with the mind that this will be our very best. I know what you are thinking: we can't because of program, budget or the client. These are not unsurmountable problems. If the program is unrealistic make it real; it's part of your work! From the program the breath of life is given to a piece of archtecture.

The budget—a very real problem but it can be solved if the architect approaches it in an understanding way with the client. A limited budget never forced an architect to use bad proportions or to be out of scale or do a poor parti, etc. Often a limited budget has stimulated the imagination and ingenuity of the designer to the point where a wonderful solution has been the result.

The client—I will grant you the client and his desires and attitudes has much to do with the success of any project. However, too often do we hear, "Oh, the client wouldn't let us do a good job." No client ever forced us to do a bad job. Far too often the architect will hide behind this type of talk as an excuse for prostituting the greatest contribution he can make.

If all these problems become too great, don't do the job. I know again you will say we have an obligation and a service to perform. However, your first obligation should be to those truths and ideals to which at one stage of our training we all dedicated ourselves.

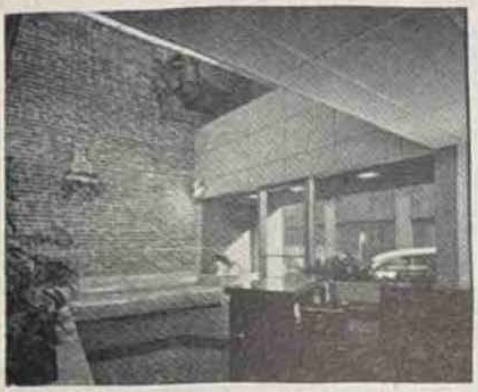
Every job that is executed in a poor or mediocre manner lowers the standard of the entire profession. If every job is treated as the most important commission in the office and given our very best, the results are bound to be good. And every job that is brilliantly conceived and executed adds stature to the architect as a group and to each and every member of the architectural profession.

Pacific Architect and Builder

SEPTEMBER EPA 1956

WITH CONSTRUCTION NEWS BULLETIN

VOLUME 62 NUMBER 9



Cover: Advertising department headquarters, San Francisco (p. 19). Bruce E. Heiser, AIA, architect; Moulin Studios photo.

Perspectives 6

Highlights—Trends—Views 7

T-square Talk 11

Letters 11

Building Permit Tabulation 22

Materials, Products, Tools and Latest Literature 24

Products in Action 26

Builders and Suppliers 30

Construction News 35

DESIGN AND THE LANDSCAPE — Excerpts from a paper presented at the sixth annual Design Conference in Aspen, Colo.—by GARRETT ECKBO 12

MODERNIZATION — Six projects which illustrate how remodeling and additions can change the character of existing and often outdated buildings.

David M. Johnson Residence: Entry Hall Serves as Fitting Transition—Tacoma, Wash. 14

Miramar Convention Center: Old Garage Becomes a Convention Hall—Santa Barbara, Calif. 15

Springfield Cleaners: Real Face Lifting for $5,750: Springfield, Ore. 17

Phil Youdene Co.: Drive-in Showroom for Fabrics: Seattle 18

Advertising Headquarters: Existing Red Brick Walls Offer Point of Departure: San Francisco 19

Pierre's: High-Style Patrons Shop in Remodeled Theater: Portland 20

SECTIONAL SHORING — Several new techniques to increase the versatility of the workhorse of modern concrete construction. 28

Covering California, Oregon, Washington, Idaho, Montana, Alaska and Hawaii—a $4 billion building market

SUBSCRIPTION RATES: Payable in advance. In U. S. and possessions, $4 for one year; Canadian, $5 for one year; Foreign, $6 for one year. Single copies, 50¢. Business news services also available are Pacific Construction Daily, Construction News Bulletin and Pacific Builder and Engineer.

PACIFIC ARCHITECT AND BUILDER is published monthly by Pacific Builder and Engineer, Inc., 2418 Third Ave., Seattle 1, Wash., and is mailed on the third Saturday of each month. Price: $4 per year. Acceptance under P.L.&R. 34.64 authorized.

Published by

Pacific Builder and Engineer, Inc. 2418 Third Ave., Seattle 1, Wash. Phone: MAin 0285

N. B. CHAPIN, President ROSCOE E. LAING, Manager

EDITORIAL STAFF: Robert E. Koehler, editor; D. F. McCormick, construction news editor; Anne Hecker, editorial assistant; Joan Storey, research assistant; Win Romtvedt (1109 S.W. Fourth Ave., Portland 4, Ore., CApitol 3-1229), Kenneth R. MacDonald (24 White St., San Francisco 9, Calif., GRaystone 4-8532), contributing editors.

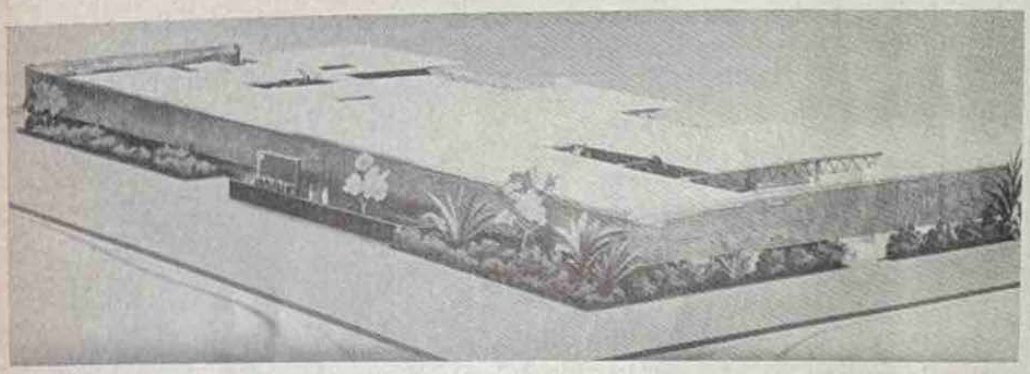
BUSINESS STAFF: L. C. McDowell, Paul N. Swanson, advertising; Phyllis Forth, production supervisor; Robert G. Hitchens, director of business services and circulation; F. S. Eggan, circulation manager; Alice Malloy, assistant circulation manager.



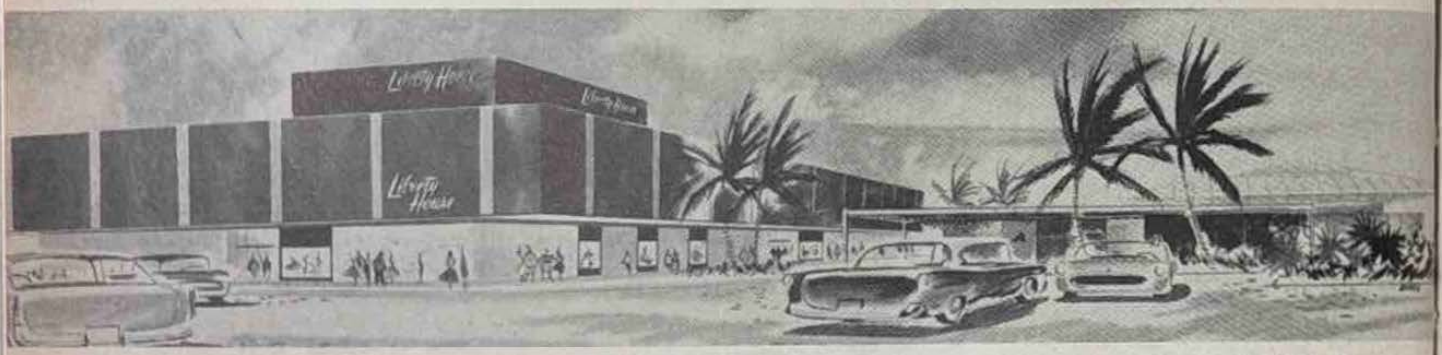
UNIVERSITY OF WASHINGTON TEACHING HOSPITAL in Seattle is shown at extreme left as it will ultimately look (except left-hand wing will have one less story) when added to Health Sciences Building. Contract awarded in May for 300-bed project provides contractor right to revert to 140-bed unit within 12-month period if sufficient funds are not available. Plans have been prepared by Naramore, Bain, Brady & Johanson, McClelland & Jones, associated architects.

PERSPECTIVES

by Pacific architects

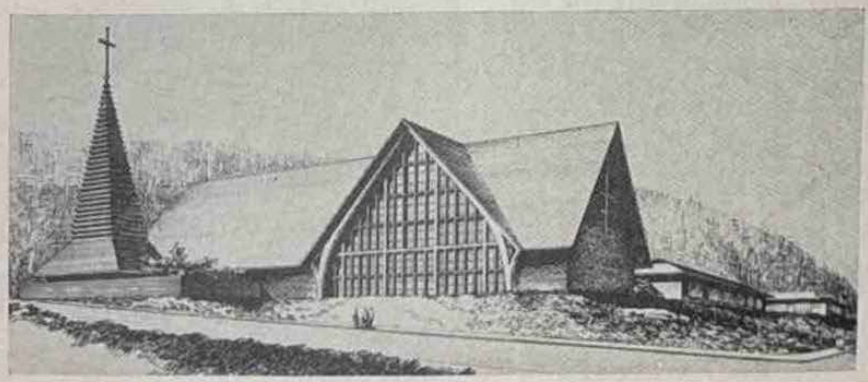


PERFORATED ALUMINUM SCREEN will envelope headquarters and research center for Adolph's, Ltd., in Burbank, Calif., enclosing landscaped areas and assuring privacy of all offices, yet allowing full use of natural light. Slated for completion early in 1957, block-long building will be constructed entirely of glass and steel. Design by Raphael S. Soriano, AIA, calls for flexibility of office arrangements since inside walls are non-supporting. Floors will be radiant heated.



HONOLULU'S FIRST full-scale suburban shopping center will become a reality when $3 million project is completed in fall of 1957. Liberty House Department Store and 35 other diversified tenancies covering 150,000 sq. ft. will be located in one-story, light steel building cluster with generous courtyards. Victor Gruen & Associates, who designed the original Liberty House store, are architects for new center.

FIRST METHODIST CHURCH in Portland is constructing sanctuary seating 800, two Sunday school buildings and administrative unit as first step in overall project consisting of series of structures grouped around private courtyards. Church will have brick walls, wood laminated arches, stained glass window facing east and clear glass window facing court. Other buildings will be of Douglas fir. Plans have been prepared by Stewart & Richardson.



Building News - Trends - Views

ARCHITECTS WILL TAKE A LONG LOOK at the role they play in California's growth and progress during their annual state convention October 10-14 at Yosemite National Park.

In his keynote address on Thursday, October 11, Dr. Stephen C. Pepper, chairman of the department of philosophy at the University of California, will speak on architecture as it relates to the world. He also will participate in the principal convention panel on the following day, which will include both architect and lay speakers.

Committees of the California Council of Architects, sponsoring organization, will hold open seminars on current developments in three types of buildings—homes, schools and hospitals. Two other committee seminars will deal with the architect's relations with the public and conduct of his office practice.

Other program highlights outlined by chairman William Corlett of San Francisco: the California-Nevada-Hawaii regional conference, AIA, led by director Donald Beach Kirby of San Francisco; business meeting of the State Board of Architectural Examiners; and a full schedule of social events starting with a reception Wednesday evening (registration day).

The Old Yosemite Lodge, directly across from convention headquarters in the new lodge buildings, will be occupied by the building products exhibition, limited this year to 55 because of space accomodations.

THE PARADE OF BIG BUSINESS MERGERS is led this month by Owens-Illinois Glass Co. and National Container Corp., whose directors have given the green light to the proposed consolidation.

SHORTAGE OF MORTGAGE MONEY is critical, says NAHB president Joseph B. Haverstick, who offers this advice to the 39,000 members: 1) Do not start construction or advance very far in project planning without written financing commitments for your long-term mortgage needs. 2) Keep production closely related to your sales volume. This is no time to risk either unsold or unfinished inventories. 3) If using warehousing, don't depend on extensions of warehousing agreements—they not be forthcoming. 4) Don't assume that the tight money market is temporary—because it may well get tighter. 5) If your profit margin has been squeezed down to the vanishing point (as many have), cut back your production instead of risking a loss from which you may never recover.

"Builder after builder is going out of business, converting to land development work, going into custom work or building a smaller number of conventionally financed expensive homes," Haverstick declares. "This is certainly not the way to house the great masses of our American people."

HOUSING HAS BEEN MAKING NEWS in other quarters too. Apartment house owners from across the nation who met for their 15th annual convention in Portland late last month were encouraged to cooperate in local programs to modernize and rehabilitate the "central cities" but to oppose "any form of public housing" . . . The counsel for the House subcommittee on housing goes to Hawaii this month to survey military and civilian housing needs on the islands. . . . Seattle and Los Angeles are among nine metropolitan areas for which data will be provided in the 1956 National Housing Inventory to be conducted by the Bureau of the Census beginning in December.

THE LOS ANGELES METROPOLITAN AREA is the third-ranking industrial center in the U.S. The Census of Manufacturers reports a 149.3% industrial increase from 1947 to 1954 in the area, forging ahead of Detroit and Philadelphia.

THE FRANK LLOYD WRIGHT ENDOWMENT FUND, a non-profit organization with offices in Chicago, will honor the architect of the proposed "cloudscraper," mile-high building to be erected on the shores of Lake Michigan near the Adler Planetarium, at a sponsored dinner in the Hotel Sherman October 17. Along with the food and an address by Wright, the guests will view an exhibit of writings, drawings and models covering his most important work during the past 65 years.

U. S. LUMBER PRODUCTION is holding steady at around 37 billion board feet annually, more than a third of the world's output.

THE TERRITORY OF ALASKA for the first time in its history is now empowered to bond itself up to the $20 million mark for public improvements. The bonding authority includes construction, alteration, equipping or acquiring all types of public buildings—schools, hospitals, colleges, offices, prisons—and other types of structures. It also provides for roads, water and sewer systems and similar public facilities.

NORTHWEST: ACCENTUATE THE REGIONAL

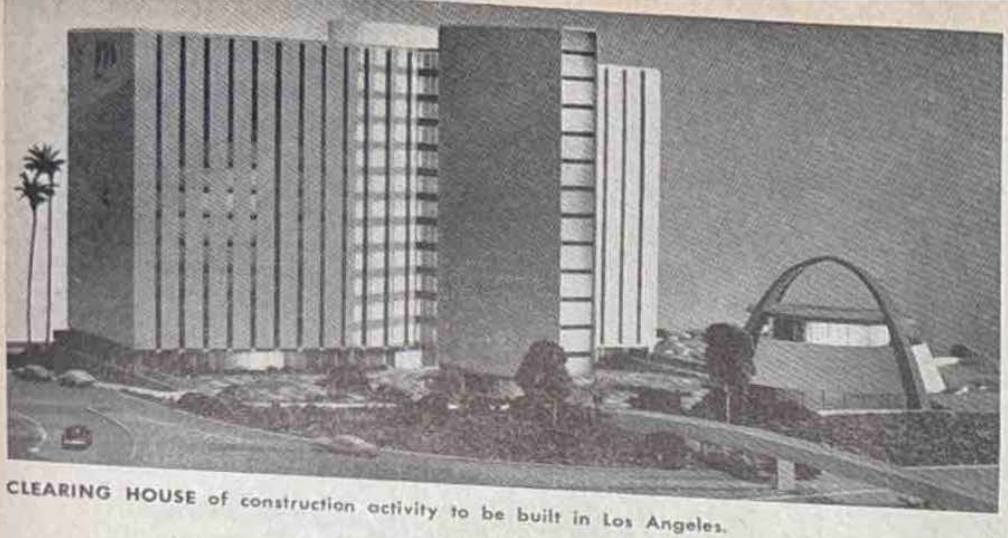
Winding up a most successful four-day conference in Tacoma September 9, the Northwest Regional Council, AIA, got a Sunday morning eye opener when delegates slapped the national institute on the wrist with a resolution which had almost unanimous approval. (PA&B for October will carry a complete report of the conference.) The original resolution, which would have proposed elimination of national conventions, was amended to put greater emphasis on regional conferences, including financial assistance, and to de-emphasize national meetings.

The delegates also gave full support to the architect-in-training program; and although no formal action was taken, they gave considerable discussion to the role of the AIA's public relations program. Nelson J. Morrison of the Southwest Washington host chapter was named as third member to the regional judiciary committee, with LaMonte J. Shorett of Washington State chapter as alternate.

DEAN OF TACOMA ARCHITECTS DIES

George Gove, FAIA, a leader in Tacoma architectural circles for the past half century, died August 31 at the age of 87. He was the last surviving member of the firm of Heath, Gove & Bell, which designed such projects as the Central School, Lincoln High School, First Baptist Church, Sixth Avenue Baptist Church, Central Lutheran Church and the Puget Sound Bank Building, all in Tacoma, as well as the Masonic Home in Zenith and the Northern Hospital in Sedro Woolley.

A native of Rochester, Minn., Mr. Gove came to Tacoma in 1908 following completion of architectural studies in Paris. He was a founder of the Tacoma Society of Architects nearly 40 years ago, a member of the Washington State chapter, AIA, since 1914 and elected to fellowship in the national institute in 1949. He served on the Washintgon Board of Examiners for Architecture for many years and helped to establish the Boys Ranch Home near Winlock.



CLEARING HOUSE of construction activity to be built in Los Angeles.

Los Angeles to get construction center

Ground was to have been broken this month for the $5 million, height-limit Construction Industry Center at the edge of Los Angeles' freeway network.

Sponsored by the 2,000 members of the Building Contractors Association of California, the center will draw together all segments of the industry into one giant headquarters when it is completed in the fall of 1957. It will include a 150,000-sq. ft., 13-floor office building, 13-floor elliptical exhibits tower, graphic arts center and tri-level parking facilities.

The center will house sales and administrative offices of product manufacturers, financial organizations, subdividers, architects, trade and professional associations. BCA president Ernani Bernardi says its completion will bring "realization of a dream we've always had for improving everybody's business with one clearing house of data and activity."

As designed by John C. Lindsay, AIA, the center plans call for dozens of features tailored to meet the needs of the construction industry, among them an expandable auditorium for sales and special events meetings. There will be facilities for closed circuit TV and the showing of sound motion pictures. Water, gas, electric and sewer outlets built in on the stage will facilitate live demonstrations for shows open to the public.

Included in the center will be a bank and a restaurant which will cater the monthly trade association meetings held elsewhere in the building. The roof garden will house the Greater Los Angeles Construction Club.

Office building construction will feature 10-ft. wall sections alternating with 36-in. glass panels, both running the full height of the structure and providing plenty of wall space for desk placement as well as natural lighting for each worker. Ceilings throughout are actually to be huge light panels with individual rheostats for increasing or diminishing light in any area.

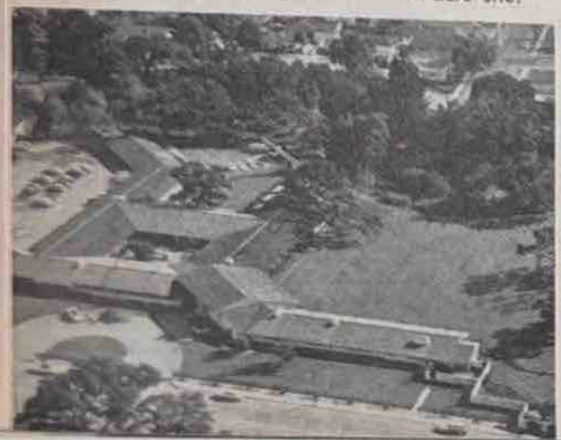
The permanent Tower of Exhibits—the core of which is to be the first all-glass elevator in America — will connect with the office building at each of the 13 floors by glass enclosed walkways and will provide a single dramatic showcase for the entire range of building products.

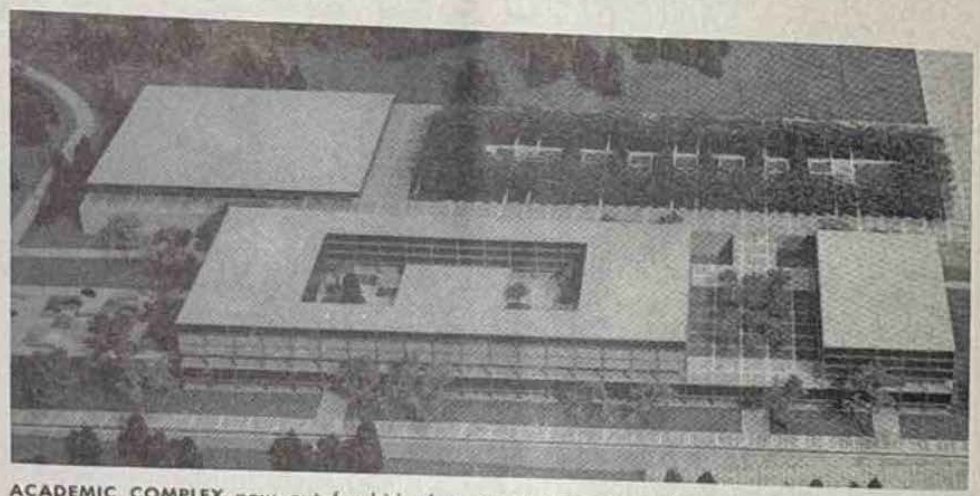
Landscaping award presented to Sunset headquarters

Built like a home but 25 times larger, the office headquarters building of Sunset magazine at Menlo Park, Calif., has been named only western winner in the third annual national "Plant America" competition for industrial landscaping, conducted by the American Association of Nurserymen. Thomas Church was landscape architect for the project, designed by Cliff May.

The ranch style structure is on a seven-acre site dotted with gardens and lawns. A 100-year-old olive tree grows beside a pond in the patio.

SUNSET HEADQUARTERS on seven-acre site.





ACADEMIC COMPLEX now out for bids does not include dining hall at upper left.

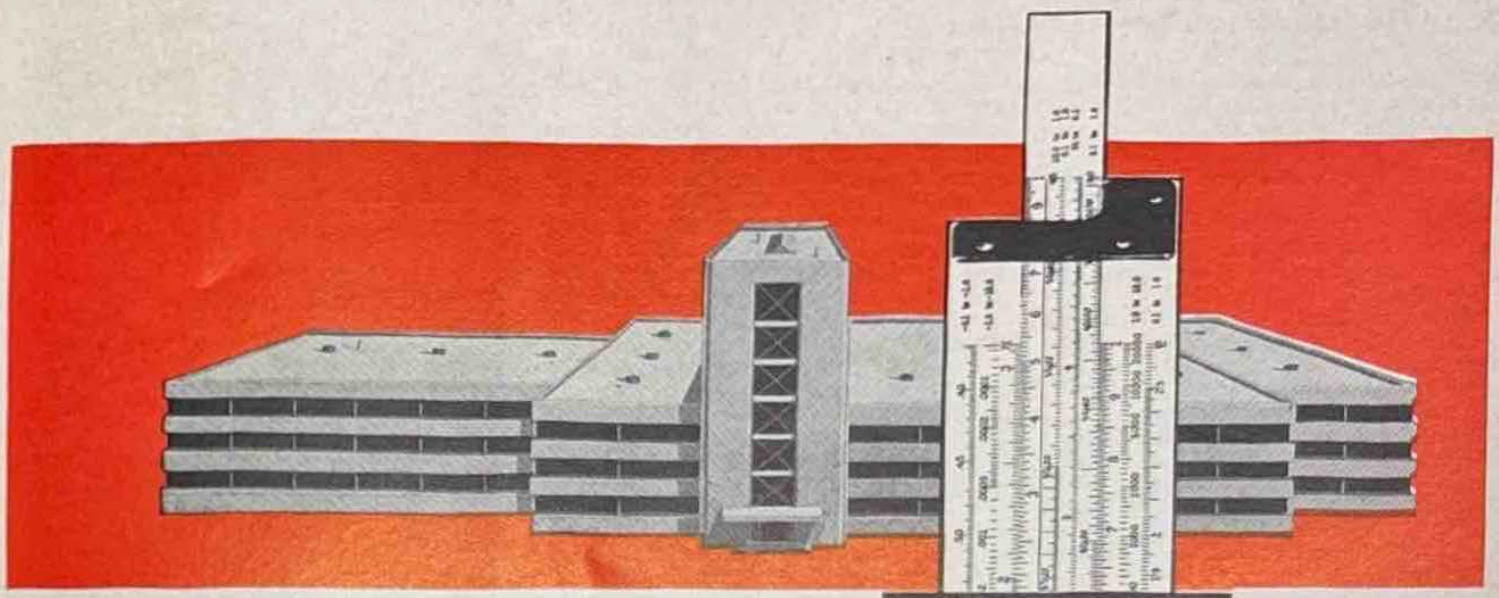
Air Force Academy to let first construction contract

With plans of all buildings, except the controversial chapel, now approved by Air Force Secretary Donald A. Quarles and his consultants, the Air Force Academy was scheduled to open bids this month on the first structure—the academic building.

Many details are yet to be worked out but the overall design of the academy near Colorado Springs, Colo., whose cost may hit $155 million, has been accepted.

Exterior wall enclosures of the academic building include these quantities: glass and aluminum, 118,000 sq. ft.; marble and aluminum, 38,000 sq. ft.; masonry and stucco, 25,000 sq. ft. Revised plans by Skidmore, Owings & Merrill, architects-engineers, have reduced the use of glass in exterior walls of all buildings.

The first contract calls for furnishing all materials except foundation caissons and structural steel.



ECONOMICAL
LIGHTWEIGHT
FIRE RESISTANT
MAINTENANCE FREE
EASILY ALTERED

THE PROOF OF THE ROOF

KAISER
STRUCTURAL GYPSUM
ROOF DECK

The Kaiser structural gypsum roof system is adaptable to curved or sloped, as well as to flat roofs. This offers maximum flexibility of design to the architect and engineer. The "plastic" nature of the system minimizes structural problems occurring at skylights, curbs, and other breaks in the roof plan.

Free flowing poured gypsum concrete sets rapidly into a light, strong, fire resistant roof. The undersurface of Kaiser Gypsum form board makes a clean, beautifully finished ceiling which requires no further treatment.

Kaiser Structural Gypsum Roof Deck system is particularly adaptable for use on commercial, industrial and institutional jobs. *For additional information and A.I.A. folder, write Kaiser Gypsum Company, Inc., 1924 Broadway, Oakland 12, California.*



KAISER GYPSUM
COMPANY, INC.
LONG BEACH · OAKLAND · ANTIOCH · SEATTLE

Two experimental houses for California

Eichler Homes X-100 is steel showcase

The Eichler Homes X-100 experimental house using light structural steel, designed by architects A. Quincy Jones and Frederick E. Emmons, is scheduled for public viewing this month.

Built in northern California at San Mateo Highlands, the all-steel Eichler home will not be offered as a production model. Instead it is being exhibited as a showcase of new ideas and new building materials as well as a preview of planning concepts that may be expected in merchant-built homes of a few years hence.

President Joseph L. Eichler, whose firm has built nearly 4,000 houses since 1946, has been a pioneer in contemporary design as applied to tract housing. His new X-100 is planned around an all exposed all-steel frame. No wall carries lateral or vertical loads and the 2,226 sq. ft. of enclosed living space are planned for maximum living.

All plumbing for the kitchen, laundry and bathrooms are contained in one central core and areas have been designed to flow into each other with complete integration of indoor and outdoor.

The house has only one hallway, between the bedrooms and the baths, and the entire space is devoted to living area, with three bedrooms, two baths, an all-purpose family room, living area, dining and kitchen related space and two special informal rooms.

In addition, there is an enclosed workshop of 84 sq. ft. adjacent to the carport and a large playyard for children just outside the bedroom wing. The covered carport serves as a second play area for children.

The exterior walls consist of three materials: special panels of high density overlaid plywood; panels of plastic with a honeycomb core; and steel framed sliding glass doors which form the skin of the house.

The plastic panels are used in areas where it is desirable for light to filter into the house but where privacy and insulation are also required.

The high density overlaid plywood panels, developed originally for use as pouring forms for concrete jobs, are 1-in. thick, as are the plastic panels. Sliding glass doors are used throughout with no other sash.

Exposed steel decking is used for interior ceilings; walls which serve only as boundaries for the spaces, rather than as structural units, may be altered according to changing family requirements.

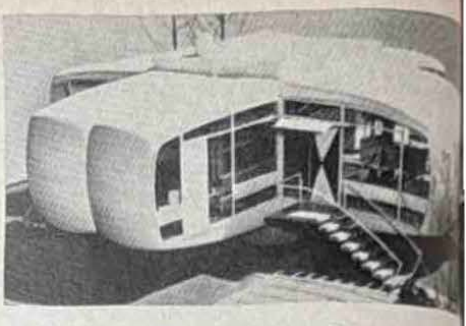
The latest built-in appliances for kitchen and laundry include new models in refrigeration, home freezers, wall ovens and cooking units which are an integral part of the dining table design.

Other members of the team constructing the new Eichler home include Douglas Baylis, landscape architect; Matt Kahn, artist; Knorr Interior Planners, interior designers; and Gump's, accessories.



ALL-STEEL HOUSE opens for public showing this month at San Mateo Highlands.





MONSANTO HOUSE set for Disneyland.

'House of Tomorrow'

Monsanto's "House of Tomorrow" will be built in Disneyland at Anaheim, Calif., with construction slated to start late this year.

Scheduled for completion early in 1957, the experimental house will demonstrate and test the use of plastics in home construction, the first test type model of its kind.

The novel design was created by architect Marvin Goody of Boston under the direction of Richard W. Hamilton, who heads a plastic research project sponsored by Monsanto at Massachusetts Institute of Technology.

It is based on a U-shaped molded unit, 8x16 ft., which forms part of a room's ceiling, wall and floor. In the simplest plan, eight molded units or modules are hung in pairs from a 16-ft.-square utility core to form four rooms, each 16x16 ft. The core contains kitchen, laundry and heating facilities and baths.

Several combinations of the components, including twin cores, make possible a variety of floor plans and great flexibility, comments R. C. Evans, director of marketing for Monsanto's plastics division. Rooms may be added or removed easily and economically to conform with the family's changing space needs.

The design, Evans says, is intended primarily to prove-out new architectural and engineering concepts utilizing the inherent properties of plastics and thus stimulate the use of plastics in achieving more satisfying ways of living five or ten years from now.

The design also will incorporate advanced methods of heating, ventilating, lighting, food preparations and preservation and plumbing. The use of movable and transparent walls and partitions will make the house suitable for the more leisurely indoor-outdoor living foreseen by economists and sociologists.

Evans emphasizes that while the "House of Tomorrow" lends itself to factory production, duplicates of it may not be available commercially, although many of its components or modifications may be. He adds that it was impossible now to estimate the cost of such a house or to say definitely how many or which plastics will be used in its construction.

Letters...

Civic Auditorium Competition

LOS ANGELES

Los Angeles, which has established itself as a leader in so many industries, has never been known as a center of architectural beauty. In fact, our city is often criticized for the heterogeneous collection of buildings known as our Civic Center.

As we approach the realization of the long-awaited Civic Auditorium, it seems inconceivable that we do not take advantage of a rare opportunity to establish ourselves also as leaders in architecture and city planning.

When the UN Building was under consideration, it was opened to an international competition, with Le Corbusier — one of the founders of modern architecture — participating and ultimately acting as consultant to the New York firm that received the assignment. This focused world-wide attention on both the building and the city of New York and the civic fathers are still receiving acclaim for having executed the UN headquarters in that fashion.

There is approximately $50 million at stake and the only proof that the money will be spent wisely and to the satisfaction of Los Angeles citizens lies in selecting the proper architect for the job. It is too great a risk to just be decided by a person or by a committee, which stands to be criticized from all angles if the completed auditorium is not architecturally acceptable. If, however, we poll, through a competition, leading architects of the country and the world, then the chances that the auditorium will be successful are greatly increased. The expenses of an architectural contest for preliminary sketches are negligible compared with the project.

We should not jeopardize this opportunity to make an important step forward in the progress of our city.

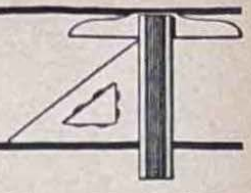
The convention of the American Institute of Architects held in Los Angeles this year adopted the resolution to suggest to federal, state or municipal public agencies that they consider the possibility of using competitions in selecting architects whenever feasible.

The best architectural talents in the country and the world should be invited. The auditorium project must be treated carefully because if badly done, it will draw more fire than our city needs at this point.

GEORGE DE MASIREVICH, AIA

T-square talk

about architects • planners • engineers



PLANE TRAGEDY: A body found at the mouth of the Eel River near Eureka, Calif., late last month was identified as that of Harold Farquar, 48, of Pleasant Hill, who only recently had joined a San Francisco architectural-engineering firm as educational consultant.

Farquar and his employer, Ernest Frederick Winkler, and a fellow employee, Clarence Fong of Berkeley, have been the objects of an intensive search since their light plane vanished on a flight from Eureka to San Rafael. Winkler's briefcase and a landing light and bucket seat apparently from their plane were washed up on beaches and found by Coast Guardsmen, who report that Winkler and Fong are assumed to have perished at sea.

DIED: Ralph Wycoff, president of the Central Coast Counties chapter, AIA, died in his sleep at the age of 73 at his San Jose home August 17. Wycoff, a native of Watsonville, practiced architecture throughout northern California before he moved to San Jose 34 years ago. He designed the San Jose post office building and several structures on the San Jose State College campus.

Fred F. Willson, AIA, of Bozeman, Mont., died August 13 at the age of 79. He was credited with designing almost all of the buildings in Yellowstone National Park except for this year's construction. He was one of the first students at Montana State College, which he attended for three years before being graduated from Columbia University in 1902.

J. Leigh McKenzie, 41, Portland architect who had started his own practice last year, died July 15, following a brief illness. During his 15 years' residence in Portland, he was employed in the offices of Lee Thomas, the Vancouver Housing Authority, and Edmundson & Kochendoerfer, with time out for service in World War II. He was graduated from the University of Oregon in 1938. Among the buildings which he designed were Sandy Junior High School in association with Donald W. Edmundson, a medical clinic at Gresham and Our Savior's Lutheran Church Sunday School addition at Oswego.

NEW PARTNERSHIP Walter W. Beeson, AIA, has become a partner in the firm of Henry Charles Burge and George W. Roach of La Canada, Calif., now known as Burge, Roach & Beeson. Formerly an associate in the firm of Daniel, Mann, Johnson & Mendenhall, Beeson was 1955 president of the Pasadena chapter, AIA.

SHARE OFFICES: New offices at 1328 S.W. 14th Ave., Portland, have been opened by William L. Fletcher, Donald Blair and John W. Reese, architects; Saul Zaik, designer; and Thomas A. Welch, contractor. The five young men, ranging in age from 29 to 36, are jointly occupying a pioneer house which has been remodeled. They will work independently but collaborate on larger projects.

Graduates of the University of Oregon, Fletcher, Blair, Reese and Zaik each has been associated with several Portland architectural firms. Reese also has been self-employed for the past three years. Welch, a University of Portland graduate, has been a general contractor for the past three years, specializing in the construction of four-plexes.

ON THE MOVE: The Seattle architectural firm of Steinhart, Theriault & Anderson now is located in its own new office building, designed by the partners, at Eastlake and Galer (EAst 3222).

Mary Alice Hutchins, AIA, who maintained her own office in Portland where she prepared specifications for various architectural firms, now is associated with Law & Wilson, Honolulu architects-engineers.

Warren Cummings Heylman, AIA, has moved to Suite 207, W. 1023 Riverside Ave., Spokane (RIverside 7-2550).

NAMED: Marshall Perrow, AIA, has been elected chairman of the Tacoma Planning Commission by his fellow members.

WINS COMPETITION: Ernest J. Kump, FAIA, architect and planning consultant with offices in Palo Alto, Calif., has been announced winner of an international competition for the design of two new planned communities to be constructed in Spain for the families of off-base personnel of the Joint United States Military Mission. The projects consist of complete communities to be developed in the suburban areas of Madrid and Zaragoza.

A fellow of the Royal Society of Arts, Kump recently was one of eight architects invited by the U.S. Department of State to participate in a closed competition for the new United States embassy to be built in London. He presently is designing the new embassy residence and staff housing in Seoul for the State Department.

Design and the landscape in which we live

Excerpts from a paper presented by the Los Angeles landscape architect at the sixth annual International Design Conference in Aspen, Colo. Garrett Eckbo also addressed the Northwest Regional Council, AIA, in Tacoma earlier this month and the national AIA convention in Los Angeles.

by GARRETT ECKBO

LANDSCAPE DESIGN is most successful when it produces recognizable units or continuities of outdoor space or volume, with special characters and proportions.

The definition of this space is accomplished by the placement of buildings, trees, ground forms, shrubs, rocks, water bodies, ground surface patterns, fences, walls and shelters in such a manner as not only to solve the technical and functional problems but also to impress the user or observer with the special quality of the space between and among these elements. This is the 3-D of landscape design, more important than patterns with flowers and paving, foundation planting, or pretty pictures out the windows, and inclusive of them. It is subject to endless variation in conception and execution, even as painting and sculpture, to which it is closely allied.

In the search for background and inspiration, the landscape architect must explore the world which is behind him in time and around him in space, the world of nature, the world of man and the new forms which the interaction of these two worlds can produce. Any rich rural countryside is an encyclopedia of forms and arrangements produced by the joint action of man and nature. History is important, but not in the old formal and informal copybook sense. The allied arts are important because each produces refinements and concepts which can inspire the landscape architect.

Architecture is important to landscape design because it is the primary expression in the landscape of human creativity and control of nature. It has a great tradition of bringing magnificent order out of manifold complexities, of putting great quantities of highly variable members and elements together in such a way that the result has a new and special identity, greater than the mere accumulation of parts. At best it represents the highest levels of human imagination, the broadest connection between abstract conception and concrete reality, the greatest steps toward production of a completely humanized environment. The fact that our communities generally fail to make use of this potential should not obscure its importance.

Nature is important to landscape design because it is the world of forces and processes within which we live and work, the world of which man and all his works are an inextricable part, no matter how broad the contradiction may become between his efforts to control nature and to preserve her. Although very often landscape design has to defend nature against the destructive attacks of man, its true constructive role is the establishment of connections, relations and adjustments, both physical and visual, between building sites and their surrounding landscapes, that is, between people and the total landscape around them. This means that in general landscape design must work with forms and materials derived from **both** the specific structures with which it works, and the specific sites and landscapes around them; or from **both** architecture and nature.

It is in the combination and interrelation of these diverse forces, in many complex patterns ranging from complete integration to complete contrast, that the vitality of the art lies. It is thus an art of continuity, of connections, of relations to existing forces, more than an art of pure and original conception, as architecture. Neither the Renaissance idea of forcing architecture on nature nor the romantic idea of forcing nature on architecture can solve our problems today.

Society is important to landscape design because it presents problems for solution and opportunities for production. The humanized landscape is the expression of social forces on the world of nature. For thousands of years landscape design officially solved problems for a small minority of the population — private parks, estates, villas, palaces. Central Park in New York initiated a new and unprecedented phase of landscape design in which the general public became the client.

The fact that these new park problems were solved largely with forms developed by the romantic movement in the 18th century should not obscure the importance of their impact upon the general landscape. There has been an increasing, and gradually accelerating, democratization of design processes since then. The private estate is no longer the only problem which the landscape architect will deign to touch. A whole new school of design has grown up in California around the problem of the small middle class garden. A large proportion of landscape graduates go into public service. Irrespective of the quality of work produced, the potential of these facts is for a broad improvement in the quality of the general landscape in which we all live. An unprecedented world situation in which general war has become impossible, in which we must choose between coexistence or no existence, impels us toward an unprecedented concentration upon the arts of peace.

With all this background, the primary sources of landscape inspiration lie in specifics: the specific character of the individual site, the specific nature of the people involved, the specific nature of the materials available and the specific possibilities for creation of outdoor space.

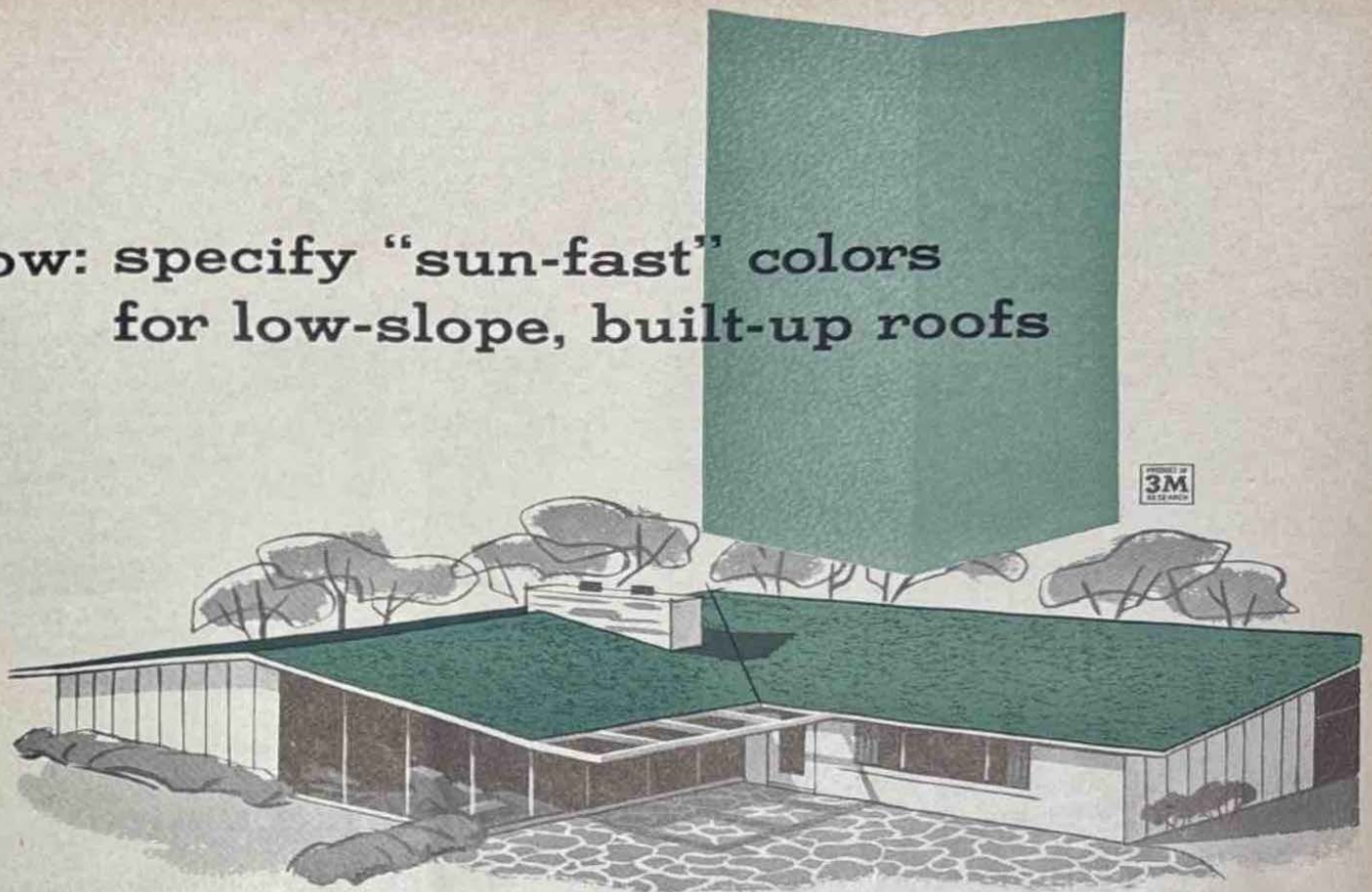
Typical landscape problems today are: small, medium and large gardens; estates; schools, hospitals, churches, clubs, community centers; shopping centers, colleges and universities, public building complexes; parks—small, medium, large. These can be boiled down to typical groups: private gardens, public grounds, parks and public recreation spaces.

Private gardens make up a large part of the total area of humanized landscape, are greatly variable in the detailed relations between house and site, the broad and intricate play of individualized creativity, personal expression by choice and whimsy, family life, and the range from visual pleasure through outdoor living to active gardening, from utility gardens through living gardens to show gardens. They also involve the greatest concentration on detailed humanized scale and intimate livability. It might also be said that the majority of private yards never become gardens in the sense of these words.

Public grounds are front yards whether for houses or city halls. They are spaces to look into rather than

Continued on page 33

Now: specify "sun-fast" colors for low-slope, built-up roofs



3M's new coarse aggregate roofing stones offer lasting beauty and protection in 8 beautiful colors

Here is a brand-new color-styling opportunity for you. 3M Brand Ceramic-Color Stone offers beauty *and* lasting protection — opens up an entirely new field of decorating possibilities because you may select from 8 color-fast shades! Colors are "fired on" by the same special process used in making 3M Roofing Granules . . . supplied to the building trades for over 30 years.

Special treatments developed by 3M Research make 3M Brand Ceramic-Color Stone dust-free and "sun-fast" — with maximum adhesion to asphalt. The material will not strip, roll or wash away leaving bare, unsightly patches. Stones are durable, uniformly graded, dense, fully opaque to provide complete protection against damaging ultra-violet rays.

The pebble-sized stones pack tightly on roof-tops . . . create the appearance of depth and ruggedness with a built-in shadow effect. 3M Brand Ceramic-Color Stone is shipped *dust-free* in 100 lb. bags. All colors available from a single source.

LOOK AT THE COLORS

DARK GREEN	CR16	RED	CR22
BRONZE	CR49	CORAL	CR29
BROWN	CR41	LIGHT GREEN	CR17
BLUE	CR87	SILVERTONE	CR95

3M BRAND

CERAMIC-COLOR STONE

Manufactured at Little Rock, Ark. and Corona, Calif.

Made in U.S.A. by Minnesota Mining and Mfg. Co. General Offices: St. Paul 6, Minn. In Canada: P.O. Box 757, London, Ontario. Export Sales Office: 99 Park Avenue, New York City.

SEND TODAY FOR SAMPLES!

Minnesota Mining and Mfg. Co.
Dept. OC-96, St. Paul 6, Minn.

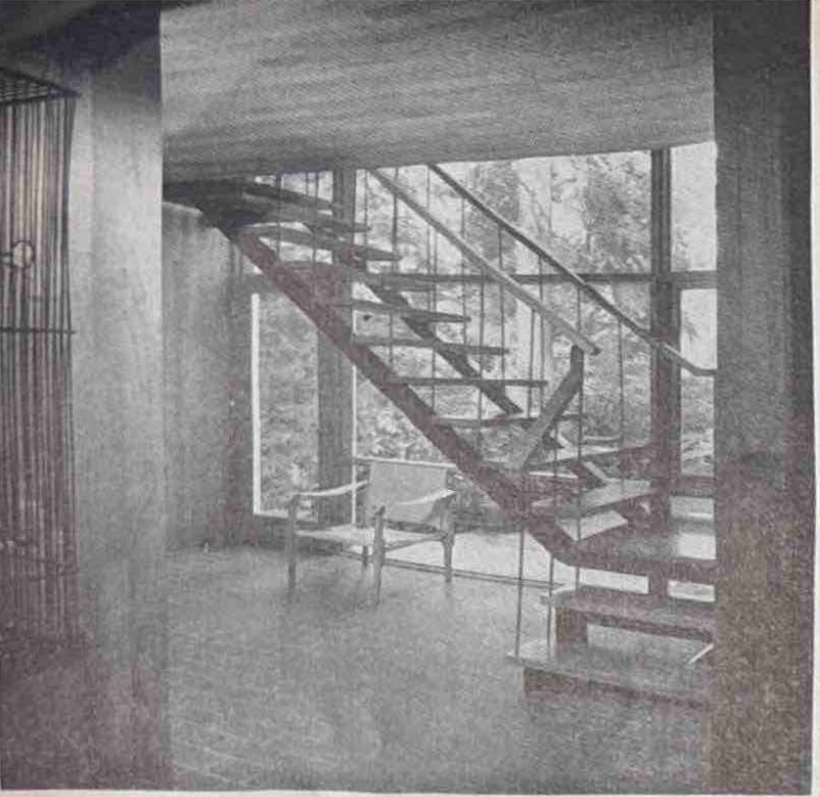
- ☐ Send me FREE sample box of 3M Brand Ceramic-Color Stone
- ☐ Send me FREE booklet on 3M Brand Ceramic-Color Stone
- ☐ Send me name of Distributor nearest me.

NAME _____ TITLE _____

COMPANY _____

ADDRESS _____

CITY _____ ZONE ____ STATE _____



Charles R. Pearson Photo

Addition to David M. Johnson Residence
Gravelly Lake, Washington

ALAN LIDDLE, AIA, Architect

ALLEN HAMPTON, Contractor



CONTINUATION of existing roof lines and use of same type rough boards help to blend addition at left end of house with original structure. Inside, generous entry hall ties old and new portions together.

Entry hall serves as fitting transition

A GENEROUS ENTRY HALL served as the matchmaker in the marriage of an existing World War I house with a contemporary addition.

The clients wished to retain certain desirable features of the original house, among them large rooms and a two-story living room with a massive stone fireplace under the balcony leading to the bedrooms; they did not want to continue the dark wood paneling and small windows into the new addition.

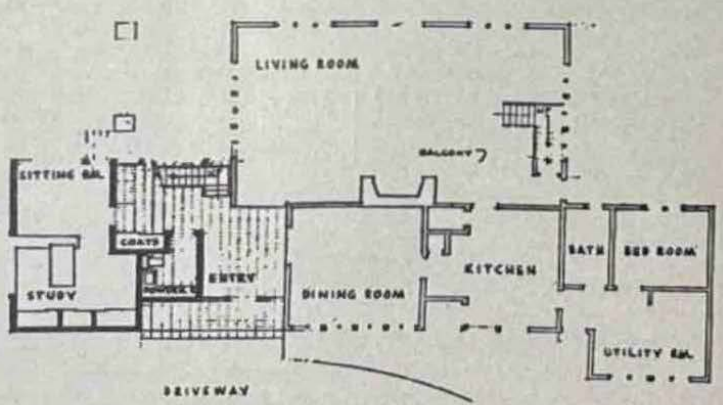
To maintain unity, the architect continued the lines of the existing roof and used the same type rough boards for the exterior siding, painted to match.

One of the main requirements was an ample entry hall, since access to the old house was directly into the living room from the front porch. Its focal point is an open stairway, built with steel stringers and mahogany risers. It seems to float in front of a two-story window which provides a view of woods and Gravelly Lake. The hall is covered with quarry tile to accommodate the heavy traffic; the walls and ceiling are paneled with golden stained oak flooring.

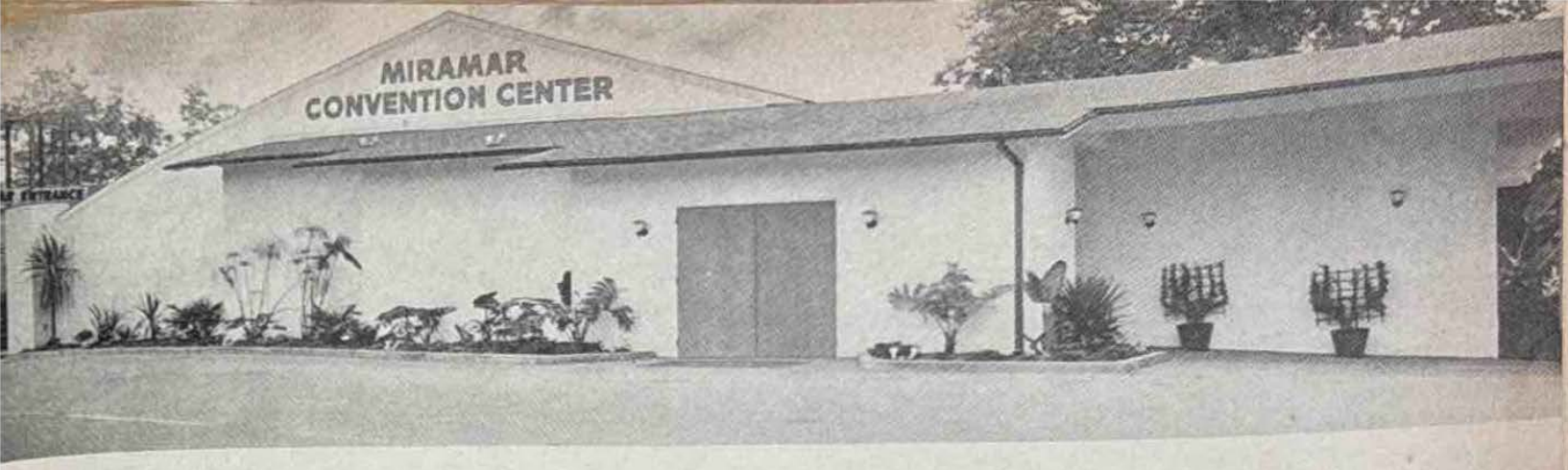
A powder room for guests and a combination study-sitting room, which doubles as an office, is off the entry. Upstairs is a master bedroom with floor-to-ceiling windows overlooking the trees and the lake. The hall connects with the existing balcony, from which the children's bedrooms are reached.

OUTLINE SPECIFICATIONS
(Addition)

Type of Construction: Frame.
Exterior Walls: Painted cedar.
Roof: Shingled.
Windows: Stopped in wood.
Doors. Wood slab, both inside and out; Pella wood folding doors.
Floors: Frame covered with quarry tile.
Interior Walls: Sheetrock and painted wood trim on drywall partitions. Oak flooring in entry.
Ceilings: Oak flooring in entry.
Stairway: Mahogany risers mounted on steel stringers.
Date of Completion: June 1954.



ADDITIONS TO FIRST FLOOR PLAN are indicated by heavier lines.



Old garage becomes a convention hall

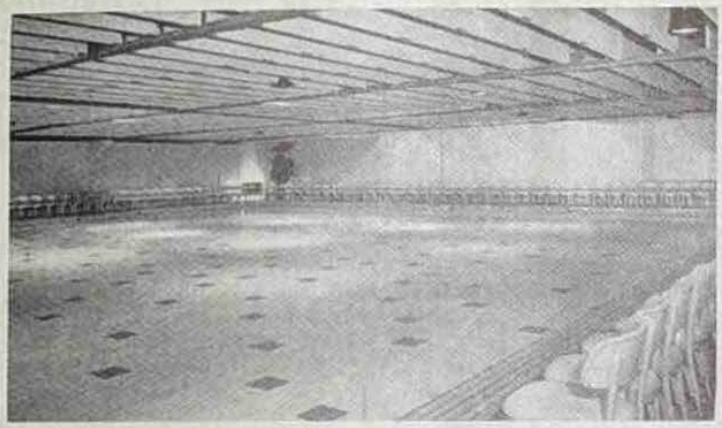
Miramar Convention Center
Santa Barbara, California

LUTAH MARIA RIGGS, AIA, Architect

PETER DAVISON & SONS, General Contractors



GOLD ROOM (right) is ideal for meetings or banquet groups up to 130. All furniture is movable. With two stand-up bars, it also is used as registration lobby and for private parties. Fiberglass baffle arrangement in ceiling provides good acoustics for Miramar Room (below). It has capacity of 575 diners, can be used as exhibition hall.



THE MIRAMAR HOTEL, with its own private ocean beach, swimming pool, tennis courts and 200 rooms, had everything any organization could want for a successful convention — except an adequate meeting hall. The owners felt that such a hall could be obtained by using the former garage.

When the architect completed her assignment, the raw steel girders, corrugated sheet iron roof and blackened concrete floor had been converted to an ultra-modern structure with two huge rooms seating more than 700 diners under one roof and with table-free room for more than 1,000 attending meetings. The Miramar Room (5,500 sq. ft.) and the Gold Room (1,500 sq. ft.) are separated by doors and extensive use of soundproofing.

The convention center is in a steel frame building with outside walls of masonry. The concrete slab floor is covered with asphalt tile and carpeting.

The 6-in. steel basement girders supporting the floor joists and those from the ceiling struts to the roof were covered with fireproof plaster. The roof itself is the sheet iron that covered the garage, but building and fire regulations called for extra measures when the conversion took place. The roof's inner surface was coated with insulation and its top covered with plywood sheets, then a generous sheathing of insulation and a covering of asphalt shingles, painted blue in keeping with the resort's overall color scheme.

The ceiling joists of the first floor are independent of the second floor and the area between has been soundproofed. The second floor ceilings are of exposed beams, with 2-in. solid sheathing.

Fireproofed steel trusses span the 75 ft. of the building and in between each truss are suspended acoustic

OUTLINE SPECIFICATIONS

Type of Construction (original building): Steel frame, 105x78 ft.
Exterior Walls: Masonry.
Roof: Original corrugated sheet iron covered with plywood sheets, 1-in. insulation and painted asphalt shingles.
Floors: Concrete slab covered with asphalt tile and carpeting.
Ceilings: Painted acoustical plaster, Gold Room; acoustical baffles, 24 in. high and 14 in. long, spaced at 24 in. on centers, suspended between fireproof steel trusses in Miramar Room.
Lighting: Each light on separate rheostat, providing combinations of illumination on center and sides of each room.
Special Equipment: Flexible loud speaker system installed by B. E. Harberts Co. to connect eight microphones, FM and standard broadcast receivers and three-speed phonograph; fully equipped banquet kitchen with three specially designed refrigerators; two stand-up cocktail bars.
Total Cost: $200,000.

Convention Center

baffles, 24 in. high and 14 ft. long, spaced at 24 in. on centers.

A giant air conditioning and heating system installed in the basement adjusts the temperature inside the hall to changes caused by body heat of large crowds.

The center has a completely flexible loud speaker system, using 1,150 ft. of wiring to connect eight microphones, FM and standard broadcast receivers and a three-speed phonograph. Each of the two rooms has eight microphone jacks.

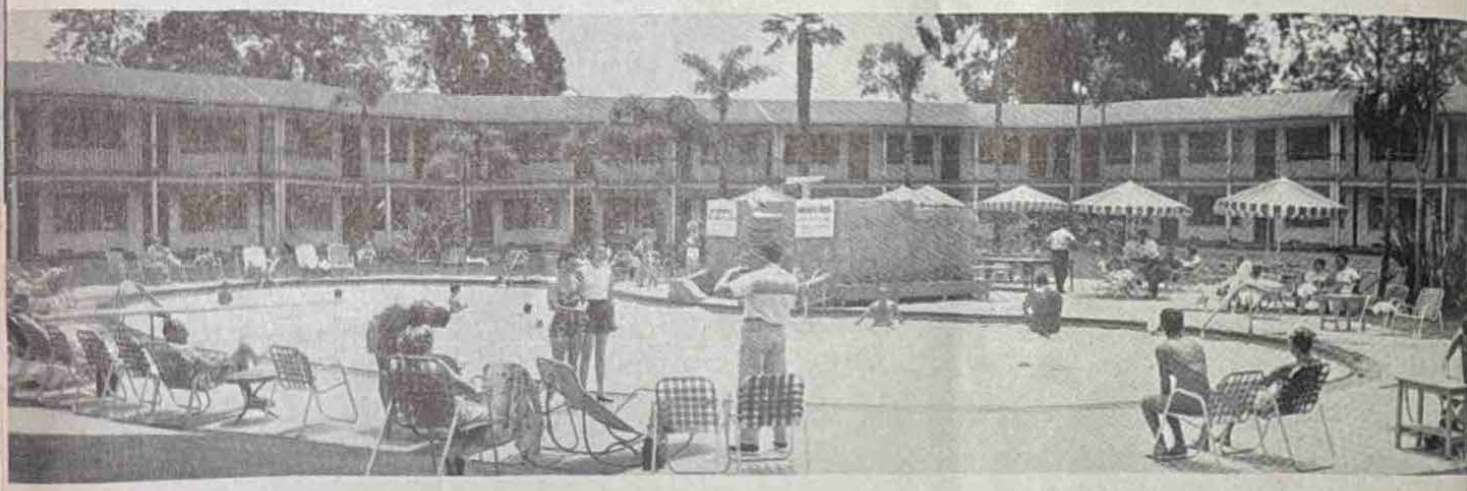
The lighting system provides combinations of illumination on the center and at the sides of each room. Each light is on a separate rheostat and the interior may be dimmed or brightened by twisting a knob on the switch panel.

Picture molds were installed on all walls for convention displays and all doors are wide enough for a 1½-ton truck to drive directly onto the hall floor for display purposes.

The Miramar Room, on three sides, has raised platforms covered with carpeting and designed for seating sideline audiences at auto shows, dances, etc. The Gold Room has wall-to-wall carpeting in a deep piled woolen fabric and green luxury lounge type furniture. The high-sound absorption plastered walls are used as background for original paintings by Santa Barbara artists.

Both rooms are served by a $35,000 high-speed banquet kitchen equipped to accommodate 575 diners in the Miramar Room and 130 in the Gold Room. It has three king-size specially designed refrigerators with racks to hold foods which are prepared in advance of banquets. The kitchen also is equipped with a battery of service carts, each with a 100-plate capacity and with an electric cord which is plugged to an outlet on reaching the dining room to keep food hot for an hour. Using these carts the Miramar can serve 475 steak dinners in 18 minutes flat.

The convention center can be operated by a crew of 90 which is capable of handling 700 diners and clearing the hall within 30 minutes after dinner has been completed.



Miramar Hotel Addition

Besides the convention center, the expansion and modernization program at the Miramar has added 47 new bedroom units, a $300,000 project designed and built by the same architect and general contractor. The motel type units form a semicircle around the swimming pool and look out on the Pacific Ocean at the rear. The front windows also frame the Santa Ynez Mountains.

The rooms are insulated against sound in all four walls, ceiling and floor. Windows, for example, are double panes of glass, set in felt. Built-in dressing tables and mahogany wardrobes are featured in each room; baths have built-in pullmans with tile tops.

MAJORITY OF POOLSIDE BEDROOMS are triples in that they have set of twin beds plus one full-size duo-studio bed. Each room, 16x23 ft., has ceiling-to-floor double-thickness drapes and three original water colors of Santa Barbara scenes.







Tom Burns Jr.

Springfield Cleaners
Springfield, Oregon

DONALD H. LUTES
Architect

F. D. HOLLISTER
General Contractor

Real face lifting for $5,750

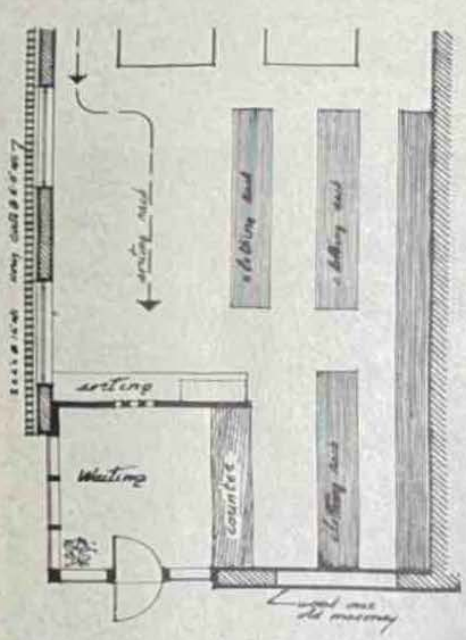
THE CLIENT DESIRED that 1) his cleaning establishment be opened up for better light on his wares and 2) additional clean clothes storage be provided. In accomplishing these two objectives, the architect hoped to make the building—originally Springfield's first bank with 12-in. masonry walls—specifically more indigenous to the lumbering town environment and generally more attractive. That he was successful is reflected in part by the fact that business increased 6% last year while other cleaners in the city were down in sales.

The first requirement was met by knocking out the corner of the structure and replacing it with glass. The designer did this with full recognition of the southwest sun problem, feeling that the added openness as a form of advertising justified some draping or screening a few months of the year. The glass is carried all the way up to the roof joists, then drops down at the sign to the existing ceiling joist level.

Relocation of the entry not only met the second requirement but afforded a more visible reception area. A full-length partition screens the sorting area, and three small windows (blue glass for one-way vision) allow the sorters to see customer as they enter.

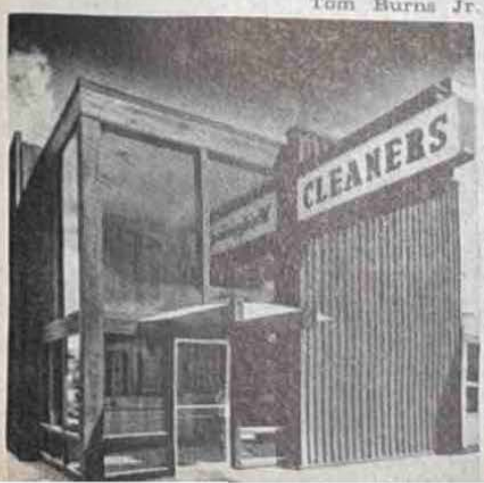
The entire building is skinned with cedar. On the west side 2x4s 6 in. on center, held out from the face to permit drainage behind, cut off the view of the old wall with its many and varied openings. The front wall is faced with 1-in. rough sawn cedar; 1x2 battens cover up the old entrance. Two side doors are reached through gates in the 2x4 facing as are the windows for cleaning.

The interior is a repeat of the exterior, the finish being smooth cedar and battens with a new paint job on the plaster side walls. The ceiling tile is glued to stripping which was applied over the old plaster.



SIGN is integral part of building. Corrugated plastic between projected structural beams carries lettering and is repeated in canopy.

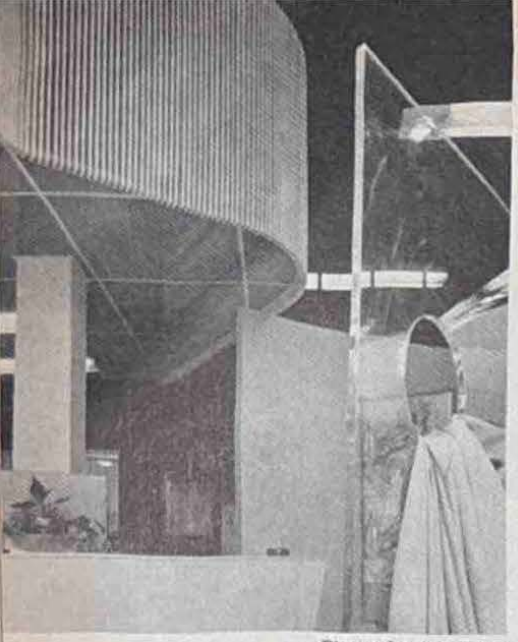
Tom Burns Jr.



OUTLINE SPECIFICATIONS

Exterior Walls: Stained cedar siding.
Windows: Stopped in wood.
Doors. Aluminum frame, exterior.
Floors: Concrete slab covered with linoleum in entry, asphalt tile in service areas.
Interior Walls. Smooth cedar and painted plaster; drywall partitions.
Ceilings: Acoustical tile.
Cabinets: Wood.
Lighting: Incandescent spots and floods.
Heating: Warm air from cleaning plant boiler.
Total Cost: $5,750.
Date of Completion: June 1955.

Drive-in showroom for fabrics



Photos by Art Hupy

PLASTIC SHEETS with circular cut-outs "float" fabrics in air at entrance window display. White birch vertical louvers serve as background.

FABRIC BUYERS throughout the Northwest and Alaska who consider this showroom to be one of the finest on the Pacific Coast probably don't realize that the building originally housed a car-dealer-garage. Its location on the very fringe of Seattle's shopping center and close proximity to department and furniture stores, specialty shops and hotels made it an ideal site with one exception: the traffic problem made parking difficult and the shipping of the wholesaler's large daily orders a slow and costly process.

The architect solved the problem by retaining the car-service entrance of the old garage and enough floor space to park 30 to 35 vehicles. Now clients need only to drive into the entrance where a uniformed attendant takes over. The loading and shipping problem was solved just as nicely. The truck ramp to the third floor from an incline side of the street was kept intact to facilitate receiving and shipping merchandise.

The front of the three-story structure was done over in stained redwood and painted brick. An Arizona sandstone planter at the entrance extends into the showroom.

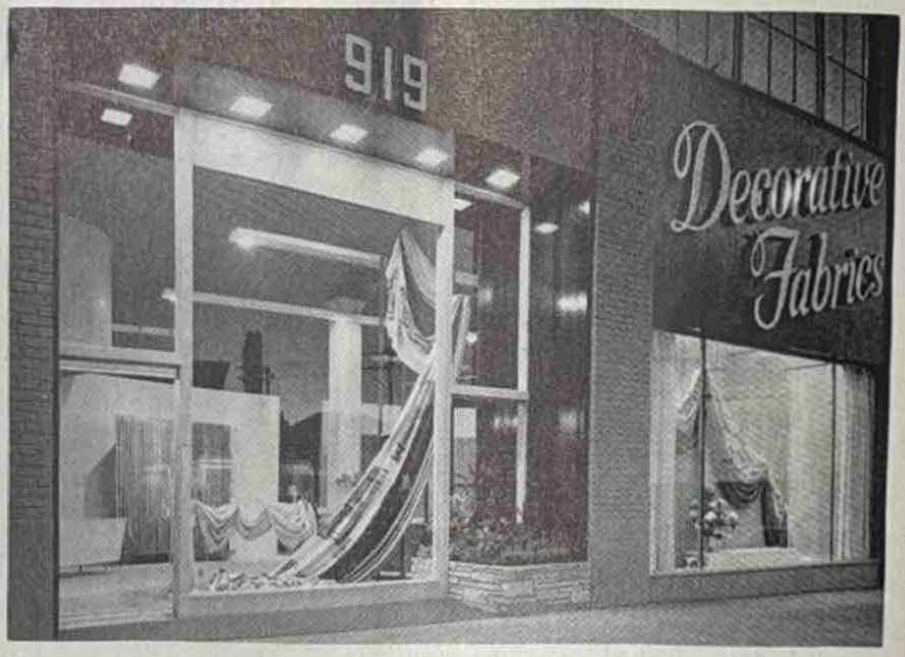
Lines of seasonal importance are highlighted in the main showroom where some 500 different styles are shown from large and tall multiplex racks. Displayed from three-hinged clear plexiglass sheets with circular hole cut at varying heights, the fabrics seem to float gracefully in the air. Vertical louvered frames of white birch are used as backgrounds.

Neutral colors which do not conflict with the displayed samples are used throughout the showroom and soft colored panels hide a series of offices. An adjoining salesroom displays the firm's more prosaic lines. The remainder of the building contains ample warehouse space, cutting and processing rooms and employee lunchrooms.

Phil Youdene Co.
Seattle, Washington

LaMONTE SHORETT, AIA
Architect

E. F. SHUCK CONSTRUCTION CO.
General Contractor



DRIVE-IN ENTRANCE is to right of display windows which permit full view of interior. Multiple racks are supported by expanded metal lath and black iron pipe display wing. Lucite chain from ceiling holds samples. Fabric covered plywood surrounds PBX at reception desk.

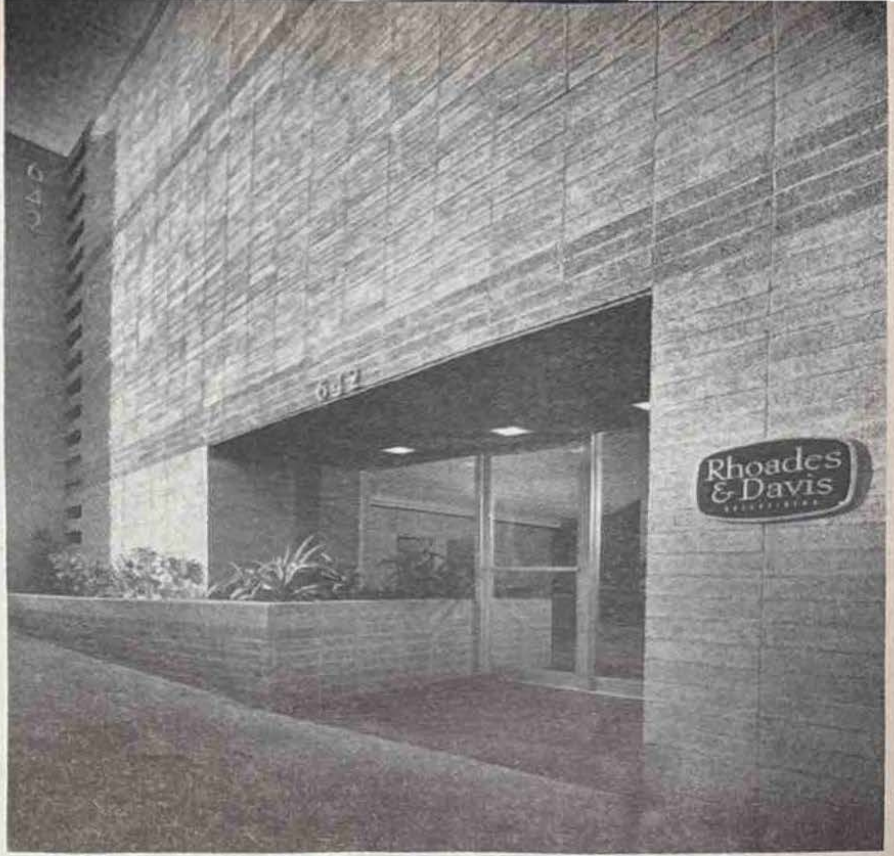


OUTLINE SPECIFICATIONS

Exterior Walls: Stained redwood and painted brick.
Doors: Tempered glass and birch slab.
Floors: Carpeting over concrete slab.
Interior Walls: Frame with plasterboard and birch slats.
Lighting: Fluorescent and recessed floodlights.
Heating: Existing hot water system.
Total Area: 40,000 sq. ft.
Total Cost: $42,000.
Date of Completion: November 1954.



ORIGINALLY PLANNED for Rhoades & Davis advertising agency, since merged with Honig-Cooper Co., windowless building now is occupied by central advertising department of Safeway Stores, Inc. Office seen above uses existing brick wall of old structure.



Advertising Headquarters
San Francisco, California

Brick walls offer point of departure

BRUCE E. HEISER, AIA
Architect

MILLS CONSTRUCTION CO.
General Contractor

OUTLINE SPECIFICATIONS

Exterior Walls: Brick and biege Basalite concrete blocks.
Roof: Pabco 20-year specification.
Floor Finish: Marble, vinyl plastic, terrazzo, Armstrong asphalt tile.
Doors: Stock mahogany.
Interior Walls: Exposed brick and Basalite concrete blocks, walnut and mahogany paneling. U. S. Gypsum Rocklath.
Ceilings: Fiberglas suspended.
Heating: Atlas plant.
Air Conditioning: Atlas plant.
Total Cost (alterations): $32,000.
Total Area: 6,290 sq. ft. (2,330 sq. ft., first floor; 1,980 sq. ft., second and third floors).
Date of completion: August 1954.

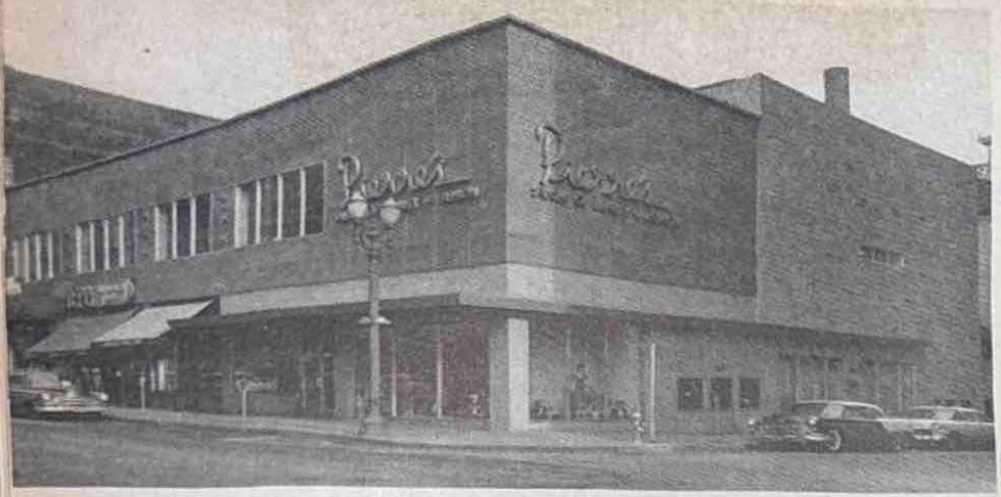
THE ORIGINAL STRUCTURE had three "beautiful" walls of rough red brick which were retained as part of the new building's interior. In view of the location, just on the fringe of San Francisco's produce market and within walking distance of Chinatown, the architect and client agreed to keep the building windowless and use the exterior as a means of beautifying the neighborhood.

The entire facade is of beige lightweight masonry blocks, and the recessed entrance and reception lobby were planned as a single unit, separated only by the plate glass walls and door. The exterior was livened up by providing a large outdoor planting area which extends through the plate glass into the lobby itself. Inside, the shrubs reach from long low planters on a black marble floor toward the glass ceiling a full three floors above.

The noise and confusion often common to advertising agency offices were eliminated by the adoption of an overall traffic plan which locates the copy, art, production and supply departments, as well as the main reception lobby and a spacious corridor, on the street level floor. The second floor houses the media department, conference room, coffee lounge and model kitchen used in testing products; the third floor, executive offices and the secretarial staff.

The architect utilized striking contrasts in textures throughout the building: smooth glass next to sandblasted brick; heavy carpeting next to polished marble; white mahogany next to pressed cork; silk screen-printed wallpaper next to rippled glass. He also used generous amounts of walnut paneling, aluminum and fiberglass and provided large planting boxes on all three floors.

The fully air conditioned building is illuminated with cold white fluorescent lighting with occasional clusters of spotlights. Specially designed cabinets were custom built into the conference room to hold television and sound film equipment.





Pierre's
Portland, Oregon

High-style patrons shop in remodeled theater

REMODELING of Portland's Music Box Theater into a women's specialty shop presented a number of interesting problems. The concrete balcony was torn out and used for fill material to make a level surface for the new concrete ground floor slab; a steel frame erected to carry the second floor; stairways altered or removed and vertical traffic facilities, including a service elevator, constructed to accommodate the two floors and basement.

The concrete frame and solid brick exterior filler walls of the original structure (built in 1911 as the Peoples Theater) were left intact, while brick parapets and elaborate cornices that were added in later alterations (in 1929 when it became the Music Box) were removed. The stripping of the existing stuccoed brick veneer facing made possible the addition of new textured brick veneer and porcelain enamel panels.

Sheet metal cantilevered on steel framing is used for the marquee and eyebrow; polished cast aluminum for the design of the window mullions. The identification signs, designed by the architect, are executed in stainless steel, backlighted by cold cathode tubes.

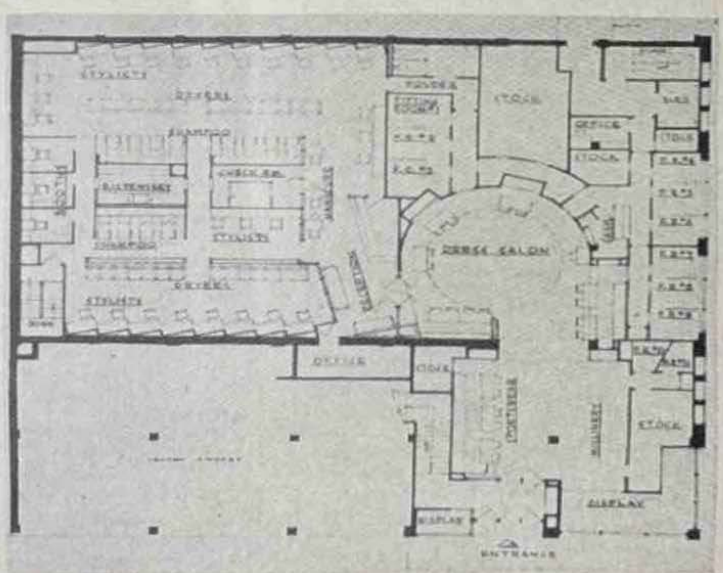
The aluminum store front and entrance with its ceramic tile floor make a sedately attractive point of entry for the fashion-minded shopper. The bold rubber tile floor which highlights the sports and millinery departments is in sharp contrast to the rich, thick carpeting of the dress salon, which repeats the color in various tones throughout its decor. The circular salon means that customers and sales people alike have a short walk to fitting rooms, separated by three partitions and further divided by folding doors. Access to stockrooms also is speedy.

Exterior show windows are draped to enable a second use of these areas as fitting rooms during store hours. This same functionalism is found throughout the building, with work areas necessary for the operation of each salon made easily accessible. The basement and second floor are devoted almost exclusively to service operations, allowing the maximum area for sales and display on the first floor.

HOLMAN J. BARNES, AIA, Architect
LOUIS ELLINGWOOD, Structural Engineer
TELLER CONSTRUCTION CO., General Contractor

OUTLINE SPECIFICATIONS

Exterior Finish: Porcelain enamel and Willamina split tile.
Floors: Concrete slab covered with ceramic tile, vinyl tile and carpeting, first floor; Q-deck with concrete-wearing slab, second floor.
Windows: Kawneer aluminum.
Doors: Kawneer aluminum, entrance; flush birch, interior.
Interior Walls: Painted plaster.
Ceilings: Painted plaster.
Total Area (remodeled): 14,000 sq. ft.
Total Cost: $184,500.
Cost per Square Foot: $13.10 (including fixtures).
Date of Completion: November 1954.



ON THE NEWS FRONT WITH STRUCTURAL STEEL



First floor of Oregon store is twice size of city block

The first floor of Meier & Frank's new department store in Salem, Oregon, is the largest expanse of merchandise on one level in the Pacific Northwest. It is the first branch store built by Meier & Frank, well-known as Portland's largest emporium. Containing four levels—a lower level, first floor, mezzanine, and second floor—this handsome store is framed with structural steel supplied by Bethlehem to Stevens Equipment Co., Salem, who fabricated the steelwork.

For low structures, such as this store, the economies and other advantages of structural steel are just as valid as they are for multi-story buildings. Steel framing is adaptable to any architectural design; and it provides maximum flexibility of floor layout.

Architect: Welton Becket and Associates, Los Angeles; *Associate Architect:* James L. Payne, Salem; *Steel Fabricator:* Stevens Equipment Co., Salem; *Contractors:* Hoffman Construction Co., Portland and Viesko & Post, Salem.



Shoppers can step right out of their cars and walk directly into the store. Double-spiral ramps give access to space for parking 1000 cars.

BETHLEHEM PACIFIC COAST STEEL CORPORATION
Sales Offices: Los Angeles, Phoenix, San Francisco, Portland, Seattle, Spokane

BETHLEHEM STEEL

BETHLEHEM PACIFIC

Building volume eases off in August by 6%

AFTER A RECORD MONTH in July, building permit volume in the five western states nosed down to a $245 million total in August, a 6% drop from last month. The total is also 3% below August of last year.

Although three states showed increases over July, the overall total was pulled down by a 9% drop in California dollar volume and a 29% decrease in the Montana figure. Oregon was up 5% over the previous month; Washington, 25%; and Idaho, 24%.

Compared to last August, only Washington recorded an increase, 18%. California dropped 5%; Oregon, 11%; Idaho, 2%; and Montana 37%. However, August of last year was a boom month.

For the most part, major cities and counties reported decreases compared to a year ago. Los Angeles was down $5½ million; Los Angeles County, $½ million; San Francisco, $4½ million; Multnomah County, $1¼ million; Portland, $3 million; and King County, $2 million. The Seattle total, swelled by the permit for an addition to the University of Washington Teaching Hospital, was $7 million higher than last year. Orange County was up $3 million; Sacramento County, $1 million; and San Bernardino County, $1¾ million.

By the end of August the total for 116 agencies in the five states was $1,834,702,985, a bare 2% higher than the January through August figure for 1955. California is running 3% higher; Oregon, 4%; Montana, 4%; and Idaho, 7%. Washington is a bare 1% behind.

Following is a breakdown of building permits issued by several of the major agencies during August.

	DWELLING UNITS		COMMERCIAL & INDUSTRIAL		PUBLIC	
King County	547	($4,842,941)	59	($ 876,636)	8	($1,382,287)
Seattle	199	(2,769,690)	17	(264,600)	4	(9,045,700)
Tacoma	183	(610,440)	57	(647,720)	7	(366,500)
Orange County	735	(5,963,171)	63	(2,555,635)	28	(2,587,261)
Sacramento Co.	616	(5,044,086)	57	(525,454)	15	(2,002,737)

Building Permit Totals for 116 Western Agencies for August 1956

CALIFORNIA	August 1956	July 1956	August 1955
Alameda County	$ 2,772,900	$ 2,237,136	$ 2,912,050
Anaheim	4,047,762	4,404,014	7,063,804
Bakersfield	1,567,838	6,393,481	516,432
Burbank	1,438,665	713,595	1,687,462
Contra Costa County	2,725,636	3,834,744	5,137,140
Fresno	2,009,107	930,255	3,051,477
Fullerton	1,186,035	1,527,956	3,608,473
Glendale	1,047,191	1,873,762	1,430,736
Inglewood	1,156,448	1,131,931	1,025,864
Long Beach	3,227,425	4,233,720	4,495,580
Los Angeles	49,422,515	47,317,341	56,012,719
Los Angeles County	37,648,177	29,985,673	38,145,838
Oakland	3,748,369	3,176,980	3,490,359
Ontario	1,582,283	258,245	2,061,982
Orange County	11,333,746	7,364,900	8,286,308
Palo Alto	3,086,078	1,550,628	1,566,287
Pasadena	1,852,479	4,081,640	1,113,073
Pomona	1,327,318	1,264,388	1,355,198
Richmond	2,428,434	1,051,987	1,185,605
Riverside	1,536,557	1,699,565	1,995,444
Sacramento	2,768,367	4,447,336	1,549,614
Sacramento County	7,660,009	5,666,158	6,549,661
San Bernardino	1,958,913	1,162,676	1,567,590
San Bernardino County	9,440,459	39,622,309	7,692,425
San Diego	6,662,540	7,572,778	8,577,499
San Diego County	3,965,900	4,646,850	2,747,935
San Francisco	3,846,308	6,050,207	8,293,476
San Jose	3,883,778	9,098,500	2,241,485
San Mateo	1,085,919	672,020	2,724,045
San Mateo County	2,372,088	1,416,765	3,142,170
Santa Ana	4,172,150	3,496,542	3,207,257
Santa Monica		1,411,102	996,953
Stockton	755,360	1,339,735	707,507
Sunnyvale	2,890,098	1,623,445	1,681,145
Torrance	4,276,291	4,921,784	4,522,012
West Covina	3,108,460	6,186,835	1,499,867
TOTAL	$193,991,613	$215,366,983	$203,842,472

OREGON	August 1956	July 1956	August 1955
Albany	$ 107,672	$ 79,970	$ 64,800
Astoria	104,709	33,118	26,356
Baker		13,150	49,857
Bend	112,030	160,450	83,078
Coos Bay	197,195	54,425	111,555
Corvallis	318,101	490,580	119,870
Eugene	1,621,738	808,365	440,399
Grants Pass	106,175	178,065	46,240
Gresham	31,050	53,700	92,225
Hillsboro	54,775	140,595	96,880
Klamath Falls	409,999	157,127	110,160
LaGrande	48,280	42,800	46,428
Lane County	791,990	702,861	1,123,650
Medford	157,986	335,982	340,919
Multnomah County	2,165,612	4,481,681	3,534,220
North Bend	1,143,022	48,751	80,622
Oregon City	26,263	40,020	26,585
Pendleton	293,590	265,300	173,221
Portland	3,868,195	3,241,595	6,993,740
Roseburg	62,451	126,505	98,660
Salem	870,667	518,075	472,986
Springfield	194,682	90,585	131,115
The Dalles	78,100	85,648	103,142
TOTAL	$ 12,764,282	$ 12,149,348	$ 14,366,708

WASHINGTON	August 1956	July 1956	August 1955
Aberdeen	$ 70,991	$ 516,057	$ 161,797
Anarcortes	119,555	133,044	107,990
Auburn	80,075	137,420	43,950
Bellingham	337,028	377,118	346,065
Bremerton	130,870	167,760	162,607
Centralia	55,678	92,662	85,582
Chehalis		20,331	51,851
Clarkston	73,490	34,694	26,831
Ellensburg	129,440	37,400	62,045
Ephrata	61,925	64,950	165,750
Everett	1,162,853	307,309	334,180
Kelso	35,500	48,500	57,700
Kennewick	123,285	81,180	462,930
King County	6,781,965	4,263,990	8,930,490
Kirkland	79,800	63,825	492,000
Longview	268,390	234,837	255,709
Moses Lake	162,008	259,332	359,797
Olympia	122,067	128,408	205,817
Pasco	93,385	52,835	237,900
Pierce County	1,662,504	2,129,200	1,768,018
Port Angeles	754,352	52,900	27,890
Puyallup	147,975	78,250	144,775
Ritzville	33,550	22,000	14,160
Seattle	14,009,085	6,275,770	7,108,640
Shelton	19,600	102,150	56,700
Spokane	2,398,360	4,347,577	2,239,577
Spokane County	2,305,659	1,738,026	2,259,937
Sumner	13,900	4,200	10,500
Tacoma	1,854,753	4,366,625	1,464,500
Vancouver	692,135	464,461	831,728
Walla Walla	116,230	240,855	119,395
Wenatchee	300,470	197,410	162,470
Yakima	301,586	683,409	516,698
TOTAL	$ 34,498,464	$ 27,724,485	$ 29,275,979

MONTANA	August 1956	July 1956	August 1955
Billings	$ 276,400	$ 636,300	$ 1,315,150
Bozeman	69,000	279,300	141,450
Butte	75,079	72,759	122,007
Glasgow	16,825	89,150	136,318
Glendive	37,800	47,325	49,550
Great Falls	483,884	1,117,605	806,925
Helena	977,127	388,765	420,370
Kalispell	128,850	400,200	311,450
Lewistown	23,900	52,400	179,200
Livingston	35,338	30,860	13,675
Miles City	52,136	72,164	37,358
Missoula	129,600	41,500	140,250
TOTAL	$ 2,305,939	$ 3,228,328	$ 3,673,703

IDAHO	August 1956	July 1956	August 1955
Boise	$ 338,396	$ 377,527	$ 419,757
Caldwell	221,925	81,925	87,680
Coeur d'Alene	111,300	111,290	195,550
Idaho Falls	695,840	455,144	397,431
Jerome	18,300	19,200	71,800
Lewiston	111,830	90,151	144,945
Nampa	108,650	171,875	225,410
Payette	56,650	7,850	8,385
Pocatello	208,434	177,724	303,109
Sandpoint	13,300	13,650	41,000
St. Maries	14,000	2,700	15,200
Twin Falls	231,050	203,350	272,595
TOTAL	$ 2,129,675	$ 1,712,386	$ 2,182,862
GRAND TOTAL	$245,689,987	$260,181,530	$253,341,724

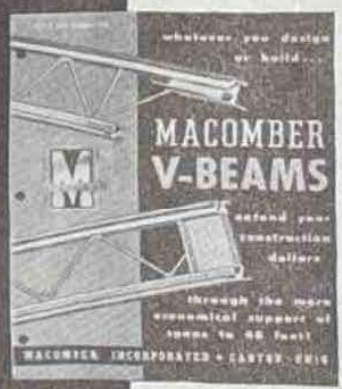
THE MACOMBER V-BEAM

A BRUTE for Strength



PATENTED
U. S. Patent Nos.
2,184,113
2,457,250
2,457,056
2,624,430
2,662,272
AND PATENTS PENDING

a structural product that delivers more for the money



Send for your V-BEAM Catalog

IT IS SIGNIFICANT that the Designing-Building team of America finds ONE USE of Macomber V-BEAMS such convincing proof of unparalleled strength and economy.

You can verify the truth of this statement by checking your next floor and roof framing requirements within the 48 foot span range of V-BEAMS with your nearest Macomber Representative.

STANDARDIZED STEEL BUILDING PRODUCTS

MACOMBER INCORPORATED

CANTON 1, OHIO

• ENGINEERING • FABRICATING AND ERECTING •

NAILABLE STEEL JOISTS
•
LONGSPANS
•
BOWSTRING ROOF TRUSSES
•
METAL DECK
•
V-LOK STEEL FRAMING
•
STRUCTURALS

Materials – Products – Tools

and the latest literature

TEMPERED HARDBOARD: Forest Fiber's Sandalwood, the first prefinished, light colored, tempered hardboard, is especially tough and rugged and can even be used for floors. Its baked-in surface resists weather, abrasion and staining.

Sandalwood, which can be used "as is," or painted if desired, is available with a regular or punched surface. Panel sizes go from 4x4 ft. to 4x16 ft.

(Item No. 1)

DRAFTING AID: As a reference aid for engineers and draftsmen, Johnson Research has produced a handy decimal equivalent table in the form of a ready-to-apply Transeal. Transparent with easy-to-remove waxed paper backing, it is self-adhering and can be printed to any specifications. Transeal eliminates repetitive drawing time on paper, vellum and cloth and ite matte surface readily accepts inking without the use of "non-crawl" preparations.

(Item No. 2)

ACOUSTICAL TILE: A non-combustible acoustical tile with the appearance of stippled plaster is now available for use in residential, commercial and institutional building. Latest addition to the Owens-Corning Fiberglas line is Fresco which has a rough finish.

Fresco is offered in 12x12-in. and 12x24-in. sizes with butt joints. It can be installed either on a concealed mechanical suspension system or adhered directly to the underside of any surface.

(Item No. 3)

POOL FILTER: A swimming pool filter which can be assembled in less than an hour has been designed so that owners of the smallest home installations can enjoy its advantages, although it is available in six sizes for pools ranging up to 150,000-gal. capacity.

The Fabro filter underdrain eliminates the need for layers of gravel, making it possible to use only sand in the filter. Other features: oversized leaf strainer, rustproof filter vessels, preassembled valves and fittings and chlorinator.

(Item No. 4)

SOUND-CATCHER: To minimize deafening noises that bounce around in factories and other enclosed premises where sound is "out of bounds," United States Gypsum has developed a new portable "sound-catcher" which can reduce apparent loudness level by as much as 50%.

Sold under the trade name Acousto-



INDUSTRIAL "SOUND-CATCHER"

sorber, the unit is composed of an outer sheet of perforated aluminum foil backed with a mineral fiber blanket, 2 in. thick. It is shipped in flat sheet form to the jobsite where it is easily shaped along pre-embossed lines into a boxlike pyramid. The acoustical unit is 28 in. long on a side, has an altitude of 24 in. and weighs about 1¾ lb. It is suspended from the ceiling on wires which are attached to a stapling flange on the unit.

(Item No. 5)

DRAFTING BOARD: Designed to reduce draftsman fatigue, the Easy Shift vertical drafting board has an up and down adjustment of 20 in., permitting the draftsman to work, seated or standing, at optimum visual angle in a comfortable position on any area without bending or stretching.

The board comes in two models, one with fixed angle of 15 deg. from vertical and the other adjustable through an arc of 85 deg. from vertical. A drafting machine rests on the drawing with feather touch.

The frame is of tubular steel construction; the board itself of lightweight, aluminum lined honeycomb sandwich construction, warp-proof and sufficiently rigid to withstand heavy loads without deflection.

Item No. 6)

BUILDING PAPER: A polyethylene sheet added to Richkraft's line of building papers is used as a water barrier and for moisture- and dustproofing over subflooring, under roofing, on the warm side of walls, around foundations and in crawl spaces and under slab.

Impervious to bacteria, rot or mildew, Richlite makes a low cost tarpaulin on painting jobs, serves as a waterproofing cover for equipment and material and meets all requirements for curing concrete. It is offered in 2-, 4- and 6-mil weights in widths up to 20 ft.—100 ft. to the roll.

(Item No. 7)

DIVIDER WALL: Semi-private office units can be created from open floor space in a matter of minutes with Hauserman divider wall partition. The unit is offered in two types: unglazed, at a height of 43 in. from the floor, including legs; and glazed, at a height of 66 in. from the floor. There is a 4-in. space between the bottom of all panels and the floor.

The divider wall features instant, snap-in panels, leveling devices on legs, concealed wiring channel, baked enamel finish and plastic glazing strips for inserting and removing glass panels without danger of chipping.

(Item No. 8)

RADIANT HEATING: Berko Electric has introduced its first 2,000-watt glass radiant heating unit, providing a greater concentration of wattage per square inch than previously obtained. With the increased heat output, one unit can take the place of two or three formerly required to heat large areas.

Models HW-20 and HWT-20 (with thermostat) have a tempered Pyrex brand glass heating element, capable of withstanding over seven watts per square inch output.

(Item No. 9)

Latest Handbooks, Manuals and Literature

Yours for the Asking

COMBINATION FIXTURE: The Mult-Vent Trofferlite, a dual-purpose fixture which diffuses conditioned air and provides illumination, is described in an eight-page booklet containing cutaways, exploded views, sound level charts and data pertinent to selection of correct fixture parts. Suggested installation procedures and applications are included.

(Item No. 10)

OUTDOOR LIGHTING: Architectural floodlighting and outdoor lighting for shopping centers, suburban businesses and commercial parking lots are the topics of two bulletins released by General Electric.

The eight-page publication illustrates various methods of floodlighting public and commercial buildings, fountains, industrial plants, motels, shopping centers, banks, etc. It discusses the four "musts" found in an efficient, economical floodlighting installation and includes a table of

recommended footcandle levels for buildings exteriors.

The 12-page bulletin defines basic lighting terms, describes several applications of effective outdoor lighting and provides a table designed to help in making preliminary plans for an outdoor lighting installation.

(Item No. 11)

STEEL DOORS: Recommended specifications have been prepared by the Steel Door Institute to aid the architect and builder in specifying and using standard stock items — flush type interior steel doors, frames and sliding closet door and frame units — in all types of construction. The products covered by this recommendation are generally used in residential housing, apartments, hotels, motels, schools and light commercial and industrial structures.

(Item No. 12)

WINDSTORM DAMAGE: A 40-page technical publication on how to prevent windstorm damage and help save lives and property is intended for use by architects, engineers and others concerned with building standards. Entitled "Windstorm Damage Prevention," the National Board of Fire Underwriters booklet deals with the frequency of these storms, their occurrence and characteristics and their effects on buildings.

The publication points out that windstorm losses occur in a variety of ways, ranging in extent from damaging paint by windblown debris to complete collapse of a structure. But by attention to details of design and construction, much can be done to reduce losses from hurricanes and even tornadoes.

(Item No. 13)

HOSPITAL COMMUNICATIONS: Executone's "Better Patient Care" tells how hospitals make maximum use of nursing time and skills and includes a summary of time and motion studies made by the Surgeon Generals' Offices of the Army and Air Force.

Illustrated and described in detail are multi-audio-visual nurse call systems which permit patient calls to be answered from many points on the floor; doctors' paging systems; bedside radio-sound systems providing patient entertainment through pillow speakers; and administrative intercom systems for two-way communication within and between departments.

(Item No. 14)

BATHROOMS: Gerber tells you "How to Build More Bathroom Appeal into Your Homes" in a 16-page booklet which illustrates eight ways to do it economically through proper use of new fixtures. For example, instead of chain and plug fixtures, you can have pop-up drains; instead of a washdown closet, you can have a reverse trap closet.

(Item No. 15)



STRUCTURAL STEEL IN USE

STRUCTURAL STEEL: "Steel for the Structures of America," a 24-page picture booklet issued by Allied Structural Steel, shows a number of recently completed buildings, schools, hospitals and bridges in color as well as black and white. Among the projects shown in the structural steel erection stage: the University of Kansas Fieldhouse, the Diagnostic Building of the Mayo Clinic and the Sylvania Electric Products Co. plant.

(Item No. 16)

ACOUSTICS: In its 16-page booklet Armstrong discusses technical aspects of acoustical treatment in non-technical terms. Well illustrated, "Quiet at Work" provides data needed in choosing materials for specific uses and summarizes advantages of each product type in chart form.

(Item No. 17)

SOUND SYSTEMS: Brief and non-technical text highlights three brochures, each an eight-pager devoted to RCA sound systems. One is concerned with hotels, another with churches and a third with public address sytems. Intallations in two California projects are described and illustrated: the Beverly Hilton Hotel, Beverly Hills, and Bay Meadows Race Tract, San Mateo.

(Item No. 18)

METAL LATH: Methods of attaching metal lath directly to horizontal wood supports are discussed in the latest technical bulletin published by the Metal Lath Manufacturers Association. The specifications section recommends methods for nailing metal lath to wood studs and nailing or nailing-and-tying metal lath to wood joists. Various tables and a page on wood construction details round out the bulletin.

(Item No. 19)

WINDOW PROCESS: A steel window finishing process that eliminates the need for painting is introduced in Fenestra's four-page brochure. Called Fenlite, it consists of eight steps: vapor degreasing, pickling, rinsing, liquid fluxing, oven drying, zinc alloying, passivating and chemical polishing, final product assembly. The process reportedly protects the steel with an alloy bonded, high luster, zinc surface.

(Item No. 20)

PLYWOOD TIPS: The home builder primarily will be interested in the latest United States Plywood booklet which deals with a variety of phases of hardwood plywood. Such headings as "Where to Use It," "How to Use It" and "How to Select It" indicate the scope of the material.

A section presenting ideas for treatment of individual rooms is supplemented by color plates showing the grain pattern and color of the 10 most popular hardwoods. Information about thicknesses, construction and face matching effects is another feature. A reference guide to Weldwood includes a brief description of all types of panels and suggestions for their use.

(Item No. 21)

SLIDING GLASS DOORS: To furnish architects, contractors and the public with complete information on its product, the Sliding Glass Door and Window Institute has developed a brochure for general distribution. The 12 pages include photos applicable to new residential construction and the commercial field; a nomenclature of stock door sizes; and a listing of institute activities.

(Item No. 22)

READER SERVICE

Pacific Architect and Builder
2418 Third Ave., Seattle 1, Wash.

Please send the literature or data about the material, products and tools listed on these pages.

SEPTEMBER 1954

ITEM NO. (Circle those you wish): 1 2 3 4 5 6 7 8
9 10 11 12 13 14 15 16 17 18 19 20
21 22 23 24 25 26 27 28 29 30 31 32

Name _____ Title _____

Firm _____

Address _____

City _____ Zone ____ State _____



CEILING DIFFUSER made by Connor Engineering Corp. is simple dome shaped fixture extending but few inches below ceiling and usually painted same color as latter.

Ceiling diffusers

Ceiling diffusers, outlets originally developed for commercial and industrial use, are now being applied in homes, particularly where there is year-round temperature control.

These devices stem from air conditioning. Since people are more sensitive to cold than to warm air motion, warm air grilles and registers as cooled air outlets were frequently found inadequate. What was needed was a means of introducing air in such a way as to be draftless, yet provide roomwide circulation and even temperatures. Though space, occupancy and other conditions are not as critical in the average home as in many commercial buildings, requirements are still basically the same and ceiling air diffusion in homes offers several advantages.

The ceiling air diffuser is really an air mixer. It mixes supply or incoming air with the room air so rapidly that by the time the mixture reaches the living area, its velocity is virtually imperceptible and temperature is at the desired level. And radial discharge distributes the cooled or heated air evenly and thoroughly in all directions. Hence with a properly designed overhead system there are no drafts nor over or under-conditioned spots.

A ceiling diffuser has roughly twice the air mixing ability of a grille because air discharge is in the form of a thin disc-shaped stream. The greater surface area of the air stream, what engineers call aspect ratio, the more room air it entrains and mixes.

An important element in the diffuser system is the return air grilles which are located in the baseboards under the windows. Warm air, being lighter, has a tendency to stratify in the upper part of the room but the grilles, continually drawing off the cooler floor level air, help to pull it down into the room.

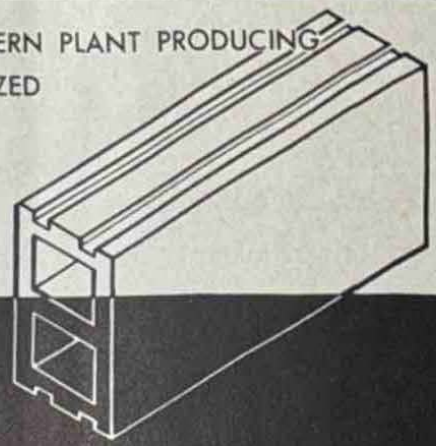
Installation of the overhead system is the same as for forced warm air methods with the exception, of course, that the supply ducts are in the attic rather than the basement. In ranch houses ducts are laid across the joists in any way convenient and in the expansion attic house they are run between the joists and floored over.

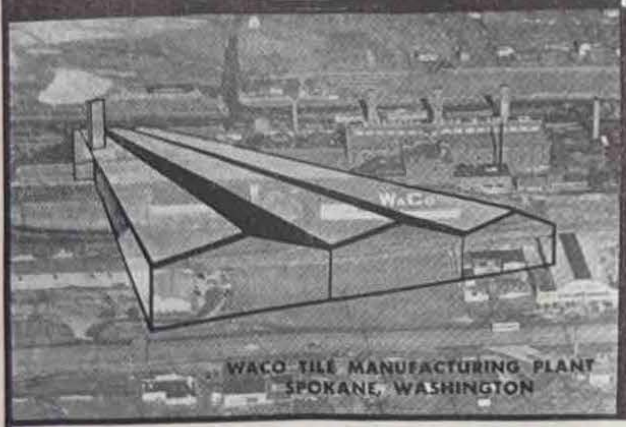
Basement headroom is saved by making the joists serve as return ducts. This is done by joining two joists at the bottom with a strip of sheet metal.

While cooling may not be installed when the house is built, by providing for its eventual addition the owner can protect the resale value of his property. This seems all the more logical when a heating plant that can

WACO TILE

A NEW MODERN PLANT PRODUCING QUALITY GLAZED STRUCTURAL TILE FOR YOUR JOB





WACO TILE MANUFACTURING PLANT SPOKANE, WASHINGTON

- ARCHITECTURALLY-SELECTED COLORS
- QUALITY CONTROLLED
- PERMANENT MODERN BEAUTY

WaCo-Tile is distributed over the Pacific Northwest and Alaska . . . the nearest source to your job.

Write now for specifications and detailed information!

WASHINGTON BRICK & LIME CO.

SPOKANE • PORTLAND • SEATTLE

MEMBER WESTERN STRUCTURAL TILE INSTITUTE

be easily converted to cooling is well in line, costwise, with other types. The ceiling diffuser method, because it embodies accepted air conditioning features, is preferred by heating and air conditioning authorities for the all-year system.

At the Beverly Hilton

The basic design of the $17 million Beverly Hilton Hotel in Beverly Hills, Calif., consists of three slender wings, radiating out from a central service core to provide most of the 450 rooms with excellent outside exposures.

To gain full advantage of this feature, these rooms include an outdoor balcony which is given privacy by a partition of porcelain enameled, double-faced panels, laminated to honeycomb material. Colors of these separation panels vary from light pastel shades to dark blues and browns, in tones to match their surrounding decorations.

Movable shutter doors, 33 in all, were designed by Paul Heinley to form the entrances for the cabanas surrounding the swimming pool. This treatment allows swimmers and sun bathers complete privacy. Light and heat can be controlled by merely adjusting the tilt rods.



OUTER BALCONIES of Beverly Hilton are partitioned by porcelain enameled panels. Below, installation of four-panel shutter doors on cabanas lining swimming pool of hotel, designed by Welton Becket & Associates and built by Del E. Webb Construction Co.



IN WALL PANELS
its the
SURFACE
that SELLS!



FINEWOOD®
means
FINER SURFACES!

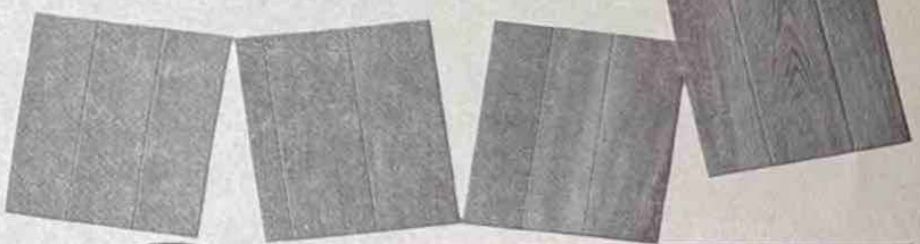


Quality construction is important—*sure!* But in wall panels, its the *Surface that Sells!* And FineWood means not only quality construction, but also *the finest, most beautiful surfaces of any Pre-Finished Hardwood Panels!* One wall or a room paneled with FineWood precedes all else in a perfect setting for future decor and furniture.

FINER CONSTRUCTION Even back and center veneers are specially selected to guarantee a permanent glue bond assuring a perfect face surface always.

SPECIAL PROCESS FINISH FineWood's exclusive finish contains basic ingredients that enhance the lustre and stability of the panels, making them resistant to moisture. In addition the natural color finish gives added beauty and prevents any change in color and texture.

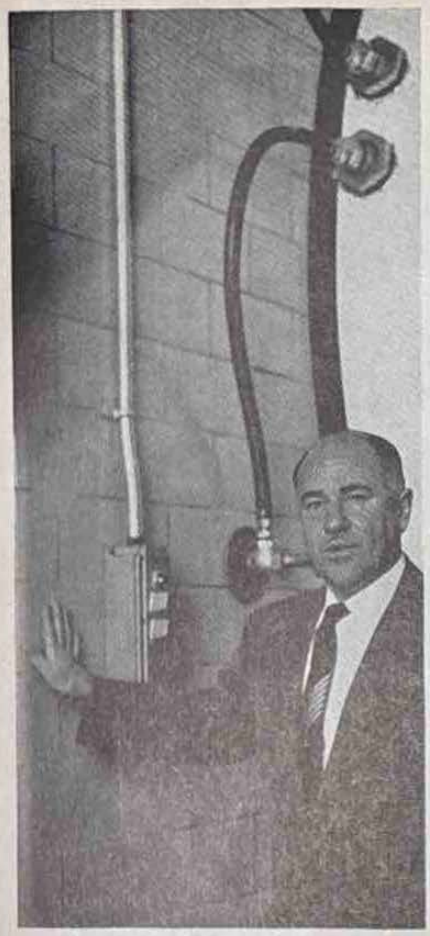
GREATER VARIETY ***Nine*** select hardwoods—Birch, Maple, Mahogany, Red Oak, White Oak, Sycamore, Walnut, Cherry, and Limba. Other special woods available on request.



PRE-FINISHED GENUINE HARDWOOD PANELS
FINEWOOD
DULANEY PLYWOOD CORP., LOUISVILLE, KY.

ONLY GENUINE FINEWOOD PANELS BEAR THIS SEAL

DULANEY PLYWOOD CORPORATION
1401 SOUTH 12th ST.
LOUISVILLE 10, KENTUCKY



HENRY W. OPPEL
Brewmaster,
S. F. Brewing Co.

"GLAZED STRUCTURAL WALLS MAKE BREWERY SANITATION EASY"

Burgermeister's vital problem of controlled sanitation has been greatly simplified and reduced in cost with walls of Western Glazed Structural Units.

In three remodeling and expansion programs since 1952, the brewery has installed 37,620 sq. ft. of this gleaming ceramic finished tile.

Wall and finish are one — no framing, lathing, plastering or finishing required. Hard, smooth surface resists wear, stains, odors; never needs painting. Clear glaze, plus 12 attractive colors. Standardized sizes and shapes for every requirement. For shape chart and specification details write to KRAFTILE CO., Niles, Calif.; or WASHINGTON BRICK & LIME CO., Spokane, Washington; members of

WESTERN STRUCTURAL TILE INSTITUTE

Here's what they're doing with sectional shoring

ALERT CONTRACTORS successfully applied several new techniques recently which further increased the versatility and efficiency of sectional steel shoring, the workhorse of modern concrete construction.

In one case the contractor rolled prefabricated shoring units from pour to pour on a wheeled dolly and lifted them to the next floor by an electric crane. In another instance shoring units were slid on greased wood sills. And in other cases, contractors used 5-ft.-wide units to support precast roof planks, to support isolated, exterior spandrel beams and to support a unique, poured concrete pitched roof.

The techniques, impractical or impossible with built-on-the-job wood shoring, all utilized Patent Scaffolding's steel, frame type shoring called Trouble Saver. In each case the shoring was quickly assembled on the job from base plates, 20-in. adjustable extension legs, welded 5-ft.-wide frames and diagonal braces. Fast-acting SlideLoks or wing nuts are used to secure the braces to the frame.

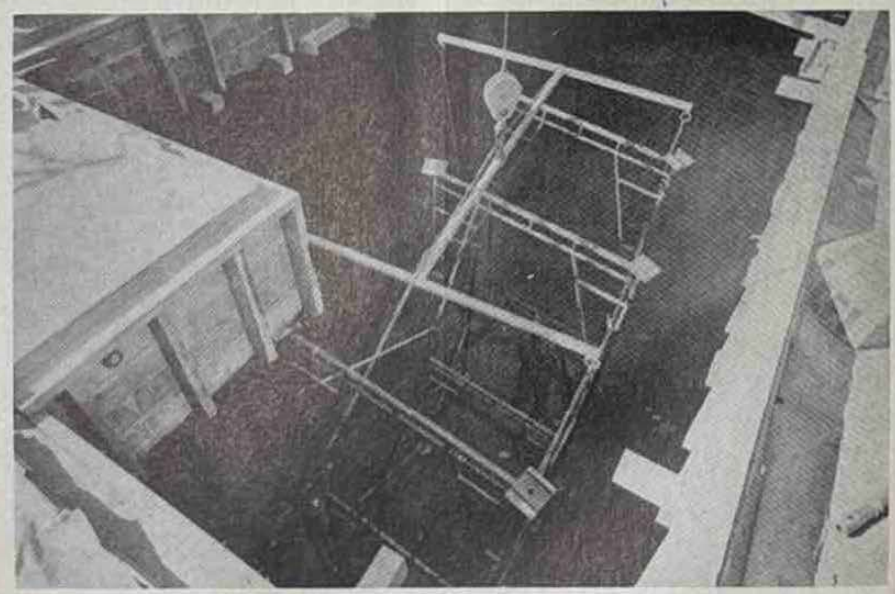
In Anaheim, Calif., a mechanized handling system was devised for moving sectional steel shoring both horizontally and vertically on the multi-storied Broadway-Hale Department Store. Contractor Ford J. Twaits Co. used rubber-tired hydraulic lift trucks to transport the sections horizontally to either a stair well or escalator block-out. There the sections were raised to the next floor by means of a monorail mounted hoist which in turn releases each section to a lift truck working that level (photo right).

The assembled sections were moved quickly into position and joined to existing shoring by cross braces. Construction manager L. E. Douglas reported that the mechanized movement of the shoring permitted unusually big pours. Single pours from 550 to 660 cu. yd. were not uncommon. These pours covered from 16,000 to 18,000 sq. ft. and were made at rates up to 93 cu. yd. per hour.

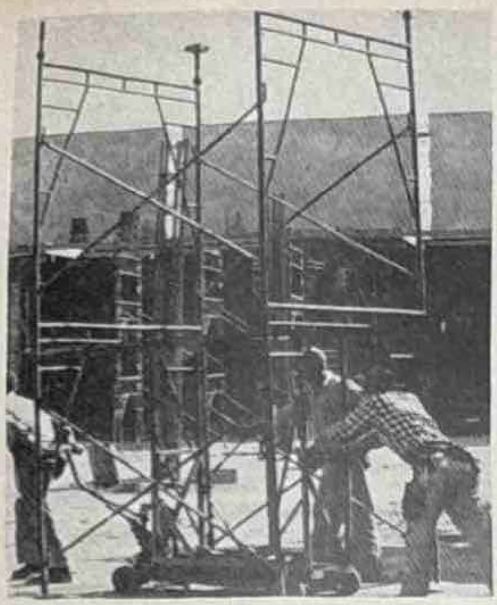
Another project involving horizontal movement of shoring sections was the Emporium-Capwell Co. warehouse, Oakland, Calif., with William J. Moran Co. as contractor (photo below).

A system of sliding entire sections of sectional steel shoring to new pour areas was used on the Monsanto Chemical Co. warehouse, Kearney, N. J. Eleven shoring sections, each covering 720 sq. ft. were pulled on greased wood sills by a hand winch. Each section was slid three times for succeeding pours on the 189-ft. by 231-ft. structure.

Sectional steel shoring is as adaptable to precast roof planks as it is to poured construction as proved by two one-story jobs. On a 46,000-sq. ft. warehouse in Dallas, 710 6-ft. 6-in.-high steel end frames spaced 6 ft. apart shored a 15-ft.-high ceiling



WHEELED HYDRAULIC DOLLY is used to move four-frame unit shoring horizontally to next pour on Emporium-Capwell Co. warehouse, Oakland.



SIX-FRAME shoring section is lifted from floor to floor of three-story department store in Anaheim, Calif., through escalator black-out. Unit is picked up by four chains hung from corners of H-shaped bridle.

made of 12-in.-thick precast planks. On a Kansas City building, 160 frames shored 2-ft.-and 5-ft.-wide poured beams as well as 24-ft.-long by 12-in.-thick precast roof planks.

While constructing a 100-ft. dia. digestion tank in Jersey City, N. J., the contractor was faced with the problem of supporting a concrete roof slab 32 ft. high and 12 in. thick from a difficult cone shaped base. The lowest point of the floor dipped to 12 ft. 6 in. below the bottom of the wall. The unusual floor condition was overcome with sectional steel shoring frames of various heights and by making leveling adjustments with the 20-in. adjustable legs. A datum line was projected on a level with the bottom of the 32-ft.-high tank wall and the shoring base frames brought to that level.

A concrete contractor put sectional steel shoring to good use while building a high school in North Arlington, N. J. The shoring supported formwork for the pouring of heavy, isolated exterior spandrel beams which were 120 ft. long, 1 ft. 4 in. wide and 3 ft. 5 in. deep. The shoring frames also provided a ready-made "built-in" scaffold for stripping of the forms.

In Miami, sectional shoring frames easily handled the job of supporting forms for a unique, poured concrete pitched roof on a new school, as well as shoring the flat slab.

Naturally these shoring "tricks" are not always required in everyday use. But they do reflect one of the major advantages of sectional steel shoring —its versatility that makes it the workhouse on routine jobs.

Three honored for role in modular measure

Three men have been recognized by the American Standards Association for their part in the past year to encourage the use of modular measure in building. They are Leonard G. Haeger, technical director, Levitt & Sons, Inc., Levittown, Pa.; Fred M. Hauserman, president, The E. F. Hauserman Co., Cleveland manufacturer of metal partitions; and H. B. Zackrison, chief, engineering department, U. S. Army Corps of Engineers.

Presentation of awards was made in Los Angeles by C. W. Kraft, president of Kraftile Co. of Niles, Calif., who received an ASA award in 1954.

"Modular measure is a self-sustaining movement, with no high-pressure promotion behind it," Kraft explained. "The individual efforts of enthusiastic builders, producers, contractors and architects are of immense importance in speeding the present trend to modular dimensioning in building. Their work will accrue to the benefit of the American people in terms of lower building costs. The ASA modular measure award symbolizes the sponsors' appreciation of the essential contribution being made by individuals throughout the industry."

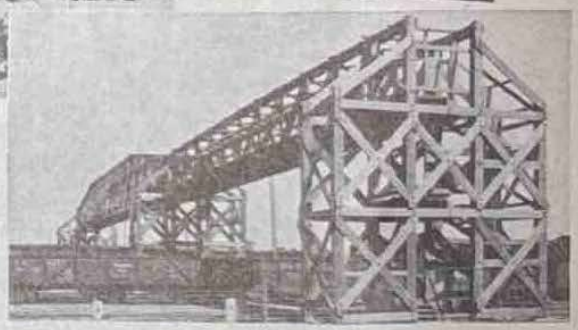
Sponsors of the movement, which uses the 4-in. module as a "least common denominator" are AIA, Producers' Council, NAHB and AGC.

HOW TO BUILD *Better for Less*

BE SURE YOU'RE UP-TO-THE-MINUTE ON FABRICATED SOLID TIMBER CONSTRUCTION— CHECK WITH RILCO



Erecting 100' Rilco monocord trusses — Big Bear Store, Lincoln Park, Michigan



Fabricated timber overpass D & R G Railroad, Denver. Spans are 70' and 170'.

Contractors are reporting amazing savings on solid timber structural designs. Daily we are getting new information that we would like to pass on to you.

Whether it is a roof construction or a structural assembly, we are constantly developing short cuts in design, speeding erection and increasing profits for contractors. Even on the first job, contractors report successful results.

Rilco Glued Laminated and Fabricated solid timber members speed construction on a wide range of structures. Let us help you with your design and fabrication specifications.

FREE

Write for free booklet on wood laminated and fabricated solid timbers.

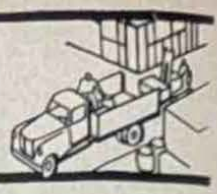
RILCO works wonders with wood

RILCO LAMINATED PRODUCTS, INC.

ROOM 207A, TACOMA BLDG., TACOMA 1, WASH.

Builders and Suppliers

headlining the news



• **Evertru Products Co.** of Moses Lake, Wash., has appointed Charles Smith as manager, replacing L. O. Kalbrenner who recently resigned. The concrete block plant is a newly acquired subsidiary of Washington Brick and Lime Co. of Spokane.

• **Monsanto Chemical Co.** has occupied a new office and warehouse structure at 6670 E. Flotilla St. in the Vail Field area of Los Angeles to serve as a distribution center for all of the company's marketing activities in southern California.

• **Kaiser Steel Corp.** has named Harry L. Warner as sales manager of its Fontana fabricating division. He previously was manager of contract sales at Kaiser's Napa fabricating division.

• **Ruby Lighting Co.** of Los Angeles and Dallas, maker of industrial fluorescent lighting fixtures, has been purchased by Ekco Products Co., marking the initial phase of an expansion program in which the latter plans to acquire a number of factories in the builders hardware and architectural field.

The Los Angeles Ruby Lighting operations will be moved into Ekco's new enlarged Whittier factory. Ekco chairman Arthur Keating says his firm's interest in the lighting field will be confined to industrial applications such as factories, offices, hospitals, etc.

Robert L. Lang, recently appointed vice president of the parent company, and Ralph Simon have been elected chairman and president, respectively, of the Ruby firm. Albert Jassin has been named executive vice president in Los Angeles.

• **Pomona Tile Manufacturing Co.** has been appointed distributor of Summitville quarry tile in several Pacific Coast and mountain states, including California.

• **Superior Scaffold Co.** of Culver City has a new sales manager, Robert Gray, formerly western regional sales manager of roofing products for U. S. Gypsum Co.



VOGEL



BOGET

• **Gladding, McBean & Co.** has formed an architectural division, a consolidation of Hermosa tile and masonry products. Named to head the new product division as vice president and general manager is Verne W. Boget, who previously has held the same posts in the Hermosa tile division.

Pete Vogel, for five years vice president in charge of sales in the 11 western states for Miracle Adhesives, has been appointed general sales manager for Hermosa tile and other tile products. He will have his office at the company's headquarters in Los Angeles.

• **Airtemp Division,** Chrysler Corp., has named George Sharkey West Coast assistant regional manager, succeeding L. D. Brosell who resigned.

• **NAHB** and Household magazine in a jointly sponsored design competition for small-volume builders have awarded honorable mentions to two California firms: Calvin R. Campbell of Pasadena and Security Development Corp. of Monterey.

• **National Electric Products Corp.** will construct a warehouse for electrical distribution systems, fittings and accessories at 6400 Corvette St., Los Angeles, and will discontinue production operations at its Torrance, Calif., plant.

• **Building Components, Inc.,** of Los Angeles has been appointed factory representative for southern California by Iron Fireman Manufacturing Co.

• **Portland Cement Association** in an expansion of its field services to cement users has opened a regional office in Los Angeles to supervise activities of the district office there and in Seattle.

Hugh Barnes has been named western regional manager with headquarters at 816 W. Fifth St. He joined the association in 1937 and has been



architect:
Wohleb & Wohleb & Assoc.

contractor:
STRAND & SON

mason contractor:
KENNETH GEORGE

Attractive Olympia Memorial Clinic *features*

Chehalis Red Roman Brick

The warm, pleasing texture of Chehalis Red Romans—the Pacific Northwest's most distinctive brick—was selected by the architect to distinguish this modern clinic building in Olympia.

Here is functional design at its eye-appealing best—permanent, practical, fire-safe . . . and economical to build and maintain! Only brick—and preferably CHEHALIS BRICK—combines all these advantages so well.

SCPI

CHEHALIS BRICK and TILE Co.

BOX 868, CHEHALIS, WASHINGTON

Los Angeles district engineer since 1942. Barnes has been succeeded by John M. McNerney, with the association since 1941 and most recently statewide paving engineer for the Los Angeles office.

The expansion program raises the number of the association's regional offices to five and of its district offices to 32, covering almost the entire United States as well as British Columbia.

• **Gunite Contractors Association** has elected these officers: J. C. Fredericks, F. W. Case Corp., president; James Enbody, H. W. Enbody & Sons, secretary; N. R. Sanders, Johnson Western Gunite, treasurer. Stanley Zynda will continue as manager.

Members have agreed on four meetings a year, two in San Francisco and two in Los Angeles.

• **Associated Home Builders of the Greater East Bay** have elected Don T. Groom, partner in the Oakland firm of Groom-Moyer, to succeed McKie W. Roth of Walnut Creek as president.

William G. McFarland has been named field secretary of the group, succeeding Ronald L. Pardini who resigned to join Perma Bilt Homes at Sacremento.

The association has established a Livermore chapter, electing Roy N. Jensen its first president and Masud Mehran secretary.

• **Roddis Plywood Corp.** has established a fir plywood industrial sales division in the Ardel Building, 33 E. 10th Ave., Eugene, Ore., with Richard L. Rinde as newly appointed manager. A graduate of the University of Oregon, he formerly was assistant sales manager of Clear Fir Sales Co., Springfield, Ore.

• **Ralph Yoder** of Seattle, who heads the Washington State chapter, Producers' Council, will address the annual chapter presidents' conference at the Wade Park Manor Hotel in Cleveland September 25.

In announcing Yoder's selection, managing director John Haynes of Washington, D.C., commented: "We pick our speakers from the most successful chapters during the preceding year. In 1955 the Washington State chapter ranked 11th in guest-per-member ratio at its monthly informational meetings for architects. This is a sharp rise from the 21st ranking of the previous year."

• **Orr & Sembower, Inc.**, has added a sales representative to handle its automatic boilers in Boise: Richardson Equipment Co., 612 Front St.

• **Southwestern Idaho Association of Homebuilders** has elected Charles R. Kreiensieck of Boise as its first president. Other officers are DeWayne Bills, vice president, and Earl Hardy, secretary-treasurer, both of Boise.

• **W. P. Fuller & Co.** has announced changes in its administrative structure, highlighted by the creation of a new marketing division under the direction of W. P. Fuller 3rd, vice president and great-grandson of the company's founder. The new division brings together for the first time both paint and glass sales management.

C. E. Ide, at present manager of Fuller's intermountain district, will take over the newly created position of director of sales, paint and allied products about the first of the year. J. P. Walsh will continue in his present position as director of sales, glass and building products. Vice president H. S. Margetts will be in charge of division operations, which includes responsibility for the Fuller branch system throughout the West, Hawaii and Alaska.

• **Home Builders Institute of Los Angeles** has a new director of public relations, Richard D. McNish, who has been field representative since 1954. He is a graduate of California State Polytechnic College.

• **Calaveras Cement Co.** has opened a bulk cement transfer plant in San

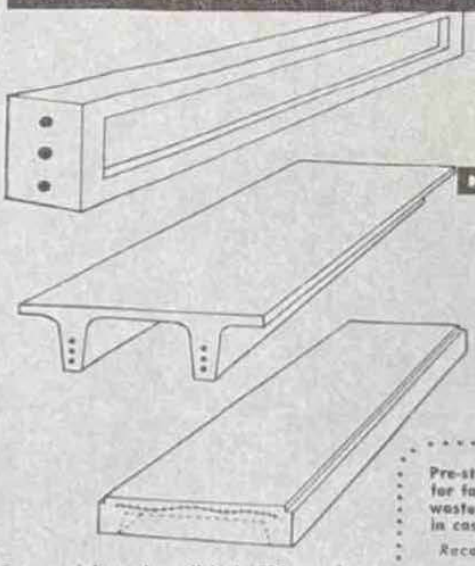
modern speed-up construction



Forms, shoring eliminated

no waiting for concrete to set when you specify lightweight

PRE-STRESSED CONCRETE



I BEAMS

Support double tee or channel slab in all-concrete construction. Spans to 70 ft.

DOUBLE TEE SLABS

for economical pre-cast floors, roofs. 20-40 ft. spans, maximum unit coverage.

CHANNEL SLABS

for 20 foot or shorter spans. Light, easy-to-handle. Use with steel beams, poured or pre-cast concrete beams.

Pre-stressed concrete is the answer to your clients' demands for faster construction, lower costs. No time, labor, material wasted on building forms or waiting for concrete to set (as in cast-in-place method).

Recent Construction—Using Empire Pre-stressed Concrete

SCHOOLS
Woodrow Wilson High School Stadium, Portland
Sabin School, Portland

BRIDGES
Kenai River Bridge, Schooner's Bend, Alaska
Hinkle Bridges 1 and 2, Oregon City

BUILDINGS
C and S Electric, Eugene
Pacific Power & Light Service Center and Shop, Albany
Duttish Building, Portland
Oregon State Hospital Out-patient Wing, Salem
Oregon Metallurgical, Albany
The Central Washington Bank, Moses Lake, Wash.

For more information call AL 4-6535 or write —

EMPIRE

BUILDING MATERIAL CO.

N. E. 92nd and Halsey St., Portland, Oregon · ALpine 4-6535

Leandro to serve the San Francisco and East Bay construction industry. The $100,000 installation has a storage capacity of 5,000 bbl. of cement.

• **Robertshaw-Fulton Controls Co.** has named Harold W. Rice director of its West Coast research and development laboratory in Los Angeles. Rice, a member of the firm for more than 20 years, succeeds H. W. Geyer, who resigned.

• **Kaiser Aluminum and Chemical Sales, Inc.,** is expanding its service to architects in the Los Angeles area with the appointment of Walter F. Pruter Jr. to the newly created post of district architectural representative. A former senior service engineer, he joined Kaiser Aluminum in 1955 and was associated with the sales staff of United States Gypsum Co. for six years.

• **Permanente Cement Co.** has established a new contractor sales division in the Russ Building, 235 Montgomery St., San Francisco, with C. C. (Cless) Moore as division sales manager.

"As the name implies, the new unit will concentrate on serving major contractors," says James K. Beatty, vice president in charge of sales, "thus allowing the regular line salesmen to give their full attention to the requirements of batch plant operators and building material dealers."

Permanente's sixth kiln, latest unit in its $35 million expansion program, went into production near Los Altos, Calif., last month.

• **Empire Building Material Co.** of Portland has appointed Richard (Dick) Mason as district sales manager in Oregon and southern Washington. For the past two years he has been plant foreman.

• **Evans Products Co.** has doubled its timber supply on the West Coast by acquisition of cutting rights on a half-billion feet in Oregon to help supply veneer for production of the Michigan company's Evaneer plywood operations.

• **Symons Clamp and Manufacturing Co.** has opened a new concrete forming equipment plant in San Leandro, Calif., representing a major expansion of its West Coast operations.

Joseph Von Drasek has been named vice president in charge of the California factory, first to be built outside of Chicago. Assisting him in sales is Richard G. Allen. Robert P. Tross has been transferred from Chicago headquarters to act as chief engineer.

• **Harvey Aluminum** of Torrance, Calif., has resumed work at its 54,000-ton aluminum reduction plant at The Dalles, Ore., with an announcement that all financial and contractual arrangements have been finalized for construction, which was interrupted four years ago. On a 500-acre site, the plant is scheduled for completion late in 1957.

• **Gordon Tongue,** president of Northwestern Portland Cement Co. of Seattle, has been elected to the board of directors of the Portland Cement Association.

• **General Electric Co.** will construct a $2 million lamp division warehouse, distribution and office center in the Vail Field area of Los Angeles. Albert C. Martin & Associates are architects-engineers for the single-story, reinforced concrete structure, and Noyes Roach and C. L. Peck are joint contractors.

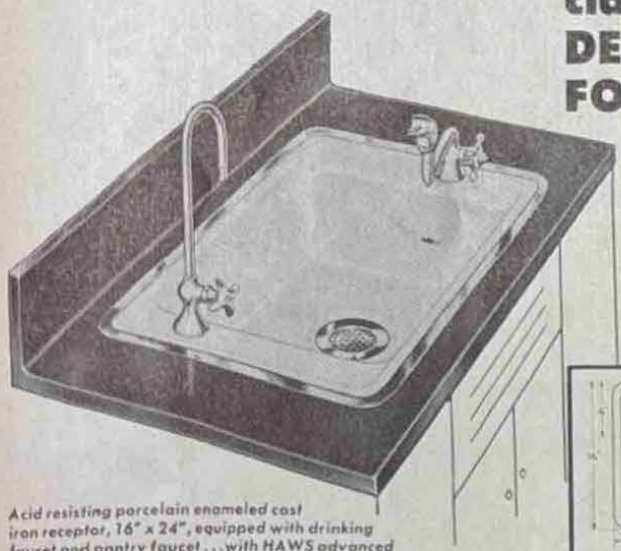
GE has opened its first Alaskan facility, a branch supply and apparatus house of General Electric Supply Co., in Anchorage, with George H. Smith, formerly of Portland and Medford, Ore., as manager.

• **Fibreboard Paper Products Corp.** has named Patrick H. Ryan to serve as merchandise manager of the Pabco building materials division in the firm's San Francisco headquarters. He was with the Pabco floor cover-

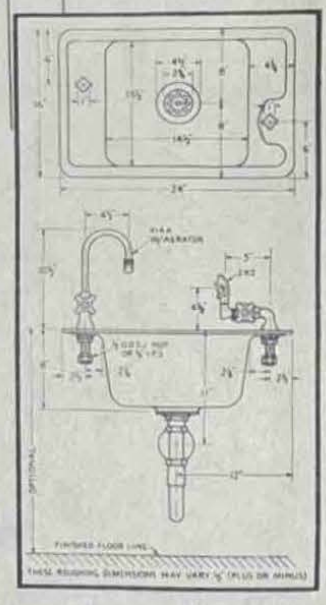


New School Project on the Board?

...add "the touch" that makes it really new... HAWS classroom DECK-TYPE FOUNTAINS



Acid resisting porcelain enameled cast iron receptor, 16" x 24", equipped with drinking faucet and pantry faucet...with HAWS advanced sanitation features for utmost cleanliness and safety.



Specify water facilities where they're needed most—right in the classroom! HAWS versatile deck-type fountains are available with optional combinations of VANDAL-PROOF faucets and fixtures to meet any classroom need.

And for appearance... they can't be beat! Handsomely designed in lifetime stainless steel or *acid resisting* enameled iron, they add pleasing functional beauty. Five basic series fit every space and service situation. Make your school refreshingly new *throughout*—with HAWS Deck-Type Fountains. *Write for detailed information...TODAY!*



HAWS features complete lines of drinking fountains, electric water coolers, emergency eye-wash fountains—and **KRAMER Flush Valves,** *for every make plumbing fixture.*

HAWS DRINKING FAUCET CO.

1443 FOURTH STREET (SINCE 1909) BERKELEY 10, CALIFORNIA

ing division as assistant to the vice president in 1954-55 and then became vice president and general manager of Building Products Corp. in Milwaukee.

• **Allmetal Screw Products Co.** has moved its West Coast division to larger quarters at 2978 Wilshire Blvd., Los Angeles (DUnkirk 5-6357).

• **A. C. Horn Co., Inc.**, has a new branch manager in its Los Angeles office, Harry D. Kennedy, who served as district sales representative in the Tacoma, Wash., area.

• **Pioneer Manufacturing Co.** has named W. Q. (Chris) Kringle sales manager for its Bay area office, succeeding William Bucknum who was recently appointed sales manager of Pioneer Range Co., a subsidiary.

Carl F. Hurley is Pioneer's new representative in San Diego.

• **Smith-Davis Co.** of Los Angeles, in conjunction with its parent company, Maas & Waldstein Co., is sponsoring a year-long series of technical clinics for painting contractors throughout the 11 western states. Sessions are being conducted by Hal Palmer, sales manager of the firm's architectural division.

• **Westinghouse Electric Corp.** has appointed William L. Trudgian as Pacific Coast regional agency and construction manager, with headquarters in San Francisco. Ray T. Killen succeeds Trudgian as district agency and construction manager in Seattle.

Robert E. Ralstin has been named to the newly established position of area sales manager for apparatus in the Portland office.

• **Georgia-Pacific Corp.** has appointed Robert O. Lee, formerly with Pacific Telephone in Seattle and San Francisco, as advertising manager and public relations director.

• **Textron, Inc.**, will construct a second plywood plant at Coquille, Ore., a $2 million operation adjacent to the present facility.

• **Drywall Contractors Association** (Southern California) has reelected its president, Wayne Vaughan of West Los Angeles. Frank Donaldson, Santa Ana, is vice president; Fletch Reynolds, La Habra, secretary; Reuben Casey, Garden Grove, treasurer. New directors are S. Douglas Hartley, Canoga Park, and M. R. McColley, San Diego.

• **Arcadia Metal Products** has moved its southern California sales office, headed by Bob Reed, to the new half-million-dollar plant at 801 S. Acacia Ave., Fullerton (MIchigan 3908, LAmbert 5-0291).

Design and the landscape in which we live (cont'd. from p. 12)

to use, and their primary functions are to provide settings for buildings and to impress the passerby. In doing this they have a potentially great contribution to make to the community landscape. This is rarely realized through failure to make use of the full possibilities inherent in free arrangements of trees, shrubs, flowers, ground cover and grass. Maintenance problems are also an inhibiting factor, basically through inadequate budgets. When these public grounds are adequate in size a good sense of outdoor space can be created.

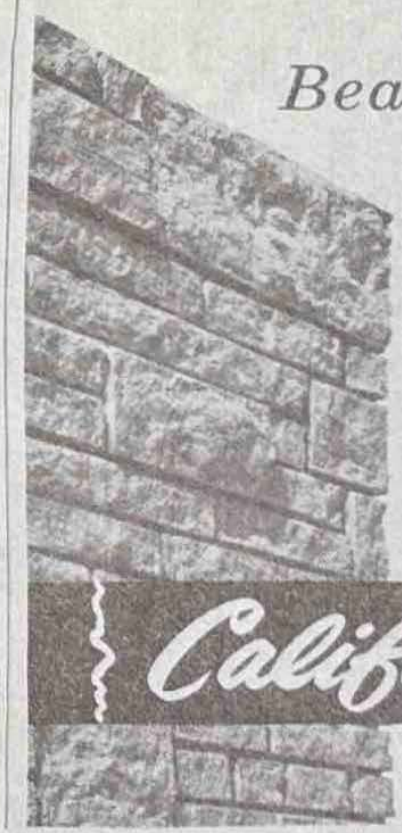
Parks are sections of green outdoor space large enough to be used for circulation and relaxation by the general public. A "keep off the grass" sign will convert a park space to a public grounds space, to see only. Parks are pure humanized landscapes with a primary potential for saving our commmunities from speculative constructivism and the auto. We should all live in parks rather than having to go to parks. Parks embody the greatest opportunities for free landscape design with elements derived largely from nature and a minimum of construction.

Active public recreation spaces and facilities are quite specific and positive in their requirements. Playfields, game courts, playground areas and community buildings tend to be treated in a mechanized functional manner without grace of conscious design. The result is that many of them are about as attractive as a parking lot or a warehouse. When these active programs are merged with passive park spaces the latter may lose more than the former gains. However sensitive design control can take advantage of the more dynamic patterns which result, with multiple variations in combination and contrast.

Most of these landscape problems, except parks, are intimately involved with buildings, that is, with architecture. The relations between these two arts are constant and unavoidable. Architecture, as the art of shelter, enclosing and creating indoor space, has a maximum impact on the landscape around it. As practiced, landscape design and architecture differ in certain important aspects:

1. **Material.** Architecture uses the complex variety of construction materials. Landscape design uses some of these, but primarily the materials of the natural landscape—rock, earth, water, plants. These are also complex in their variations.

2. **Discipline.** Technique and function are usually less dictatorical in



Sandstone Beauty and Texture IN COLOR

Save 40%. California Stone (manufactured sandstone) in eleven subtle decorator-selected colors and shades exceeds natural sandstone in range of colors, and ease of handling with the strength and beauty of the natural product. You save 40% in material cost. Sizes available to give a random ashlar effect. Write or phone for complete details.

California Stone®

a product of Layrite Concrete Products of Seattle, Inc.
RAinier 8681 • 7265 E. Marginal Way

®T.M. Reg.

landscape design than in architecture. The parts of a garden don't hold each other up, and a garden space may have no function at all except to provide a pleasant experience for those looking into or passing through it.

3. Scale. The scale of architecture is a compound of human scale and structural economy, often reflecting the site scale. The scale of landscape design is a compound of human scale and site scale, often reflecting the scale of the surrounding landscape.

4. Continuity. Architecture tends to produce buildings which are complete and self-sufficient works of art, however carefully they may be related to the site. Landscape design must almost always establish a relation or connection between building, site and surrounding landscape. Therefore it tends to establish continuity between them, must relate itself to their forms and hence cannot be self-sufficient. Of course, when architecture is expressed in groups of buildings it also becomes concerned with continuity.

In the final analysis architecture and landscape design are both parts of a larger art of site-space design. In an urban skyscraper there may be no landscape design; in a rural park there may be no architecture. Most problems fall between these extremes, and the proportions of responsibility and control falling to the two fields will likewise vary. Each parcel of land has a block of air-space above it, and the three-dimensional development of this space for use and pleasure is the joint responsibility of architecture and landscape design.

In the most final analysis the landscape is indivisible. It stretches from ocean to ocean, and its limits are those of human vision and motion and such physical obstacles as may exist or be established. The landscape is everything an individual can see from a given station point or circulation route, colored by everything he has seen before and everything he has heard or read about it. This landscape, especially in the more developed urban and suburban areas, is compounded of many separate parcels of real estate and of all the multiple disconnected decisions made by different people at different times on those different parcels.

This is the basic process of landscape design in the large sense. The problem of how to unify and coordinate these multiple decisions so as to produce a harmonious community landscape is being tackled today by planners and redevelopers, but tomorrow it will be ours. Once the proper relations between overall control and democratic processes is worked out, the community landscape will become a physical design problem.

Landscape design today begins with backyards and front yards and all the miscellaneous open spaces left over by buildings, street and utility construction, within the preconceived patterns of standard subdivision and land planning practices. It expands from these problems into larger planned open spaces—parks, school and college grounds, other institutions, parkways and freeways, country clubs, golf courses, etc.

In the future landscape design will become synonymous with the unified design of the humanized landscape. The basic vocabulary for this includes ground forms, buildings, trees, vehicular circulation, pedestrian circulation, green open space, paved open space, water forms. The secondary vocabulary includes all the multiple furnishing, equipping and enriching detailed elements of the man-made world and the world of nature.

Thus landscape design begins with the common or garden variety of local landscaper and ends with the merging of all the space-planning professions and all the other fields of design concerned with improving our world.



I've no worries about TERMITES or ROT...

I built with BOLIDEN SALT pressure-treated lumber

Architects and builders in steadily growing numbers are recommending and using Boliden Salt Pressure-Treated Lumber in home construction because it provides dependable protection against termites and rot. The small extra cost now is a long-range saving.

Time-tested Boliden Salt is approved as a standard preservative by the American Wood Preservers' Assn., American Assn. of State Highway officials, Federal, State and Local agencies and the P.C.B.O.B.

BOLIDEN SALT

Boliden Salt is Clean, Odorless, Fire-Resistant, Nearly Colorless, Paints Readily

At your Local Dealer or Write

McCORMICK & BAXTER CREOSOTING COMPANY

OFFICES: Portland, Oregon, P. O. Box 3344
San Francisco, California, 485 California Street
Glendale, California, 114 W. Broadway

TREATING PLANTS: PORTLAND, OREGON • STOCKTON, CALIF.

Construction News Bulletin

Vol. 62—No. 19 (PA&B) News Section of Pacific Architect and Builder September 15, 1956

D. F. McCormick ..... News Editor
G. M. Westman ..... News Staff
Win Romtvedt ..... Portland News Manager
S. S. Phillips ..... News Staff
Newsroom • 2418 Third Avenue, Seattle 1, Washington • Phone MAin 0285

BUILDING NEWS

Washington, Oregon, Idaho, Montana, Wyoming, Utah, Alaska

- ● Bids Called
- ★ Contract Awards
- ▲ Low Bids—Bid Received
- ■ Planholders—Prospective Bidders

OREGON

●SAFEWAY STORE— Albany, Ore.

Bids to be postmarked midnight, September 27, and sent to Bramwell Construction Co., division of Safeway Stores, Inc., 1208 S.E. 7th Ave., Portland, for construction of Safeway store at Albany. Plans by Max P. Williams and Robert B. Martin, architects, 1919 S. W. 12th Ave., Portland.

Reinforced concrete structure, 90'x150'; canopy of tapered steel cantilevered "I" beams with steel roof deck; glued laminated beams, purlins with 2" tongue and groove hemlock roof decking, rigid insulation and built-up roof; brick exterior; 60' sign tower; aluminum entrance doors with automatic door operators; painted gypsum board interior finish; asphalt tile in salesroom.

WB 9-8. Previous report 7-10

●U.S.A.R. FACILITY IMPROVEMENTS— Astoria, Ore.

Bids to be opened 2 p. m., September 24, by Corps of Engineers, Seattle District, 4735 E. Marginal Way, Seattle, for improvements to building at the U.S.A.R. facility, 176 W. Astor, Astoria, Ore.; ENG-45-108-57-31. Plans with district engineer, above address. Bid bond 20%.

Planholders: Fred F. Anderson, 2599 Grand Ave., Astoria; Avondale Construction Co., 1834 S.E. 8th, Portland; Crestview Construction Co., 10500 S.E. 82nd, Portland; Harney County Homes Inc., Burns, Ore.; John Helstrom, Box 835, Astoria; A. R. John Construction Co., 8228 S.E. 17th, Portland; V. E. Malen, 854 Alameda, Astoria; Walter Mathre, 374 Klatskanine Ave., Astoria; Albert Mittet, 397 Kensington, Astoria; Portland Construction Co., 3939 N.E. Cully Blvd., Portland; E. E. Settergren, 3723 S.E. 21st, Portland; Thompson & Georgeson Inc., 1924 S.E. 6th, Portland. DM 9-7. Previous report 8-30

■HIGH SCHOOL ADDITION—Bandon, Ore.

Planholders announced for addition to Bandon High School. Bids to be opened 8 p. m., September 18, by School District No. 54-C, Coos County, Alice Gallier, clerk, Bandon. Plans with Dougan & Heims, architects, 401 Royal Bldg., Portland. Certified check, cash or bid bond of $50.

Planholders: Moore & Associates, 923 S.W. 17th Ave., Portland; Starr Builders, 1765 S. Main St., Lebanon; Todd Building Co., P. O. Box 27, Roseburg; John Steinmuller, 907 W. 3rd St., Eugene; A. T. Fox, P. O. Box 831, North Bend; H. G. Carl, 1210 S. 22nd St., Salem; T. S. and T. E. Drake, P. O. Box 104, Coquille. WB 9-12. Previous report 8-28

MERCURY REDUCTION PLANT— Blackbutte, Ore.

Construction underway by Mercury & Chemical Corp., lease-holder, New York City, Richard P. Fischer, president, c/o Black Butte Mine, Blackbutte, for a new mercury reduction plant as part of a $250,000 redevelopment plant at the mine. Plans include 100-ton daily capacity plant, ore chutes, ore bins, air compressor house, assay office, general offices, roads and renovation of mine shafts and tunnels. Completion time November 1.

DW 9-7. Previous report 12-23

▲ROOFING— Bonneville Dam, Ore.

Bids opened by Corps of Engineers, Portland District, 628 Pittock Block, Portland, for re-roofing hydraulic laboratory buildings No. 10, 12 and 16 at Bonneville Dam, 40 mi. east of Portland, Columbia River; CIVENG-35-026-57-44. LOW BIDS: Louis Neuman, 1117 N. 38th, Salem, $10,864; Pruitt Building Service, 2838 N.E. Glisan St., Portland, $10,908; Frank Hochfeld, 2838 N.E. Glisan St., Portland, $11,368. Bids opened September 6.

WB 9-8. Previous report 8-18

★PAINTING, SITE WORK— Clackamas, Ore.

Award to Oregon Asphaltic Paving Co., 0441 S.W. Porter St., Portland, $5,700 (using Alternate A) by Oregon State Fish Commission, M. C. James, state fisheries director, 307 State Office Bldg., Portland, for paving work at Clackamas Research Laboratory near Clackamas. Award on painting is pending. WB 9-8. Previous report 9-5

▲NATIONAL GUARD ARMORY— Clackamas, Ore.

Bids opened by Oregon State Military Department, 412 State Office Bldg., Salem, for one-unit National Guard armory at Camp Withycombe near Clackamas, Ore. Plans by John F. Jensen, architect, 2266 N.W. Lovejoy St., Portland. BIDDERS: A. C. Edmon, 4120 S.E. Gladstone St., $130,909; Teeples & Thatcher, 4205 N.E. Cully Blvd., $142,711; Richard L. Martin, P. O. Box 482, Oswego, $143,500; Charles R. Schmiedeskamp, 1008 S.W. 6th Ave., $147,000; Lorentz Bruun, 3636 S.E. 20th Ave., $147,373; Walker & Green, Route 3, Box 207, Oregon City, $157,070. Of Portland except as noted. Bids opened September 5.

WB 9-8. Previous report 8-17

▲MECHANICAL WORK— Corvallis, Ore.

Bids opened September 4 by city recorder, George Simerville, at office of City Manager, Corvallis, for mechanical work in connection with fire station at 5th and Van Buren Sts. Plans by George Guins, structural engineer, 1836 N.W. Overton St., Portland. LOW BIDS—Basic: Near & Starr, Corvallis, $13,196. Alternate A: Near & Starr, $19,119. Alternate B: Beaver Plumbing Co., 117 N. 2nd St., Corvallis, $22,759. Estimates were $20,000, $22,500, $24,750. Mechanical work will be added to general contract held by Quentin Greenough, 361 "A" St., Corvallis, and Alternate A is expected to be exercised.

WB 9-8. Previous report 8-23

●RECREATIONAL SYSTEM— Corvallis, Ore.

Bids to be opened 2 p. m., October 11, by Oregon State Board of Higher Education, Earl M. Pallett, secretary, (Eugene), at Oregon State College, Administrative Council room, Commerce Bldg., Corvallis, for manufacture and complete installation of refrigeration system in a new Agricultural and Biological Science Bldg. to be built at the college. Plans with Burns, Bear, McNeil & Schneider, architects, 2940 S.E. Belmont St., Portland. $20 deposit. Certified check or bid bond 10%. W. Bruce Morrison, Cascade Bldg., is consulting engineer for project. WB 9-8

SCHOOL ADDITIONS, HEATING PLANT ALTERATIONS— Culver, Ore.

Bond election will be held September 18 by Culver School District No. 4, Culver High School, Culver, for $48,000 bond levy to finance construction of a four-room addition to the Culver elementary school and alterations to the heating plant. SC 9-7

■ELEMENTARY SCHOOL— Dallas, Ore.

Planholders announced for Whitworth Grade School Bldg., Dallas. Bids to be opened 8 p. m., September 18, by School District No. 2, Polk County, Gayle Kreason, clerk, Dallas High School, Dallas. Plans with Freeman, Hayslip, Tuft & Hewlett, architects, 2040 S.W. 3rd Ave., Portland. $50 deposit.

Planholders: Grubb, Johnson & Rose, Crees Bldg., Corvallis; John M. Steinmuller, Jr., 907 W. 3rd St., Eugene; D. W. Knight,

Route 40, Box 306, Albany; E. E. Batterman, 147 N. Commercial St., Salem; Industrial Building Co., 940 Pacific Highway N., Eugene; Robert D. Morros, 3365 S. Commercial St., Salem; Starr Builders, 1765 S. Main St., Lebanon; H. G. Carl Construction Co., P. O. Box 387, Salem. WB 9-12. Previous report 9-7

★**SCHOOL CONSTRUCTION—Estacada, Ore.**

Award by School District No. U.H. 6, Clackamas County, James W. Smith, clerk, Estacada Union High School, Estacada. Plans by Stokes & Allyn, architects, 205 Hughes Bldg., Portland. AWARD: Lorentz Bruun, 3636 S.E. 20th Ave., $40,644 (basic plus alternates); J. W. Hannaman, 2215 S.E. Gladstone St., $42,442; Sergeant Construction Co., 5205 Montavilla Station, $44,221; Sterner Construction Co., 13845 S.E. Rhine St., $46,365. Of Portland. Bids opened September 4. WB 9-8. Previous report 8-29

■ **HIGH SCHOOL— Eugene, Ore.**

Planholders announced for new North Eugene High School on Silver Lane in the River Road District. Bids to be opened 8 p. m., September 21, by Eugene School District No. 504-C, Clarence Hines, superintendent-clerk, School Administration Bldg., 275 7th Ave. E., Eugene. Plans with school district. Plans by Freeman, Hayslip, Tuft & Hewlett, architects, 2040 S.W. 3rd Ave., Portland.

Planholders: Gale M. Roberts, 2220 "G" St., Springfield; Industrial Building Co., P. O. Box 869, Eugene; W. H. Shields, 252 Taylor St., Eugene; Waldo S. Hardie, 160 Madison St., Eugene.

Planholders: Albert Vik & Son, 160 Madison, Eugene; Youel & Huffman, 170 W. Hilliard Lane, Eugene.

WB 9-7. Previous report 8-24

▲**RESIDENCES, OFFICE BUILDING— Eugene, Ore.**

Bids opened by U. S. Forest Service, Frank Walisch, regional supply officer, 729 N.E. Oregon St., P. O. Box 4137, Portland, for construction of three residences and an office building at Blue River Ranger Station, approximately 44 mi. east of Eugene, on McKenzie River Highway, Willamette National Forest. BIDDERS: Deller Construction Co., 636 Western Drive, Eugene, $64,712; Cascade Contractors, 175 E. 4th Ave., Eugene, $66,898; Marvin L. Johnson, 1325 W. 8th St., Albany, $67,230; Hampton C. Platt, P. O. Box 27, Salem, $73,000; George L. Miller, Vida, $75,347. Bids opened September 4. WB 9-7. Previous report 8123

SKI LODGE— Klamath Falls, Ore.

Subcontracts are being negotiated by Troy Cook, 1939 S. 6th St., Don Divens, 123 N. Spring and Howard Pernell, 324 Riverside St., Klamath Falls, owners of Tomahawk Ski Area, for construction of new ski lodge at the site, 22 miles northwest of Klamath Falls on Lake of the Woods Highway. One-story; 76'x24'; frame and natural log constructing; to include stone fireplace in ski room, restaurant facilities, first aid room, lavatory facilities, glass-in front observation view-point. Dormitory facilities are planned for 1957.

Also to be constructed is 3,000' novice ski run with non-dangerous gate; main run from 5,000' above sea level at top of hill 636' above the lodge; 2,200' long; to end almost in front of view window at lodge; Poma-ilft tows for runs; main run, 150' to 400' wide, to be cleared of big rocks and other obstructions; grade to be as much as 44 degrees, over-all average of 31 degrees. Completion set for late November. ZZ 9-12

▲**SCHOOL REMODELING, ADDITION— Lorane, Ore.**

Bids received by Lorane School District, Lorane, for remodeling and constructing an addition to the Lorane High School. Plans by Balzhiser & Seder, architects, 1920 Franklin Blvd., Eugene. Bids opened September 4. LOW BIDS: J. M. Steinmuller, Jr., 907 W. 3rd Ave., Eugene, $7,847; Bailey & Johnson, 151 Lawrence, Eugene, $9,597; Cascade Contractors, 175 E. 4th Ave., Eugene, $9,971.

DW 9-11. Previous report 8-28

●**SAFEWAY STORE— Newberg, Ore.**

Bids to be postmarked midnight, September 24, and sent to Bramwell Construction Co., division of Safeway Stores, Inc., 1208 S.E. 7th Ave., Portland, for remodeling of former Pontiac agency building in Newberg for Safeway Store. Plans by Max P. Williams and Robert B. Martin, architects, 1919 S.W. 12th Ave., Portland.

Includes brick facing and repainting on exterior; painted gypsum board walls; asphalt tile flooring; additional parking facilities. WB 9-8. Preivous report 4-19

■ **CHURCH— Newberg, Ore.**

Planholders announced on construction of a new church and remodeling the existing church for Zion Evangelical Lutheran Church, Earl E. Sandager, building committee chairman, 311 S. River St., Newberg. Bids will be opened 7:30 p. m., September 17, by Rev. S. Martyn, pastor, at the above address. Plans with Wicks & Brown, architects, 1129 Commercial St., Astoria.

Planholders: Beebe Construction Co., 2134 N. Flint Ave., Portland; Howard Brewton, 716 N.E. 3rd, Portland; James V. Ellis, Portland; O. J. McCoy of Western Construction Co., N. Franklin St., Newberg.

DC 9-12. Previous report 9-5

▲**OFFICE BUILDING— Oakridge, Ore.**

Bids opened by U. S. Forest Service, Frank Walisch, regional supply officer, 729 N.E. Oregon St., P. O. Box 4137, Portland, for construction of an office building and water system at Oakridge Ranger Station site, Oakridge, Lane County, Ore., Willamette National Forest; Bid No. 31. BIDDERS: Henry J. Stack, P. O. Box 423, Oakridge, $18,658; Deller Construction Co., 636 Western Drive, Eugene, $18,683; M. R. Holst, P. O. Box 371, Oakridge, $19,286; Mann Construction Co., P. O. Box 577, Redmond, $21,500; John L. Sethmann, Oakridge, $23,902. Bids opened September 4. WB 9-7. Previous report 8-21

★**BUILDING MODIFICATION— Ordnance, Ore.**

Award to Foster Sheet Metal, 1207 W. Imnaha, Kennewick, $25,285, by Corps of Engineers, Walla Walla District, 602 City-County Airport, Walla Walla, for modification to ammunition normal maintenance building at Umatilla Ordnance Depot, Ordnance, Ore.; ENG-45-164-56-47.

SP 9-11. Previous report 8-14

●**COUNTRY CLUB— Pendleton, Ore.**

Bid opening extended from September 17 to 4 p. m., September 21, by Pendleton Country Club, Joe B. Green, secretary, N.W. Garden Ave., Pendleton, for construction of a clubhouse in Pendleton. Bids will be opened in the office of the architect, Wesley V. Korman, 208 Raley Bldg., Pendleton.

DC 9-11. Previous report 8-30

●**EXTERIOR MAINTENANCE— Portland, Ore.**

Bids to be opened 10 a. m., September 19, by Procurement Office, 337th Fighter Group, Portland International Airport, for exterior maintenance of 22 buildings at Portland Air Base; Inv. No. 36-608-57-15. Completion time, 75 calendar days. WB 9-8

RECREATIONAL CENTER—Portland, Ore.

An alternate measure will be placed on the November 6 general election ballot by the City of Portland, Fred L. Peterson, mayor, City Hall, Portland, to repeal the measure approved last May to limit the $8,000,000 exposition-recreation center to the east side. Measure also intended to restore original powers to the E-R Commission. Th other measure on the ballot would split the facility between Delta Park area and Public Auditorium area.

WB 9-11. Previous report 8-18, 6-7

●**OFFICE BUILDING— Portland, Ore.**

Bids to be opened 11 a. m., September 28, by Oregon State Board of Higher Education, Dr. Earl Pallett, secretary, in the auditorium, Portland State College, 1620 S.W. Park Ave., for new office building for General Extension Division on S.W. Park Ave. between Market and Mill Streets. Plans with Stewart & Richardson, architects, 219 S.W. Stark St., Portland. $25 deposit. Two contracts, general (including electrical) and mechanical.

Two-story and basement structure; approximately 5,000 sq. ft. on each floor. Concrete basement; reinforced concrete exterior walls and first floor; wood frame second floor, roof and interior partitions. Front has brick veneer exterior finish, aluminum sash and tempered glass doors on main entrance; steel sash on north wall; built-up roof; second floor unfinished. Offices for general extension division on first floor have lath and plaster finish wall finish, asphalt tile flooring and acoustical tile ceilings; gas-fired, hot water heating system; incandescent lighting.

WB 9-12. Previous report 7-28

STEAM DISTRIBUTION FACILITIES— Portland, Ore.

Bid call cancelled due to insufficient funds by Oregon State Board of Higher Education, Earl M. Pallett, secretary, room 117, Administration Bldg., University of Oregon Medical School, Portland, for extension of steam distribution system from tuberculosis hospital to the medical school to serve the nurses's dormitory and crippled children's division. Bid opening was scheduled for September 7. WB 9-12. Previous report 8-14

★**HOYT STREET CLINIC— Portland, Ore.**
(Estimated cost $72,000)

Award by Hoyt Street Clinic, for clinic building at 2049 N.W. Hoyt St., Portland. Plans by Skidmore, Owings & Merrill, architects, 2040 S.W. Jefferson St., Portland. AWARD: Norman Builders, 2805 S.W. 3rd Ave., Portland, $64,561. OTHER BIDS: Wilson & Dean, 1016 N.E. 61st Ave., Portland, $68,298; Barnard & Kinne, 4200 S.W. 103rd Court, Beaverton, $69,461. Bids opened September 7. WB 9-12. Previous report 8-29

■ **DORMITORY— Portland, Ore.**

Planholders announced for women's dormitory at west end of Portsmouth Ave., overlooking Willamette River, on University of Portland campus. Bids to be opened 2 p. m., September 25, by controller, A. B. Peterschmidt, President's Office, Administration Bldg., 4730 N. Willamette Blvd., Portland. Plans with Stanton, Boles, Maguire and Church, architects, 708 S.W. Stark St., Portland. $75 deposit. Certified check or bid bond 10.

Planholders: Beebe Construction Co., 2134 N. Flint Ave.; Ross B. Hammond Co., P. O. Box 3901; Thompson & Georgeson, Inc., 1924 S.E. 6th Ave.; A. V. Petersen, P. O. Box 2368; Paul B. Emerick, 4340 SE. 174th Ave.; James S. Hickey, Inc., 523 S.E. Stark St.; Henry M. Mason Co., 2206 N.W. Thurman St. Of Portland. WB 9-12. Preivous report 8-29

■ **HIGH SCHOOL— Port Orford, Ore.**

Planholders announced for new Port Orford-Langlois High School building. Bids to be opened 8 p. m., September 20, by School District No. 2CJ, Curry County, Helen Slocum, clerk, Port Orford, Ore. Plans with Freeman, Hayslip, Tuft & Hewlett, architects, 2040 S.W. 3rd Ave., Portland. $50 deposit.

Planholders: A. T. Fox, P. O. Box 831, North Bend; John M. Steinmuller, Jr., 907 W. 3rd Ave., Eugene; D. W. Knight, Route 4, Box 306, Albany; Charles R. Schmiedeskamp, 1008 S.W. 6th Ave., Portland; Todd Building Co., P. O. Box 27, Roseburg; Melvin L. Johnson, 1325 W. 8th Ave., Albany; H. G. Carl Construction Co., P. O. Box 387, Salem; M. & S. Construction Co., Route 1, Box 145E, Sutherlin. WB 9-12. Previous report 9-1

TRAILER COURT— Summer Lake, Ore.

Frank Graves, owner of Summer Lake Lodge, Summer Lake, will supervise remodeling and expansion of the lodge which is to be completed for fall and winter hunting season. Included in the work are a 9'x12' refrigeration room for meats and vegetables and a modern trailer court for twelve trailers. Future plans include construction of rental cabins for tourists and hunters. Lodge dining room is being enlarged, tables added and new entrance constructed. ZZ 9-12

SCHOOL ADDITION— The Dalles, Ore.

Bids rejected as too high by School Dis-

trict No. 14C, Wasco County, Earl Tenold, clerk, Route 3, The Dalles, for addition to Petersburg School, about six mi. southeast of The Dalles. Plans will be redrawn by Boyd Jossy, architect, 12730 S.E. McLoughlin Blvd., Portland.
WB 9-8. Previous report 8-9

WASHINGTON

■ **ELEMENTARY SCHOOL—** **Aberdeen, Wash.**

Additional planholders announced for the construction of the West Aberdeen elementary school at Scammel and Cherry streets, in Aberdeen. Bids will be opened 8 p.m., September 11, by Aberdeen School District No. 5, Grays Harbor County, H. J. Kramer, superintendent, Box 100, Aberdeen. Plans with Jensen & Mills, architects, 308 S. Tacoma Ave., Tacoma. $20 deposit. Certified check, cashier's check or bid bond 5%.

Additional planholders—GENERAL: Sanford Wright, Box 809, Everett; Andy Johnson, 339 Eklund, Hoquiam; Ed Lundgren, 809 N. "K", Aberdeen; Grays Harbor Construction Co., 412 S. Park, Aberdeen. ELECTRICAL: Carl T. Madsen, Box 1545, Tacoma. GC 9-8. Previous report 9-1

HOSPITAL— **Aberdeen, Wash.**

(Estimated cost $1,500,000)

Plans announced by Judge Mitchell G. Kalin, chairman of executive committee for current rebuilding fund campaign, for construction of a new 100-bed Grays Harbor Community Hospital in Aberdeen. Funds from the Hill-Burton act would provide 40% of the cost. Construction will require two to three years for completion. SC 9-11

JUNIOR HIGH SCHOOL— **Auburn, Wash.**

Working drawings underway by Jones, Lovegren, Helms & Jones, architects, 706 Republic Bldg., Seattle, for construction of a new junior high school in Auburn. Bids will be advertised about mid-October by Auburn School District No. 408, King County, Rolland Upton, superintendent, 9420 S. 240th Place, Auburn.

Project involves six one-story buildings consisting of two six-classroom structures; administration-library building; gymnasium, kitchen, cafeteria building; home economics, arts and crafts, shop building; boiler room structure. Total area will be 46,000 sq. ft. Covered walkways will connect the buildings. Plans provide for future expansion of classrooms and gymnasium. Structural components and finishes: wood frame, concrete slab floor, brick veneer end walls, glass side walls, built-up roofing with batt insulation, glued laminated beams and columns, aluminum sash, plasterboard interior wall finish, asphalt tile flooring with ceramic tile over glazed block in toilets and showers, acoustical tile ceilings, wood doors, chalk and tack boards, built-in wood cabinets, oil fired hot water heating system with two boilers. Mechanical, electrical engineer is Erwin L. Weber, Medical Arts Bldg., Seattle; structural engineer, Peter Hostmark, Mayberg & Associates, Lloyd Bldg., Seattle.
GW 9-11

DEPARTMENT STORE— **Bellevue, Wash.**

Demolition is underway in the quarters in Bellevue Shopping Square formerly occupied by Thompson's Drugs, in preparation for installation of a J. J. Newberry Junior Department Store. Construction will be by Hainsworth Construction Co., 3028 Western Ave., Seattle. Plans by James Klontz & Associates, architects, 108 1st S.W., Auburn. The new store will occupy the former Frederick and Nelson building as well as drug store site and several shop spaces in west send of the block. Project includes cutting new entrance through drug store site toward a loading platform for store; closing off present alley with new construction on west end of block; extensive remodeling of building; enlarging former Frederick and Nelson site from 20,000 sq. ft. to 32,000 sq. ft. Plans call for a one-floor store with second floor to be used for storage space, offices and employe facilities.
SC 9-7

★ **PAINTING—** **Bremerton, Wash.**

Award to H. P. Fisher & Sons, 5252 Fontanelle Place, Seattle, $24,910, by Department of the Navy, Bureau of Yards and Docks, Bldg. 78, U. S. Naval Base, Bremerton, for exterior painting of crane No. 28 and Buildings 420 and 508 at the Puget Sound Naval Shipyard in Bremerton; NBy-2042; Spec. No. 2042/56. Bids opened August 30.
SP 9-7. Previous report 8-18

MUSEUM— **Cashmere, Wash.**

Construction will start this fall for a museum to be located on a five-acre tract east of the Wenatchee River in Cashmere. SC 9-11

▲ **SCHOOL ADDITION—** **Ephrata, Wash.**

Bids received by Ephrata School District No. 165, Ephrata, for construction of a four-classroom addition to the Grant elementary school in Ephrata. Plans by Kenneth W. Brooks, architect, 707 W. 5th Ave., Spokane. LOW BID: Allied Construction Co., 115 "F" St. N.W., Ephrata, $65,385. ONLY OTHER BID: Hansen & Hermann, Ephrata, $62,887.
SC 9-8

▲ **OXYGEN, ELECTRICAL SYSTEM REPAIRS—** **Fort Lewis, Wash.**

Bids received by Department of Army, purchasing and contracting office, Fort Lewis, for extension of oxygen distribution system and emergency power facilities to building 14032 Madigan Army Hospital, Fort Lewis, Wash.; AVI-45-016-57-33. LOW BIDS: R. G. Foster, 5324 S. 84th, $5,789; Custer Construction Co., 8230 Custer Road, S.W., $6,378; Don. Pravitz, 4606 S. "G," $6,811. All of Tacoma. Bids were opened September 5.
GW 9-7. Previous report 8-25

▲ **CUBICLE SCREENING SUPPORTS—** **Fort Lewis, Wash.**

Bids received by Department of Army, purchasing and contracting office, Fort Lewis, for installation of cubicle screening supports in six ward buildings at Madigan Army Hospital, Fort Lewis, Wash.; Inv. No. AVI-45-106-57-36. LOW BIDS: Bryan W. Burtch, Inc., 2915 1st Ave. S., Seattle, $8,755; Shaw Supply Co., 755 Market St., Tacoma, $9,482; F. T. Crowe & Co., 329 2nd Ave. W., Seattle, $10,307. Bids were opened September 5.
GW 9-7. Previous report 8-31

■ **BUILDING REHABILITATION—** **Fort Lewis, Wash.**

Additional planholders announced for the rehabilitation of buildings at Madigan General Hospital, Fort Lewis, Wash; ENG-45-108-57-33. Bids will be opened 2 p.m., September 20, by Corps of Engineers, Seattle District, 4735 E. Marginal Way, Seattle. Plans with district engineer, above address. Bid bond 20%.

Additional planholders: Cascade-Olympic Construction Co., Route 1, Box 131, Shelton; Rome Co., 3721 S. Tacoma Way, Tacoma; Addco Inc., 1117 "A" St., Tacoma; Capital Plumbing and Heating Co., Box 126, Olympia; Lent's Inc., 279 4th, Bremerton; P. S. Lord Mechanical Contractors, 4507 S.E. Milwaukie Blvd., Portland, Ore.
GW 9-8. Previous report 9-6

HIGH SCHOOL— **Freeman, Wash.**

(Estimated cost $426,000)

Bids will be called soon by Freeman School District No. 358, Howard Muse, superintendent, Valleyford, for construction of a new high school at Freeman. Plans by Kenneth Storment, architect, Hutton Bldg., Spokane. The district will use bond issue and special levy revenues of $333,414 in the project; school board has allocated remaining funds necessary for the job. PN 9-7

● **HANGER DOOR MODIFICATION—** **Geiger Field, Wash.**

Bids will be opened 2 p.m., October 10, by U.S. Air Force, Procurement Office, Geiger Field, Spokane, for modification of alert hangar doors, Bldg. 1060, Geiger Field; IFB 45-614-57-23. Specifications with above office. Bid bond 20%. CE 9-11



Lightest handful of concrete masonry material...

CASCADE PUMICE

The extra light weight of Cascade Pumice Concrete saves you money on handling costs, speeds up building. When weight is a factor, always specify Cascade Pumice Concrete for best results.

Cascade Pumice Concrete gives you tops in:



LIGHT WEIGHT
STRENGTH
FIRE RESISTANCE
HIGH INSULATION VALUE

Insist on A.S.T.M. specs.:

When specifying ANY concrete masonry demand blocks "in accordance with ASTM specs., on adequate foundation." Also Bond Beam Blocks, used where needed, and masonry problems.

WILLIAMSON Cascade PUMICE

Plant and Office:
P. O. Box 1083 • Bend, Oregon

▲TOUR CENTER— Grand Coulee, Wash.

Bids received by Bureau of Reclamation, P. R. Nalder, project manager, Box 368, Ephrata, for construction of Grand Coulee Dam Tour Center; Spec. No. 117C-388. LOW BIDS: Ruud Construction Co., 602 Realty Bldg., Spokane, $92,150; Cherf Bros., Inc., and Sandkay Contractors, Inc., Box 938, Ephrata, $99,480; Granger Builders, Wilson Creek, $103,695. Engineer's estimate, $68,000. Bids were opened September 11.

GW 9-12. Previous report 7-28

●BLEACHERS— Hoquiam, Wash.

Bids will be opened 4 p. m., September 20, by Hoquiam School District No. 28, Frank H. Bowen, secretary, 312 Simpson Ave., Hoquiam, for furnishing and installing folding bleachers in the high school at Hoquiam. Plans with above office and with John Graham & Co., 1426 Fifth Avenue Bldg., Seattle. SC 9-12

▲ADMINISTRATION BUILDING— Ice Harbor Lock and Dam, Wash.

Bids received by Corps of Engineers, Walla Walla District, 602 City-County Airport, Walla Walla, for construction of an administration building at Ice Harbor Lock and Dam, Wash.; CIVENG-45-164-57-6. LOW BIDS: A & G Construction Co., 803 S. Park Road, Spokane, $124,472; Rupp Bros. Construction Co., 902 Prosser, Pasco, $130,853; Lewis Hopkins Co., 221 S. 3rd, Pasco, $134,194. Engineer's estimate, $111,921. Bids were opened September 7.

GW 9-8. Previous report 8-31

ELEMENTARY SCHOOL, TEACHERS' HOUSING— Inchelium, Wash.

Working drawings nearly completed by Frederic Almond Long, architect, 500 Columbia Bldg., Spokane, for construction of an elementary school and four teacher housing units at Inchelium, for Inchelium School District No. 30, Harry F. Charbonneau, superintendent, Inchelium. Electrical engineer is Joseph M. Doyle, 509 Realty Bldg.; mechanical engineer, George C. Murray, 603 Mohawk Bldg., both Spokane. Fall construction planned.

SCHOOL: To include four classrooms, administrative offices, stage, kitchen, multipurpose room, lockers, craft room, covered inter-connecting way. One-story; no basement; 13,800 sq. ft. area; brick and block construction; masonry plaster interior; concrete slab on grade; glued laminated steel beams; steel columns; built-up roof, mopped on tar and gravel; architecturally projected windows; double strength wire glass and Lo-tran; 2" fiberglass blanket insulation in ceilings, perimeter, and some exposed frame walls; addition of low pressure steam heating system to existing oil-fired system; block or plaster partitions; concrete slab floors; ceramic, asphalt, acoustical tile. Gravelled parking area, 100'x20', 2,000 sq. ft.; 3,000 sq. ft. gravelled roads. HOUSING: Includes two two-bedroom houses, one three-bedroom house, one three-unit apartment house. One-story; 4,600 sq. ft.; full basement; frame construction; composition shingles, built-up roof; wood stairs; drywall interior partitions; concrete floors; sliding windows, wood sash; hardwood, linoleum flooring; oil-fired furnace, electric panels in apartments; 2" fiberglass insulation in ceilings, 1" wood sheathing board combined with insulation in walls. CE 9-11

ELEMENTARY SCHOOL ADDITION— Keller, Wash.

(Estimated cost $30,000)

Plans completed and sent to Olympia for approval for construction of a multipurpose addition and repairs to the elementary school on the San Poil River Road in Keller, for Keller School District No. 3. Plans by Frederic Almond Long, architect, 500 Columbia Bldg., Spokane. Construction to start late fall.

One-story; no basement; 1,4440 sq. ft.; reinforced concrete footings; concrete block walls; concrete slab floors; composition shingle roof on trussed rafters; steel sash; drywall partitions; asphalt tile flooring; acoustical tile ceilings; fir doors, cabinets; special equipment includes sink, kitchen equipment and dishwasher; blanket insulation in ceilings; rot air heating system, oil fuel. Project includes boiler room and kitchen, additional toilets in rest rooms. CE 9-8

●STRUCTURAL STEEL— Larson AFB, Wash.

Bids to be opened 2 p. m., September 27, by Boeing Airplane Co., 7752 E. Marginal Way, Seattle, for furnishing in excess of 1,000 ton top quality structural steel, as part of the construction of a two-place hangar at Moses Lake Flight Center, Larson AFB, Grant County, Wash. Plans with Naramore, Bain, Brady & Johanson, architects and engineers, 904 7th Ave., Seattle. $25 deposit. Plans will be available about September 13. Certified check, cashier's check or bid bond 5%. GC 9-7

●HANGAR— Larson AFB, Wash.

Bids will be opened 2 p. m., October 9, by Boeing Airplane Co., at Plant 2, Seattle Division, for construction of a two-place paint hangar at Moses Lake Flight Center, Larson AFB, Grant County, Wash. Plans with Naramore, Bain, Brady & Johanson, architects and engineers, 904 7th Ave., Seattle, on or about September 24. $75 deposit. Not more than three sets of contract documents may be obtained by each general contractor bidder, whether single firm or joint venture. Contract will constitute a subcontract between Boeing Airplane Co. and U. S. Government.

Project includes but is not limited to the following: excavation for subgrade plenums; foundation walls and footings; footings for structural steel frame; reinforced concrete airplane-bay slabs with supporting columns and footings; compacted backfill. SP 9-12

★BUILDING REPAIRS— Laurier, Wash.

Award to R. H. Haley, Moscow, Idaho, $5,245, by General Services Administration, room 126 Federal Office Bldg., Seattle, for building repairs, painting at U.S. Border Station, Laurier, Wash.; Project No. CR-10-545. GW 9-11. Previous report 8-29

VOCATIONAL BUILDING— Longview, Wash.

(Estimated cost $220,000)

Plans will be complete October 1 by McGuire & Muri, architects, 231 Broadway, Tacoma, for construction of a vocational building at 15th and Michigan in Longview, for Longview School District No. 122, 28th and Lilac St., Longview. Completion expected by August, 1957.

One-story; no basement; 100'x190', 19,650 sq. ft. area; reinforced concrete footings and foundation; poured concrete, solid masonry walls; concrete slab floors; steel girders; flat steel poured gypsum roof; masonry, frame partitions; steel windows; paint, plaster exterior and interior wall finish; metal trim; wood block, asphalt and ceramic tile floor finish; acoustical ceilings; metal doors; wood cabinets. Special equipment includes folding doors, corrugated plastic panels, refrigeration, sprinkling systems, blackboards, fire doors; rigid insulation in roof; steam heating system, oil fuel; mechanical exhaust ventilation system. SP 9-7

OFFICE BUILDING—Mercer Island, Wash.

(Estimated cost $30,000)

Plans completed by Richards and Carmin, architects, 300 Orpheum Bldg., Seattle, for construction of an office building to be located in Mercer Island Shopping Square. Bids will be called about September 24 for opening about October 15 by owner, A. H. Lundberg Pulp Engineering Co., Mercer Island. Select list of bidders.

Two-story; 3,200 sq. ft. on a sloping site; frame walls; concrete slab floors; flat built-up roof; cedar siding exterior wall finish; some glass wall area; luminous ceilings throughout; parking for 16 cars on both levels, lower floor at the back and upper floor at the front.

GW 9-11. Previous report 7-14

TERMINAL— Moses Lake, Wash.

(Estimated cost $60,000)

Bids will be opened this fall by Consolidated Freightways, Jack Cronkite, manager, Moses Lake, for construction of Consolidated Freightways terminal on Wheeler Road, Moses Lake, near building now being leased by the company. Plans by Ralph J. Bishop, architect, W. 1523 Riverside Ave., Spokane. One-story; concrete footings and foundation; concrete slab floors; parking area; freight handling to have about 20 loading stalls, 10 on each side; office in front. CE 9-7

▲SCHOOL ADDITIONS— Othello, Wash.

Bids received by Othello School District No. 147-165-55, Lutacaga Elementary School, Othello, for construction of additions to existing school building, including gymnasium, homemaking and music sections. Plans by Victor Louis Wulff, architect, 1526 W. Riverside, Spokane. Bids opened September 6. LOW BIDS—GENERAL: Murray Construction Co., Box 193, Kennewick, $341,852; Jensen-Rasmussen Co., Box 89, Sunnyside, $349,950; Cherf Bros. & Sandkay, Inc., Box 938, Ephrata, $385,000. MECHANICAL: Grant County Plumbing & Heating, Box 1567, Moses Lake, $50,821; Standard Plumbing & Heating, E. 1801 Sprague Ave., Spokane, $60,993; James Smyth Plumbing & Heating, N. 216 Division, Spokane, $63,782. ELECTRICAL: Briggs Electric, N. 1303 Monroe, Spokane, $138,594; Electric Smith, E. 123 Sprague, Spokane, $141,182; Power City Electric, N. 920 Howard St., Spokane, $144,960.

SC 9-11. Previous report 8-28

●ELEMENTARY SCHOOL— Pacific Beach, Wash.

Bids will be opened 8 p. m., September 26, by Pacific Beach School District No. 76, Grays Harbor County, Pacific Beach, for construction of an elementary school in the district. Plans with Jensen & Mills, architects, 308 S. Tacoma Way, Tacoma. $20 deposit. Bid bond 5%. Structural engineers are Smith & Murray, Perkins Bldg.; mechanical engineers are Whitson-Miller, 2507 "A," both of Tacoma.

One-story; no basement; 68'x141', 8,103 sq. ft.; irregular rectangular shape; concrete footings and foundation; frame walls; concrete slab floors; timber girders, beams, columns; glued laminated truss roof; frame partitions; steel windows; wood, plaster, paint exterior and interior wall finish and trim; drywall partitions; asphalt tile; acoustical ceilings; wood doors, cabinets; corrugated plastic panels, blackboards; warm air heating system, oil fuel; mechanical exhaust ventilating system.

SP 9-12. Previous report 8-31

CHURCH— Pasco, Wash.

(Estimated cost $60,000)

Plans announced by Emmanuel Baptist Church of Pasco for construction of a new church on 4½-acre site at Chase and Henry Streets in Pasco. First unit of a complete plant will be a chapel with seating capacity of 375 and an educational building. SC 9-7

FIRE HALL— Pasco, Wash.

(Estimated cost $15,000)

Plans announced by Mayor Harry Custer, City Hall, Pasco, for construction of a second fire hall to be located at Court St. and Road 36 in Pasco. Under proposed reciprocal agreement, the rural fire district will purchase the site and deed it to the city in exchange for a five-year lease on th building. New station would be a 32'x600' one-stall building and would temporarily house the rural fire district's pumping truck. Building would also include sleeping and light housekeeping accommodations for firemen. SC 9-12

●GREENHOUSE— Prosser, Wash.

Bids will be opened 2 p.m., September 18, by Board of Regents, 306 Administration Bldg., State College of Washington, Pullman, for construction of a greenhouse at the college's irrigation experiment station at Prosser. Specifications with Philip E. Keene, college architect, Services Bldg., Washington State College, Pullman, and with H. P. Singleton, superintendent, WCS Irrigation Experiment Station, Prosser. Bid bond 5%. Greenhouse to be 30'x51' with headhouse 30'x18'. MH 9-11

★FIELD SHED— Pullman, Wash.

Award to Dix Steel Co., Box 4036, Station B, Spokane, $3,902, by Board of Regents, 306

Administration Bldg., Washington State College, Pullman, for construction of a plant pathology field shed at Pullman. Plans by Philip Keene, college architect, Services Bldg., Pullman. MH 9-12. Previous report 9-5

▲SWIMMING POOL, BATHHOUSE— Quincy, Wash.

Bids received by Ruth Wall, town clerk, Town Hall, Quincy, for construction of a reinforced concrete swimming pool (Schedule 1) and masonry bathhouse (Schedule 2) in Quincy. Plans by Gray & Osborne, consulting engineers, 228 S. 2nd St., Yakima. Bids opened September 4. LOW BIDS—SCHED. 1: Westover & Hope, Quincy, $50,146; Cusick Construction Co., 739 S. Mission, Wenatchee, $50,367; Cherf Bros. & Sandkay, Inc., Box 938, Ephrata, $54,716. SCHED. 2: Westover & Hope, Quincy, $18,754; Big Bend, Inc., 712 Randolph Place, Seattle, $22,909; Cusick Construction Co., Wenatchee, $23,014. SCHED. 3 (Electrical): Bruce Allen Electric, "A" Southeast, Ephrata, and Blue Mountain Construction Co., 2563 W. Highway No. 10, Moses Lake, $5,854 (separate bids).

IG 9-7. Previous report 8-29

RADIO STATION— Renton, Wash.

Construction to be complete about October on new radio station for KLAN in Renton, owner Interlake Broadcasting Co., Clifford Hansen, manager, 7th Ave., and Park, Renton. Contracts have been awarded for the following: transmitter equipment and console, to Heath Radio Co., Quincy, Ill., fabrication and erection of steel towers: Tower Construction Co., Sioux City, Iowa; this to be completed on or before October 15; transmitter building: Busch Construction Co., 15832 96th Ave. S., Renton. GW 9-8

■ PREFLIGHT FACILITIES— Renton, Wash.

Planholders announced for phase two, preflight facilities modernization at Renton Field, Renton. Bids will be opened 2 p.m., September 27, by Boeing Airplane Co., C. L. Bisbee, transport division, Box 707, Renton. Plans with Bouillon & Griffiths, consulting engineers, 1411 Fourth Avenue Bldg., Seattle. $75 deposit. For site inspection contact construction engineer, Boeing Airplane Co., Olive 3414. Bids will be opened privately.

Planholders: Morrison-Knudsen Co., Inc., 603 Hoge Bldg.; S. S. Mullen Construction Co., 621 9th Ave. N.; Sound Construction and Engineering Co., 1300 Aloha; John H. Sellen Construction Co., 228 9th Ave. N.; General Construction Co., 3840 Iowa; J. C. Boespflug Construction Co., 1912 4th Ave. S.; A. F. Mowat Construction Co., 2833 Eastlake; Scheumann & Johnson, 1001 Lloyd Bldg.; Henrik Valle Co., Inc., 413 3rd Ave. W.; Cawdrey & Vemo, 3601 Fremont; Holert Electric Co., 2300 W. Spokane; Automatic Sprinkler Co. of America, 610 W. Idaho. All of Seattle. GW 9-11. Previous report 9-6

CHURCH— Richland, Wash.

(Estimated cost $60,000)

Construction will start soon for new Trinity United Protestant Church at Everest St., MacMurray Ave. and Pine St., in Richland. Plans by Eddy, Carlson & James, architects, N. 1205 Washington St., Spokane. CE 9-12

★DISMANTLING, REPLACING BUILDING— Richland, Wash.

Award to Hoffman Construction Co., 715 S.W. Columbia, Portland, $95,200, by Atomic Energy Commission, Bldg. 703, Richland, for dismantling and replacing a maintenance building inside the Hanford barricades at Richland. SP 9-12. Previous report 8-23

■ LAKEWOOD JUNIOR HIGH SCHOOL— Seattle, Wash.

Planholders announced for the construction of Lakewood Junior High School at 172nd S.W. and 10th Ave. S.W., Seattle. Bids will be opened 2 p.m., September 18, by Highline School District No. 401, King County, Carl Laudenbach, business manager, 253 S. 152nd, Seattle. Plans with Steinhart, Theriault and Anderson, architects, 404 Medical Arts Bldg., Seattle. $50 deposit on general; $25 on mechanical and electrical plans. Certified check, cashier's check or bid bond 5%.

Planholders—GENERAL: Lewis Construction Co., 1711 Jackson; George E. Teufel Co., White Henry Stuart Bldg.; Carl G. Anderson Construction Co., 12362 35th Ave. N.E.; Hebb & Narodick Construction Co., Inc., 232 4th Ave. N.; Leavitt-Chandler, Box 6, Bellevue. MECHANICAL: University Plumbing and Heating Co., 3941 University Way; George H. Lucken, Inc., Plumbing and Heating Co., 922 Leary Way; Navarre Plumbing and Heating Co., 3839 Stone Way; Rautman Plumbing and Heating Co., 115 Jackson; L. G. Massart Plumbing and Heating Co., 4501 9th Ave. N.W.; Bellevue Plumbing and Heating Co., 102nd and Main, Bellevue. ELECTRICAL: Hooper Electric Co., 215 Marion; Yansen Electric Co., 421 S.W. 152nd; Holert Electric Co., 2300 W. Spokane; Lloyd Larsen Electric Co., 2306 4th Ave. All bidders of Seattle unless otherwise stated.

GW 9-7. Previous report 9-1

★PAINTING— Seattle, Wash.

Award to Atna Painting and Decorating Co., 6794 19th Ave. N.W., Seattle, $8,194, by 13th Naval District, Public Works Office, U. S. Naval Station, Seattle, for exterior painting of four buildings at U. S. Naval Air Station, Sand Point, Seattle; NBy 1950; Spec. No. 1950/56. GW 9-7. Previous report 9-1

★BOILER HOUSE ALTERATIONS— Seattle, Wash.

Award to Fraser's Boiler Service, 703 Dearborn, Seattle, $2,950, by 13th Naval District, Public Works Office, U. S. Naval Station, Seattle, for alterations to the boiler house at U. S. Naval Air Station, Sand Point, Seattle; Spec. No. 1949/56.

GW 9-7. Previous report 9-1

★AIR CONDITIONING— Seattle, Wash.

Award to W. E. Beggs, 234 9th Ave. N., Seattle, $18,923, by H. E. Pike, state supervisor of purchasing, Box 1164, Olympia, for construction of an air conditioning system to serve the lecture rooms at University of Washington, Seattle. Plans by Bouillon & Griffiths, consulting engineers, 1411 4th Ave. Bldg., Seattle.

GW 9-7. Previous report 9-1

APARTMENT BUILDING— Seattle, Wash.

Plans complete by Donald M. Edwards, architect, 2nd and Cherry Bldg., Seattle, for construction of an apartment building at 110 W. Florentia, Seattle. Construction will start soon by K. L. Strandberg, 147 W. Florentia, owner builder. Two-story frame structure, concrete slab floors, built-up roof. GW 9-8

■ OFFICE BUILDING— Seattle, Wash.

Additional planholders announced for the construction of a business office, sales and service building at 3rd Ave. and Clay St., Seattle. Bids will be opened 2 p.m., September 18, by Rand Division, Sperry Rand Corp., 1910 4th Ave., Seattle, in the office of Jones & Bindon, architects, 715 Hoge Bldg., Seattle. Plans with architects, above address. Select list of bidders.

Additional planholders: John H. Sellen Construction Co., 228 9th Ave. N.; and O. E. Turnquist Construction Co., 1305 Republican. Both of Seattle.

GW 9-8. Previous report 9-1

★NET SHED— Seattle, Wash.

Award by Port of Seattle, M. J. Weber, secretary, 406 Bell St. Terminal, Pier 66, Seattle, for construction of net shed No. 5, at Salmon Bay Terminal, Seattle. AWARD: Strand, Inc., 1801 N. 34th, $99,980. OTHER LOW BIDS: Gillespie Construction Co., 803 E. 73rd, $100,591; John H. Sellen Construction Co., 228 9th Ave. N., $103,827. All bidders of Seattle. Bids were opened September 6.

GW 9-8. Previous report 8-30

●ACOUSTICAL TREATMENT— Seattle, Wash.

Bids will be opened 10:30 a.m., October 8, by Seattle Army Terminal, room 300, Building No. 1, 1519 S. Alaskan Way, Seattle, for acoustical treatment in eight rooms in Building No. 1, Seattle, Army Terminal. Plans with procurement division, above address. Bid bond 20%. GW 9-8

▲ROOFING— Seattle, Wash.

Bids received by Paul R. Hendricks, city purchasing agent, room 511, County-City Bldg., Seattle, for furnishing and installing a complete new roof on Fire Station No. 18, Russell Ave., and Market St., Seattle. LOW BID: Independent Sheet Metal Corp., 1723 Westlake Ave. N., $585. ONLY OTHER BID: A B C Roofing and Siding Co., 3123 Eastlake, $883. Bids were opened September 7. GW 9-8. Previous report 8-29

SHOP BUILDING— Seattle, Wash.

(Estimated cost $120,000)

Architects, Durham, Anderson & Freed, 1100 Denny Way, Seattle, have been retained by City Council, William E. Parker, city

Damp-proof Concrete with ANTI-HYDRO

For concrete walls and foundations, be sure you specify Anti-Hydro, the integral water-proofer. This concrete sealer and primer hardens concrete, prevents freezing, makes it more water-resistant.

Anti-Hydro is backed by a 5-year maintenance guarantee. To damp-proof concrete, stucco and concrete blocks, specify Anti-Hydro on your next job. Write or phone Pioneer for details.

PIONEER SAND & GRAVEL CO.

901 FAIRVIEW AVE. N. ● 910 W. SPOKANE ST. ● SEATTLE ● MAin 2900

engineer, for construction of a north end shop building for the engineering department, at Ashworth Ave. and N. 128th, Seattle. The concrete structure will have about 30,000 sf. ft. of space. GW 9-11

●RE-SIDING, PAINTING— Seattle, Wash.

Bids to be opened 2 p. m., September 25, by 13th Naval District, Public Works Office, room 100, Building 232, U. S. Naval Station, Seattle, for re-siding and painting Building No. 341, U. S. Naval Station, Seattle; Spec. No. 6567/56. Plans with public works office, above address. $25 deposit. Bid bond 20%. GW 9-11

▲ADMINISTRATION OFFICE, SHOP BUILDING— Seattle, Wash.

Bids received by Water District No. 75, King County, L. W. Bundy, secretary, 19863 28th Ave. S., Seattle, for construction of an administration building and shop, adjacent to the water office. Plans by Phillip M. Botch, structural engineer, 10 1st Ave., Auburn, and 308 Marion Bldg., Seattle. LOW BIDS: Gest Construction Co., 2013 Bronson Way N., Renton, $26,199; O & W Builders, 740 S. 216th, Seattle, $26,490; Armstrong Construction Co., 16 "C" S.E., Auburn, $26,499. Bids were opened September 7. GW 9-11. Previous report 9-6

■ELEMENTARY SCHOOL— Seattle, Wash.

Planholders announced for the construction of the first unit of Marvista Elementary School, S.W. 200th and Marine View Drive, Seattle. Bids will be opened 8 p. m., September 25, by Highline School District No. 401. King County, Administration Bldg., 253 S. 152nd, Seattle. Plans with Waldron & Dietz, architects, 215 8th Ave. N., Seattle. $25 deposit. Certified check, cashier's check or bid bond 5%.

Planholders: Burien Construction Co., 4126 S.W. 106th, Seattle; Noel Construction Co., 11014 Main St., Bellevue. GW 9-11. Previous report 8-23

■ECHO LAKE ELEMENTARY SCHOOL— Seattle, Wash.

Planholders announced for the construction of Echo Lake Elementary School at Wallingford and N. 195th, Seattle. Bids will be opened 8 p.m., September 26, by Shoreline District No. 412, King County, Myron Ernst, superintendent, Administration Bldg., E. 158th and 20th Ave. N.E., Seattle. Plans with Jones & Bindon, architects, 715 Hoge Bldg., Seattle. $25 deposit on general, $15 each on mechanical and electrical plans. Certified check, cashier's check or bid bond 5%.

Planholders—Ness Construction Co., 1125 W. 53rd. Seattle; Brady Construction Co., 707 Spokane, Seattle; Stoll & Freese Plumbing and Heating Co., 8919 236th S.W., Edmonds. GW 9-11. Previous report 9-6

★TELEPHONE SYSTEM ADDITION— Seattle, Wash.

Award to Selo Electric Co., 1050 N. 38th, Seattle, $7,740, by 13th Naval District, Public Works Office, room 100, Building 232, U. S. Naval Station, Seattle, for an addition to the telephone system in buildings Nos. 9, 25, 29, and 138 at U. S. Naval Station in Seattle; NBy 2065; Spec. No. 2065/56. GW 9-12. Previous report 7-28

■HOSPITAL ADDITIONS— Sedro Woolley, Wash.

Planholders announced for the alterations to the Annex Bldg., at Northern State Hospital, Sedro Woolley. Bids will be opened 3 p.m., September 27, by H. D. Van Eaton, director of general administration, General Administration Bldg., Olympia. Plans with George W. Stoddard, Huggard & Associates, architects, 1120 Harvard, Seattle. $25 deposit.

Planholders: A. W. Stevens, Mount Vernon; Gunderson Construction Co., Sedro Woolley; Phil Anderson, Route 2, Mount Vernon; Nelson Construction Co., Box 514, Ferndale. GW 9-8. Previous report 9-5

HATCHERY FACILITIES— South Bend, Wash.

Bids rejected by State Department of Fisheries, Olympia, for construction of an addition to the hatchery building at Nemah Bay Salmon Hatchery about 18 miles south of South Bend. Bids were opened September 6. Only one bid was received at the September 6 bid opening. DM 9-11. Previous report 9-7

STUDENT CENTER— Spokane, Wash.

(Estimated cost $247,000)

Funk, Molander & Johnson, W. 524 4th Ave., Spokane, are architects for the new student center building to be constructed at Whitworth College, Country Homes Estates, Spokane, according to L. R. Durkee, area representative, Housing and Home Agency, 450 Federal Office Bldg., Seattle. Proposed building to contain lounge and recreational facilities, snack bar, guestrooms, bookstore and post office. SP 9-8. Previous report 9-7

●■CHURCH— Spokane, Wash.

(Estimated cost $125,000)

Bids will be opened 3 p. m., September 19, at the office of the architects, by Rev. Harold W. Black, pastor, S. 232 Nelson St., Spokane, for construction of new Centenary Methodist Church at Freya St. and 11th Ave. in Spokane. Plans with Eddy, Carlson & James, architects, N. 1205 Washington St., Spokane. $25 deposit.

Planholders: P & B Co., Inc., E. 8903 Main Ave.; Hazen & Clark, Inc., W. 108 Boone Ave.; Troy B. Hood, Inc., S. 222 Pines Road; Smith & Roberts, Inc., E. 802 Bridgeport Ave.; Selkirk Construction Co., S. 1508 Chestnut St.; Hefte Construction Co., 11607 Trent Ave. All of Spokane.

One-story; basement; reinforced concrete footings and foundation; hollow masonry walls; concrete floors on grade; built-up roof; cement-asbestos shingles; glued laminated arches; frame partitions; aluminum windows; plywood mahogany walls; ½" and ⅝" drywall partitions; acoustical ceilings; hot water radiant floor heating system. CE 9-11. Previous report 8-8

●CATHOLIC SCHOOL— Spokane, Wash.

(Estimated cost $150,000)

Bids will be opened 2 p.m., September 18, in the Chancery Bldg., 317 S. Howard St., Spokane, by Most Rev. Bernard J. Topel, bishop of the Catholic diocese of Spokane, for construction of Our Lady of Fatima Catholic school at 33rd and Perry Streets in Spokane. Plans with John P. O'Neill, architect, Columbia Bldg., Spokane.

One-story; brick cavity wall construction; stone facing; includes four classrooms; large additional room, designed to make four classrooms later, left unpartitioned for use as multipurpose room. SC 9-12

★SCHOOL ADDITIONS— Tacoma, Wash.

Awards announced by Tacoma School District No. 10, Carl G. Caddey, business manager, 5th floor, School Administration Bldg., Tacoma, for construction of an addition to the Point Defiance elementary school at N. 45th and Visscher Streets in Tacoma. Plans by Gilbert Wojahn, architect, 6 N. Tacoma Ave., Tacoma. AWARDS—GENERAL: Woodward Construction Co., 2568 S. Steele, Tacoma, $167,668. MECHANICAL: Kaelin Plumbing & Heating Co., 1301 Center, Tacoma, $51,500. ELECTRICAL: Connors Electric Co., 2523 Jefferson St., Tacoma, $14,780. SP 9-12. Previous report 9-7

●JUNIOR HIGH SCHOOL— Tacoma, Wash.

Bids will be opened 2 p.m., October 5, by T. O. Hagness, superintendent and secretary of Clover Park School District No. 400, at the board office, 5214 Steilacoom Blvd., Tacoma, for construction of a junior high school in the Custer area of the district. Plans with Charles V. Rueger, architect, 225 S. Tacoma Ave., Tacoma. $75 deposit. Certified check, cashier's check or bid bond 5%.

Project consists of construction of three buildings, main classroom unit, gymnasium building and music building. Slab-on-grade; exterior window walls, porcelain panels below glass; concrete block and brick facing on end walls and other wall areas; laminated post and beam roof framing, some steel pipe columns; gymnasium is steel joist construction with trusses 8' on center; all buildings, t&g roof decking; built-up composition roofing; aluminum sash (basic), steel sash (alternate); plaster interior with acoustical and asphalt tile in classroom unit; ceramic tile in toilet areas, locker and shower rooms in gymnasium; glazed block walls in shower rooms; hot-water heating coils in slab of classroom unit, force-air unit heaters in other two buildings. SC 9-12

●TELEPHONE EQUIPMENT BUILDING— Tacoma, Wash.

(Estimated cost $900,000)

Bids will be opened 4 p. m., September 27, by Pacific Telephone and Telegraph Co., George Blackaller, acting building engineer, 1230 Exchange Bldg., Seattle, for construction of an additional telephone equipment building for the Waverly-Yukon telephone district in Tacoma. Plans by Jones & Bindon, architects, 715 Hoge Bldg., Seattle. Select list of bidders. Construction will include a one-story and basement structure; 64'x96'; reinforced concrete and brick. It will be framed for two additional stories in the future.

Planholders: Quality Builders, 312 S. 112th; Ketner Bros., 419 St. Helens; E. Goetling & Sons, 2921 S. "J" St.; Anderson Construction Co., 115 S., all of Tacoma; Cawdrey & Vemo, 3601 Fremont; Jentoft & Forbes, 927 W. 46th; Dahlgren Construction Co., 1700 21st Ave. S.; George E. Teufel Co., White-Henry-Stuart Bldg.; John H. Sellen Construction Co., 228 9th Ave. All of Seattle unless otherwise stated. GW 9-8

STADIUM REHABILITATION— Tacoma, Wash.

(Estimated cost $500,000)

Plans have been proposed by Tacoma School Board for placing a $500,000 bond issue on November ballot for rehabilitation of the Tacoma Stadium. Survey of the existing building has been made and plans disclosed for rehabilitation by E. J. Bresemann, architect, Perkins Bldg., Tacoma. SC 9-11

●SCHOOL— Taholah, Wash.

(Estimated cost $103,700)

Bids will be opened 8 p. m., September 25, by Taholah School District No. 77, Marion Shal, clerk, Taholah Elementary School, Taholah, for construction of a new elementary school for Quinault Indian Reservation at Taholah. Plans with Jensen & Mills, architects, 308 S. Tacoma Way, Tacoma. $20 deposit. Bid bond 5%. Structural engineers are Smith & Murray, Perkins Bldg.; mechanical engineers are Whitson-Miller, 2907 "A" St., both of Tacoma.

One-story; no basement; 60'x163', 8,000 sq. ft. area; irregular rectangular shape; concrete footings and foundation; frame walls; concrete slab floors; timber girders, beams, columns; glued laminated truss roof; frame partitions; steel windows; wood and paint exterior and interior wall finish and trim; drywall partitions; asphalt tile floor finish; acoustical ceilings; wood doors, cabinets; corrugated plastim panels, blackboards; warm air heating system, oil fuel; mechanical exhaust ventilating system. SP 9-12. Previous report 8-30

POST OFFICE— White Salmon, Wash.

Bids will be called soon for construction of a new post office in White Salmon, according to S. G. Schwartz, regional director, Post Office Dept., Portland. An assignable land option for the 40'x100' site on corner of Estes and Toppenish Streets in White Salmon has been accepted. Adequate parking will be available. SC 9-11

★CITY HALL— Wilbur, Wash.

Award to Havercroft Construction Co., Spokane, $83,668, by City Council, Wilbur, for construction of a new city hall at Wilbur. Plans by Benjamin K. Reugl, architect, Old National Bank Bldg., Spokane. SP 9-11. Previous report 8-10

IDAHO

●PAINTING, BUILDING REPAIRS— Blackfoot, Idaho

Bids will be opened 3 p.m., September 26, by General Services Administration, room 126, Federal Office Bldg., Seattle, Wash.,

for painting, and building repairs at U. S. Post Office, N. Ash and Pacific St., Blackfoot. Plans with construction and repair division, above address. Work to be done includes interior and exterior painting; installation of asphalt tile flooring on swing room floor; replacement of skylight glass and masonry pointing. Completion time 60 calendar days. GW 9-7

★**CHURCH—** **Bonners Ferry, Idaho**

Contract negotiated with Hill-Miller Contracting Co., Bonners Ferry, $72,035, by First Methodist Church, Bonners Ferry, for construction of a new building to contain main sanctuary, education unit, fellowship hall and service facilities.

GW 9-12. Previous report 9-5

★**DORMITORY, DINING HALL—** **Caldwell, Idaho**

Awards announced by Board of Trustees, College of Idaho, Caldwell, for construction of men's dormitory and dining hall addition on the campus. Plans by Hummel, Hummel & Jones, architects, 1324 Idaho St., Boise. AWARDS—DORMITORY: G & M Construction Co., Box 1276, Boise, $346,555. DINING HALL: E. A. Fulton Construction Co., 1709 Main St., Boise, $44,829.

SP 9-8. Previous report 9-5

CONVALESCENT HOME—Grangeville, Idaho
(Estimated cost $200,000)

Bids will be called in November by Idaho County Commissioners, Courthouse, Grangeville, for construction of the proposed 34-bed county convalescent home adjacent to the General Hospital on W. Main St. in Grangeville. Plans by T. J. Pritchard, architect, 804 Apple Lane, Moscow. Project includes garden, patio, entertainment room and rehabilitation center.

SC 9-7. Previous report 2-24

■ **GRADE SCHOOL—** **Kuna, Idaho**

Planholders announced for construction of a grade school at Kuna. Bids will be opened 8 p. m., September 21, in the library of the high school, by Class A School District No. 3, Ada and Canyon Counties, Idaho. Plans with Charles W. Johnston, architect, 13 N. 8th St., Payette.

Planholders: Babbitt Construction Co., Box 4038; R. E. Rice Construction Co., 4602 State; E. A. Fulton, 1709 Main St.; J. H. Wise & Son, Inc., Box 267; G & M Construction Co., Box 1276; David G. Dorsey, 1014 Everett St., Caldwell; L. H. Krieger Construction Co., 308 11th Ave. S. Ext., Nampa; Leukenga Construction Co., Box 943, Nampa. Of Boise unless noted.

SP 9-11. Previous report 9-7

■ **MARRIED STUDENTS QUARTERS—** **Moscow, Idaho**

Planholders announced for the construction of married students quarters in Moscow. Bids will be opened 2 p. m., September 18, by University of Idaho, Board of Regents, Moscow. Plans with Jones, Lovegren, Helms and Jones, architects, 706 Republic Bldg., Seattle. $25 deposit. Certified check, cashier's check or bid bond 5%.

Project will involve eight two-story buildings approximately 100'x20' each; reinforced concrete and pumice block walls; concrete slab floors; reinforced concrete built-up flat roof with batt insulation; concrete stairway at ends of buildings with balconies running the full length of each building; interior walls of exposed pumice block, bathrooms with drywall interiors, some gypsum board in kitchens and bathroom ceilings; others painted exposed pumice; built-in wardrobes and drawer units; built-in kitchen units; asphalt tile flooring, wall to wall carpeting in living rooms; all furnishings and drapes to be included in the contract; extension of the existing heating system, of oil fired hot water with fin tubes extended the length of each building, and underground conduit to each building. There is 10' between each building connected by a covered walkway; aluminum sash on window walls in living rooms. There is a separate laundry building 21'x17'.

Planholders—GENERAL: Commercial Builders, Inc., 301 College, Moscow; John E. Thomas, 408 N. Hayes, Moscow; Johnson-Busboom Rauh, N. 601 Cedar, Spokane, Wash.; Brady Construction Co., 707 Spokane, Seattle, Wash. MECHANICAL: P. S. Lord Mechanical Contractors, 4507 S.E. Milwaukie Blvd., Portland, Ore.; H. D. Powell, 612 S. Main, Moscow. ELECTRICAL: Power City Electric Co., N. 920 Howard, Spokane, Wash.; Electric Smith, Inc., E. 123 Sprague, Spokane. GW 9-8. Previous report 8-30

Our news covers the six Pacific Northwest states and Alaska.

▲**NURSING HOME—** **Moscow, Idaho**

Bids received by Latah County Commissioners, Courthouse, Moscow, for construction of a 47-bed nursing home for older residents. Plans by Anton E. Dropping, architect, 2504 Kootenai, Boise. Bids opened September 4. LOW BIDS—GENERAL: Herb Dunham, Box 42, $148,890; Johnson-Busboom-Rauh, N. 601 Cedar St., Spokane, $153,875; Hansen & Parr, 315 W. Boone Ave., Spokane, $154,250. MECHANICAL: H. D. Powell, 612 S. Main, $54,900; C. M. Wilderman, 520 S. Main, $61,200; Murray Burns, 2801 Warm Springs Ave., Boise, $64,654. ELECTRICAL: Moscow Electric, 203 S. Main, $17,248; Spence Electric, 306 S. Washington, $18,317; C. M. Wilderman, $19,750. Of Moscow unless noted.

SC 9-12. Previous report 8-29

★**SWIMMING POOL—** **Mountain Home AFB, Idaho**

Award to Max J. Boesinger, Mountain Home, $329,991, by Corps of Engineers, Walla Walla District, 602 City-County Bldg., Walla Walla, for construction of an indoor swimming pool at Mountain Home AFB, Elmore County, Idaho; ENG-95-164-56-48.

SC 9-12. Previous report 8-2

MONTANA

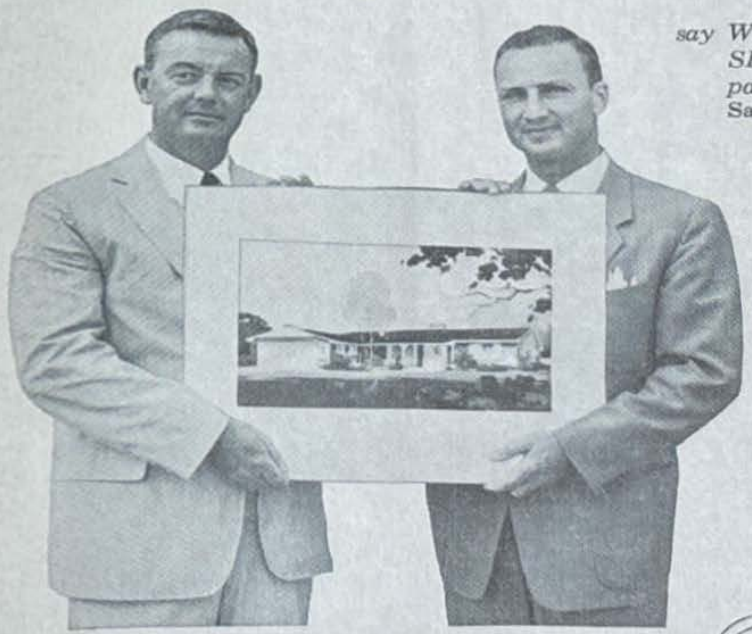
★**SNOW SHELTER—** **Anaconda, Mont.**

Award to Mann Construction Co., Redmond, Ore., $7,817, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for construction of snow shelter over outside stairways at the Anaconda substation, Deer Lodge County, Mont.; Inv. No. 8129. WB 9-11. Previous report 8-30

★**SAFEWAY STORE—** **Anaconda, Mont.**

Award to Cahill-Mooney Construction Co., 1220 E. Front St., Butte, no amount released, by Safeway Stores, Inc., Construction Division, 66 W. Park, Butte, for construction of a new Safeway store and parking lot at Cottonwood and 3rd in Anaconda. Plans by Norman J. Hamill & Associates, architects, 122 W. Granite St., Butte. Bids opened August 18. SC 9-12. Previous report 8-10

Buyers look for telephone planning in today's homes



say WELDON B. MANSFIELD *and* SHELDON W. PARKER,
partners, Western Enterprises, Inc.
Sacramento, California

Buyers of new homes "just naturally expect" built-in telephone outlets in convenient locations, report builders Mansfield and Parker. The same goes for concealed telephone wiring. Western Enterprises' newest development offers these features—plus two color telephones and six-months' service *free of charge* for each home.

To successful builders like Messrs. Mansfield and Parker, who are setting living standards in the Pacific West, complete telephone planning is as basic as adequate electrical wiring. Pacific Telephone is always ready to help you plan built-in telephone facilities. Just call us and ask for our free Architects and Builders Service.

Specify built-in telephone facilities
—a sign of good planning

Pacific Telephone

▲**ELECTRICAL SERVICE— Babb, Mont.**

Bids received by General Services Administration, construction and repair division, room 126, Federal Office Bldg., Seattle, for installation of new electrical service and new panelboard at the U. S. Border Station, at Babb; Project No. CR-10-564. LOW BIDS: Eureka Electric Co., Eureka, $1,950; Casey Electric Co., Bell St. Terminal, Seattle, Wash., $1,995; Robert Green, York, Nebr., $2,475. Bids were opened September 6.

GW 9-8. Previous report 8-31

★**VOCATIONAL SHOP BUILDING— Bigfork, Mont.**

Awards announced by Katherine G. Barton, clerk, Bigfork High School District No. 38, Flathead and Lake Counties, Bigfork, for construction of new vocational education building at the high school in Bigfork. AWARDS—GENERAL: Collins Construction Co., Kalispell, $32,713. MECHANICAL: Kalispell Plumbing & Heating Co., 333 1st Ave. E., Kalispell, $9,686. ELECTRICAL: Hollingsworth Electric Co., 419 1st Ave. E., Kalispell. SP 9-12. Previous report 8-30

★**DISTRIBUTION CENTER— Butte, Mont.**

Award to Cahill-Mooney Construction Co., 1220 E. Front St., Butte, no amount released, by Safeway Stores, Inc., Construction Division, 66 W. Park St., Butte, for construction of a distribution center on land west of Harrison Ave. and east of Timber Butte in Butte. Plans by Norman J. Hamill & Associates, architects, 122 W. Granite St., Butte. Bids opened August 7.

SC 9-12. Previous report 8-10

HOSPITAL— Cardston, Mont.

(Estimated cost $460,000)

Final approval announced by the Hospital Board for construction of proposed new municipal hospital for Cardston and immediate vicinity. Of the estimated cost, $78,000 will be available from government construction grants; remainder of necessary funds will be financed by the district.

SC 9-7

▲**RESIDENCE— Columbia Falls, Mont.**

Bids received by the architects, for construction of a residence in Columbia Falls, for D. C. Dunham of Columbia Falls. Plans by Brinkman & Lenon, architects, Strand Bldg., Kalispell. Bids opened September 5. LOW BID: Montana Builders, 1340 8th Ave. E., Kalispell, $66,543. ONLY OTHER BID: Gyrion Construction Co., 94 5th Ave. W.N., Kalispell, $81,953.

RB 9-11. Previous report 8-28

★**ELEMENTARY SCHOOL— Fairfield, Mont.**

Awards announced by School District No. 21, Fairfield, for construction of an elementary school in Fairfield. Plans by Page & Werner, architects, 15½ 4th St. N., Great Falls. Bids opened August 31. GENERAL—AWARD: Zion Construction Co., 3016 5th Ave. N., Great Falls, $89,542. 2ND LOW: George Weaver, Fairfield, $99,254. 3RD LOW: John Bergum, 915 Poplar, Helena, $104,089. MECHANICAL—AWARD: Teton Plumbing & Heating Co., Choteau, $31,134. 2ND LOW: Fullertons Plumbing & Heating, Hamilton, $35,209. 3RD LOW: Edwin Johnson Plumbing & Heating, $35,570. ELECTRICAL—AWARD: Rainbow Electric, 2220 River Drive, Great Falls, $11,590. ONLY OTHER BID: Choteau Electric, Choteau, $13,881. SP 9-7. Previous report 8-28

■ **SCHOOL ADDITION— Gildford, Mont.**

(Estimated cost $150,000)

Planholders announced for the construction of an addition to the school in Gildford. Bids will be opened 7 p.m., September 25, by School District No. 20, Hill County, Gildford. Plans with Weed & Fehlberg, architects, Sundelius Bldg., Kalispell. Mechanical engineer is William Walterkirschen, 107 E. Main, Missoula.

Planholders—GENERAL: Eskestrand Bros., Havre; Chris Fuglevand, 519 4th St., Havre; Hugo T. Schellin Construction Co., Chinook; Morgen & Oswood, Box 225, Glasgow; Gyrion Construction Co., Box 72, Kalispell; Gens Construction Co., Box 465, Great Falls. MECHANICAL: J. A. McCauley, 424 2nd St., Havre; Kalispell Plumbing and Heating Co., Box 626, Kalispell. ELECTRICAL: Havre Electric Co., Havre.

GC 9-11. Previous report 9-6

●**ROOF REPAIR— Hamilton, Mont.**

Bids to be opened 3 p.m., September 20, by General Services Administration, room 126, Federal Office Bldg., Seattle, Wash., for room repair of various buildings at U. S. Public Health Service Laboratory, 4th St., Hamilton. Plans with construction and repair division, above address. GW 9-8

●**AIR CONDITIONING SYSTEM— Helena, Mont.**

(Estimated cost $33,000)

Bids will be opened October 4 by State Board of Examiners, G. L. Bryant, executive secretary, State Capitol Bldg., Helena, for installation of air conditioning system for lobby and first floor of Sam Mitchell Bldg., Helena. Plans with Vincent H. Walsh, architect, 415 N. Warren St., Helena. Structural engineer is Martin Kelly, state engineer, 418 Mitchell Bldg., Helena; mechanical engineer is William Walterskirchen, consulting engineer, 107 E. Main, Missoula. Project will be financed by federal rentals of U. S. employment service over a long tem.

SC 9-7. Previous report 6-28

CAPITOL BUILDING— Helena, Mont.

Plans proposed by Attorney General Arnold H. Olson for construction of an eight-story capitol to house most state offices in Helena, rather than continue repair and maintenance of the existing building. Cost of modernizing the present statehouse has been estimated at $4,180,000 by Morrison-Maierle, consulting engineers, 910 Helena Ave., Helena; replacement value of the building would be $6,564,265, an amount for which a new building could be constructed.

SC 9-7

CHURCH— Missoula, Mont.

Plans announced by Prince of Peace Evangelical Lutheran Church, Rev. Karl Schmidt, pastor, for construction of new church building on 13th and Reserve Streets in Missoula. Construction to start in spring of 1957. SC 9-7

AIRPORT— West Yellowstone, Mont.

(Estimated cost $1,200,000)

A committee has been organized to develop and promote plans for construction of a new airport four miles northwest of West Yellowstone, just outside Yellowstone National Park. The committee, headed by Frank Wiley, Montana Aeronautics Commission director, includes M. C. Wilson, West Yellowstone, Gardiner White, Bozeman, and representatives of U. S. Forest Service, the CAA and Department of Interior. Proposed airport would accommodate four-engine airplanes and would provide 7,500' long and 150' wide surfaced runway, administration building, access road, taxiways, drainage and lighting. SC 9-7

WYOMING

CLINIC ADDITION— Casper, Wyo.

Construction underway by force account for Casper Clinic, 815 W. Center, Casper, for additions to the clinic. Plans by Holzinger-Schropfer & Associates, architects, 328 2nd St., Casper. Bids were rejected on this project in August.

LY 9-7. Previous report 8-9

TELEPHONE BUILDING ADDITION— Casper, Wyo.

Plans complete for construction of an addition to the telephone building in Casper, for Mountain States Telephone & Telegraph Co., 412 W. Buffalo, Rawlins. Plans by Porter & Bradley, architects, 1009 E. Lincolnway, Cheyenne. LY 9-7

Profitable leads on building and engineering projects in the six Pacific Northwest states and Alaska appear in these columns.

★**BANK— Casper, Wyo.**

Contract negotiated with Riedesel-Lowe Co., Box 914, Cheyenne, by Casper National Bank, Center and 2nd Streets, Casper, for construction of the new bank building at 1st and Wolcott Streets in Casper. Plans by Robert Wehrli, architect, 829 Cy Ave., Casper. LY 9-12. Previous report 8-4

●**OFFICE BUILDING ALTERATIONS— Casper, Wyo.**

(Estimated cost $20,000)

Bids will be opened September 17 by the architect, for alterations to the office building on E. 8th St. in Casper, for Kistler Plumbing and Heating Co., 317 E. "A" St., Casper. Lessee is Phillips Petroleum Co., 311 E. "A" St., Casper. Plans with Robert Wehrli, architect, 829 Cy Ave., Casper.

LY 9-12

HIGHWAY BUILDING— Cheyenne, Wyo.

(Estimated cost $2,000,000)

Construction to start in spring of 1957 if approved by 1957 state legislature, by Wyoming State Highway Department, State Office Bldg., Cheyenne, for a new office and shop building to be located on a 38-acre site north of the Country Club and east of Warren AFB boundary in northwestern Cheyenne. Plans by Sam Hutchings, architect, 1902 Thomas Ave., Cheyenne.

SC 9-8. Previous report 9-1

▲**RESIDENCE— Douglas, Wyo.**

Bids received by John Pellegren, architect, 508 E. Yellowstone, Casper, for construction of a residence in Casper, for Mr. William Barber of Douglas. LOW BIDS: Dougherty & Novotny Construction Co., Box 1841, Casper, $29,995; Lyle Hunt, Glenrock, $32,410; Harry Johnston, Douglas, $36,979.

LY 9-12

ELEMENTARY SCHOOL ADDITION— Encampment, Wyo.

(Estimated cost $85,000)

Project temporarily postponed by School District No. 19, Vera Oldman, clerk, Encampment, for construction of a six-classroom addition to the elementary school in Encampment. Plans with Oscar G. Woody, architect, 716 S. 6th St., Laramie. Bids were to have been opened September 10.

LY 9-7. Previous report 8-18

★**HIGH SCHOOL ADDITION— Jackson, Wyo.**

Award to C. H. Elle Construction Co., Box 1190, Pocatello, Idaho, $120,500, by Board of Education, Jackson, for construction of addition to the Jackson-Wilson high school in Jackson. Plans by Kellogg & Kellogg, architects, 309 N. Front St., Rock Springs, and 2309 Warren Ave., Cheyenne.

SP 9-11. Preivous report 8-5

★**ELEMENTARY SCHOOL— Moran, Wyo.**

Award announced by School District No. 3, Moran School, about 8 mi. east of Moran on U. S. Highway 287, Teton County, Wyo., for construction of an addition to the elementary school. Plans by Kellogg & Kellogg, architects, 309 N. Front St., Rock Springs, and 2309 Warren Ave., Cheyenne. Bids opened August 30. AWARD: Kranenberg Construction Co., Jackson, $30,000.

SP 9-11. Previous report 8-25

★**TELEPHONE BUILDING— Rawlins, Wyo.**

Award to Alfred Brown Construction Co., 628 Dooly Bldg., Salt Lake City, $234,126, by Mountain States Telephone & Telegraph Co., 412 W. Buffalo, Rawlins, for construction of additions to the telephone building at 17th and Cedar Streets in Rawlins. Plans by Porter & Bradley, architects, 1009 E. Lincolnway, Cheyenne. Bids opened August 23. SP 9-11. Previous report 8-16

SAFEWAY STORE— Torrington, Wyo.

Working drawings underway by Paul W. Rader, architect, 6915 Lakewood Place, Denver, Colo., for a Safeway store in Torrington, for Safeway Stores, Inc., Construction Division, A. E. Olson, manager, 810 14th St., Denver. One-story; 100'x125'; brick and tile construction; glued laminated beams; concrete floor; 2" wood plank; air conditioning. LY 9-7

UTAH

●■ **OFFICE, GARAGE— Altamont, Utah**
(Estimated cost $22,000)

Bids will be opened 10 a.m., September 18, by Moon Lake Electric Association, Altamont, for construction of a one-story solid masonry office and garage building at Altamont. Plans with Jackson & Jackson, architects, 457 S. 3rd East, Salt Lake City. $10 deposit. Bid bond 5%.

Planholders: Karl Swain, 375 E. 1st North, Vernal; Jack Allred, Altonah; Turn Construction Co., Box 115, Heber; Neb B. Mitchell, Altamont; Hansen Construction Co., Altamont. GH 9-11

■ **COURTHOUSE ANNEX— Farmington, Utah**

Planholders announced for the general contract for construction of an addition to the existing courthouse in Farmington. Bids will be opened 2 p.m., September 17, by Davis County Commissioners, Courthouse, Farmington. Plans with Theo R. Pope, architect, 366 S. 6th East, Salt Lake City.

Planholders: Hogan & Tingey, Box 314, Centerville; Maurice B. McCullough, 503 13th Ave., Salt Lake City; R. K. McCullough, 676 "G" St., Salt Lake City; Hilton & Carr Construction Co., 922 12th St., Ogden. GH 9-8. Previous report 8-31

SHOPPING CENTER ADDITION— Granger, Utah

Plans announced by J. A. Albertson, president, Albertson's Food Centers, for construction of an additional 25,000 sq. ft. shopping space accommodating five new stores at the shopping center, 2700 West and 3500 South, Granger. More than eight acres parking space will serve the area. Stores to be added are Merc Department Store, Granger Drug, Gallen Kamp Shoes, Conford Cleaners and Beyer Music Co. SC9-11

▲ **ANIMAL DISEASE CENTER—Logan, Utah**

Bids received by Utah State Building Board, J. G. King, superintendent of construction, 442 State Capitol Bldg., Salt Lake City, for repairing and remodeling the Animal Disease Center at Utah State Agricultural College in Logan. Plans by Karl C. Schaub & Son, architects, 75 N. Main, Logan. Bids opened September 5. LOW BID: David L. Phillips, Smithfield, $13,300. ONLY OTHER BID: Ace S. Raymond, 1032 N. Main St., Logan, $13,950. GH 9-8. Previous report 8-30

● **SWIMMING POOL ACCOMMODATIONS— Moab, Utah**

Bids will be opened 2 p.m., September 17, by the architects, for construction of a dressing room area, decks, filtration room and fencing for the new swimming pool in Moab, for Grand County Commissioners, Courthouse, Moab. Plans with Fetzer & Fetzer, architects, 415 Zions Savings Bank Bldg., Salt Lake City. $25 deposit. GH 9-11. Previous report 8-14

▲ **MAINTENANCE BUILDING—Ogden, Utah**

Bids received by Utah State Building Board, Jerry G. King, superintendent of construction, 442 State Capitol Bldg., Salt Lake City, for construction of a maintenance stores and receiving building at Weber College in Ogden. Plans by Eber F. Piers and John L. Piers, architects and engineers, 2726 Harrison Blvd., Ogden. Bids opened September 5. LOW BIDS: Larsen Construction & Engineering Co., 2867 Lincoln, Ogden, $80,900; V. Jay Wadman, 820 Wall Ave., $81,200; Dean R. Mayberry, 3574 Eccles Ave., Ogden, $81,200. GH 9-8. Previous report 8-30

MAUSOLEUM— Ogden, Utah
(Estimated cost $30,000)

Construction underway by Western Art Stone Works, Costa Mesa, Calif., for a mausoleum in southeast corner of Washington Heights Memorial Park, 4800 Washington Blvd., Ogden. Plans by Vincent Palmer, architect, Los Angeles, Calif. Completion expected in three months. Building will consist of concrete, steel, aluminum, glass and marble. Entrance to be structural glass door, stained glass windows in rear; stained glass skylight. Religious mural carved of stone will be located over front entrance and will be treated with acid stained concrete coloring. SC 9-11

COUNTRY CLUB— Salt Lake City, Utah
(Estimated cost $210,000)

Construction underway by Joe H. Lamb, Patio Pool & Fence Co., 3940 Highland Drive, Salt Lake City, for a $40,000 swimming pool, hub of the new Cottonwood Club located ½ mile west of Highland Drive at 5450 South, Salt Lake City. Pool to be 60'x30'; heating and filtering units; bathhouse; locker rooms; diving boards; shallow section for children.

General construction of the club, including bridle paths, tennis courts, stables, fishing pond, playground, baseball diamond, ice-skating rink, clubhouse and caretaker's cottage, will be underway soon by Cannon Construction Co., 959 S. 7th West, Salt Lake City. Plans by Stephen L. MacDonald, architect, 3940 Highland Drive, Salt Lake City. SC 9-8

● **HOSPITAL ADDITION— Salt Lake City, Utah**

Bids will be taken on a cost plus basis by Church of Jesus Christ of Latter Day Saints, Hospital Administrator, 8th Ave. and "C" St., Salt Lake City, for construction of a six-story addition to the hospital. Plans by Young & Hansen, architects, 66 Canyon Road, Salt Lake City. GH 9-8

JUNIOR HIGH SCHOOL— Salt Lake City, Utah
(Estimated cost $1,600,000)

Plans will be complete February 15, 1957, for construction of a new junior high school on Goodwin Ave. at Colorado St. in Salt Lake City, for Salt Lake City Board of Education, Dr. M. Lynn Bennion, superintendent, 440 E. 1st South, Salt Lake City. Plans by William F. Thomas, architect, 19 W.S. Temple, Salt Lake City.

One-story; no basement; 500'x300', 106,000 sq. ft.; concrete footings and foundation; solid masonry walls; concrete slab floors; steel girders, beams, columns; steel truss roof; frame partitions; steel windows; masonry and wood studding interior and exterior wall finish; maple, asphalt tile, rubber tile and ceramic tile flooring; acoustical ceilings; metal exterior, wood interior doors; wood cabinets; blackboards; rigid insulation in roof; steam heating system, gas fuel; ventilating system. GH 9-11

KUTV STUDIO ADDITION— Salt Lake City, Utah

Preliminary plans underway for construction of two new studios to the north of the KUTV studio at Social Hall Ave. in Salt Lake City. Plans by Deseret Architects & Engineers, Ness Bldg., Salt Lake City. Bids will be called by Zion's Securities Corp., Pierce Brady, manager, Union Pacific Annex Bldg., Salt Lake City. GH 9-11

HIGH SCHOOL REMODELING, ADDITION— Salt Lake City, Utah

Preliminary drawings underway by Paul K. Evans, architects, 237 E. 3rd South, Salt Lake City, for remodeling and constructing an addition to Salina High School in Salt Lake City, for Sevier School District, Karl Cameron, superintendent, Richfield. GH 9-11

●■ **SHOP HANGAR—Salt Lake City, Utah**

Bids will be opened 2 p.m., September 18, by Department of the Army and Air Force, National Guard Bureau, U.S. Property & Fiscal Officer, Fort Douglas, for construction of a new hangar at the Salt Lake Municipal Airport for the Utah National Guard; NG-42-056-57-2. Specifications with Ashley T. Carpenter, architect, 203 Crandall Bldg., Salt Lake City. $25 deposit. Bid bond 5%.

Planholders: Layton Construction Co., 1991 Siggard Drive; Lawrence Construction Co., 123 Jeremy St.; Security Construction Co., 5875 Holladay Blvd.; Rocky Mountain Contractors, 522 N. 5th West; Hogan & Tingey, 540 E. 3600 South, Centerville; Dale Benz, Inc., 1912 W. Grant St., Phoenix; Paulsen Construction Co., 1425 Jefferson St.; Alder-Child Construction Co., 2452 Emerson Ave.; Chytraus Bros. Co., 2040 Redondo Ave.; Maurice B. McCullough, 503 13th Ave.; Atlas Construction Co., 1841 E. 9th South; Mountain States Construction Co., 36 E. 4th South; Mark C. Nicholson, 1561 Westminster Ave.; Cannon Construction Co., 959 S. 7th West; Okland Construction Co., 2261 Oneida Ave.; Weyher Construction Co., 580 S. 4th West; Jacobsen Construction Co., 421 W. 13th South. All of Salt Lake City unless noted. GH 9-11

If the job calls for WALL HYDRANTS specify GREENBERG!



BRONZE PRODUCTS by GREENBERG

M. GREENBERG'S SONS
765 FOLSOM ST. • EXbrook 2-3143
SAN FRANCISCO 7, CALIFORNIA
Offices in Principal Cities throughout the United States



Flush type wall hydrant with locking type hinge (will rough into 6" wall).
Nipple and adapter allow placing inlet at either side or back.

▲ELEMENTARY SCHOOL— Washington Terrace, Utah

Bids received by Weber County School District, A. Parley Bates, superintendent, 1124 Washington Blvd., Ogden, for construction of an elementary school south of Washington Terrace. Plans by Hodgson & McDermott, architects, 427 Kiesel Bldg., Ogden. Bids opened August 30. LOW BID: Mac Construction Co., 1474 S. 6th West, Salt Lake City, $247,800. SC 9-7. Previous reporta 8-22

ALASKA

●ELEMENTARY SCHOOL— Fairbanks, Alaska

Bids will be opened 8 p.m., September 18, in library of Main School, by Fairbanks School District, Fairbanks, for construction of an eight-classroom elementary school, including administrative offices and boiler room, at Fairbanks. Plans with Alaska Architectural & Engineering Co., Box 509, Fairbanks.

Reinforced concrete foundation; reinforced concrete masonry and cedar siding exterior; wood frame exterior and interior walls; dry wall interior construction; concrete slab on grade; asbestos plastic floor tile; acoustical tile; combined radiant heat and air conditioning system; fluorescent lighting. SP 9-11

●SCHOOL, LIVING QUARTERS— Tok, Alaska

Bids will be opened 11 a.m., September 22, by Territorial Commissioner of Education, in the office of the architects and engineers, for construction of a three-classroom building with living quarters at Tok. Plans with Alaska Architectural & Engineering Co., Box 509, Fairbanks.

One-story; 7,340 sq. ft.; reinforced concrete footings and foundation; concrete slab on grade; concrete boiler room; wood frame exterior walls; glued laminated beams; wood roof deck; frame partitions; cedar exterior wall finish; acoustical tile; dry wall interior construction; hot water boiler heating system; air conditioning; water well; diesel generating system. SP 9-11

ENGINEERING NEWS

Washington, Oregon, Idaho, Montana, Wyoming, Utah, Alaska

- ● Bids Called
- ★ Contract Awards
- ▲ Low Bids—Bid Received
- ■ Planholders—Prospective Bidders

OREGON

SEWAGE SYSTEM IMPROVEMENTS— Beaverton, Ore.

The Sunset Valley Sanitary District, L. D. Barre, president, 85 S.W. 138th Ave., Beaverton, has acquired the facilities of the Marlene Village Sanitary Co. from Harry Mittleman, and plans to construct a new disposal plant to serve population of 3,000. Bond election is planned. Carl E. Green & Associates, consulting engineers, have been retained by the district. District is located about three mi. northwest of Beaverton, bounded on the north by Cornell Road. WB 9-8

★RESERVOIR ROOF— Beaverton, Ore.

Award by city recorder, Alice B. Martin, City Hall, Beaverton, for construction of a reservoir roof. Plans by Hege and Huston, engineering consultants, 10154 S.W. Park Way, Beaverton. AWARD: Doerrie Construction Co., 301 N.W. Murray Road, $9,526. OTHER BIDS: Harry G. Johnson, 7117 S.E. Main St., $9,738; L. B. Read and Mac Sharp, 2607 S.W. Sunset Blvd., $9,999; United Builders, 400 N.W. Beaverdam Road, Beaverton, $10,302; Lorentz Bruun Co., 3636 S.E. 20th Ave., $10,994. Of Portland except as noted. Bids opened September 10. WB 9-12. Previous report 9-5

●LEVEE SYSTEM IMPROVEMENT— Coos Bay, Ore.

Bids will be opened 2 p.m., September 18, by Corp of Engineers, Portland District, 628 Pittock Block, Portland, for raising and strengthening existing levee; placing dumped stone revetment; removing and replacing designated drainage structures; and modifying existing Ross Sough tide box, all in Catching Slough, three miles southeast of Coos Bay, Coos County, Ore.; CIVENG-35-026-57-57. Specifications with above office. Bid bond 20%. Completion time June 14, 1957.

Quantities: 76,800 c.y. levee embankment; 3,100 cy.y filter material; 6,200 c.y. dumped stone revetment; 970 c.y. structural excavation; 310 c.y. backfill; 3,060' piling; 50' corrugated metal pipe. SP 9-8

■RESERVOIR, PUMPING STATION, ACCESS ROAD— Coquille, Ore.

Planholders announced on construction of a 1,000,000-gallon reservoir (Sched. R), pumping station (Sched. P), and access road (Sched. A) in Coquille. Bids to be opened 7:30 p. m., September 17, by H. N. Crim, city recorder, City Hall, Coquille. Plans with Cornell, Howland, Hayes & Merryfield, consulting engineers, 1600 Western Ave., Corvallis. $25 deposit.

Planholders: John Steinmuller, 907 W. 3rd, Eugene; A. T. Fox Construction Co., Box 831, North Bend; Funston Construction Co., 3726 S.E. Hawthorne Blvd., Portland; John Kovtynovich, 395 Skyline Loop, Eugene. DC 9-11. Previous report 8-24

■DAM PROJECT— Dalles Dam, Ore.

Planholders announced for construction of miscellaneous drainage facilities and revetments, construction of levee, storage yard, excavation and embankment slopes and fencing, salvaging existing guard rail and removal of existing concrete structures at Dalles Dam project area, Wasco and Sherman Counties, Ore.; CIVENG-35-026-57-50. Bids to be opened 2 p.m., September 20, by Corps of Engineers, Portland District, 628 Pittock Block, Portland.

Planholders: C. T. Malcom, 2336 N.E. 30th Ave.; San Jose Steel Co., Inc., 723 N. Tillamook St.; Erland & Blickle, 8265 N. Borthwick; H. C. Grendahl, Box 246, Parkwater Station, Spokane; Erwen Construction, 831 S. 4th Ave., Pasco; C. J. Eldon, P. O. Box 5686; Standard Construction Co., Inc., 5415 N.E. Columbia Blvd.; Ben H. Bahem, 908½ E. 2nd, The Dalles; Buchanan Excavating, P. O. Box 187, Junction City; Brennan Construction Co., Inc., P. O. Box 507, Pocatello; R. E. Steelman, 10301 E. 4th, Spokane; C. R. O'Neil, 2525 Highway 99 South, Grants Pass; J. N. Conley, 4332 N.E. Royal Court; J. Bacaloff Co., 6009 N.E. 60th; Vernie Jarl, Gresham; Babler Bros., Inc., 4617 S.E. Milwaukie Ave.; Bingen Sand & Gravel, Box 3, Bingen; Lewis Hopkins Co., 221 S. 3rd St., Pasco; Butler Construction Co., 3401 S.W. Macadam; Barger Construction Co., Gresham; Miller & Strong, Inc., Box 366, Eugene; Construction Engineering, Inc., 312 Construction Center, Phoenix, Ariz.; Jim Kelly Construction Co., W. Columbia River Highway, The Dalles; R. A. Heintz Construction Co., 211 N.E. Columbia Blvd.; G. D. Dennis & Sons, 7355 S.E. Johnson Creek Blvd. Of Portland except as noted. WB 9-8. Previous report 9-1

▲BRIDGE REMOVAL, SALVAGE— Dalles Dam, Ore.

Bids opened by Corps of Engineers, Portland District, 628 Pittock Block, Portland, for removal and salvage of existing abandoned railroad and highway bridges spanning Deschutes River and abandoned railroad bridges spanning Fulton Canyon Creek, near Rufus, all situated on the Dalles Dam Project in Wasco and Sherman Counties, Ore.; CIVENG-35-026-57-33. BIDDERS: West Coast Steel Works, 5609 N.E. 77th Ave., Portland, $113,405; Misco, Inc., 1123 W. Hanford St., Seattle, $114,230; Dos L. Cooney, Inc., 300 Spokane St., Seattle, $130,356; Arthur Fralick, 3008 E. 57th Ave., Seattle, $141,937; Steel Construction Co. of Oregon, 5300 N.W. Front Ave., Portland, $149,600; LeBoef & Dougherty, Inc., Richland, $161,100; Goodat Crane Service, 1735 S.E. Union Ave., Portland, $167,000; Lewis Elterich Co., P.O. Box 868, Port Angeles, $186,626; Montag, Halvorson & Austin, 7805 N.E. Halsey St., $188,815. Estimated cost, $153,700. Bids opened September 7. WB 9-11. Previous report 8-31

HYDROELECTRIC PROJECT— John Day Damsite, Ore.

Preliminary permit for the proposed John Day hyroelectric project on the Columbia River has been requested of the Federal Power Commission by PUD No. 1, Klickitat County, Wash., at Goldendale. The project is located in Klickitat County, Wash., and Gilliam and Sherman counties in Oregon. Plans call for concrete gravity dam which would create a reservoir extending 75 miles upstream to McNary Dam. DC 9-8

★FOUNDATION DRILLING— John Day Dam, Ore.

Award announced by Corps of Engineers, Walla Walla District, 602 City-County Airport, Walla Walla, for foundation drilling at John Day Dam, Ore.; CIVENG-45-164-56-72. AWARD: Intrusion-Prepakt, Union Commerce Bldg., Cleveland, Ohio, $169,158. Bids were opened June 19 and held under advisement. GW 9-11. Previous report 6-13

▲RECREATIONAL AREA IMPROVEMENTS— Lookout Point Reservoir, Ore.

Bids opened by Corps of Engineers, Portland District, 628 Pittock Block, Portland, for construction of an access road road, parking area, boat launching ramp, guard rail and latrines in the Hampton recreational area, Lookout Point Reservoir, Middle Fork Willmette River, Willamette Basin Project, Ore.; CIVENG-35-026-57-47. BIDDERS: C. Vern White, Box 153, Lowell, $13,795; Eugene Gardens, 1515 Sylvan Drive, Eugene, $18,375. Engineer's estimate, $20,660. Bids opened September 4. WB 9-7. Previous report 8-31

●WELLS— Lookout Point Dam, Ore.

Bids will be opened 2 p. m., September 18, by Corps of Engineers, Portland District, 628 Pittock Block, Portland, for drilling, casing and developing six wells at Minnow Station on the Southern Pacific railroad about 3 mi. upstream from Lookout Point Dam, Middle Fork Willamette River, Lane County, Ore.; CIVENG-35-026-57-59. Specifications with above office. Completion time October 25.

Quantities: 780' drilling of 12" diameter wells; 660' of 12" standard well casing; 120' of 12" slotted well casing. SP 9-11

★BANK PROTECTION— Medford, Ore.

Award to F. L. Somers, P. O. Box 668, Medford, $19,253, by Corps of Engineers, Portland District, 628 Pittock Block, Portland, for construction of bank protection works along the left bank of Bear Creek at Medford, Jackson County, Ore.; CIVENG-35-026-57-46. WB 9-7. Previous report 8-30

★TUNNEL— Medford, Ore.

Award to Lord Bros. Contractors, Box 5626, Portland, $426,302, by Bureau of Reclamation, Box 629, Medford, for construction of Dead-

wood Tunnel, near Medford, Rogue River Basin Project, Ore.; Inv. No. DC-4702.
SP 9-8. Previous report 7-5

▲DITCH, HEADWALLS, TRASH RACK— Mills City, Ore.

Bids opened by Corps of Engineers, Portland District, 628 Pittock Block, Portland, for construction of a roadside drainage ditch, concrete headwalls for culverts, and a trash rack at Detroit Dam, North Santiam River, upstream from Mills City, Willamette River Basin, Ore.; CIVENG-35-026-57-30. BIDDERS: Norquist Bros. Co., Sweet Home, $13,285; Wayne Construction Co., 3810 Stone Way, Seattle, $13,680. Government estimate, $11,800. Bids opened September 5.
WB 9-7. Previous report 8-23

▲SEWAGE PUMPING STATION— Newberg, Ore.

Bids opened by city recorder, Thomas Beaty, City Hall, Newberg, for construction of a sewage pumping station. Plans by Carl Green & Associates, 510 Henry Bldg., Portland. BIDDERS: L. B. Read and Mac Sharp, 2607 S.W. Sunset Blvd., $11,780; P. S. Lord Mechanical Contractors, 4507 S.E. Milwaukie Ave., $11,993; Zuber Bros., 3600 S.E. 28th Ave., $14,064. Of Portland. Bids opened September 4. WB 9-7. Previous report 8-21

●GRADING, PAVING— Oswego, Ore.

Bids to be received until 12 noon, September 18, and opened at 8 p.m., by city recorder, Mary Beerman, City Hall, Oswego, for grading and paving of north one-half of Second St. between "A" and "B" Avenues. Plans with recorder. WB 9-12

▲STREET IMPROVEMENTS—Portland, Ore.

Bids opened by city auditor, Will Gibson, City Hall, Portland, for street improvements. BIDDERS—Alley in Block 18, Kinzel Park: Richard M. Palmer, 6031 S.E. Brooklyn St., $2,626. S.E. Hawthorne Blvd.: Logan, Taylor & Co., 7800 N.E. Killingsworth St., $6,282; Portland Road & Driveway Co., 1295 S.E. King Rd., $6,760; Oregon Asphaltic Paving Co., 0441 S.W. Porter St., $6,831. S.W. Washougal Ave.: Portland Road & Driveway Co., $6,371. Bids opened September 5.
WB 9-7. Previous report 8-31

●DUMP TRUCKS— Portland, Ore.

Bids to be opened 10:30 a.m., September 18, by Board of Multnomah County Commissioners, John W. West, purchasing agent, 504 County Courthouse, Portland, for furnishing eight heavy duty dump trucks. Specifications with purchasing agent. Certified check or bid bond 10%. WB 9-7

★JETTY REPAIR— Portland, Ore.

Award to Miller & Strong, Inc., Box 366, Eugene, $90,410, by Corps of Engineers, Portland District, 628 Pittock Block, Portland, for repair of north jetty at entrance to Coquille River, Ore.; CIVENG-35-026-57-26. WB 9-7. Previous report 8-28

★STATE HIGHWAY PROJECT— Portland, Ore.

Award announced by Oregon State Highway Commission, Salem, for highway construction project on which bids opened August 16 in Portland. FINN ROCK-ELK CREEK SECTION—Construction of 0.77 mile grading and paving and construction of one reinforced concrete bridge on McKenzie Highway in Lane County; a State Project. AWARD: A. H. Saxton & Son, 11531 S.E. Powell Court, Portland, $161,858.
SP 9-7. Previous report 8-18

★SEWER RODDER— Portland, Ore.

Award to Waterworks Supplies Co., 4455 S.E. 24th Ave., Portland, $3,835, by city purchasing agent, 208 City Hall, Portland, for one sewer rodder.
WB 9-8. Previous report 9-1

★STEEL GANGPLANK— Portland, Ore.

Award to Screw Machine Products, 7737 N.E. Killingsworth St., Portland, $1,465, by Port of Portland, 5848 N. Lagoon Ave., Portland, for 54' steel gangplank.
WB 9-8. Previous report 9-5

★CENTRIFUGAL PUMP— Portland, Ore.

Award to R. M. Wade & Co., 1919 N.W. Thurman St., Portland, $1,228, by city purchasing agent, 208 City Hall, Portland, for furnishing centrifugal pump.
WB 9-8. Previous report 8-14

★CRANE CONVERSION— Portland, Ore.

Award to Clyde Equipment Co., 1631 N.W. Thurman St., Portland, $1,549, by city purchasing agent, 208 City Hall, Portland, for conversion of one hydrocrane to self-powered. WB 9-8. Previous report 8-21

▲STEEL GRAIN TANK— Portland, Ore.

Bids opened by Commission of Public Docks, Thomas P. Guerin, general manager, 3070 N.W. Front Ave., Portland, for steel grain tank at Terminal No. 4, Portland. ONLY BID: American Pipe & Construction Co., 518 N.E. Columbia Blvd., Portland, $17,-908. Bids opened September 7.
WB 9-11. Previous report 8-28

★ELECTRICAL WORK— Portland, Ore.

Award to Owen & McIntyre Construction Co., Oregon Shipyards, Portland, $6,875, by Commission of Public Docks, 3070 N.W. Front Ave., Portland, for electrical work in connection with installation of a new airveyor at Terminal No. 4.
WB 9-11. Previous report 9-5

●CRAWLER TRACTOR— Portland, Ore.

Bids to be opened 2 p.m., September 19, by city purchasing agent, 208 City Hall, Portland, for furnishing one diesel crawler tractor with attachments, fob. Bull Run Dam, Bull Run, Ore., 35 mi. east of Portland.
WB 9-11





● **COMPRESSOR UNITS—** **Portland, Ore.**

Bids to be opened 2 p. m., September 19, by city purchasing agent, 208 City Hall, Portland, for furnishing one two-wheel and one four-wheel compressor units, trailer mounted with motors, fob. 1900 N. Interstate Ave. WB 9-11

● **SPRAY UNIT—** **Portland, Ore.**

Bids to be opened 2 p. m., September 19, by city purchasing agent, 208 City Hall, Portland, for one high pressure jet spray unit. WB 9-11

■ **GRADING, FLOOD REPAIR—** **Portland, Ore.**

Planholders announced for grading 7.877 mile Galice Creek Road and 9.756 mile floor repair on same road, Bureau of Land Management-Medford District, Josephine County, Ore.; Timber Access Road Project BLM 83-A1, B. Bids to be opened 10 a. m., September 20, by Bureau of Public Roads, 753 Morgan Bldg., Box 3900, Portland.

Planholders: Peter Kiewit Sons' Co., Box 1777, Vancouver, and room 211, 208 W. Main St., Medford; Natt McDougall, 824 Pittock Block, Portland; Fred Slate, 7805 S.W. 40th Ave., Portland; E. C. Hall, 12012 S.W. Barbur Blvd., Portland; Oakridge Excavators, Oakridge; Morrison - Knudsen Co., 603 Hoge Bldg., Seattle; C. R. Oneil, 2525 Highway 99 South, Grants Pass; Durbin Bros., Route 5, Box 490, Eugene.

WB 9-12. Previous report 9-5

● **STATE HIGHWAY PROJECTS—** **Portland, Ore.**

Bids to be opened 9 a. m., September 27, by Oregon State Highway Commission in the Queens Room of the Imperial Hotel in Portland. Plans with W. C. Williams, state highway engineer, State Highway Bldg., Salem. $2 charge.

NORTH FORK SCAPPOOSE CREEK BRIDGE—Construct 100' reinforced concrete deck girder bridge over North Fork of Scappoose Creek on Pittsburg - Scappoose Highway, 1.3 mile north of Scappoose, Columbia County; FAP No. S-77(6).

Quantities: 200 c.y. structure excavation; 174 c.y. class A concrete; 44,000 lb. metal reinforcement; 72' of 8" metal drain pipe.

EAST UNIT, FORT ROCK ROAD-BROTHERS SECTION—Grading, asphaltic concrete paving on 11.97 mile Central Oregon Highway about 28 mile southeast of Bend, Deschutes County; FAP No. F-147(12).

Quantities: 49,400 c.y. borrow excavation; 900' guardrail; 26,300 c.y. crushed base materials; 30,600 ton asphaltic concrete mixture; 1,840 ton 85-100 asphalt; 154 ton RS-1 asphalt; 140 ton RS-2 asphalt; 106 ton 150-200 asphalt.

FORDS BRIDGE UNIT, MYRTLE CREEK-CANYONVILLE SECTION—Asphaltic concrete paving 1.23 mile of Pacific Highway about six mile south of Myrtle Creek, Douglas County; Federal Interstate Project No. I-78(33).

Quantities: 372 c.y. concrete in islands, curbs; 8,700' guardrail; 3,200' median barrier; 29,000 c.y. crushed base materials; 80 ton RC-3 asphalt; 14,000 ton asphaltic concrete mixture; 840 ton 85-100 asphalt; 32 ton RS-1 asphalt; 60 ton RS-2 asphalt; 40 ton 150-200 asphalt.

FORDS BRIDGE-CANYONVILLE UNIT, MYRTLE CREEK-CANYONVILLE SECTION Grading, asphaltic concrete paving 1.78 mile on Pacific Highway north from Canyonville, Douglas County; Federal Interstate Project No. I-78(32).

Quantities: 470,000 c.y. excavation; 1,125 c.y. concrete in box culverts, curbs, islands; 80,000 lb. metal reinforcing; 10,500' guardrail; 61,000 c.y. crushed base materials; 140 ton RC-3 asphalt; 17,100 ton asphaltic concrete mixture; 1,000 ton 85-100 asphalt.

WEAVER ROAD STRUCTURES—Construct 228' reinforced concrete deck girder grade separation structure over relocated Pacific Highway and 130' reinforced concrete deck girder separation structure over the S. P. Railroad tracks, on the relocated section of Weaver Road near Myrtle Creek, Douglas County; Federal Interstate Project No. I-78(31).

Quantities: 80 c.y. structure excavation; 3,920' treated timber piling; furnish 1,000' steel pile shells; drive 180' of 8" metal drain pipe.

JOHN DAY ROCK PRODUCTION PROJECT—About 7,000 c.y. crushed material in stockpiles on John Day and John Day-Burns Highways near John Day, Grant County; a State Project.

VIENTO STATE PARK LATRINES—Construct two small latrines including septic tanks, sewer lines, disposal fields at Viento State Park, 7.5 mile west of Hood River, Hood River County; a State Project.

SALEM STORAGE BUILDING—Construct a 36'x288' reinforced concrete storage building on State Highway Commission property at Salem, Marion County; a State Project.

ILLUMINATION INSTALLATION—About 115 steel street light poles; 121 mercury-vapor luminaires; 20,000' burial cable; 121 mast arms at N.E. 42nd Avenue-Troutdale section of T. H. Banfield Expressway in Portland, Multnomah County; a State Project.

EMIGRANT HILL - DEADMANS PASS SECTION—Grading 3.06 mile Old Oregon Trail Highway about 15 mile southeast of Pendleton, Umatilla County; Federal Interstate Project No. I-62(10).

Quantities: 1,290,000 c.y. excavation; 340 c.y. concrete in box culverts; 68,000 lb. metal reinforcement; 2,300 rod type 1 fence.

UMATILLA RIVER BRIDGE—Construct 310' reinforced concrete bridge over Umatilla River on Hinkle-Bucks Corner section of Hermiston Secondary Highway, Umatilla County; FAP No. S-86(2).

Quantities: 470 c.y. structure excavation; 3,300' untreated timber piling; 630' treated timber piling; 757 c.y. class A concrete; 172,000 lb. metal reinforcement; 30' of 8" metal drain pipe.

PARISH CREEK UNIT, SPRAY-WATERMAN SECTION—Grading 3.12 mile Spray-Waterman County Road about five mile south of Spray, Wheeler County; FAP No. S-175(2). Involves 73,000 c.y. excavation.

WHITESON SECTION—Grading, asphaltic concrete paving 0.50 mile and construct 275' concrete and timber bridge on Pacific Highway West about four mile south of McMinnville, Yamhill County; FAP No. F-58(2).

Qauntities: 24,000 c.y. excavation; 11,200 c.y. crushed base materials; 12 ton RC-3 asphalt; 1,800 ton asphaltic concrete pavement; 16 ton RS-2 asphalt; 16 ton 150-200 asphalt; 4,200' treated timber piling; 380 c.y. concrete; 120,000 lb. metal reinforcing. DM 9-12

● **RUBBER BELTING—** **Portland, Ore.**

Bids to be opened 10 a. m., September 21, by Commission of Public Docks, A. W. Binns, comptroller, 3070 N.W. Front Ave., Portland, for 790' of rubber belting of various weights and widths. Specifications with purchasing agent. WB 9-12

● **STATE HIGHWAY PROJECTS—** **Portland, Ore.**

Bids to be opened 9 a.m., September 28 by Oregon State Highway Commission in the Queens Room of the Imperial Hotel in Portland on highway construction. Plans with W. C. Williams, highway engineer, State Highway Bldg., Salem. $2 charge.

ZIGZAG RIVER BRIDGE—Construct 180' reinforced concrete bridge on Clackamas County Road No. 820 about two miles from Rhododendron, Clackamas County; a County Project.

Quantities: 55 c.y. structure excavation; 350 c.y.; class A concrete; 100,000 lb. metal reinforcement.

MISSOURI BOTTOM - CANYONVILLE STRUCTURES—Construct twin 144' reinforced concrete overcrossing on Irwin Road; a 234' reinforced concrete undercrossing on Chadwick Lane; a 241' reinforced concrete undercrossing on Riddle Road; twin 588' reinforced concrete and steel bridges over South Umpqua River at Missouri Bottom on Myrtle Creek-Canyonville section of the relocated Pacific Highway, Douglas County; Federal Interstate Project No. I(31) and I(32).

Quantities: 1,600 c.y. structure excavation; 1,470' steel pipe shell; 3,447 c.y. class A concrete; 762,000 lb. metal reinforcement; 967,000 lb. structural steel; 360' of 8" metal drain pipe.

TILLER MAINTENANCE BUILDING — Construct a 32'x82' masonry block building on highway commission property at Tiller, Douglas County; a State Project.

BYBEE BRIDGE (ROGUE RIVER) SECTION—Embankment repair on 0.19 mile Table Rock Road about six miles northwest of Central Point, Jackson County; FAP No. ER-32(1), involving 1,080 c.y. rock riprap on roadbed slopes.

EAST AND WEST FORKS ILLINOIS RIVER BRIDGE SECTIONS—Grading and asphaltic concrete paving on 2.26 mile of Redwood Highway south from Cave Junction, Josephine County; FAP No. F-127(6).

Quantities: 210,000 c.y. excavation; 46 c.y. concrete in box culverts; 5,400 lb. metal reinforcement; 1,900' guardrail; 670 c.y. sacked aggregate cement riprap; 27,500 c.y. crushed base materials; 66 ton RC-3 asphalt; 8,200 ton asphaltic concrete mixture; 490 ton 85-100 asphalt; 30 ton RS-1 asphalt; 30 ton RS-2 asphalt; 60 ton 150-200 asphalt.

ILLAHEE-NORTH JEFFERSON JUNCTION SECTION—Grading, asphaltic concrete paving 2.33 mile on Pacific Highway East about five miles south of Salem, Marion County; Federal Interstate Project No. I-176(12).

Quantities: 237,000 c.y. excavation; 1,100 c.y. concrete in curbs, islands, box culverts; 113,400 lb. metal reinforcement; 60,700 c.y. crushed base materials; 130 ton RC-3 asphalt; 20,500 ton asphaltic concrete mixture; 1,230 ton 85-100 asphalt; 80 ton RS-2 asphalt; 300 ton 150-200 asphalt; 126 ton RS-1 asphalt.

37th AVENUE-42nd AVENUE SECTION—Construct 0.36 mile roadway including stone base; a 125' reinforced concrete box girder extension to existing Sandy Blvd. Viaduct; a 450' on-ramp to the Banfield Expressway in Portland, Multnomah County; Federal Interstate Project No. I-323(20).

Quantities: 2,400 c.y. drainage excavation; 72,000 c.y. general excavation; disposal of 66,000 c.y. excess material; 4,700' various sizes sewer pipe; 15,000 c.y. coarse crushed material in base; 350 ton class B asphaltic concrete; 2,000 c.y. structure excavation; 2,500 c.y. class A concrete; 145 c.y. class A-A concrete; 465,000 lb. metal reinforcement; 1,525' metal rail.

YAMHILL RIVER (LAFAYETTE) BRIDGE SECTION—Construct 0.17 mile roadbed including stone base; a 378' reinforced concrete and steel girder bridge across Yamhill River on Lafayette-South Road, Yamhill County; FAP No. S-329(1).

Quantities: 39,700 c.y. special barrow excavation; 450' of 6" perforated metal drain pipe; 500 c.y. loose riprap; 860 c.y. coarse crushed material in base; 450 c.y. structural excavation; 1,134' steel pile sheets; 690 c.y. class A concrete; 150,000 lb. metal reinforcement; 145,000 lb structural steel; 780' metal rail. DM 9-12

● **STORM SEWER—** **Roseburg, Ore.**

Bids will be opened 4 p. m., September 24, by Catherine L. Farrell, city recorder-treasurer, City Hall, Roseburg, for construction of the Douglas Community Hospital storm sewer in Roseburg. Specifications with above office and with city engineer at above address. $10 deposit. Certified check or bid bond 5%. Involves approximately 590' storm sewer and appurtenances. SC 9-12

▲ **FENCE—** **Wamic, Ore.**

Bids received by Oregon State Game Commission, 1634 S.W. Alder St., P.O. Box 4136, Portland, for construction of fence at the White River Big Game Management Area near Wamic. BIDDERS: Cody Logging Co., Wamic, $8,967; Robinson & Robinson, Moses Lake, Wash., $15,940; Pacific Concrete Co., 11840 N.E. Eugene St., Portland, $29,433. Bids opened September 10.

WB 9-12. Previous report 8-22

SEWERS, SEWAGE TREATMENT PLANT— **Weston, Ore.**

(Estimated cost $125,000)

Preliminary plans nearly completed by Walter L. Woodward, consulting engineer, 206 Empire State Bldg., Spokane, for con-

Profitable leads on new building projects and engineering construction in Oregon, Washington, Idaho, Montana, Wyoming, Utah and Alaska appear in these columns.

struction of sewers and a sewage treatment plant on Highway No. 11, Weston. Bids will be called by Kenneth Dauble, city recorder, City Hall, Weston. CE 9-8

WASHINGTON

▲TRANSMISSION LINE—Aberdeen, Wash.

Bid was taken under consideration by Public Utility District No. 1, 217 S. "H" St., Aberdeen, for construction of a 69-kv transmission line between Polson Camp Road and North Humptulips along Quinault Highway, Wash. Bid opened September 4. ONLY BID: Key Construction Co., 1601 Taylor Way, Tacoma, $60,329. SP 9-8. Previous report 8-10

PUD IMPROVEMENTS— Aberdeen, Wash.

Expenditure of $45,000 has been approved by Grays Harbor Commissioners, Public Utility District No. 1, 217 S. "H" St., Aberdeen, for improvements of the system. Improvement authorizations passed by the board include purchase of distribution transformers for $35,000 and of watt-hour meters, reactive meters and transformers for $10,000. SC 9-8

▲SITE WORK— Auburn, Wash.

Bids received by Auburn School District No. 408, King County, Rolland Upton, superintendent, 9420 S. 240th Place, Auburn, for site work at Algona Elementary School in Auburn. Plans by Jones, Lovergren, Helms & Jones, architects, 706 Republic Bldg., Seattle. LOW BIDS: Heisserman Fuel and Heating Co., 20 "B" Southwest, Auburn, $5,442; Russell J. Boe, 9685 Empire Way, Seattle, $9,616; Burien Construction Co., 4126 S.W. 106th, Seattle, $9,850. Bids were opened September 7. GW 9-11. Previous report 9-5

▲BRIDGE— Benton City, Wash.

Bids received by Benton County Commissioners, Courthouse, Prosser, for construction of a cantilever type bridge over the Yakima River, between Kiona and Benton City, Wash.; CRP No. 27B. Plans by Homer Hadley of Hadley & Hadley, consulting engineers, Securities Bldg., Seattle. LOW BIDS: Everett McKeller, Chelan, $186,159; C.B.S. Construction Co., 11115 7th Ave. N.W., Seattle, $191,577; Paul Jarvis, Inc., Box 4001, Interbay Station, Seattle, $203,437. Bids were opened September 6.
GW 9-8. Previous report 8-31

★WATER SYSTEM IMPROVEMENTS— Bremerton, Wash.

Awards by North Perry Avenue Water District, 2921 Perry Ave., Bremerton, for construction of additions and improvements to water distribution system. Plans by Hill & Ingman, consulting engineers, 1728 E. Madison St., Seattle. AWARDS—Contract 1: Frank M. Taylor, 2018 N. 194th, Seattle, $72,894 (water main). Contract 2: Pittsburgh-Des Moines Steel Co., 901 Lane, Seattle, $35,344 (50,000-gallon elevated steel tank). Contract 3: Pittsburgh-Des Moines Steel Co., $30,710 (300,000-gallon ground storage reservoir). Contract 4: Lent's, Inc., 279 4th, Bremerton, $11,500 (booster); $26,382 (well); $37,882 (total).
GW 9-8. Previous report 8-25

▲SANITARY SEWER— Bryn Mawr, Wash.

Bids received by Board of Commissioners, Bryn Mawr-Lake Ridge Sewer District, 11402 Rainier Ave., Seattle, for construction of a sanitary sewer in S. 114th St. Plans by Hammond, Collier & Isaac, consulting engineers, 4010 Stone Way, Seattle. LOW BIDS: Superior Construction Co., 4610 37th Ave. S.W., $13,167; Frank Coluccio Construction Co., 7778 Seward Park Ave., $16,377; Shoreline Construction Co., 12519 15th Ave. N.E., $18,989. All of Seattle. Bids were opened September 5. GW 9-7. Previous report 9-1

▲TRANSMISSION LINE— Burke, Wash.

Bids received by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, Ore., for construction of the Burke-Royal 115-kv transmission line, from a point adjacent to Burke Substation about one mile east of Burke and ending at a point approximately 19 miles southeast of Burke, Grant County, Wash.; Inv. No. 8133. LOW BIDS: North Idaho Construction Co., Coeur d'Alene, Idaho, $87,194; Duke's Electric Co., Inc., Building 35, Pasco Airport, Pasco, $87,267; Power Line Erectors, Inc., 2018 Waterworks, Spokane. Bids opened September 7.
WB 9-11. Previous report 8-31

RECREATIONAL CENTER—Centralia, Wash.
(Estimated cost $120,000)

Plans announced by Mayor Vern Cain, City Hall, Centralia, for construction of a recreational center at Fort Borst Park, adjacent to the new junior high school in Centralia. Project would include a turf football field with lights, grandstand with seating capacity of 2,400, lighted baseball diamond with portable steel bleachers and softball field with bleachers. Fencing would surround the entire area. Parking space for 1,000 cars would be available. Completion expected in 1957. SC 9-7

● SUBSTATION— Chehalis, Wash.

Bids to be opened 2 p.m., October 1, by Lewis County PUD No. 1, in the district office at 918 Pacific Ave., Chehalis, for furnishing an NOE 69 kv unit substation and appurtenances. Specifications with above office. Substation is to be furnished complete with high and low voltage structure and buswork. DC 9-11

SCREENING STRUCTURE— Cook, Wash.

Bids rejected as too high by U.S. Fish and Wildlife Service, Leo L. Laythe, regional director, 1001 N.E. Lloyd Blvd., Portland, for construction of a concrete structure at the Willard Fish Cultural Station, 6 mi. north of Cook, Wash., on old Evergreen Highway. Project will probably be readvertised next spring.
WB 9-12. Previous report 9-1

★WATER WELL— Dalles Dam, Wash.

Award to R. J. Strasser Drilling Co., 8110 S.E. Sunset Lane, Portland, $16,945, by Corps of Engineers, Portland District, 628 Pittock Block, Portland, for drilling, casing, sealing, developing and testing a water well at The Dalles damsite, on the right bank of Columbia River adjacent to the downstream end of The Dalles Dam Powerhouse, Klickitat County, Wash.; CIVENG-35-026-57-45. Figure in previous report was as read at bid opening; checking revealed error.
WB 9-7. Previous report 9-1

★SEWER, CURBS AND SIDEWALKS— Darrington, Wash.

Awards by City Council, Zillah Garton, city clerk, City Hall, Darrington, for construction of storm sewers, concrete curb and sidewalk, in Darrington. AWARDS: Pacific Concrete Products Co., 8107 Highway 99, Everett, $11,773 (storm sewer); Lake City Gravel and Materials Co., 10720 Bothell Way, Seattle, $2,898 (curbs), $4,040 (sidewalks).
GW 9-8. Previous report 8-29

▲SEWER SYSTEM MODIFICATION— Elma, Wash.

Bids received by City Council, Louis Irish, clerk, City Hall, Elma, for the sewage system modifications in the city of Elma. Plans by Howard T. Harstad & Associates, consulting engineers, 1000 Lenora, Seattle. Schedule A: sewage treatment plant improvements, and two lift stations; Schedule B: 8,700', 8" asbestos cement pipe; Schedule C: 10,000', 6" and 8" sewer pipe, necessary appurtenances. LOW BIDS—Sched. A: Ace Construction Co., 7516 Roosevelt Way, Seatle, $35,743. ONLY OTHER BID: United Construction Co., Route 8, Box 469, Olympia, $40,766. Sched. B: United Construction Co., $30,240; Tom Tonneson, 7012 Pacific Ave., Tacoma, $33,031. Jack Roberson, 865 "C" N.W., Ephrata, $33,518. Sched. C: United Construction Co., $38,609; Jack Roberson, $44,391; Tom Tonneson, $46,860. Bids were opened September 10.
GW 9-12. Previous report 9-1

▲EARTHWORK, STRUCTURES— Ephrata, Wash.

Bids received by Bureau of Reclamation, P. R. Nalder, project manager, Box 368, Ephrata, for earthwork, concrete lining and structures, Block 3, Burbank Canal Laterals, southeast of Pasco, near Burbank, Walla Walla County, Wash.; DC-4736. BIDS: Lewis Hopkins Co., 221 S. 3rd, Pasco, $302,708; George W. Lewis, 1902 W. 4th, Kennewick, $308,960; Cherf Bros., Inc., and Sandkay Contractors, Inc., Box 938, Ephrata, $318,729. Engineer's estimate, $337,856. Bids were opened September 6.
GW 9-7. Previous report 7-25

★WATER PUMPING WELL—Ephrata, Wash.

Award to Courtney Bach, Coulee City, $4,873, by Bureau of Reclamation, Box 368, Division and "C" St. N.W., Ephrata, for water pumping well M, Soap Lake Protective Works, approximately ½ mile southwest of Soap Lake, Grant County, Wash.; Spec. No. 117C-387. SP 9-11. Previous report 8-18

★CURBS, GUTTERS, PAVING— Everett, Wash.

Award to Associated Sand & Gravel, 3508 Colby, Everett, $15,077, by City Council, City

Classified Advertising

★

CLASSIFIED RATES

Regular Classified: $6 per column inch.

Classified Display: (Based upon number of insertions during any 12 month period.)

	1 time	6 times	12 times
Per Column Inch:	$9.00	$8.00	$7.00

CIVIL ENGINEERS
FORM DESIGNERS
DETAILERS

Are you looking for a permanent position of responsibility and security with a large stabile West Coast General Contractor? Excellent opportunities are available for CIVIL ENGINEERS as well as FORM DESIGNERS and DETAILERS. You may find that we have exactly what you are looking for. Salary will be commensurate with experience in either case. Your reply should cover complete work history and personal particulars.

Box A-10
Pacific Builder & Engineer
2418 3rd Ave., Seattle 1, Wash.

PACIFIC PRINTING CO.
of Seattle, Inc.

Mailing Pieces — Advertising Folders — Sales Manuals — Sales Literature — Broadsides — Business Stationery — Circulars — Programs

MAin 0285
2418 Third Ave. Seattle 1, Wash.

Hall, Everett, for construction of concrete curbs, gutters and sidewalks and asphaltic paving on Rucker Ave. from the south line of Grandview Addition north to Alverson Blvd. in Everett. HH 9-8. Previous report 9-5

▲AIR COMPRESSOR— Everett, Wash.

Bids received by John L. Sugars, city clerk ,City Hall, Everett, for one portable gasoline engine powered two stage rotary air compressor with a delivered air capacity of 125 cu. ft. of 100 lb. P.S.I. Bids opened September 10. LOW BIDS: Pacific Hoist & Derrick Co., 3200 4th S., Seattle, $3,567; Star Machinery Co., 241 Lander, Seattle, $3,709; Andrews Machinery Co., 3633 E. Marginal Way, and A. H. Cox, 1757 1st S., both of Seattle, $3,775 (separate bids).
HH 9-12. Previous report 9-1

★GRADER— Everett, Wash.

Award announced by Snohomish County Commissioners, Courthouse, Everett, for one diesel motor grader for use by Snohomish County Road District No. 3; bid to include offer to accept one Caterpillar Grader as trade-in on new grader. Bids opened September 10. AWARD: Collins Machinery Co., 4233 W. Marginal Way, $14,442. OTHER BIDS: Western Tractor & Equipment Co., 745 Lucile, $13,360; Howard-Cooper Corp., 5055 4th St., $14,133; Caldwell Machinery Co., 7411 Keen Way, $15,053. All of Seattle. Award made on basis of Caterpillar best fitting specifications. HH 9-12. Previous report 8-30

▲WATER SUPPLY—Fairchild AFB, Wash.

Bids received by Corps of Engineers, Seattle District, 4735 E. Marginal Way, Seattle, for F-45 control area water supply line at Fairchild Defense Area, Fairchild AFB, Wash.; ENG-45-108-57-7. LOW BIDS: E. F. Pugsley, 805 E. Northlake, Seattle, $29,595; Valley Construction Co., 7722 Rainier Ave., Seattle, $38,898; Peck & Gale, S. 211 Washington, Spokane, $42,878. Engineer's estimate, $43,293. Bids were opened September 5. GW 9-7. Previous report 8-21

■WATER SUPPLY LINE— Fairchild AFB, Wash.

Planholders announced for construction of F-87 control area water supply at Fairchild AFB, Wash.; ENG-45-108-57-32. Bids will be opened 2 p. m., September 21, by Corps of Engineers, Seattle District, 4735 E. Marginal Way, Seattle. Plans with district engineer, above address. Bid bond 20%.

Planholders: Fairbanks, Morse & Co., 668 Lane; Fischer & Porter Co., 1000 4th Ave. S.; H. D. Fowler Co., Inc., Box 3084; Pacific Waterworks Supply Co., 2900 1st Ave. S.; E. F. Pugsley, 805 E. Northlake; Star Machinery Co., 241 Lander; Valley Construction Co., 7722 Rainier Ave.; Wallace & Tiernan, Inc., 2916 Western Ave., all of Seattle; Arnold & Jeffers, Box 2192; M. F. Castle Co., 10503 N. Division, Route 5; H. C. Grendahl North, 2128 Waterworks St.; Fred O. Koch, W. 1312 Kiernan; Murphy Bros., 3728 E. Broadway; Peck & Gale, S. 211, Washington; Ruud Construction Co., 602 Realty Bldg.; James Smyth Plumbing and Heating Co., N. 216 Division; Spokane Plumbing and Heating Co., N. 613 Monroe; Warren, Little & Lund, W. 120 2nd, all of Spokane; California Filter Co., 156 Spear St., San Francisco, Calif.; Engineering Construction Co., 3536 S.E. 29th, Portland, Ore.; H. Halvorson, Inc., Box 6, Yardley; P .S. Lord Mechanical Contractors, 4507 S.E. Milwaukie Ave., Portland, Ore.; S.E. Pipe Line Construction Co. of Nevada, Box 831, Whittier, Calif.; Standard Construction Co., Inc., 5415 N.E. Columbia Blvd., Portland, Ore.; Tomlinson & Buckmaster, Box 12, Warden; Cascade Engineering Co., Box 231, Richland.
GW 9-8. Previous report 8-30

●CONTROL EQUIPMENT ASSEMBLY— Frenchman Springs, Wash.

Bid opening extended from September 11 to 2 p.m., September 18, by Bureau of Reclamation, Bldg. 53, Denver Federal Center, Denver, Colo., for furnishing one 2,500 - volt, metal - enclosed, indoor - type, motor control equipment assembly and one 600-volt, metal-enclosed, indoor-type, station-service control center assembly for Frenchman Springs Pumping Plant, Columbia Basin Project, Wash.; Inv. No. DS-4742. Specifications with above office.
SP 9-8. Previous report 8-1

■RUNWAY, TAXIWAY EXTENSION— Geiger AFB, Wash.

Planholders announced on reconstruction and extension of runway 3-21 and extension of alert taxiway at Geiger AFB; ENG-45-108-57-34. Bids will be opened on a date to be announced by Corps of Engineers, 4735 E. Marginal Way, Seattle.

Planholders: Green Construction Co., 928 Securities Bldg., Seattle; Grove-Shepherd-Wilson & Kruge, 120 6th Ave. N., Seattle; Morrison-Knudsen Co., Inc., 603 Hoge Bldg., Seattle; Guy F. Atkinson Co., 10 West Orange Ave., S. San Francisco, Calif.; J. Bacaloff Co., 6009 N.E. 60th, Portland, Ore.; Columbia Asphalt Paving Co., 207 Masonic Temple Bldg., Yakima; Curtis Construction Co., Box 106, Spokane; Gibbons & Reed Co., Box 2429 Salt Lake City, Utah; Peter Kiewit Sons' Co., Box 1854, Billings, Mont.; Max J. Kuney Co., N. 120 Ralph, Spokane; Murphy Bros., 3728 E. Broadway, Spokane; Wright Contracting Co., Columbus, Georgia.
GW 9-12. Previous report 9-6

■FISH LADDER— Ice Harbor Lock and Dam

Planholders announced for the construction of a temporary fish ladder at Ice Harbor Lock and Dam, Walla Walla and Franklin Counties, Wash.; CIVENG-45-164-57-11. Bids will be opened 2 p. m., September 26, by Corps of Engineers, Walla Walla District, 602 City-County Airport, Walla Walla. Specifications with district engineer, above address. Bid bond 20..

Planholders: Cherf Bros., Inc., and Sandkay Contractors, Inc., Box 938, Ephrata; Hughes Construction Co., 3023 W. Hood Ave., Kennewick; Lee Hoffman, Box 37, Beaverton, Ore.; Misco, Inc., 1123 W. Hanford St., Seattle; Harold Kaiser Co., 3629 34th Ave. S., Seattle; Union Iron Works, E. 217 Montgomery, Spokane; Construction Engineering, Inc., 312 Construction Center, 4700 N. Central Ave., Phoenix, Arizona; Guy F. Atkinson Co., Box 714, Pasco; Tomlinson & Buckmaster, Box 12, Warden; Paul Jarvis, Inc., Box 129, Prosser; Schrader Construction Co., 3030 S.E. Hawthorne, Portland, Ore.; Lewis Hopkins Co., 221 S. 3rd, Pasco; George Chicha Co., E. 2917 Sharp, Spokane; Puget Sound Fabricators, Inc., 3670 E. Marginal Way, Seattle; Valley Iron Works, 123 S. Front St., Yakima; West Coast Steel Works, 5609 N.E. 77th, Portland, Ore.; Mercer Steel, Inc., 2555 N.W. Nicolai, Portland; Soule Steel Co., Box 9594, Portland, Ore.; Wayne Construction Co., 3810 Stone Way, Seattle.
GW 9-12. Previous report 9-1

▲INSTALL WATER PIPE— Kelso, Wash.

Bids received by city clerk, City Hall, Kelso, for installation of 9,500' of 6", 8" and 10" cast iron water pipe, including fittings and valves. Bids opened September 4. LOW BIDS: Merlin D. Lowe, 1608 Burcham, Kelso, $12,244; Packard Pipe & Pump Co., 554 14th, Longview, $14,680; Phoenix - Matthews, Inc., Portland, Ore., $20,556.
SP 9-7. Previous report 8-25

●SANITARY SEWERS— Kent, Wash.

Bids to be opened 8 p. m., September 17, by City Council, City Hall, for construction of sanitary sewers for the city. Specifications with Charles Bridges, city clerk, City Hall. $5 deposit. Certified check, cashier's check or bid bond 5%.

Quantities: 2,300' of 8" sewer pipe; 1,080' of 6" pipe side sewers; 7 manholes; trenching; appurtenances.
DC 9-7

▲TRANSMISSION LINE— King County, Wash.

Bids received by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for construtcion of the Chief Joseph-Covington 345-kv line No. 1, Sultan-Covington section, Schedule 2, King County, Wash.; Inv. No. 8136. BIDDERS: Key Construction Co., 1601 Taylor Way, Tacoma, $206,567; Pettijohn Engineering Co., 4145 N.E. Cully Blvd., Portland, $262,571; Lee Hoffman, P. O. Box 37, Beaverton, $273,513; W. L. Ridge Construction Co., E. 3122 Sharp Ave., Spokane, $285,089. Bids opened September 7.
WB 9-12. Previous report 8-31

★RESERVOIR, PUMPING STATION— Longview, Wash.

Award by city clerk, D. Wiley Carpenter, City Hall, Longview, for reservoir and water pumping station. Plans by Stevens & Thompson, consulting engineers, 2234 S.W. 5th Ave., P. O. Box 506, Portland. AWARD: Packard Pipe & Pump Co., 554 14th Ave., Longview, (reservoir) $16,500; (station) $5,930 (all or none bid.) OTHER BIDS: Amos J. Peters, 1767 20th Ave., Longview, $14,818, no bid; Westco of Longview, P. O. Box 906, Longview, $15,007, no bid; Richard L. Martin, Box 482, Oswego, $15,999, $8,659; Zuber Bros., 3600 S.E. 28th Ave., Portland, $19,726, $7,913. Bids opened September 6.
WB 9-11. Previous report 8-30

★GRADING, DRAINING, PAVING, SEWERS— Mercer Island, Wash.

Contracts negotiated by Mercer Island School District No. 400, Robert S. Studebaker, superintendent, 4136 86th Ave. S.W., Mercer Island, for grading, draining, paving, sewers and miscellaneous work at school district playfields. AWARDS— Grading, draining: White & Red Construction Co., 330 Sunset Highway, Renton, $982. Paving: American Asphalt Co., 14446 Sunset Highway, Bellevue, $5,318. Sewers: John Patricelli, 1534 32nd Ave. S., Seattle, $11,540.
GW 9-8. Previous report 8-18

★SEWER UNDERCROSSING, PUMP STATION— Mercer Island, Wash.

Awards by Mercer Island Sewer District, Nils Fauchild, secretary, Mercer Island, for construction of Mercer Island - Bellevue trunk sewer, east channel underwater crossing, and pump station. Plans by Carey & Kramer, consulting engineers, 1917 1st Ave., Seattle. Schedule A: calls for land sewer lines, pump station. Schedule B: East channel underwater crossing. AWARD — Sched. A: Murphy Bros., E. 3728 Broadway Ave., Spokane, $133,736. OTHER LOW BIDS: Frank Coluccio Construction Co., 7778 Seward Ave., Seattle, $137,584; Valley Construction Co., 7722 Rainier Ave., Seattle, $149,606. AWARD—Sched. B: McCrae Marine Construction Co., 2370 Fairview Ave. N., Seattle, $15,000 OTHER LOW BIDS: Larsen Construction Co., Colman Bldg., Seattle, $20,250; Henry Finch, 4006 California Ave., Seattle, $31,250/ Bids were opened and awards made September 10. GW 9-12. Previous report 8-23

▲SEAL COATING, SURFACING— Moses Lake, Wash.

One bid received and rejected by City Council, City Hall, Moses Lake, for construction of approximately 14,300 sq. yd. seal coat treatment and 14,400 sq. yd. light bituminous surfacing for street improvement in Moses Lake; alternate bid for approximately 8,200 sq. yd. asphaltic concrete surfacing. Plans by Gray & Osborne, consulting engineers, 228 S. 2nd St., Yakima. Bidder and amount was not released. Plans are being revised.
IG 9-8. Previous report 8-23

●SPRINKLING SYSTEM— Moses Lake, Wash.

Bids will be opened 2 p. m., September 18, by Mabel Waterman, city clerk, City Hall, Moses Lake, for installation and equipping of sprinkling system for Peninsula Park in Moses Lake. Plans with Gray & Osborne, consulting engineers, 228 S. 2nd St., Yakima. $10 deposit.
IG 9-8

★RIPRAP— Mount Vernon, Wash.

Awards announced by Skagit County Commissioners, Courthouse, Mount Vernon, for loading, hauling and placing 8,400 ton rock riprap on the right bank of river between Mount Vernon and Burlington, Proj. No. 95; for placing 13,200 ton rock riprap on the right bank of river west of Mount Vernon, Proj. No. 111. Bids opened August 27. PROJ. 95—AWARD: Robert F. Wade, 1340 E. Rio Vista, Burlington, $9,996. ONLY OTHER BID: Stoen Construction Co., 2210 E. 95th St., Seattle, $16,800. PROJ. 111—AWARD: Robert F. Wade, Burlington, $19,008. 2ND

LOW: Stoen Construction Co., Seattle, $29,700. 3RD LOW: Stanley Walters, Mount Vernon, $24,420.
SP 9-8. Previous report 8-23

● STATE HIGHWAY PROJECTS—
Olympia, Wash.

Bids will be opened 10 a. m., September 25, in the Conference Room, General Administration Bldg., Capitol Group, by Washington State Highway Commission, W. A. Bugge, director, Olympia, for highway construction. Specifications with above office. $2 deposit. Certified check, cashier's check or bid bond 5%.

CAPITOL LAKE BRIDGE TO BOUNDARY STREET—Clearing, draining, grading and constructing two reinforced concrete bridges on 0.857 mile PSH No. 1, Thurston County; FAP No. 1-001-2(36).

Quantities: 45 acre clearing; 650,500 c.y. common excavation; 75,380 unit overhaul; 96,170 c.y. excavation of unsuitable foundation material; 2,846' concrete pipe; 4,327' corrugated metal pipe; 2,218 c.y. concrete; 392,400 lb. steel reinforcing bars; 18,200' treated timber piling.

JANIS TO TONASKET—Draining, grading, surfacing with light bituminous surface treatment and construction of a reinforced concrete slab bridge on 6.028 mile PSH No. 10, Okanogan County; FAP No. F-029-2(12).

Quantities: 296,640 c.y. common excavation; 2,810 c.y. solid rock excavation; 12,530 unit overhaul; 57,750 ton borrow; 37,960 ton crushed stone surfacing; 320 ton asphalt cement; 388 c.y. concrete; 56,280 lb. steel reinforcing bars; 3,063' concrete pipe; 259' corrugated metal pipe; 877' welded steel pipe; 878' precast traffic curb; 1,900 c.y. riprap.

RIVERSIDE VICINITY—Draining, grading and surfacing with light bituminous surface treatment on 1.831 mile PSH No. 10, Okanogan County; FAP No. F-029-2(7).

Quantities: 113,450 c.y. excavation; 2,660 unit overhaul; 20,115 ton crushed stone surfacing; ballast and crushed cover stone; 89 ton asphalt cement; 1,470' concrete pipe; 397' corrugated metal pipe; 400' beam guard rail.

N. P. RY. AND PERCIVAL CREEK OVERCROSSING — Constructing two reinforced concrete box girder bridges on 0.071 mile PSH No. 9, Thurston County; FAP No. F-FG-007-5(4).

Quantities: 1,815 c.y. structure excavation; 2,277 c.y. concrete; 1,498' reinforced concrete bridge railing; 640,000 lb. steel reinforcing bars; 36,000 lb. structural steel.

WEYERHAEUSER RAILWAY UNDERCROSSING—Constructing plate girder railway bridge and shoofly on PSH No. 1, Thurston County; FAP No. IG-001-2(37).

Quantities: 4 acre clearing; 16,430 c.y. excavation; 500 c.y. borrow; 1,350 c.y. structure excavation; 610 c.y. concrete; 28,000 lb. steel reinforcing bars; 10.4 mbm treated timber and lumber.

OKANOGAN RIVER BRIDGE—Constructing a reinforced concrete box girder and slab bridge on 0.125 mile PSH No. 10, Okanogan County; FAP No. F-FG-029-2(10).

Quantities: 2,000 c.y. structure excavation; 2,300 c.y. concrete; 505,000 lb. steel reinforcing bars; 6,400 lb. structural steel; 6,600' timber piling; 560' concrete piling.

CITIES OF EPHRATA AND SOAP LAKE—Draining, grading, surfacing with light bituminous surface treatment and paving with Type I-1 asphaltic concrete on 1.483 mile PSH No. 7, Grant County; FAP No. F-031-1(5).

Quantities: 15,535 c.y. excavation; 2,370 ton sand filler; 26,490 ton crushed stone surfacing, ballast, crushed cover stone and mineral aggregate; 121 ton asphalt cement; 7,845 ton asphaltic concrete; 3,441' concrete pipe; 88' corrugated metal pipe; 8,825' cement concrete curb; 6,417' precast traffic curb.

TANEUM CREEK BRIDGE—Draining, grading, surfacing with crushed stone and constructing a reinforced concrete girder bridge on 0.189 mile Kittitas County road; FAS No. S-0563(1).

Quantities: 4,300 c.y. excavation; 750 c.y. crushed stone surfacing; 200 c.y. loose riphap; 153 c.y. concrete; 42,000 lb. steel reinforcing bars.

NASSA POINT VICINITY—Removing an obstruction from the Columbia River ship channel on PSH No. 12, Wahkiakum County; a State Project, involving 20,000 ton dredge excavation.

FIRST AVENUE SOUTH BRIDGE REMOVAL—Removing existing Duwamish River Bridge No. 1-K/3 on SSH No. 1-K, King County; a State Project.

OWL CREEK BRIDGE No. 1/712—Jacking and leveling existing slab bridge deck on PSH No. 1, Cowlitz County; a State Project.

Quantities: 30 c.y. crushed stone surfacing; 150 ton type I-1 asphaltic concrete.

EAGLEMOUNT HALF BRIDGE — Constructing a reinforced concrete slab half bridge on 0.014 mile PSH No. 9, Jefferson County; a State Project.

Quantities: 100 c.y. structure excavation; 57 c.y. concrete; 73' beam guard rail; 13,750 lb. steel reinforcing bars.
SP 9-7

▲ STATE HIGHWAY PROJECTS—
Olympia, Wash.

Low bids announced by Washington State Highway Commission, W. A. Bugge, director, Olympia, for highway construction on which bids opened September 11.

COWLITZ RIVER BRIDGE TO JCT. PSH. NO. 1—Clearing, draining, grading, cement treated base, type I-1 asphaltic concrete paving, illumination system on 0.993 mile PSH No. 12, Cowlitz County; FAP No. U-004-2(10).

LOW BID: Erland & Blickle, 8265 N. Borthwick, Portland, $272,113. ONLY OTHER BID: Peter Kiewit Sons' Co., Box 1777, Vancouver, $283,197.

C. M. ST. P. & P. R. R. UNDERCROSSING — Clearing, draining, grading steel girder railway bridge on 0.179 mile PSH No. 18, Grant County; FAP No. IG-002-4(3).

LOW BIDS: Cherf Bros. & Sandkay, Inc., Inc., Box 938, Ephrata, $101,450; Walter G. Meyer, Box 5011, Spokane, $104,198; Sather & Son, N. 1410 Howe St., Sardley, $104,527.

PULLMAN - BUSBY ROAD — Draining, grading, crushed stone surfacing on 2.231 mile Whitman County road; FAS No. S-0669(1).

LOW BIDS: Frank G. Baulne, Inc., Box 84, Yardley, $128,886; J. F. Konen Construction Co., Inc., 1408 11th, Lewiston, Idaho, $147,083; Max J. Kuney Co., Inc., N. 120 Ralph St., Spokane, $161,314.

McDUFF ROAD — Clearing, draining, grading crushed stone surfacing on 4.006 mile Thurston County Road; FAS No. S-1060(1).

LOW BIDS: J. F. Forbes, Box 174, Olympia, $72,250; J. P. Surace Construction Co., 3238 Seaview, Seattle, $98,326; Herman Kathman, 12054 23rd N.E., Seattle, $99,348.

LA CAMAS VICINITY—Clearing, draining, grading, surfacing, emulsified asphalt base treatment on 2.819 mile Clark County road; FAS No. S-0614(1).

LOW BIDS: D-H Paving Co., 6808 Highway 99, Vancouver, $73,736; C. W. Thomas & Son, Box 402, Winlock, $75,629; Smith Bros. Co., 3801 4th Plain Road, Vancouver, $81,122.

B-Z CORNER BRIDGE—Steel arch bridge with reinforced concrete deck on 0.034 mile of Klickitat County road; FAS No. S-0398(2).

ONLY BID: West Coast Steel Co., 5609 N.E. 77th, Portland, $65,084.

DRY GULCH BRIDGE No. 1-V/101—Draining, grading, cement concrete paving, treated timber pile trestle bridge with concrete deck on 0.102 mile of SSH No. 1-V, Pierce County; a State Project.

LOW BIDS: American Pile Driving Co., Pier 2, Everett, $75,858; Woodworth & Co., Inc., 1200 E. "D" St., Tacoma, $78,082; Larsen Construction Co., 468 Colman Bldg., Seattle, $83,661.

SPRAGUE AVENUE TO JCT. PSH. No. 2—Clearing, draining, grading, light bituminous surface treatment, type I-1 asphaltic concrete paving on 1.130 mile of SSH No. 3-H, Spokane; a State Project.

LOW BIDS: Inland Asphalt Co., 10th and and Havanna, Spokane, $99,862; D. A. Sullivan, Box 37, Parkwater Station, Spokane, $102,819; S & F Construction Co., Route 2, Spokane, $106,532.

OREGON STATE LINE TO WALLULA—Surfacing, type I-1 asphaltic concrete paving on three mile PSH No. 3, Walla Walla County; a State Project.

LOW BID: L. W. Vail, 1949 N. 4th St., Pasco, $40,714. ONLY OTHER BID: Morrison & Co., Inc., Box 597, Walla Walla, $42,024.

PESHASTIN CREEK VICINITY, ET AL—Stockpiling crushed stone surfacing, ballast, sand, mineral aggregates on SH Nos. 15, 15-C, 15-D, Chelan County; a State Project.

LOW BID: R. Wamberg, 7404 S. Tacoma Way, Tacoma, $153,525. ONLY OTHER BID: Frank G. Baulne, Inc., Yardley, $199,714.

EVANS, BARSTOW, CHINA BEND VICINITIES—Stockpiling crushed stone surfacing, maintenance rock, mineral aggregates, sand on PSH Nos. 3 and 22, Ferry and Stevens counties; a State Project.

LOW BID: Carbon Bros., N. 3430 Cook St., Spokane, $83,362. ONLY OTHER BID: Materne Bros., Inc., Box 7050 Garland Station, Spokane, $88,581.

MT. VERNON TO SKAGIT RIVER—Install four illumination systems on PSH No. 1, Skagit County; a State Project.

LOW BIDS: Donald W. Close Co., 2921 13th S.W., Seattle, $35,220; G. S. Electric Co., 9848 Arrowsmith Ave., Seattle, $35,609; Northwest Engineering Electric Co., 616 6th South, Seattle, $35,690.
DE 9-11. Previous report 9-5

▲ STORM SEWER SYSTEM ADDITIONS—
Omak, Wash.

Bids received and rejected as too high by Clara M. Jessup, city clerk, City Hall, Omak, for construction of additions to the storm sewer system in Omak. Plans by Gray & Osborne, consulting engineers, 228 S. 2nd St., Yakima. Bids opened September 4. LOW BIDS: Tom Larson, Box 552, Wenatchee, $21,509 (Alt. C), $15,193 (Alt. E); John Knowles, Box 1040, Wenatchee, $21,758, $15,841; Murphy Bros., E. 3728 Broadway, Spokane, $22,980, $16,871. Project has been dropped. IG 9-8. Previous report 8-29

★ RADIAL GATES, HOISTS—Othello, Wash.

Award to Ogden Iron Works Co., Box 147, Ogden, $4,452, fob Ogden, by Bureau of Reclamation, Bldg. 53, Denver Federal Center, Colo., for furnishing and delivering two radial gates for radial-gate check drop, Potholes East canal, Sta. 1369+11; Inv. No. DS-4724. SP 9-8. Previous report 8-30

● POWER SWITCHING FACILITIES—
Othello, Wash.

Bids will be opened 2 p. m., October 5, by U. S. Air Force, Procurement Office, Geiger Field, Spokane, for installation of remote power switching facilities at the 637th AC&W Squadron in the vicinity of Othello; IFB 45-614-57-27. Specifications with above office. Bid bond 20%. CE 9-11

SEWAGE TREATMENT PLANT—
Palouse, Wash.

Bond election will be held with November 6 general election for sewers and sewage treatment plant in Palouse. Bond election for this project failed in May.
CE 9-8. Previous report 5-15

● GRADING, SURFACING—
Paradise Inn Highway, Wash.

Bids will be opened 10 a. m., September 26, by Bureau of Public Roads, 753 Morgan Bldg., Box 3900, Portland, for grading and surfacing 3.094 mile West Entrance-Paradise Inn Highway, Lewis and Pierce Counties, Wash.; Mt. Rainier National Park Project 1-B10. Specifications with above office.

Quantities: 46 acre clearing; 36 acre grubbing; 263,000 c.y. excavation; 935,000 sta. yd. overhaul; 30,000 c.y. mi. overhaul; 28,600 c.y. crushed gravel; 193 ton asphalt; 2,210' culvert pipe.
SP 9-11

▲ CAST IRON WATERMAIN— Pasco, Wash.

No bids received September 4 by City Council, City Hall, Pasco, for installation of 8" and 12" cast iron watermain, fire hydrant and water meter on Road 20 from the junior college site at Court St., and jacking under a state highway.
SP 9-8. Previous report 8-30

● TRANSMISSION LINE—
Port Angeles, Wash.

Bids to be opened 8 p. m., P.S.T., September 25, by PUD No. 1, Clallam County, in the district office in Port Angeles for construction of the Sekiu-Neah Bay transmission line. Plans with district office. $25 deposit. Certified check or bid bond 5%.

Materials to be furnished by the district. Project involves construction of about 17 mile of 69 kv. transmission line and 8 mile of distribution underbuild. Right of way clearing will be on another contract.
DC 9-11

▲ROAD CONSTRUCTION— Port Townsend, Wash.

Bid received by Jefferson County Commissioners, Courthouse, Port Townsend, for construction of type I-1 asphaltic concrete pavement, class B, on 6.8 mile Quilcene Center Road, Jefferson County, Wash.; CR No. 27. Bid opened September 7. ONLY BID: Asphalt Paving & Engineering Co., Box 356, Tacoma, $70,772.
SP 9-12. Previous report 8-30

★SEWERS— Pullman, Wash.

Award announced by City Council, City Hall, Pullman, for construction of storm and sanitary sewers for three Local Improvement Districts on various streets on Military and College Hill in Pullman. Bids opened September 4. AWARD: George Meecham & Son, 2103 12th Ave., Lewiston, Idaho, $17,566. 2ND LOW: Grendahl & Younkindo, Box 746, Parkwater Station, Spokane, $18,184. 3RD LOW: Stagman & Roberts, N. 1102 Pierce, Spokane, $18,154.
MH 9-12. Previous report 8-23

★REARING PONDS— Raymond, Sequim, Wash.

Award by State Department of Fisheries, Robert Schoettler, director, Foot of Washington, Olympia, for construction of rearing ponds at the Willapa and Dungeness salmon hatcheries. No bids were received on Willapa approximately 12 mi. east of Raymond, but decision will be made within 15 days as to whether project will be readvertised or completed by fore account. DUNGENESS, approximately 6 mi. south of Sequim—AWARD: Winterburn Construction Co., 314 Polk, Port Townsend, $22,637.
GW 9-12. Previous report 9-1

●CONCRETE GIRDER BRIDGES— Randle-Yakima Highway, Wash.

Bids to be opened 10 a.m., September 21 by Bureau of Public Roads, 753 Morgan Bldg., Portland for constructing one 170' and one 85' concrete girder bridge, Washington FHP 13-A1, B1, D2, Unit 1, Randle-Yakima Highway, Silver Creek and Davis Creek bridges, Gifford Pinchot National Forest, Lewis County, Wash. Specifications with F. E. Andrews, division engineer, Box 3900 Portland.

Quantities: 565 c.y. structure excavation; 783 c.y. concrete; 154,500 lb. reinforcing steel; 476' metal hand rail.
DM 9-8

▲ACID FEED FACILITIES—Richland, Wash.

Bids received by Atomic Energy Commission, engineering and construction division, Bldg. 703, Richland, for installation of acid feed facilities in two water treatment plants on the project at Hanford plant area. Bids opened September 6. LOW BIDS: Hoffman Construction Co., 715 S.W. Columbia, Portland, $143,600; George A. Grant, Box 764, Pasco, $147,645; W. G. Clark, 408 Aurora Ave., Seattle, $153,000. Fair cost estimate, $146,000.
SP 9-7. Previous report 8-16

▲FENCE— Seattle, Wash.

Bids received by City Council, County-City Bldg., Seattle, for furnishing and installing 2,346' of 7" chain link fence. LOW BIDS: Colorado Fuel & Iron Corp, Pacific Coast Division, 3434 2nd Ave. S., $9,932; Seattle Fence Division, San Jose Steel Co., Inc., 7034 15th Ave. N.W., $10,120; Cyclone Fence Department, American Steel and Wire Division-U. S. Steel Corp., 1150 Fairview Ave. N., $10,125. All of Seattle. Bids were opened September 6.
GW 9-7. Previous report 8-25

▲TANK REPAIR— Seattle, Wash.

Bids received by 13th Naval District, Public Works Office, room 100, Building 232, U. S. Naval Station, Seattle, for replacement of steel bottom in diesel oil tank No. 99, at U. S. Naval Supply Depot, Seattle; NBy-6554; Spec. No. 6554/56. LOW BIDS: Hydraulic Supply Manufacturing Co., 7500 8th Ave. S., $5,162; Ryan & Haworth Co., 320 W. 81st, $5,400; Arrow Iron and Machine Works, 1327 Weller, $5,668. All bidders of Seattle. Bids were opened September 5.
GW 9-7. Previous report 8-15

SEWAGE TREATMENT PLANT, SECOND UNIT— Seattle, Wash.

Bids will be called soon by City Council, according to W. E. Parker, city engineer, County City Bldg., Seattle for a portion of the second unit of the Lake City sewage treatment plant. The original portion was built by Lake City Sewer District but is now taxed beyond capacity. The city, under an agreement with the district, will build additional facilities and finance them from sewer service charges. Parker has asked the Council to appropriate $650,000 for the addition. The work on which bids will be called shortly approximates $100,000 and will involve a combined shop-garage and pumphouse building; high pressure sludge pumping facilities; high pressure sludge main; underground pump station building. Carey & Kramer, consulting engineers, 1917 1st, Seattle are designing the addition.
DM 9-8

★ASPHALTIC CONCRETE PAVING— Seattle, Wash.

Award by Shoreline School District No. 412, King County, Myron Ernst, secretary, Administration Bldg., E. 158th and 20th Ave. N.E., Seattle, for asphaltic concrete paving of parking area and driveways at the high school and playgrounds at Hillwood elementary school. AWARD: Lake City Gravel and Materials Co., Inc., 10728 Bothell Way, Seatle, $13,700. Bids were opened and held under advisement August 10.
GW 9-8. Previous report 7-28

★SEWER CONNECTION— Seattle, Wash.

Award to Joe Coluccio, 1425 Hanford St., Seattle, $2,162, by Seattle School District No. 1, Frank M. Brock, secretary, 815 4th Ave. N., Seattle, for sewer connection at Oak Lake Elementary School, 100th Ave., at Aurora, Seattle.
GW 9-11. Previous report 9-5

●DRAINAGE SYSTEM— Seattle, Wash.

Bids to be opened 11 a. m., September 18, by Seattle School District No. 1, Frank M. Brock, secretary, 815 4th Ave. N., Seattle, for drainage system at Northgate Elementary School, E. 120th and 1st Ave. N.E., Seattle. Specifications with purchasing department, above address. Certified check, cashier's check or bid bond 5%.
GW 9-11

●STORM SEWERS, TEST BORINGS— Seattle, Wash.

Bids to be opened 2 p. m., September 19, by Board of Public Works, E. G. Henry, secretary, room 512, County-City Bldg., Seattle, for construction of storm sewers and test borings in Seattle. Plans with William E. Parker, city engineer, 404 County-City Bldg., Seattle. STORM SEWERS: Paisley Drive, Inverness Drive, 53rd Ave. N.E. and intervening streets; LID No. 6137; Ord. No. 85377. TEST BORINGS: 15th Ave. W., south approaches to Ballard Bridge, grade separation by test borings, Ord. No. 84951.

Storm sewer quantities: concrete pipe sewer, 1,285' of 10", 980' of 12", 220' of 15", 210' of 24", 275' of 24" with rubber joint; cast iron pipe, 480' of 10", 395', of 12"; 33 manholes; 285' of 18" pipe culvert; 10 c.y. classified concrete in headers; 27 combination inlets.
GW 9-11

●TANK PAINTING— Seattle, Wash.

Bids to be opened 2 p. m., September 19, by Board of Public Works, E. G. Henry, secretary, room 512 County-City Bldg., Seattle, for tank painting. Plans with Water Department, room 323, County-City Bldg., Seattle. $10 deposit. Certified check, cashier's check or bid bond 5%. Work involves cleaning and painting interior and exterior surfaces of Landsburg elevated tank, painting interior surface of the control works elevated tank; Ord. No. 84050.
GW 9-12

●DITCH RELOCATION, LINING— Selah, Wash.

Bids will be opened 8 p. m., September 18, by Selah School District No. 119, Elmo Steinke, superintendent, Sunrise Place, Selah, for relocating, covering and lining the Taylor Ditch at Selah. Plans with Walter H. Rothe, architect, 807 W. Yakima Ave., Yakima. $25 deposit.
IG 9-11

●BRIDGE REPAIR— Skykomish, Wash.

Bids will be opened 3 p. m., September 18, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for repair of log bridge across Skykomish River, approximately five miles east of Skykomish, Snohomish County, Wash.; Inv. No. 8148. Specifications with above office. Bid bond 25%. Completion time 45 calendar days.

Quantities: 300' drive piling; 300 c.y. fill, approaches; 500' riprap stone; raising stringers and adding log cribbing; dolphin construction.
SP 9-11

▲HATCHERY FACILITIES— South Bend, Wash.

Bids received by State Department of Fisheries, Robert J. Schoettler, director, Foot of Washington, Olympia, for construction of a hatchery building addition at Nemah Bay, about 18 mi. south of South Bend, Wash. ONLY BID: R. A. Duuos, Box 22, Astoria, $62,694. Bids were opened September 6.
GW 9-7. Previous report 8-29

▲SUBSTATION EQUIPMENT— Tacoma, Wash.

Bids received by Board of Contracts and awards, room 404 City Hall, Tacoma, for furnishing structural steel bus structures, switch towers and appurtenances for Cowlitz substation (Bank No. 7 and BPA line No. 2 Addition. BIDS: Isaacson Iron Works, 8531 E. Marginal Way, Seattle, $58,240; Bethlehem Pacific Steel Corp., 3631 E. Marginal Way, Seattle, $59,750; Marine Iron Works, Inc., 1120 E. "D," Tacoma, $77,683. Bids were opened September 10.
GW 9-11. Previous report 8-14

★UNDERGROUND VAULTS— Tacoma, Wash.

Awards by Board of Contracts and Awards, room 404, City Hall, Tacoma, for construction of reinforced concrete underground vault No. 2, in Highland Hill Development, 6th Ave. and Pearl St., Tacoma, and for three vaults in Villa Plaza, Lakewood area, south of Tacoma. AWARDS—HIGHLAND HILL: Concrete Construction Co., 3101 S. Lawrence, Tacoma, $5,044. VILLA PLAZA: Concrete Construction Co., $13,755.
GW 9-11. Previous report 8-14

▲STATE HIGHWAY PROJECT— Tumwater, Wash.

Bids received by J. C. Claypool, district engineer for Washington State Highway Commission, at the district office in Tumwater, for highway construction. Bids opened September 6.

LILLIWAUP SOUTHERLY — Construction of reinforced concrete cribbing on PSH No. 9 in Mason County; a State Project. LOW BIDS: Kendall Construction Co., 3211 Center St., Tacoma, $13,334; Louis Elterich Co., Box 868, Port Angeles, $18,219; MacRae Bros., 5900 1st Ave. S., Seattle, $18,959.
SP 9-11. Previous report 8-21

▲PAVING— Vancouver, Wash.

Bids opened by Vancouver Housing Authority, McLoughlin Heights, Vancouver, for furnishing approximately 3,800 tons base course, Andresen Highlands-1, McLoughlin Heights, Vancouver. BIDDERS: Levanen & Karvonen, R.F.D. 7, $6,080; Pacific Building Materials Co., 101 E. 1st, $7,600; Klineline Sand & Gravel Co., R.F.D. 7, $7,980; Smithrock Quarry, 3807 4th Plain Road, $8,930. Of Vancouver. Award to be made to low bidder if pit is satisfactory. Bids opened September 5.
WB 9-8. Previous report 8-28

●TELEMETERING EQUIPMENT— Vancouver, Wash.

Bids will be opened 2 p. m., September 20, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for furnishing and delivering fob. Eavan Spur, Vancouver, 29 pieces of telemetering equipment; Inv. No. 8146. Specifications with above office. Delivery time 180 calendar days.
SP 9-8

●STATE HIGHWAY PROJECT— **Vancouver, Wash.**

Bids will be opened 10 a. m., September 27, by Washington State Highway Commission, at the office of W. A. Bailey, district engineer, 4200 Main St., Vancouver, for a highway construction project. Specifications with above office. $2 deposit. Certified check, cashier's check or bid bond 5%.

RIDGEFIELD JUNCTION-WOODLAND—Cutting and sealing joints in the existing portland cement concrete pavement on PSH No. 1 between Ridgefield Junction and Woodland, Clark and Cowlitz Counties, Wash., involving 26,000' sealing and 4.6 ton joint sealing compound. SP 9-11

▲STREET IMPROVEMENTS— **Vancouver, Wash.**

Bids opened by city purchasing agent, Robert Moisant, 712 Washington St., Vancouver, for improvement of W. 26th St. BIDDERS: K. F. Jacobsen & Co., Inc., 1211 N. Loring St., $4,103; United Contracting Co., 9898 N.E. Hancock Drive, $4,125. Of Portland. Bids opened September 10. WB 9-12. Prevoius report 9-8

▲STREET IMPROVEMENTS— **Vancouver, Wash.**

Bids opened by city purchasing agent, Robert Moisant, 712 Washington St., Vancouver, for six-year plan street improvements, including 22nd St., 11th St., Columbia St., 8th St. and Port Way. BIDDERS: Portland Road & Driveway Co., 7295 S.E. King Road, $27,842; United Contracting Co., 9898 N.E. Hancock Drive, $28,105; K. F. Jacobsen & Co., Inc., 1211 N. Loring St., $28,604. Of Portland. Bids opened September 10. WB 9-12. Previous report 8-14

●STATE HIGHWAY PROJECT— **Yakima, Wash.**

Bids will be opened 10 a.m., September 27, by T. P. Doyle, district engineer for Washington State Highway Commission, at the district office in Yakima, for a highway construction project. Specifications with above office. $2 deposit. Certified check, cashier's check or bid bond 5%.

SELAH-MOXEE CANAL BRIDGE—Widening of existing concrete slab bridge on PSH No. 3, Yakima to Ellensburg section, Yakima County; a State Project. SP 9-11

IDAHO

●STATE HIGHWAY PROJECTS— **Boise, Idaho**

Bids will be opened 2 p. m., September 18, by Department of Highways, 603 Main St., Boise, for highway construction projects. Specifications with above office. $5 deposit. Certified check, cashier's check or bid bond 5%. Completion time August 1, 1957.

WOODVILLE NORTH—Construction of surface and a bituminous treatment on 3.581 mile road in Bingham and Bonneville Counties; FAP No. S-6726(1).

Quantities: 1,000 c.y. borrow; 18,200 ton crushed gravel base; 37,600 gal. asphalt road material; 1,620 ton cover coat material.

NITER-GRACE, SODA SPRINGS-EAST, CANCROFT-SODA SPRINGS—Seal coating 5.854 mile SH No. 34, 11.209 mile U.S. Highway 30 N, and 14.939 mile U. S. Highway 30 N, respectively; furnishing crushed gravel and cover coat material in stockpiles near Soda Springs and Grace, Caribou and Bear Lake Counties; FAP Nos. S01778(4) and F-1481(5), State Project No. ST-M-1481(508) and Stockpile No. 173.

Quantities: 152,000 gal. asphalt road material; 12,330 ton cover coat material; 7,500 ton crushed gravel. SP 9-7

▲STATE HIGHWAY PROJECTS— **Boise, Idaho**

Low bids announced by Department of Highways, 603 Main St., Boise, for highway construction on which bids opened September 4.

TETON RIVER BRIDGE—Construction of 105' concrete bridge over the Teton River on Cache-Richvale Road, Teton County; FAP No. S-6822(1). Completion date December 15, 1956.

LOW BID: Aiman Construction Co., Box 913, Idaho Falls, $20,300. ONLY OTHER BID: Neilsen & Smith, Box 452, Boise, $22,406.

BIG WOOD RIVER BRIDGE AND CARMEN BRIDGE — Repairing Wood River Bridge approximately 3 mi. south of Ketchum and the Carmen Bridge approximately 4 mi. north of Salmon City, on U. S. Highway No. 93, Blaine and Lemhi Counties; State Proj. Nos. ST-2392(503, ST-M-6354(505). Completion date November 1, 1956.

ONLY BID: Neilsen & Smith, Boise, $9,800.

JCT. EMMET - BLACK CANYON DAM HIGHWAY-WEST—Seal coating 6.50 mile SH No. 52, extension, Gem County; State Proj. No. ST-M-3261(503). Cimpletion date September 15, 1956.

ONLY BID: Quinn Bros. & Robbins, 703 S. 16th, Boise, $6,900.

BONNERS FERRY BRIDGE, PEND OREILLE RIVER BRIDGE—Repairing the Bonners Ferry bridge on U.S. Highway No. 95 and revising portals on Pend Oreille River bridge on U. S. Highway No. 2, at Old Town, Boundary and Bonners Counties; State Proj. Nos. ST-M-5116(513), ST-5121(506). Completion date November 1, 1956.

LOW BID: Henry Hagman, Box 1801, Spokane, Wash., $3,711. ONLY OTHER BID: Northwest Erectors, Inc., Box 4223, Station B, Spokane, $6,320. SP 9-7. Previous report 8-24

★PAVING— **Boise, Idaho**

Award to Asphalt Paving & Construction Co., 3206 Pleasanton Ave., Boise, $7,713, by R. E. Edlefson, city purchasing agent, City Hall, Boise, for paving Cassia St., LID No. 56-C. SP 9-8. Previous report 9-1

★STATE HIGHWAY PROJECTS— **Boise, Idaho**

Awards announced by Department of Highways, 603 Main St., Boise, for two highway construction projects on which bids opened August 28.

GEORGETOWN - NOUNAN ROAD — Construction of base and roadmix bituminous surface on 6.402 mile road in Bear Lake County; FAP No. S-1817(3).

AWARD: Olof Nelson Construction Co., Logan, Utah, $54,473.

PARADISE, PASADENA VALLEY ROADS —Construction of roadway and roadmix bituminous surfacing on 3.544 mile Paradise Valley Road; grading, draining 1.260 mile Pasadena Valley Road, Elmore County; FAP Nos. S-39-3(2), S-3810(2).

AWARD: Carl Woodall, 2114 Pond St., Boise, $86,810. SP 9-8. Previous report 8-31

★STATE HIGHWAY PROJECTS— **Boise, Idaho**

Awards announced by Department of Highways, 603 Main St., Boise, for highway construction on which bids opened August 21.

BANKS-CROUCH—Install two pipe culverts, restore roadway on SH No. 17, Boise County; FAP No. ER-26(1).

AWARD: Eagle Construction Co., Inc., Box 1496, Boise, $24,992.

COUNCIL - MESA — Furnish crushed rock and cover coat material in stockpiles adjacent to U. S. Highway No. 95 at Council maintenance yard and north of Mesa, Adams County; Stockpile Proj. No. 130.

AWARD: Richard Beshey, Parma, $42,345.

IDAHO FALLS-RIGBY —Roadbed widening, plantmix bituminous surfacing on 0.423 mile U. S. Highways 20 and 191 at two railroad crossing 1½ mile northeasterly of Idaho Falls and ½ mile northeasterly of Rigby, Bonneville and Jefferson counties; FAP No. F-6471(7).

AWARD: Carl E. Nelson Construction Co., Inc., Box 397, Logan, Utah, $32,580.

SHOSHONE HIGHWAY YARD—Furnishing 10,000 ton crushed gravel surfacing, 2,000 ton cover coat material in stockpiles in state highway yard at Shoshone, Lincoln County; Stockpile Project No. 161.

AWARD: A. D. Stanley, 1206 N. 24th, Boise, $15,900. SP 9-8. Previous report 8-25

●BRIDGE— **Boise, Idaho**

Bids will be opened 2 p. m., September 19, by U. S. Forest Service, Forest Supervisor's office, 210 Main St., Boise, for replacing an existing bridge over Deadwood River about ⅛ mile above Deadwood Reservoir, Deadwood River bridge No. 3, Boise National Forest, Valley County, Idaho; FSP No. 150. Specifications with Regional Supply Officer at above address. Cashier's check or bid bond 5%. Completion time 60 calendar days.

Quantities: 85 c.y. structure excavation; 48.8 c.y. concrete; 2,565 lb. reinforcing steel; 90 c.y. loose rock riprap, rock fill. SP 9-11

★STRUCTURAL STEEL— **Boise, Idaho**

Award to Baxter's Foundry & Machine Works, 1501 S. Capitol Blvd., Boise, $5,344, by Ted Cramer, state purchasing agent, State House, Boise, for furnishing fabricated structural steel at Murtaugh for the state highway department. SP 9-12. Previous report 9-5

●CORRUGATED METAL PIPE— **Boise, Idaho**

Bids will be opened 11 a. m., September 19, by Ted Cramer, state purchasing agent, 225 State House, Boise, for corrugated metal pipe for the highway department. Specifications with above office. SC 9-12

▲CONCRETE, ROAD AGGREGATE STOCKPILES— **Idaho Falls, Idaho**

Bids received by Atomic Energy Commission, Box 1221, Idaho Falls, for production of concrete and road aggregate stockpiles at the National Reactor Testing Station in Idaho; Inv. No. AT(10-1)-863. Bids opened September 5. LOW BIDS—ANP AREA: Idaho Rock, Inc., Twin Falls, $80,800; Morrison-Knudsen Co., Box 450, Boise, $100,240. CENTRAL FACILITIES AREA: Morrison-Knudsen Co., Boise, $37,200; Idaho Rock, Inc., Twin Falls, $40,500; Ford-Fielding, Inc., 893 N. Starr Ave., Provo, Utah, $40,500. SP 9-11. Previous report 8-25

▲WELL, PUMP— **Idaho Falls, Idaho**

Bids received by Atomic Energy Commission, Box 1121, Idaho Falls, for drilling, casing and testing production well and installing pump at the Army Reactor Area at National Reactor Testing Station in Idaho; Inv. No. A8(10-1)-846. Bids opened September 5. LOW BIDS: R. J. Strasser Drilling Co., 8110 S.E. Sunset Lane, Portland, Ore., $26,783; Andrew Well Drilling Contractors, 1360 E. 17th, Idaho Falls, $31,950; Cope Drilling & Pump Co., Airport Road, Idaho Falls, $35,287. SP 9-11. Previous report 8-23

★LEVEE REPAIR— **Kootenai River, Idaho**

Awards by Corps of Engineers, Seattle District, 4735 E. Marginal Way, Seattle, for Levee repair, districts 4, 9, 12, 16, and Casey and Kerr Tracts, Kootenai River, Idaho. CIVENG-45-108-57-7. AWARDS—Sched. A: Cherf Bros Inc., and Sandkay Contractors Inc., Box 938, Ephrata, $244,166. Sched. B: Zook Bros., Troy, Mont., $10,922. Sched. A: consists of districts 9, 12 and Kerr tract; Sched. B: district 4, 16 and Casey Tract. GW 9-11. Previous report 9-6

SEWAGE TREATMENT PLANT, SEWERS— **Lewiston, Idaho**

(Estimated cost $700,000)

Special election will be held soon for funds to finance construction of 30 miles general sewers and construction of a sewage treatment plant in Lewiston Orchards, Lewiston, for Lewiston Orchards Sewer District No. 1, Clarence Nordy, secretary, Lewiston. Plans underway by Walter L. Woodward, consulting engineers, 206 Empire State Bldg., Spokane. Estimated cost includes $150,000 for treatment plant and $550,000 for sewers. CE 9-8

★METAL CULVERT PIPE—Lewiston, Idaho

Award announced by Ted Cramer, state purchasing agent, 225 State House, Boise, for metal culvert pipe for the highways at Lewiston. Bids opened September 6. AWARD: Armco Drainage & Metal Products, Inc., 2215 Main, Boise, $1,292. 2ND LOW: Spokane Culvert & Fabricating Co., E. Trent and Hamilton, Spokane, Wash., $1,388. 3RD LOW: Beall Pipe & Tank Co., 225 Broadway Ave., Boise, $1,312. SP 9-11. Previous report 8-30

★BRIDGE— Riggins, Idaho

Award to W. R. Cahoon Construction Co., Box 449, Pocatello, $137,019, by U. S. Forest Service, Supervisor's Office, Forest Service Bldg., McCall, for construction of Partridge Creek Bridge, about 13 mi. east of Riggins, Payette National Forest, Idaho County, Idaho; FSP No. 90.

SP 9-12. Previous report 9-5

MONTANA

DRAINAGE, STREET IMPROVEMENTS— Dillon, Mont.

Neil Sullivan, civil engineer, Butte, has been retained by City Council, City Hall, Dillon, to survey and map a master plan for drainage and present and future street improvements, and to make plans and specifications for paving in special improvement district embracing parts of Idaho St. and all of Washington and Pacific Streets on east side of Dillon. Completion set for February 1, 1957.

SC 9-7

★WATER MAIN PIPE— Dillon, Mont.

Award to Hugulet & Pierce, Dillon, $1.69 per foot, by City Council, City Hall, Dillon, for replacing 1,900' of wooden pipe with 12" cast iron pipe in the city's main water line, a sector at Norman Nelson Ranch southwest of Dillon.

SC 9-7

★WELL— Galen, Mont.

Award to Layne-Minnesota Co., Minneapolis, Minn., and Billings, $19,500, by State Board of Examiners, G. L. Bryant, secretary, State Capitol, Helena, for a new water well to serve the State Tuberculosis Sanitarium at Galen.

SC 9-12

●STATE HIGHWAY PROJECTS— Helena, Mont.

Bids to be opened 9:30 a. m., September 27, by Montana State Highway Commission, Scott P. Hart, highway engineer, Helena, for ten construction projects. Specifications with Helena office. Certified check, cashier's check or bid bond 5%.

GALLATIN GATEWAY-SOUTH ROAD — Grading, gravel surfacing, bituminous surface treatment, drainage structures on 4.997 mile in Galatin County, Mont., and in Park County, Wyo.; F 76(5)U2.

Quantities: 468,188 c.y. excavation; 916 c.y. gravel backfill; 66,040 mi. yd. overhaul; 91,914 ton crushed gravel; 37,762 gal. liquid asphalt; 37,762 gal. emulsified asphalt; 8,812 M gal. watering; 2,774' corrugated metal pipe culverts; 818' structural plate pipe culverts; 198 c.y. random riprap.

PORTER'S CORNER SECTION—Grading, gravel surfacing, bituminous surface treatment, drainage structures on 3.546 mile Philipsburg-Anaconda road in Granite County; F 164(8).

Qauntities: 116 c.y. gravel backfill; 11,670 mi. yd. overhaul; 164,335 c.y. excavation; 59,469 ton crushed gravel; 23,605 gal. liquid asphalt; 23,605 gal. emulsified asphalt; 1,128' reinforced concrete pipe culverts; 72' reinforced concrete stockpass; 288' corrugated metal pipe culverts; 7,982 lb. reinforcing steel; 43.69 c.y. concrete.

PHILIPSBURG-SOUTH ROAD — Grading, gravel surfacing, bituminous surface treatment, drainage structures, widening of one 63.4' steel and concrete bridge on 4.157 mile in Granite County; F 175(4).

Quantities: 179,354 c.y. excavation; 88 c.y. gravel backfill; 77,710 mi. yd. overhaul; 91,508 ton crushed gravel; 30,120 gal. liquid asphalt; 30,193 gal. emulsified asphalt; 4,500 M gal. watering; 1,760' reinforced concrete pipe culverts; 226' corrugated metal pipe culverts; 13,652 lb. reinforcing steel; 22 c.y. class A concrete; 51.30 c.y. class AD concrete; 66.17' concrete curb, rail.

BROWING EAST AND WEST ROAD — Grading, gravel surfacing roadmix oiling, drainage structures, two 38' treated timber bridges on 1.050 mile in Glacier County; F 196(5).

Quantities: 72,670 c.y. excavation; 28,539 mi. yd. overhaul; 17,445 ton crushed gravel; 30,172 gal. liquid asphalt; 1,430 M gal. watering; 1.050 mi. processing; 258' corrugated metal pipe culverts.

YELLOWSTONE RIVER BRIDGE — Construct one 1317.5' steel and concrete bridge over Yellowstone River on Yellowstone River Bridge-Glendive Road at Glendive in Dawson County; F 213(3).

Quantities: 225,395 lb. reinforcing steel; 4,416.7 c.y. concrete; 2,638' steel bridge rail; 47,700 lb. furnish steel bearing piles; 864' drive steel bearing piles; 56 floor drains; 5,675 c.y. structure excavation; lump sum shoring and cribs.

GLENDIVE - SIDNEY ROAD — Construct structural plate pipe arch culvert and grading, gravel surfacing, bituminous surface treatment, drainage structures on 0.706 mile in Richland County; F 245(10), F 245(11).

Quantities: 64,729 c.y. excavation; 451 c.y. gravel backfill; 9,438 c.y. designated borrow; 2,140 mi. yd. overhaul; 101 mi. yd. overhaul; 3,632 ton crushed gravel; 5,933 gal. liquid asphalt; 5,933 gal. emulsified asphalt; 1,300 M gal. watering; 1,070' corrugated metal pipe culverts; 328' haul, erect state furnished structural plate pipe culvert.

BOZEMAN - WILSALL ROAD — Grading, gravel surfacing, seal coat oiling, plantmix oiling, drainage structures on 0.782 mile of North Rouse Avenue-Bozeman section of Bozeman-Wilsall road and graveling surfacing, seal coat oiling and plantmix oiling on 2.890 mile of another section of same road, Gallatin County; U. S. 370(8), S 370(10).

Quantities: 7,331 c.y. excavation; 8,539 ton plantmix; 44,788 ton crushed gravel; 126,903 gal. asphalt cement; 30,551 gal. liquid asphalt; 1,365 M gal. watering; 546' corrugated metal pipe culverts; 337.5' steel guard rail; 2,201 sq. ft. galvanized metal bin type retaining wall; 400 c.y. gravel backfill.

IN THE CITY OF HARLEM—Construction of one 88' treated timber pile bridge, approaches over Thirty Mile Creek on Smith Avenue between Water and Park Streets on Harlem-Turner-Canadian Line Road, Blaine County; S 12(8).

Quantities: 530 c.y. excavation; 3,227 c.y. designated borrow; 8,867 mi. yd. overhaul; 48 M gal. watering; 192' corrugated metal pipe culverts.

RAYNESFORD-SOUTH ROAD — Grading, gravel surfacing, one 38' treated timber bridge over Big Otter Creek and one small drainage structure on 7.073 mile in Judith Basin County; S 183(1).

Quantities: 379,059 c.y. excavation; 489 c.y. backfill; 5,358 mi. yd. overhaul; 963 c.y. binder; 1,926 mi. yd. overhaul; 42,352 ton crushed gravel; 6,449 M gal. watering; 3,744' reinforced concrete pipe culverts; 372' structural plate pipe stockpass.

GLASGOW - OPHEIM - CANADIAN LINE ROAD—Grading, gravel surfacing, drainage structures on 10.437 mile in Valley County; S 286(4).

Quantities: 521,237 c.y. excavation; 487 c.y. gravel backfill; 52,960 mi. yd. overhaul; 12,543 ton selected borrow base course uncrushed; 66,191 ton crushed gravel; 1,566 c.y. binder; 3,132 mi. yd. overhaul; 8,593 M gal. watering; 3,618' corrugated metal pipe culverts; 359' structural plate pipe culverts.

SMP 0299—Crushing, stockpiling 132,500 ton of ⅝" crushed gravel surfacing and 55,000 ton ½" crushed gravel surfacing from 12 crusher set-ups in Big Horn, Carbon, Stillwater, Sweetgrass, Yellowstone counties.

SMP 2110-03—Construct one 38' untreated timber bridge over Beaver Creek about four miles west of Havre on Gilford-Havre-East Road, Hill County.

Quantities: 18,639 mbm untreated timber; 690' untreated timber piles; 305 c.y. unclassified excavation.

DM 9-11

▲WATER TANK FOUNDATIONS— Kalispell, Mont.

Bid received by H. J. Hunt, city clerk, City Hall, Kalispell, for construction of concrete foundations, center pier and valve box for the 100,000-gallon elevated water tank for which a contract was recently awarded to Pittsburgh-Des Moines Steel Co. Specifications by Morrison-Maierle, consulting engineers, 910 Helena Ave., Helena. Bid opened September 4. ONLY BID: Gyrion Construction Co., 94 5th Ave. W., Kalispell, $4,385.

RB 9-12. Previous report 8-23

Legal advertisements published in our columns are read throughout the Pacific Northwest and Alaska.

★SWEEPER— Kalispell, Mont.

Award to Western Construction Equipment Co., 2222 River Drive, Great Falls, $12,790, less trade-in of $4,100 on old sweeper, by H. J. Hunt, city clerk, City Hall, Kalispell, for a new motor-driven street sweeper of not less than 4 c.y. capacity; 2 c.y. Austin Western sweeper trade-in or separate offer for purchase. Bids opened September 4.

SP 9-12. Previous report 8-23

★GRADING, SURFACING—Missoula, Mont.

Award recommended to Goodfellow Bros., Wenatchee, $497,645, by Bureau of Public Roads, Missoula, for grading and surfacing 3.715 mile Yellowstone Trail Highway, between Cyr Bridge and Alberton, Interstate Highway, U. S. Route 10, Lolo National Forest, Mineral County, Western Mont.; FHI No. 8-A7.

SP 9-7. Previous report 9-1

▲BRIDGE RAILS, CURBS—Missoula, Mont.

Bids opened by Bureau of Public Roads, Federal Bldg., Missoula, for repair of bridge rails and curbs on Clark Fork River Bridge and Kootenai Bridge, Yellowstone Trail Highway and Libby-State Line Highway, Cabinet, Lolo and Kootenai National Forests, Mineral, Missoula and Lincoln counties, Mont.; Montana FHI 8-01 and FHP 1-E1. BIDDERS: Colonial Construction Co., N. 615 Mansfield Ave., Spokane, $19,410; Larson-Bradshaw, Inc., Spokane, $20,889; H. Flechsing & Sons, 1637 S. Higgins, Missoula, $21,496. Bids opened September 7.

WB 9-11. Previous report 8-23

▲DRIVEWAY AND MISCELLANEOUS IMPROVEMENTS— Sweetgrass, Mont.

Bids received by General Services Administration, room 126, Federal Office Bldg., Seattle, Wash., for driveway and miscellaneous improvements at U. S. Border Station, U. S. Highway No. 91, Sweetgrass; Project No. CR-10-424. LOW BID: Palmer Shops, 538 N. 78th, Seattle, Wash., $16,896. ONLY OTHER BID: Vogl Construction Co., Lewistown, $23,000. Bids were opened September 7.

GW 9-11. Previous report 8-21

UTAH

★GRADING, SURFACING— Ogden, Utah

Award recommended by Bureau of Public Roads, Denver Federal Center, Denver, Colo., for grading and bituminous surfacing on 9.266 mile Provo River-Haydens Fork Road, Summit, Wasatch and Duchesne Counties, Wasatch National Forest, Utah; Proj. No. 34-D1, E1, F1. Bids opened September 5. AWARD RECOMMMENDATION: Olof Nelson Construction Co., Logan, $146,556. 2ND LOW: Thorn Construction Co., Inc., Springville, $152,346. 3RD LOW: W. W. Clyde & Co., Springville, $154,009.

SP 9-12

★STATE HIGHWAY PROJECT— Salt Lake City, Utah

Award announced by Utah State Road Commission, State Capitol, Salt Lake City, for highway construction on which bids opened August 21.

TWIN ROCKS-FRUITA — Construction of 2½" roadmix bituminous surfacing on 5.175 mile State Road No. 24 in Wayne County; FAS No. S-0371(1) 1st Contract.

AWARD: Wangsgaard Construction Co., Box 286, Logan, $302,318.

SP 9-12. Previous report 8-28

■ SEWER EXTENSION— Salt Lake City, Utah

Planholders announced for construction of sewer extension No. 774 on 4th W. from 9th to 13th S. and on Montague Ave. between 3rd and 4th W. streets in Salt Lake City. Bids will be opened 10:30 a. m., September 18, by Salt Lake City Corporation, Roy W. McLeese, city engineer, City-County Bldg., Salt Lake City.

Planholders: Tiago Construction Co., 3399 S. 2nd West, Salt Lake City; Huber & Roland, 947 W.S. Temple, Salt Lake City; Huber & Hewman, 424 Kensington Ave., Salt Lake City; Statewide Plumbing & Heating Co., Box 266, Murray.

GH 9-8. Previous report 8-30

★**CURBS, GUTTERS—Salt Lake City, Utah**

Award to Richard C. Bradshaw, 4610 Atwood Blvd., Murray, $29,436, by Salt Lake City Corporation, Roy W. McLeese, city engineer, 401 City-County Bldg., Salt Lake City, for construction of curbs and gutters on 11th East from 7th to 9th South in Salt Lake City. GH 9-8. Previous report 9-5

●**STATE HIGHWAY PROJECTS— Salt Lake City, Utah**

Bids will be opened 2 p. m., September 25, by Utah State Road Commission, State Capitol, Salt Lake City, for highway construction. Specifications with above office. $2 deposit. Certified check, cashier's check or bid bond 5%.

STATE ROAD No. 48—Construction of 2½" plantmix bituminous surfacing on 0.671 mi. Midvale Center Street between the Union Pacific railroad tracks and the Denver and Rio Grande Western railroad tracks, Salt Lake County; State Proj. No. 1580.

Quantities: 4,000 ton plantmix bituminous surface; 273 ton bituminous material; 4,200 ton gravel.

U. S. 160, STATE ROAD No. 47—Construction of 3" roadmix bituminous surfacing on 5.467 mi. Monticello Main St. and State Road No. 47, from Blanding Southerly to the Jct. of State Road 47, San Juan County; State Proj. Nos. 1577 and 1578.

Quantities: 963 ton bituminous material; 56,900 ton gravel; 53,300 c.y. roadway excavation.

FAS ROUTE No. 250—Construction of one concrete bridge over the Provo River between Midway and the Jct. of U. S. 40 north of Heber, Wasatch County; FAS No. S-0250(1).

Quantities: 353 c.y. concrete; 46,050 lb. reinforcing steel. SP 9-11

ALASKA

SEWER LINE— Anchorage, Alaska

Contract approved by City Council, City Hall, Anchorage, for city use of the outfall line from the Air Force Hospital to Knik Arm, saving the city about $200,000. Cost to the city will be $95,588 for thirty years; city will also pay one-third of maintenance costs, not to exceed $60,000. The sanitary sewer serves residents of west Government Hill and all Mountain View north of the Glenn Highway, for which the city would pay $360,000 over a period of 30 years under the previous arrangement. SC 9-8

Bureau of Reclamation Lists 31 Major Projects . . .

. . . Scheduled for Bid Call Within Next Three Months

Thirty-one major construction projects will be among bid invitations issued by the Bureau of Reclamation during September, October and November. Bids will be called in September on alternate proposals for an earthfill dam or a concrete arch dam on the South Fork of Owl Creek about 35 miles west of Thermopolis, Wyo. Also planned for September bid calls are the earth and rockfill dam on Beaver Creek about 27 miles east of Ashland, Ore.; the horseshoe tunnel east of Helena, Mont. adjacent to Canyon Ferry Dam; and the Wanship and Gateway power plants in Utah. For further information, write to L. N. McClellan, chief engineer, Denver Federal Center, Denver, Colo., referring to the project by title and number.

BID CALLS EXPECTED IN SEPTEMBER

DAM, Anchor (9-1), Missouri River Basin Project, Wyo. On South Fork of Owl Creek about 35 miles west of Thermopolis, Wyo. Bids will be received on the two following alternate proposals: 1 — Constructing an earthfill dam with crest of 175' above streambed and 460' in length, a spillway with approach channel, concrete inlet structure, concrete lined tunnel, concrete conduit and stilling basin, riprap lined outlet channel, outlet works with concrete intake structure, lined tunnel, gate chamber, adit and access shaft, shaft house, ventilating system and one mile of access road with drainage structures. 2—Constructing a 66,000 cu. yd. concrete arch dam 200' high and 550' long and constructing one mile of access road with drainage structures.

Quantities: Earthfill Dam—59,000 c.y. excavation, overburden in open cut, 12,000 c.y. bedrock excavation in open cut; 7,000 c.y. excavation in tunnels and shafts; 641,000 c.y. excavation from borrow; 22,000 c.y. pervious backfill; 544,000 c.y. earthfill in dam embankment; 8,600 sacks pressure grouting; 800,000 lb. reinforcing steel; 2,750 lb. piping; 58,000 lb. metalwork, equipment. Concrete Arch Dam—diversion and care of river; 44,000 c.y. overburden excavation; 20,000 c.y. bedrock excavation; 26,000 c.y. roadway excavation; 5,000' grout holes; 5,000 sacks grouting; 66,000 c.y. concrete; 31,000 lb. mechanical equipment; 83,000 lb. metal work.

Completion time 900 days.

Bids will be called by the chief engineer, Denver, Colo. late in September.

DAM, Howard Prairie (9-2)—Rogue River Basin Project, Ore. On Beaver Creek about 27 miles east of Ashland, Ore. Constructing an 86' high, 990' long earth and rockfill dam; a spillway with approach channel, concrete crest structure, chute and stilling basin; an outlet works with concrete intake structure, fish screen structure, conduit, gate chamber, control house and stilling basin.

Quantities: 34,000 c.y. common excavation for dam; 825 c.y. rock excavation for dam; 367,000 c.y. excavation from borrow; 400,000 c.y. fill in dam embankment; 26,000 c.y. excavation for structures; 2,000 c.y. concrete in structures; 13,000 c.y. pressure grouting; 250,000 lb. reinforcing steel; 5,000 lb. metalwork; 41,000 lb. government furnished metalwork, equipment; 16,000 lb. outlet pipe.

Completion time 750 days.

Bids will be called by the chief engineer, Denver, late in September.

TUNNEL—Helena Valley (9-3) — Missouri River Basin Project, Mont. Fifteen miles east of Helena adjacent to Canyon Ferry Dam, Mont. Constructing a seven foot diameter horseshoe tunnel about 2.6 miles long.

Quantities: 31,000 c.y. excavation in tunnel; 10,000 c.y. concrete in tunnel lining; 100 c.y. concrete in structures; 600,000 lb. steel supports; 14,000' roof bolt supports; 50,000 lb. tunnel liner plate; 200 mbm permanent timbering.

Completion time 800 days.

Bids to be called late in September by the chief engineer, Denver.

POWER PLANTS—Wanship and Gateway (9-4)—Weber Basin Project, Utah.

Wanship Power Plant, south of Wanship, Utah—Constructing a reinforced concrete, outdoor type power plant including steel penstock, concrete tailrace structure and channel, installing one 2,000 hp. turbine, one 1,400 kw generator, one 54" butterfly valve, one gate shaft type governor, furnishing and installing one bulkhead gate and a package type substation, construction a wood pole transmission line 1,700' long. Quantities: 3,800 c.y. common excavation; 20 c.y. rock excavation; 390 c.y. concrete; 50,000 lb. reinforcing steel; 50,000 lb. of 54" steel penstock; 3,560 lb bulkhead gate.

Gateway Power Plant, ten miles southwest of Ogden, Utah on the south bank of the Weber River—Constructing a reinforced concrete, outdoor type power plant including steel penstock and concrete penstock anchor, concrete tailrace structure and channel, installing two 2,900 hp turbines, two 2,000 kw generators, two 54" butterfly valves, two gate shaft type governors and furnishing and installing bulkhead gate, one radial gate and a package type substation. Project also includes construction of timber bridge across existing wasteway structure and an access road 1,000' long. Quantities: 29,000 c.y. common excavation; 1,000 c.y. rock excavation; 1,600 c.y. concrete; 170,000 lb. reinforcing steel; 400,000 lb. 54" steel penstock; 4,165 lb. bulkhead gate.

Completion time 520 days.

Bids to be called soon by chief engineer, Denver.

PUMPING PLANT, Helena Valley (9-5)—Missouri River Basin Project, Mont. Near Helena, Mont. Constructing an outdoor type pumping plant of reinforced concrete with a structural steel crane runway and overhead traveling crane and an approach bridge. Work includes installing two 150 cfs, hydraulic turbine driven pumps and other government furnished equipment. Water for both pumps and turbines will come from Canyon Ferry Reservoir about 500' upstream.

QUANTITIES: 10,000 c.y. excavation; 6,300 c.y. concrete; 136,000 lb. structural steel; 80,000 lb. reinforcing steel; 670,000 lb. government furnished reinforcing steel; 500,000 lb. government furnished penstock, discharge pipe and manifolds; 225,000 lb. government furnished gates and valves; 171,000 lb. miscellaneous metalwork including trashracks.

Completion time 750 days.

Bids to be called by the chief engineer, Denver, late in September.

PUMPING PLANT, White Bluffs (9-6)—Columbia Basin Project, Wash. Near Othello, Wash. Constructing an indoor type pumping plant with four electrically driven, horizontal pumping units of 178 cfs total capacity. The substructure is to be reinforced concrete, the superstructure a structural steel frame with uninsulated metal panel siding, and the framing to carry a crane runway for a six ton, hand operated traveling crane. Also included is construction of the inlet transition, pump discharge line, outlet structure and switchyard and installation of pumping units and electrical equipment.

Quantities: 56,000 c.y. lateral excavation; 22,000 c.y. excavation for structures and discharge line; 10,000 c.y. backfill; 700 c.y. concrete; 60,000 lb. structural steel;48,000 lb. steel pipes and manifold; 1,650' of 21" and 66" concrete pipe.

Completion time 650 days.

Bids to be called late in September by the chief engineer, Denver.

LATERALS, North Side Pumping Division (9-9)—Minidoka Project, Idaho. Near Rupter, Idaho. Earthwork and structures for open laterals from 25 wells with bottom widths of from 4' to 2' and for six relift pumping plants and discharge lines.

Quantities: 260,000 c.y. lateral excavation; 20,000 mi. c.y. overhaul; 6,000 c.y. structure excavation; 530 c.y. concrete in structures; 9,000' of 15" to 30" precast concrete pipe.

CANAL STABILIZATION (9-11) — Shoshone Project, Wyo. About 20 miles north of Cody, Wyo. Constructing berms on canal above Buck Springs Creek siphon. Project involves 25,000 c.y. excavation, removal of wood culverts and replacement with corrugated metal pipe culvert.

Completion time 75 days.

Bids to be called by project manager, Cody.

DRAINS (9-14)—Shoshone Project, Wyo. Near Powell, Wyo. Constructing 3.5 mile of closed drain, 1.1 mile of open drains, converting about 1.6 mile of open and closed drains.

Completion time 250 days.

Bids to be called by project manager, Cody, Wyo.

DRAINS (9-15)—Riverton Project, Wyo. About 25 miles north and west of Riverton, Wyo. Constructin 3.5 mile of 6" and 8" closed drains, 0.25 mile of open drains.

Completion time 210 days.

Bids to be called by project manager, Riverton, Wyo.

DEEPENING DRAINS, Block 43 (9-16)—Columbia Basin Project, Wash. Near Warden, Wash. Deepening drains, constructing about 14 miles of new drains including culverts and drain inlets.

Completion time to be determined.

Bids to be called by project manager, Ephrata, Wash.

BRIDGE (9-21) — Provo River Project, Utah. Near Hailstone, Utah. Clearing river channel, constructing a timber bridge and two heavy riprap overflow controls.

Quantities: 3,500 c.y. constructing embankments; 11,000 ton riprap; 300 c.y. structure excavation; 25 c.y. concrete; 36,000 fbm timber in structures.

Completion time 150 days.

Bids to be called by regional director, Salt Lake City, Utah.

HOUSING (9-30) — Michaud Flats Project, Idaho. Near American Falls, Idaho. Constructing two two-bedroom residences. Completion time 230 days.

Bids to be called late in September by regional director, Boise.

BID CALLS EXPECTED IN OCTOBER AND NOVEMBER

DAM MODIFICATIONS (9-33)—Shoshone Project, Wyo. Replacing upstream portion of the lower outlet works with a new intake shaft and tunnel equipped with bulkhead Plugging the existing intake tunnel under gate and hoist and trashrack structure. water. Rehabilitating the existing slide gates and replacing one existing 57" balanced valve with an 84" needle valve. Replacing trashracks on the penstock intakes with new metal intake wells with cylindrical trashracks. At Buffalo Bill Dam six miles west of Cody. Chief engineer, Denver, to issue invitations.

CANAL, DIVERSION DAM (9-35)—Rogue River Basin Project, Ore. Constructing 10.3 miles of open canal including 2.3 mile of 6'x3.75' rectangular reinforced concrete flume section, 7.5 miles of 2.2' bottom width canal line with unreinforced concrete and 0.5 mile of 48" precast concrete pipe siphon; constructing a small rockfill type diversion dam with reinforced concrete core wall, sluiceway and canal headworks and 1.65 miles of 24" bottom width canal lined with unreinforced concrete. Fifteen mies east of Ashland. Chief engineer, Denver to issue invitations.

PIPE LINES (9-38)—Weber Basin Project, Utah. Furnishing, laying about 21,000' of 24", 27", 30" precast concrete pressure pipe part of which will be steel cylinder type pipe with pretensioned reinforcement and constructing one concrete lined equalizing reservoir for Davis Aqueduct trunk lines. About 10 miles north of Salt Lake City. Chief engineer, Denver, will issue invitations.

LATERALS (9-39)—Columbia Basin Project, Wash. Earthwork, structures for about 50 miles of unlined open laterals, wasteways, drains with bottom widths varying from 12' to 2". Block 85, about five miles north of Smyrna. Chief engineer, Denver, to call bids.

LATERALS (9-40)—Columbia Basin Project, Wash. Constructing irrigation facilities to serve eight new farm units in Block 74 near Quincy. Project manager, Ephrata to issue invitations.

LATERAL TURNOUTS (9-42)—Columbia Basin Project, Wash. Constructing two CHO turnouts and one concrete check for farm units 30, 31, 40 in Block 15. Near Ephrata. Project manager, Ephrata will issue invitations.

CANAL, LATERAL LINING (9-44)—Riverton Project, Wyo. Furnishing and applying asphalt lining to several reaches of canals and laterals. Near Riverton. Project manager, Riverton, to issue invitations.

DRAINS (9-45)—Yakima Project, Wash. Constructing about 12 miles of surface drains near Kennewick. Regional director, Boise, Idaho to issue invitations.

DEEPENING DRAIN, WASTEWAY (9-47)—Columbia Basin Project, Wash. Deepening about 2.5 miles of DE 229 drain, extending two culverts, reconstructing about 12 drain inlets, deepening about one mile of EL31 wasteway, removing and reconstructing a county road bridge in Block 42, near Warden. Project manager, Ephrata, to issue invitations.

DEEPENING DRAINS (9-48)—Columbia Basin Project, Wash. Deepening 11 drains in Blocks 41 and 42, near Moses Lake. Project manager, Ephrata to isue invitations.

WELL (9-49)—Pine River Project, Utah. Drilling, casing 6" diameter domestic water well to depth of about 200'. Twenty miles northeast of Durango, Colo. Regional director, Salt Lake City, Utah to issue invitations.

POWER PLANT (9-50)—Missouri River Project, Wyo. Constructing Fremont Canyon Power Plant will include an indoor type reinforced concrete structure with a structural steel superstructure frame and concrete walls housing two 33,500 hp turbines and two generators. Also included will be three miles of lined tunnel, 18' in diameter with an inlet gate shaft, hoist house, trashracks and a surge tank near power plant with two steel penstock tunnels. About 35 miles southwest of Casper. Chief engineer, Denver to isue invitations.

PUMPING PLANTS (9-51)—Chief Joseph Dam Project, Wash. Constructing the three Brewster Pumping Plants will include one outdoor pier type plant with an approach single span bridge and with fish protection facilities which is to be located on the Columbia River and is to pump 50 cfs to the second plant, a booster plant, which is to be an indoor type plant with a reinforced concrete slab and a structural steel superstructure with metal roofing and siding and a traveling crane. The third plant, a relift plant, is to be an outdoor type plant with a reinforced concrete floor slab. Work will also include steel pipe discharge lines and a steel tank reservoir. Near Brewster. Chief engineer, Denver, to issue invitations.

PUMPING PLANT (9-25)—Weber Basin Project, Utah. Constructing the P2.8R Pumping Plant which is to have four outdoor horizontal booster units, two units having a total head of 225' and 9 cfs discharge and two units having a total head of 365' and 8 cfs discharge. The pumps are to be installed on a reinforced concrete slab. Southeast of Ogden. Chief engineer, Denver, to issue invitations.

ACCESS ROAD (9-56)—Missouri River Basin Project, Wyo. Constructing five miles of road including a 140' truss bridge for access to Fremont Canyon Power Plant on North Platte River, 40 miles southwest of Casper. Chief engineer, Denver, to issue invitations.

ROAD RELOCATION (9-57)—Deschutes Project, Ore. Relocating Haystack Reservoir county road. Regional director, Boise, Idaho, to isue invitations.

HOUSING (9-59)—Columbia Basin Project, Wash. Constructing one two-bedroom frame residence with full basement and garage complete with water and sewage facilities. Near Ringold Relift Pumping Plant in Block 19. Project manager, Ephrata to issue invitations.

Advertisements for Bids

Advertisements reaching us not later than Wednesday noon will appear the same week.

THE RATE for Advertisements for Bids is 35 cents per line for the first insertion; 25 cents per line for each insertion thereafter.

STATE HIGHWAY PROJECTS
BIDS CLOSE 9:30 A.M., SEPTEMBER 27
Helena, Montana
NOTICE TO CONTRACTORS

Sealed bids on the following projects will be received by the Montana Highway Commission at the offices of said Commission in the City of Helena until 9:30 A.M. on September 27, 1956. The proposals will be publicly opened and read immediately thereafter.

1. **F 76(5)U2**—Grade, gravel surfacing, bituminous surface treatment and construction of small drainage structures on 4.997 miles of the Gallatin Gateway-South Road in Gallatin County, Montana and Park County, Wyoming involving about; 468,188 cu. yds. excavation; 916 cu. yds. gravel backfill; 66,040 mi. yds. overhaul; 91,914 tons crushed gravel; 37,762 gals. liquid asphalt; 37,762 gals. emulsified asphalt; 8,812 M gals. watering; 1,537 units rolling; 2,774 lin. ft. corrugated metal pipe culverts; 818 lin. ft. structural plate pipe culverts; 240 hours blading work; 130 hours scraping work; 198 cu. yds. random riprap; and other items. Project to be completed in 300 calendar days.

2. **F 164(8)**—Grade, gravel surface, bituminous surface treatment and the construction of small drainage structures on 3.546 miles of the Porter's Corner Section of the Philipsburg-Anaconda Road in Granite County involving about 164,335 cu. yds. excavation; 116 cu. yds. gravel backfill; 11,670 mi. yds. overhaul; 59,469 tons crushed gravel; 23,605 gals. liquid asphalt; 23,605 gals. emulsified asphalt; 3,638 M gals. watering; 688 units rolling; 1,128 lin. ft. reinforced pipe culverts; 72 lin. ft. reinforced concrete stockpass; 288 lin. ft. corrugated metal pipe culverts; 7,982 lbs. reinforcing steel; 43.69 cu. yds. concrete; 650 MBM Headgate lumber; and other items. Project to be completed in 130 calendar days.

3. **F 175(4)**—Grade, gravel surface, bituminous surface treatment, construction of small drainage structures and the widening of one 63.4' steel and concrete bridge on 4.157 miles of the Philipsburg-South Road in Granite County involving about 179,354 cu. yds. excavation; 88 cu. yds gravel backfill; 77,710 mi. yds. overhaul; 91,508 tons crushed gravel; 30,129 gals. liquid asphalt; 30,193 gals. emulsified asphalt; 4,500 M gals. watering; 881 units rolling 1,760 lin. ft. reinforced concrete pipe culverts; 226 lin. ft. corrugated metal pipe culverts; 13,652 lbs. reinforcing steel; 22 cu. yds. class "A" concrete; 51.30 cu. yds. class "AD" concrete; 66.17 lin. ft. concrete curb and rail; all lump sum revision of existing structure and maintain traffic and other items. Project to be completed in 180 calendar days.

4. **F 196(5)**—Grade, gravel surfacing, road mix oiling, construction of small drainage structures and construction of two 38.0' treated timber bridges on 1.050 miles of the Browning East and West Road in Glacier County involving about 72,670 cu. yds. excavation; 28,539 mi. yds. overhaul; 17,445 tons crushed gravel; 30,712 gals. liquid asphalt; 1,403 M gals. watering; 240 units rolling; 1.050 miles processing; 258 lin. ft. corrugated metal pipe culverts; lump sum remove existing structures and maintain traffic; 45.400 MBM treated timber; 1.214 MBM untreated timber; 1,445 lin. ft. treated timber piles; and other items. Project to be completed by September 15, 1957.

5. **F 213(3)**—Construction of one 1317.5' steel and concrete bridge over the Yellowstone River on the Yellowstone River Bridge-Glendive Road at Glendive in Dawson County involving about all lump sum structural steel; 225,395 lbs. reinforcing steel;

4,416.7 cu. yds. concrete; 2,638.0 lin. ft. steel bridge rail; 47,700 lbs. furnishing steel bearing piles; 864 lin. ft. driving steel bearing piles; all lump sum test piles; 56 each floor-drains; all lump sum shoring and cribs; 5,675 cu. yds. structure excavation. Project to be completed by November 30, 1958.

6. F 245(10) and F 245(11)—Construction of a structural plate pipe arch culvert on the Glendive-Sidney Road, and grade, gravel surfacing, bituminous surface treatment and the construction of small drainage structures on 0.706 miles of the Glendive-Sidney Road in Richland County involving about 64,729 cu. yds. excavation; 451 cu. yds. gravel backfill; 9,438 cu. yds. designated borrow; 2,140 mi. yds. overhaul on designated borrow; 101 mi. yds. overhaul; 3,632 tons crushed gravel; 5,933 gals. liquid asphalt; 5,933 gals. emulsified asphalt; 1,300 M gals. watering; 225 units rolling; 1,070 lin. ft. corrugated metal pipe culverts; 328 lin. ft. haul and erect State furnished structural plate pipe culvert; and other items. Project to be completed by July 31, 1957.

7. US 370(8) and S-370(10)—Grade, gravel surfacing, seal coat oiling, plant mix oiling, and the construction of small drainage structures on 0.782 miles of the North Rouse Avenue—Bozeman section of the Bozeman-Wilsall Road in Gallatin County and the gravel surfacing, seal coat oiling and plant mix oiling on 2.890 miles of the Bozeman-Wilsall Road in Gallatin County involving about 7,331 cu. yds. excavation; 8,539 tons plant mix; 44,788 tons crushed gravel; 126,903 gals. asphalt cement; 30,551 gals. liquid asphalt; 1,365 M gals. watering; 380 units rolling; 546 lin. ft. corrugated metal pipe culverts; 337.5 lin. ft. steel guard rail; 11 each adjust manholes to grade; 2,201.1 sq. ft. galvanized metal bin type retaining wall; 400 cu. yds. gravel backfill; 50 hours mechanical tamping; 105 hours blading work; 75 hours scraping work; and other items. Project to be completed by September 15, 1957.

8. S 12(8)—Construction of one 88.0' treated timber pile bridge and approaches over Thirty Mile Creek on Smith Avenue between Water Street and Park Street within the City of Harlem on the Harlem-Turner-Canadian Line Road in Blaine County involving about 530 cu. yds. excavation; 3,227 cu. yds. designated borrow; 8,867 mi. yds. overhaul on designated borrow; 48 M gal. watering; all lump sum furnish and maintain facilities for watering; 192 lin. ft. corrugated metal pipe culverts; all lump sum remove existing structure and maintain traffic; 33.064 MBM treated timber; 1.315 MBM untreated timber; 1,320 lin. ft. treated timber piles; and other items. Project to be completed by June 30, 1957.

9. S 183(1)—Grade, gravel surfacing, one 38.0' treated timber bridge over Big Otter Creek and construction of small drainage structures on 7.073 miles of the Raynesford-South Road in Judith Basin County involving about 379,059 cu. yds. excavation; 489 cu. yds. backfill; 5,358 mi. yds. overhaul; 963 cu. yds. binder; 1,926 mi. yds. overhaul on binder; 42,352 tons crushed gravel; 6,449 M gal. watering; 205 units rolling; 3,744 lin. ft. reinforced concrete pipe culverts; 372 lin. ft. structural plate pipe stockpass; 16.264 MBM treated timber; 0.607 MBM untreated timber; 505 lin. ft. treated timber piles; and other items. Project to be completed in 200 calendar days.

10. S 286(4)—Grade, gravel surfacing and construction of small drainage structures on 10.437 miles of the Glasgow-Ophiem-Canadian Line Road in Valley County involving about 521,237 cu. yds. excavation; 487 cu. yds. gravel backfill; 52,960 mi. yds. overhaul; 12,543 tons selected borrow base course uncrushed; 66,191 tons crushed gravel; 1,566 cu. yds. binder; 3,132 mi. yds. overhaul on binder; 8,593 M gals. watering; 380 units rolling; 3,618 lin. ft. corrugated metal pipe culverts; 359 lin. ft. structural plate pipe culverts; and other items. Project to be completed in 180 calendar days.

The above listed quantities are approximate only.

All bid proposals shall be accompanied by a certified or cashier's check, cash, postal money order, bank money order, or bid bond in the amount of at least 5% of the bid. Should the successful bidder fail to enter into his contract and furnish a satisfactory performance bond within the time stated in his proposal, the bid deposit shall be forfeited to the State Highway Commission of Montana.

Prequalification of bidders at least 72 hours prior to the opening of bids is required.

Plans, specifications, forms of contract and bond, proposal blanks, and full instructions are on file for examination and may be obtained at the offices of the State Highway Commission in Helena, Montana. Plans and specifications for all Federal Aid Projects are also on file and may be examined in the office of the Bureau of Public Roads at Missoula.

Frank G. Connelly, Chairman
Scott P. Hart, State Highway Engineer
5617—9-15, 22

ELEMENTARY SCHOOL
BIDS CLOSE 8 P.M., SEPTEMBER 26
Seattle, Washington
NOTICE TO CONTRACTORS

Separate sealed proposals will be received by Shoreline School District No. 412, King County, Washington, at the Shoreline School District Office, East 158th Street and 20th Avenue N.E., Seattle 55, Washington, until 8:00 P.M., September 26, 1956, for the General, Mechanical, and Electrical contracts (separate contracts), for the construction of a new Echo Lake Elementary School, and the said proposals will then and there be publicly opened and read aloud. Bids received after the time set for opening cannot be considered.

Specifications and drawings may be examined at the office of the Architects, Jones and Bindon, 715 Hoge Building, Seattle 4, Washington, at the Seattle Chapter, Associated General Contractors of America, 215 West Harrison Street, Seattle, and at the Plan Bureau, 2413 Western Avenue, Seattle, and may be obtained at the Architects' office upon deposit of $25.00 for each set of general drawings and specifications and $15.00 for each set of mechanical or electrical drawings and specifications.

The full amount of deposit for one set of documents will be refunded to actual prime contract bidders, upon return of the docu-

When You Want Bids —

Architects and public officials charged with responsibility of getting competitive bids on construction projects have found for 53 years that our **CONSTRUCTION NEWS** publications provide the most effective and economical way through which to advertise for bids.

Year after year, more projects are advertised in CONSTRUCTION NEWS BULLETIN, in PACIFIC ARCHITECT AND BUILDER, and in PACIFIC BUILDER AND ENGINEER than in any other Northwest publications.

Rates are thirty-five cents per line for the first insertion; twenty-five cents per line for subsequent insertions. Copy received up to Wednesday noon reaches our readers the following Saturday.

PACIFIC ARCHITECT AND BUILDER
3rd Saturday of Each Month

PACIFIC BUILDER & ENGINEER
First Saturday of Each Month

CONSTRUCTION NEWS BULLETIN
2nd, 4th and 5th Saturdays

PACIFIC BUILDER & ENGINEER, INC., (MAin 0285) 2418 3RD AVENUE, SEATTLE 1, WASH.

ments, unmutilated and without marks or annotations, within one week after the date of the bid opening. Prime contract bidders requiring more than one set of documents and subcontract bidders desiring prints of drawings for their own use may obtain same by paying the actual cost of printing, which amount will not be refunded.

Each bid must be accompanied by a certified or bank cashier's check, or by a bid bond, each in an amount not less than 5% of the Base Bid, made payable to Shoreline School District No. 412, King County, Washington, bid bond must be furnished in the form set forth in the specifications with a State-licensed surety company as surety.

Attention of bidders is directed to State laws concerning wages, working hours, and other conditions of employment.

The Board of Directors reserves the right to reject any or all bids, and to waive informalities. No bidder may withdraw his bid after the hour set for the opening thereof, unless and until the award of contract has been delayed for a period exceeding forty-five (45) days.

By MYRON ERNST, Secretary,
Shoreline School District No. 412,
East 158th Street and 20th Ave. N.E.,
Seattle 55, Washington.

5610—9-6, 13, 20

STATE HIGHWAY PROJECTS

BIDS CLOSE 9 A.M., SEPTEMBER 27 and SEPTEMBER 28

Portland, Oregon

NOTICE TO CONTRACTORS

Sealed bids on the following projects will be received by the Oregon State Highway Commission in the Queens Room of the Imperial Hotel in Portland, Oregon, at 9:00 a.m. on Thursday, September 27, and at 9:00 a.m. on Friday, September 28, 1956.

BIDS TO BE OPENED AT 9:00 A.M. ON THURSDAY, SEPTEMBER 27, 1956

COLUMBIA COUNTY: North Fork Scappoose Creek Bridge on the Pittsburg-Scappoose Highway, 1.3 mi. north of Scappose. FAP No. S-77(6). Construct a 100' reinforced concrete deck girder bridge over the North Fork of Scappoose Creek Requires approx. 200 cu. yds. struc. excavation; 174 cu. yds. Class "A" concrete; 44,000 lbs. metal reinforcement; and 72 lin. ft. 8" metal drain pipe.

DESCHUTES COUNTY: East Unit, Fort Rock Road-Brothers Section of the Central Oregon Highway, about 28 mi. southeast of Bend. FAP No. F-147(12). 11.97 mi grading and paving. Requires approx. 49,400 cu. yds. borrow excavation; grading on equipment rental basis; 900 lin. ft. guardrail; 26,300 cu. yds. crushed base materials; 30,600 tons asphaltic concrete mixture; 1,840 tons 85-100 asphalt; 154 tons RS-1 asphalt; 140 tons RS-2 asphalt; and 106 tons 150-200 asphalt.

DOUGLAS COUNTY: Fords Bridge Unit, Myrtle Creek-Canyonville Section of the Pacific Highway, about 6 mi. south of Myrtle Creek. Federal Interstate Project No. I-78 (33). 1.23 mi. of paving. Requires approx. 372 cu. yds. concrete in islands and curbs; 8,700 lin. ft. guardrail; 3,200 lin. ft. median barrier; 29,000 cu. yds. crushed base materials; 80 tons RC-3 asphalt; 14,000 tons asphaltic concrete mixture; 840 tons 85-100 asphalt; 32 tons RS-1 asphalt; 60 tons RS-2 asphalt; 40 tons 150-200 asphalt; 800 rods Type 2 fence; and 35 rods median fence. This project may be bid in combination with the Fords Bridge-Canyonville Grading and Paving Project in Douglas County.

DOUGLAS COUNTY: Fords Bridge-Canyonville Unit, Myrtle Creek-Canyonville Section of the Pacific Highway, north from Canyonville. Federal Interstate Project No. I-78(32). 1.79 mi. grading and paving. Requires approx. 470,000 cu. yds. excavation; 1,125 cu. yds. concrete in box culverts, curbs and islands; 80,000 lbs. metal reinforcing; 10,500 lin. ft. guardrail; 61,000 cu. yds. crushed base materails; 140 tons RC-3 asphalt; 17,100 tons asphaltic concrete mixture; 1,000 tons 85-100 asphalt; 62 tons RS-1 asphalt; 80 tons RS-2 asphalt; 130 tons 150-200 asphalt; 800 rods Type 2 fence; and 820 rods Type 3 fence. This project may be bid in combination with the Fords Bridge Paving Project in Douglas County.

DOUGLAS COUNTY: Weaver Road Structures on the relocated section of Weaver Road near Myrtle Creek. Federal Interstate Projct No. I-78(31). Construct a 228' reinf. concrete deck girder grade separation structure over the relocated Pacific Highway and a 130' reinf. concrete deck girder grade separation structure over the S. P. Railroad tracks. Requires approx. 80 cu. yds. struc. excavation; 3,920 lin. ft. treated timber piling; furnish 1,000 lin. ft. steel pile shells; drive 20 steel pile shells; 700 cu. yds. Class "A" concrete; 160,000 lbs. metal reinf.; and 180 lin. ft. 8" metal drain pipe.

GRANT COUNTY: John Day Rock Production Project on the John Day and John Day-Burns Highways, near John Day. State Project. Requires approx. 7,000 cu. yds. crushed material in stock piles.

HOOD RIVER COUNTY: Viento State Park, 7.5 mi. west of Hood River. State Project. Construct two small latrines including septic tanks, sewer lines and disposal fields.

MARION COUNTY: Salem Storage Building. State Project. Construct a 36'x288' reinf. concrete storage building on State Highway Commission property at Salem.

MULTNOMAH COUNTY: Illumination Installation, N. E. 42nd Avenue-Troutdale Section of the T. H. Banfield Expressway in Portland. State Project. Requires approx. 115 steel street light poles; 121 mercury vapor luminaires; 20,000 lin. ft. of burial cable; and 121 mast arms.

UMATILLA COUNTY: Emigrant Hill-Deadmans Pass Section of the Old Oregon Trail Highway, about 15 mi. southeast of Pendleton. Federal Interstate Project No. I-62(10). 3.06 mi. of grading. Requires approx. 1,290,000 cu. yds. excavation; 340 cu. yds. concrete in box culverts; 68,000 lbs. metal reinf.; and 2,300 rods Type 1 fence.

UMATILLA COUNTY: Umatilla River Bridge on the Hinkle-Bucks Corner Section of the Hermiston Secondary Highway. FAP No. S-86(2). Construct a 310' reinf. concrete bridge over the Umatilla River. Requires approx. 470 cu. yds. struc. excavation; 3,300 lin. ft. untreated timber piling; 630 lin. ft. treated timber piling; 757 cu. yds. Class "A" concrete; 172,000 lbs. metal reinf.; and 30 lin. ft. 8" metal drain pipe.

WHEELER COUNTY: Parish Creek Unit, Spray-Waterman Section of the Spray-Waterman County Road, about 5 mi. south of Spray. FAP No. S-175(2). 3.12 mi. of grading. Requires approx. 73,000 cu. yds. excavation.

YAMHILL COUNTY: Whiteson Section of the Pacific Highway West, about 4 mi. south of McMinnville. FAP No. F-58(2). 0.50 mi. grading and paving; also construct 275' concrete and timber bridge. Requires approx. 24,000 cu. yds. excavation; 11,200 cu. yds. crushed base materials; 12 tons RC-3 asphalt; 1,800 tons asphaltic concrete pavement; 16 tons RS-2 asphalt; 16 tons 150-200 asphalt; 4,200 lin. ft. treated timber piling; 380 cu. yds. concrete; 120,000 lbs. metal reinforcing; and 40 M-FBM treated timber.

BIDS TO BE OPENED AT 9:00 A.M. ON FRIDAY, SEPTEMBER 28, 1956

CLACKAMAS COUNTY: Zigzag River Bridge on Clackamas County Road No. 820, approx. 2 mi. from Rhododendron. County Project. Bids for this project are being received on behalf of the county. Construct a 180' reinf. concrete bridge. Requires approx. 55 cu. yds. struct. excavation; 350 cu. yds. Class "A" concrete; and 100,000 lbs. metal reinforcement.

DOUGLAS COUNTY: Missouri Bottom-Canyonville Structures on the Myrtle Creek-Canyonville Section of the relocated Pacific Highway in Douglas County. Federal Interstate Project No. I(31) and I(32). Construct twin 144' reinf. concrete overcrossings of Irwin Road; a 234' reinf. concrete undercrossing of Chadwick Lane; a 241' reinf. concrete undercrossing of Riddle Road; and twin 588' reinf. concrete and steel bridges over the South Umpqua River at Missouri Bottom. Requires approx. 1,600 cu. yds. struct. excavation; 1,470 lin. ft. steel pile shell; 3,447 cu. yds. Class "A" concrete; 762,000 lbs. metal reinf.; 967,000 lbs. structural steel; and 360 lin. ft. 8" metal drain pipe.

DOUGLAS COUNTY: Tiller Maintenance Building State Project. Construct a 32'x82' masonry block building on State Highway Commission property at Tiller.

JACKSON COUNTY: Bybee Bridge (Rogue River) Section of the Table Rock Road, about 6 mi. northwest of Central Point. FAP No. ER-32(1). 0.19 mi. of embankment repair. Requires approx. 1,080 cu. yds. of rock riprap on roadbed slopes.

JOSEPHINE COUNTY: East and West Forks Illinois River Bridge Sections of the Redwood Highway, south from Cave Junction. FAP No. F-127(6). 2.26 mi. grading and paving. Requires approx. 210,000 cu. yds. excavation; 46 cu. yds. concrete in box culverts; 5,400 lbs. metal reinf.; 1,900 lin. ft. guardrail; 670 cu. yds. sacked aggregate-cement riprap; 27,500 cu. yds. crushed base materials; 66 tons RC-3 asphalt; 8,200 tons asphaltic concrete mixture; 490 tons 85-100 asphalt; 30 tons RS-1 asphalt; 30 tons RS-2 asphalt; and 60 tons 150-200 asphalt.

MARION COUNTY: Illahee-North Jefferson Junction Section of the Pacific Highway East, about 5 mi. south of Salem. Federal Interstate Project No. I-176(12). 2.33 mi. grading and paving. Requires approx. 227,000 cu. yds. excavation; 1,100 cu. yds. concrete in curbs, islands and box culverts; 113,400 lbs. metal reinf.; 60,700 cu. yds. crushed base materials; 130 tons RC-3 asphalt; 20,500 tons asphaltic concrete mixture; 1,230 tons 85-100 asphalt; 80 tons RS-2 asphalt; 300 tons 150-200 asphalt; 125 tons RS-1 asphalt; 1,400 rods Type 2 fence; and 6,200 lin. ft. median guardrail.

MULTNOMAH COUNTY: Structure, grading and stone base on the 37th Avenue-42nd Avenue Section of the T. H. Banfield Expressway in Portland. Federal Interstate Project No. I-323(20). Construct 0.36 mi. of roadway including stone base; also construct a 125' reinf. concrete box girder extension to existing Sandy Blvd. Viaduct; and a 450-foot "on-ramp" to the Banfield Expressway. Requires approx. 2,400 cu. yds. drainage excavation; 72,000 cu. yds. general excavation; disposal of 66,000 cu. yds. excess material; 4,700 lin. ft. various sizes of sewer pipe; 15,000 cu. yds. coarse crushed material in base; 350 tons Class "B" asphaltic concrete; 2,000 cu. yds. struct. excavation; 2,550 cu. yds. Class "A" concrete; 145 cu. yds. Class "A-A" concrete; 465,000 lbs. metal reinf.; all prestressing reinforcement and prestressing required; and 1,525 lin. ft. metal rail.

UMATILLA COUNTY: DELETED.

YAMHILL COUNTY: Structure, grading and stone base on the Yamhill River (Lafayette) Bridge Section of the Lafayette-South Road in Yamhill County. FAP No. S-329(1). Construct 0.17 mi. of roadbed, including stone base, and a 378' reinf. concrete and steel girder bridge across the Yamhill River. Requires approx. 39,700 cu. yds. loose riprap; 860 cu. yds. coarse crushed material in base; 450 cu. yds. structural excavation; 1,134 lin. ft. steel pile shells; 790 cu. yds. Class "A" concrete; 150,000 lbs. metal reinf.; 145,000 lbs. struct. steel; and 780 lin. ft. metal rail.

THE MINIMUM HOURLY WAGE PAID TO LABOR EMPLOYED ON FEDERAL INTERSTATE PROJECTS SHALL BE AS SET FORTH IN THE SPECIAL PROVISIONS APPLICABLE TO THOSE RESPECTIVE PROJECTS. THE MINIMUM HOURLY WAGE PAID TO LABOR EMPLOYED ON OTHER FEDERAL-AID PROJECTS SHALL BE AS FOLLOWS: SKILLED LABOR, $2.25 PER HOUR; INTERMEDIATE LABOR, $2.00 PER HOUR; UNSKILLED LABOR, $1.75 PER HOUR.

Prequalification of bidders will be required in accordance with the provisions of ORS 279.010 to 279.024, inclusive. Full information for bidders may be obtained at the office of the Oregon State Highway Commission, State Highway Building, Salem, Oregon. Plans and specifications may be inspected at the same place and may be obtained by eligible bidders upon payment of $2.00 for each set.

Plans and specifications may also be inspected at the office of the Associated General Contractors in Portland, Seattle, Spokane, and Boise; and at the Builders Exchange Cooperative, Portland.

The right is reserved to reject any and all proposals or to accept the proposal deemed best for the State of Oregon.

OREGON STATE HIGHWAY COMMISSION
by H. B. Glaisyer, Secrtary

5618—9-13



CONCRETE GIRDER BRIDGES

BIDS CLOSE 10 A. M., SEPTEMBER 21

Portland, Oregon

NOTICE TO CONTRACTORS

DEPARTMENT OF COMMERCE, BUREAU OF PUBLIC ROADS, September 7, 1956. SEALED BIDS will be received at the office of the Bureau of Public Roads, 753 Morgan Building, Portland, Oregon, mail address P. O. Box 3900, Portland, Oregon, until 10:00 o'clock A. M. on September 21, 1956, for furnishing the material and performing the work for constructing one 170-ft. and one 85-ft. Concrete Girder Bridges, Washington Forest Highway Project 13-A1, B1, D2, Unit 1, Randle-Yakima Highway, Silver Creek and Davis Creek Bridges, Gifford Pinchot National Forest, Lewis County, Washington, involving 565 Cu. Yds. Structure Excavation; 783 Cu. Yds. Concrete; 154,500 Lbs. Reinforcing Steel; and 476 Lin. Ft. Metal Hand Rail. Plans, specifications and proposals may be obtained at the office of the Bureau of Public Roads, 753 Morgan Building, Portland, Oregon. F. E. ANDREWS, Division Engineer. 5612—9-7, 8, 11

STATE HIGHWAY PROJECTS

BIDS CLOSE 10 A. M., SEPTEMBER 25

Olympia, Washington

NOTICE TO CONTRACTORS

Sealed bids will be received by the Washington State Highway Commission at Olympia, Washington, on Tuesday, September 25, 1956, until 10:00 A. M., for the construction of the following improvements and will then and there be opened and publicly read:

Bids for the following projects will be opened in the Conference room on the first floor of the General Administration Building located at Eleventh and Columbia Streets on the North edge of the capitol group, instead of in the board room of the Public Service Commission where bid openings are usually held.

1. Clearing, Draining, Grading and Constructing Two Reinforced Concrete Bridges on 0.857 mile of Primary State Highway No. 1 in Thurston County, CAPITOL LAKE BRIDGE TO BOUNDARY STREET, FAP No. I-001-2(36), involving about 45 acres of Clearing, 650,500 cubic yards of Common Excavation, 75,380 units of Overhaul, 96,170 cubic yards of Excavation of Unsuitable Foundation Material, 2,846 linear feet of Concrete Pipe, 4,327 linear feet of Corrugated Metal Pipe, 2,218 cubic yards of Concrete, 392,400 pounds of Steel Reinforcing Bars, 18,200 linear feet of Treated Timber Piling and other items. Minimum Wage Rates for this project have been predetermined as required by law and are set forth in the bid proposal.
2. Draining, Grading, Surfacing with Light Bituminous Surface Treatment and Constructing a Reinforced Concrete Slab Bridge on 6.028 miles of Primary State Highway No. 10 in Okanogan County, JANIS TO TONASKET, FAP No. F-029-2 (12) involving about 296,640 cubic yards of Common Excavation, 2,810 cubic yards of Solid Rock Excavation, 12,530 units of Overhaul, 57,750 tons of Selected Roadway Borrow, 37,960 tons of Crushed Stone Surfacing, Crushed Cover Stone and Crushed Screenings, 320 tons of Asphalt Cement, 878 linear feet of Precast Traffic Curb, 388 cubic yards of Concrete, 56,280 pounds of Steel Reinforcing Bars, 3,063 linear feet of Concrete Pipe, 259 linear feet of Corrugated Metal Pipe, 877 linear feet of Welded Steel Pipe, 1,346 linear feet of Beam Guard Rail, 77 Guide Posts, 1,900 cubic yards of Loose Riprap, a lump sum bid for Illuminated Terminal Nosing Assemblies and other items.
3. Draining, Grading and Surfacing with Light Bituminous Surface Treatment on 1.831 miles of Primary State Highway No. 10 in Okanogan County, RIVERSIDE VICINITY, FAP No. F-029-2(7), involving about 113,450 cubic yards of Common Excavation, 2,660 units of Overhaul, 20,115 tons of Crushed Stone Surfacing, Ballast and Crushed Cover Stone, 89 tons of Asphalt Cement, 1,470 linear feet of Concrete Pipe, 397 linear feet of Corrugated Metal Pipe and Pipe-Arch, 400 linear feet of Beam Guard Rail and other items.
4. Constructing Two Reinforced Concrete Box Girder Bridges on 0.071 mile of Primary State Highway No. 9 in Thurston County, N. P. RY. AND PERCIVAL CREEK OVERCROSSING, FAP No. F-FG-007-5(4), involving about 1,815 cubic yards of Structure Excavatiin, 2,277 cubic yards of Concrete, 1,498 linear feet of Reinforced Concrete Bridge Railing, 640,-000 pounds of Steel Reinforcing Bars, 36,000 pounds of Strurtural Steel and other items.
5. Constructing a Plate Girder Railway Bridge and Shoofly on Primary State Highway No. 1 in Thurston County, WEYERHAEUSER RAILWAY UNDERCROSSING, FAP No. IG-001-2(37), involving about 4 acres of Clearing, 16,430 cubic yards of Common Excavation, 500 cubic yards of Selected Roadway Borrow, a lump sum bid for Shoofly Trestle, 1,350 cubic yards of Structure Excavation, 610 cubic yards of Concrete, a lump sum bid for Structural Steel, 28,000 pounds of Steel Reinforcing Bars, 10.5 MBM of Treated Timber and Lumber and other items. Minimum Wage Rates for this project have been predetermined as required by law and are set forth in the bid proposal.
6. Constructing a Reinforced Concrete Box Girder and Slab Bridge on 0.125 mile on Primary State Highway No. 10 in Okanogan County, OKANOGAN RIVER BRIDGE, FAP No. F-FG-029-2(10), involving about 2,000 cubic yards of Structure Excavation, 2,300 cubic yards of Concrete, 505,000 pounds of Steel Reinforcing Bars, 6,400 pounds of Structural Steel, 6,600 linear feet of Timber Piling, 560 linear feet of Concrete Piling and other items.
7. Draining, Grading, Sprfacing with Light Bituminous Surface Treatment and Paving with Type I-1 Asphaltic Concrete on 1.483 miles of Primary State Highway No. 7 in Grant County, CITIES OF EPHRATA AND SOAP LAKE, FAP No. F-031-1(5), involving about 15,535 cubic yards of Common Excavation, 2,370 tons of Sand Filler, 26,490 tons of Crushed Stone Surfacing, Ballast, Crushed Cover Stone and Mineral Aggregate, 121 tons of Asphalt Cement, 7,845 tons of Asphaltic Concrete, 3,441 linear feet of Concrete Pipe, 88 linear feet of Corrugated Metal Pipe, 8,825 linear feet of Cement Concrete Curb, 6,417 linear feet of Precast Traffic Curb and other items.
8. Draining, Grading, Surfacing with Crushed Stone and Constructing a Reinforced Concrete Girder Bridge on 0.189 mile of Kittitas County Road, TANEUM CREEK BRIDGE, FAS No. S-0563(1), involving about 4,300 cubic yards of Unclassified Excavation, 750 cubic yards Crushed Stone Surfacing, 200 cubic yards of Loose Riprap, 153 cubic yards of Concrete, 42,000 pounds of Steel Reinforcing Bars and other items.
9. Removing an obstruction from the Columbia River ship channel on Primary State Highway No. 12 in Wahkiakum County, NASSA POINT VICINITY, a State Project, involving about 20,000 tons of Dredge Excavation.
10. Removing existing Duwamish River Bridge No. 1-K/3 on Secondary State Highway No. 1-K in King County, FIRST AVENUE SOUTH BRIDGE REMOVAL, a State Project, involving a lump sum bid for Removing Existing Steel Movable Span Bridge and Timber Approaches.
11. Jacking and Leveling Existing Slab Bridge Deck on Primary State Highway No. 1 in Cowlitz County, OWL CREEK BRIDGE No. 1/712, a State Project, involving a lump sum bid for Leveling Existing Bridge, 30 cubic yards of Crushed Stone Surfacing, 150 tons of Type I-1 Asphaltic Concrete and other items.
12. Constructing a Reinforced Concrete Slab Half Bridge on 0.014 mile of Primary State Highway No. 9 in Jefferson County EAGLEMOUNT HALF BRIDGE, a State Project, involving about 100 cubic yards of Structure Excavation, 57 cubic yards of Concrete, 73 linear feet of Beam Guard Rail, 13,750 pounds of Steel Reinforcing Bars, a lump sum bid for Loading and Hauling Steel Piling and other items.

Federal funds have been allocated for items Nos. 1 to 8 inclusive.

All bid proposals shall be accompanied by a bid proposal deposit in cash, certified check, cashier's check or surety bond in an amount equal to five per cent (5%) of the amount of such bid proposal. Should the successful bidder fail to enter into such contract and furnish satisfactory performance bond within the time stated in the specifications, the bid proposal deposit shall be forfeited to the State of Washington.

Prequalificaion of bidders is required. Maps, plans and specifications may be obtained from this office upon writtten request therefor and payment to the Director of Highways by cash, certified check, cashier's check or money order in the sum of two dollars ($2.00) for each copy of such maps, plans and specifications as a rental for the use of them. Plans will be forwarded by First Class Mail.

Informationl copies of maps, plans and specifications are on file in the office of the County Engineer of the County in which the work is situated, the Chapter offices of the Associated General Contractors of America in Seattle, Spokane, Tacoma and Portland and the offices of the District Engineers of the Department of Highways where they may be inspected.

E. C. HUNTLEY, Chairman
W. A. BUGGE, Director of Highways
5611—9-8, 15

TURBINE, GOVERNOR, INLET PIPE

BIDS CLOSE OCTOBER 25

Denver, Colorado

NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Invitation No. DS-4760) will be received at Denver, Colorado, until October 25, 1956, for furnishing one 23,500-horsepower, 600-rpm, vertical-shaft, multiple-jet, single-runner, impulse-type hydraulic turbine; one turbine governor; and one guard valve and inlet pipe for Green Springs Power Plant, Talent Division, Rogue River Basin Project, Oregon. Delivery is desired within 450 days. For particulars, address Bureau of Reclamation, Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner. 5606—9-15

PREFLIGHT FACILITIES MODERNIZATION

BIDS CLOSE 2 P. M., SEPTEMBER 27

Renton, Washington

NOTICE TO CONTRACTORS

Bids are hereby invited for installation and construction work for Phase II Preflight Modernization at Renton Field, Renton, Washington.

The work consists principally of mechanical and electrical utilities, including water, aircraft fuel, sewer, drainage, and electrical utilities, as well as earthwork, concrete and asphaltic paving, building and pavement demolition and new building construction work.

Bid, performance and payment bonds will be required. Further, unless the bidder has performed work for Boeing within the past two years, a duly certified current, (or latest available), financial statement will also be required. If the bidder has done no work for Boeing within the past four years a statement of experience will also be required in addition to the other documents specified above.

Bid documents are available for inspection at the Associated General Contractors of America, 215 West Harrison, Seattle, and 452 St. Helens Street, Tacoma; as well as at the Plan Bureau, 2413 Western Avenue, Seattle; and also at the issuing office listed below.

Request for copies of bid documents, by firms proposing to enter a prime bid or a major subcontract bid, should be directed to the office of Bouillon and Griffith, Professional Engineers, 1411 Fourth Avenue Building, Seattle, Washington. A $75 deposit will be required for each set of bid documents.

Bids will be received by Mr. C. L. Bisbee, Transport Division, Box 707, Renton, Washington, until 2:00 P. M., September 27, 1956. For site inspection, contact the Construction Engineer, Boeing Airplane Co., telephone Olive 3414, Extension 1807.

Bids will be opened privately. Each bid shall be deemed a firm offer for 30 days

after the date bids are opened and thereafter until withdrawn by a written notice received by Boeing. Boeing reserves the right to ward the contract to whomever it chooses, and may elect to reject any and all bids.

BOEING AIRPLANE COMPANY.
5609—9-6, 7, 8

STEAM HEATING PLANT ALTERATIONS
BIDS CLOSE 3 P.M., P.S.T., SEPTEMBER 18
Olympia, Washington
NOTICE TO CONTRACTORS

Sealed proposals will be received by the Director, Department of General Administration, General Administration Building, Room 218, Olympia, Washington, until 3:00 P.M., P.S.T., Tuesday, September 18, 1956, for Additions and Alterations to the Steam Heating Plants at Eastern State Hospital and at Lakeland Village, Medical Lake, Washington.

Drawings and specifications may be obtained from the office of H. Jack Reeves, Professional Engineer, Symons Building, Spokane, Washington.

The drawings, specifications and forms of contract documents, may be examined at the office of the Director, Department of General Administration, General Administration Building, Olympia, Washington, and at the office of H. Jack Reeves, Professional Engineer, Symons Building, Spokane, Washington.

A deposit of Twenty-Five Dollars ($25.00) per set for plans and specifications will be required from each bidder. This deposit will be returned to him upon the return of the drawings and specifications, in good condition, to the Engineer's office. The deposit check should be made payable to H. Jack Reeves.

The Director, Department of General Administration, reserves the right to reject any and all proposals and to waive informalities.

H. D. VAN EATON, Director
Department of General Administration
Olympia, Washington
5599—8-22, 29

BRIDGES, PAVING, ILLUMINATION SYSTEMS
BIDS CLOSE 10 A.M., OCTOBER 9
Olympia, Washington
NOTICE TO CONTRACTORS

Sealed bids will be received by the Washington State Highway Commission at Olympia, Washington, on Tuesday, October 9, 1956, until 10:00 A.M., for the construction of the following improvement and will then and there be opened and publicly read:

1. Clearing, Draining, Grading, Surfacing, Constructing a Cement Treated Base, Paving with Type I-1 Asphaltic Concrete, Relocating Government Installations, Installing Two Illumination Systems and Constructing Three Reinforced Concrete Rigid Frame Slab Bridges and a Steel Plate Girder Railway Bridge on 3.523 miles of Primary State Highway No. 1 in Pierce County, NISQUALLY TO NORTH FORT LEWIS, FAP No. IN-I-ING-001-3(14) Unit 2, involving about 86 acres of Clearing, 746,250 cubic yards of Common Excavation and Borrow, 43,650 cubic yards of Excavation of Unsuitable Material, 237,000 units of Overhaul, 52,500 tons of Gravel Surfacing, 24,850 tons of Ballast and Crushed Stone Surfacing, 404 tons of Asphalt Cement, 2,250 cubic yards of Crushed Cover Stone and Mineral Aggregate, 38,050 tons of Asphaltic Concrete, 7,170 barrels of Portland Cement, 46,100 tons of CTB Aggregate, 3,800 square yards of Cement Concrete Pavement, 9,547 linear feet of Asphaltic Shoulder Curb, 2,630 linear feet of Cement Concrete Gutter, 5,514 linear feet of Cement Concrete Curb and Gutter, 788 linear feet of Cement Concrete Curb, 6,209 linear feet of Concrete Pipe, 2,258 linear feet of Corrugated Metal Pipe, 3,979 linear feet of Sewer Pipe, 1,938 linear feet of Water Pipe, 2,578 linear feet of Beam Guard Rail, 154 Guide Posts, 1,700 square yards of Cement Concrete Sidewalk, 205 square yards of Asphaltic Concrete Sidewalk, 726 rods of Barbed Wire Fence, 8,636 linear feet of Chain Link Fence, 2 lump sum bids for Installation of Illumination Systems, a lump sum bid for Removing and Relocating Government Buildings, 2,108 cubic yards of Concrete, 307,220 pounds of Steel Reinforcing Bars, 642 linear feet of Aluminum Bridge Railing, a lump sum bid for Structural Steel and other items. Minimum Wage Rates for this project have been predetermined as required by law and are set forth in the bid proposal.

Federal funds have been allocated for item No. 1.

All bid proposals shall be accompanied by a bid proposal deposit in cash, certified check, cashier's check or surety bond in an amount equal to five per cent (5%) of the amount of such bid proposal. Should the successful bidder fail to enter into such contract and furnish satisfactory performance bond within the time stated in the specifications, the bid proposal deposit shall be forfeited to the State of Washington.

Prequalifications of bidders is required. Maps, plans and specifications may be obtained from this office upon written request therefor and payment to the Director of Highways by cash, certified check, cashier's check or money order in the sum of two dollars ($2.00) for each copy of such maps, plans and specifications as a rental for the use of them. Plans will be forwarded by First Class Mail.

Informational copies of maps, plans and specifications are on file in the office of the County Engineer of the County in which the work is situated, the Chapter offices of the Associated General Contractors of America in Seattle, Spokane, Tacoma and Portland and the offices of the District Engineers of the Department of Highways where they may be inspected.

E. C. HUNTLEY, Chairman
W. A. BUGGE, Director of Highways
5619—9-15, 22, 29

GRADING, FLOOD REPAIR
BIDS CLOSE 10 A.M., SEPTEMBER 20
Portland, Oregon
NOTICE TO CONTRACTORS

DEPARTMENT OF COMMERCE, BUREAU OF PUBLIC ROADS, September 6, 1956. SEALED BIDS will be received at the office of the Bureau of Public Roads 753 Morgan Building, Portland, Oregon, mail address P.O. Box 3900, Portland, Oregon, until 10:00 o'clock A.M. on September 20, 1956, for furnishing the material and performing the work for constructing 7.887 Miles Grading and 9.756 Miles Flood Repair, Oregon Timber Access Road Project BLM 83-A1,B, Galice Creek Road, Bureau of Land Management-Medford District, Josephine County, Oregon, involving 78 Acres Clearing; 53 Acres Grubbing; 519,250 Cu. Yds. Unclassified Excavation; 348,000 Sta. Yds. Overhaul; 4,610 Lin. Ft. Culvert Pipe, and other small items of work. Plans, specifications and proposals may be obtained at the office of the Bureau of Public Roads, 753 Morgan Building, Portland, Oregon. F. E. ANDREWS, Division Engineer.
5608—9-8

EARTHWORK, STRUCTURES
BIDS CLOSE OCTOBER 9
Ephrata, Washington
NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-4758) will be received at Ephrata, Washington, until October 9, 1956, for furnishing labor and materials for Earthwork and Structures for Block 79 Laterals and Wasteways, West Canal Laterals, Columbia Basin Project, Washington. Location near Quincy, Washington. Principal items are 325,000 cu. yds. excavation; 550 cu. yds. concrete in structures; 15,900 lin. ft. concrete pipe, 15- to 54-inch; 155 metal slide gates; and other work. To be completed by March 1, 1958. For particulars, address Bureau of Reclamation, P.O. Box 368, Ephrata, Washington; or Building 53, Denver Federal Center Denver 2, Colorado. W. A. Dexheimer, Commissioner.
5607—9-8

STEEL PIPE
BIDS CLOSE OCTOBER 9
Denver, Colorado
NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Invitation No. DS-4753) will be received at Denver, Colorado, until October 9, 1956, for furnishing one 51-inch steel outlet pipe; one 48-inch steel intake pipe; and other steel pipe, sizes 3-inch to 14-inch inclusive, for Casitas Dam, Ventura River Project, California. Delivery is desired within 360 days. For particulars, address Bureau of Reclamation, Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.
5602—9-8

CENTRIFUGAL PUMP
BIDS CLOSE OCTOBER 2
Denver, Colorado
NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Invitation No. DS-4755) will be received at Denver, Colorado, until October 2, 1956, for furnishing one vertical-shaft, double volute, centrifugal pump with regulating valve and connection piece, having an initial capacity of 75 cfs under 92 foot head, at a speed of 400 rpm, suitable for ultimate capacity of 100 cfs by replacing the impeller, for "C" Line Canal Pumping Plant Extension, Boise Project, Idaho. Delivery is desired within 200 days. For particulars, address Bureau of Reclamation, Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.
5603—9-8

BRIDGE SUPERSTRUCTURE, ROAD RELOCATION
BIDS CLOSE OCTOBER 2
Weaverville, California
NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-4751) will be received at Weaverville, California, until October 2 ,1956, for furnishing labor and materials for Trinity River Bridge Superstructure and County Road Relocation, Station 5#55 to Station 8#50 for Trinity Dam, Central Valley Project, California. Location near Lewiston, California, in Trinity County. Principal items are 235,000 lbs. furnishing and erecting structural steel; 290 cu. yds. concrete in bridge slab; and other work. Completion time 330 days. For particulars, address Bureau of Reclamation, Weaverville, California; or Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.
5593—8-25

DRAIN EXTENSIONS
BIDS CLOSE 10 A.M., P.S.T., SEPT. 18
Ephrata, Washington
NOTICE TO CONTRACTORS

UNITED STATES DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids, in single (Specifications No. 117C-389) will be received at the office of the Project Manager, Bureau of Reclamation, Project Office Building, Division and "C" Streets N.W., Ephrata, Washington, until 10:00 a.m., Pacific Standard Time, September 18, 1956, and then publicly opened for furnishing labor and materials and performing all work for construction of Deep Drain Extension Block 49. This work will include earthwork for approximately 2.6 miles of open drains and for approximately 0.6 mile of deepening existing wasteways; bottom width of sections vary from 2 to 4 feet; earthwork for and construction of structures along wasteways and drains, including road crossings and control drop; earthwork for and modification of an existing concrete drop structure; riprap and gravel bedding for cascade drop and gravel protection at the inlet and outlet ends of structures. Time allowed for completion will be 150 calendar days. For particulars address the Bureau of Reclamation, P. R. Nalder, Project Manager, Box 368, Ephrata, Washington.
5588—8-18

Library
30.5

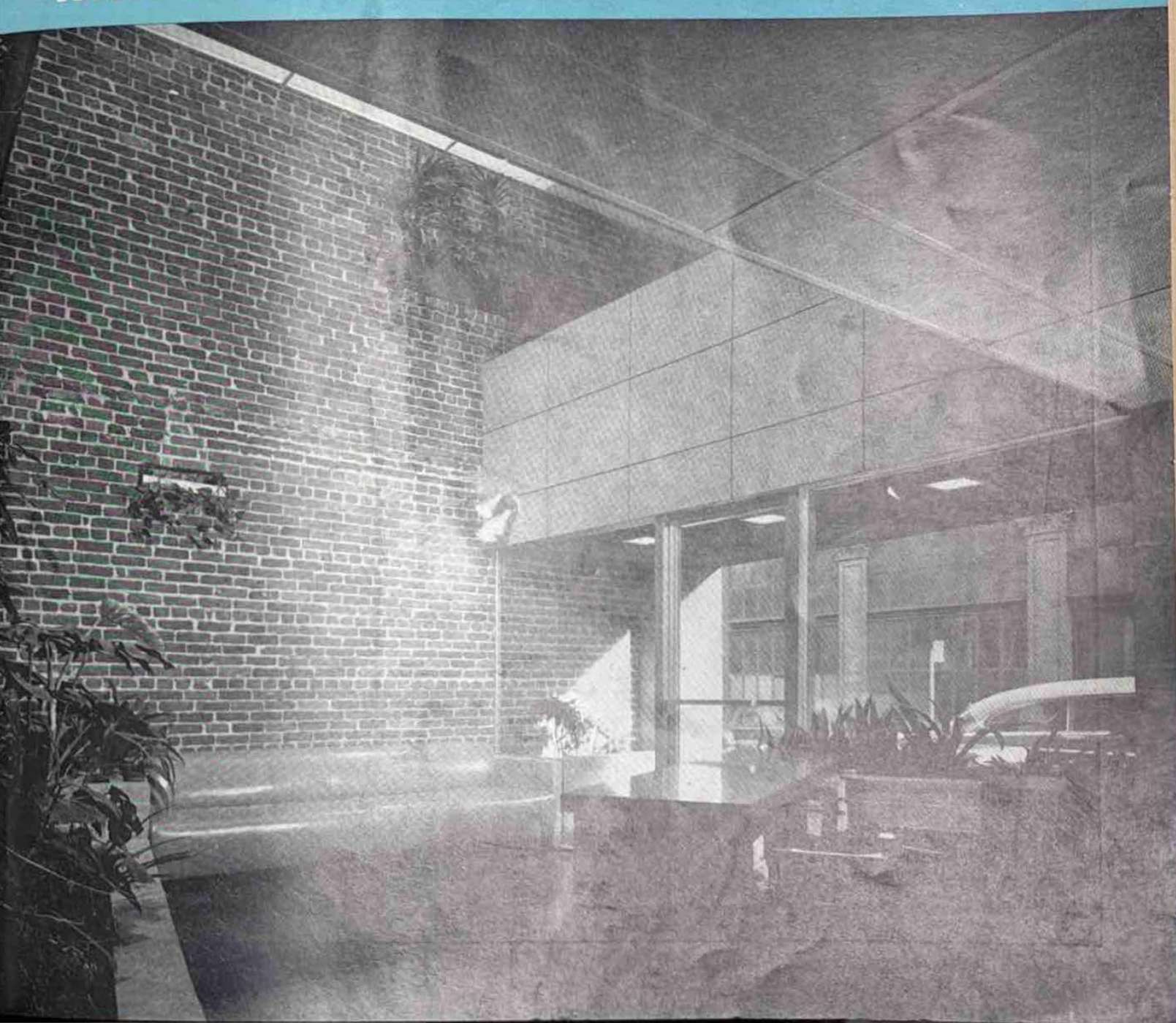
UNIVERSITY OF OREGON
DEC 6 1901
LIBRARY

Pacific Architect and Builder

SEPTEMBER BPA 1956

50¢

WITH CONSTRUCTION NEWS BULLETIN



see the man from Smoot-Holman first!...

...for the best in school, commercial and industrial lighting

No matter how difficult the illumination problem — the Smoot-Holman lighting expert is the **man to see!** Here is trained "know-how" backed by Smoot-Holman's modern plant facilities and quality lighting equipment.

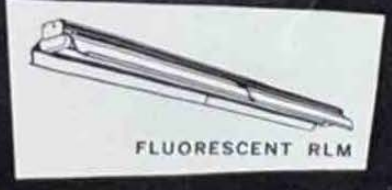
Call your local Smoot-Holman office or write direct. Ask to **see the man** from Smoot-Holman.

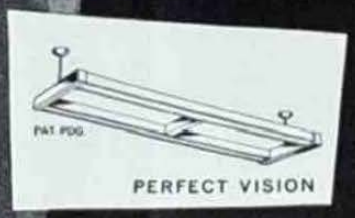

SKYLIKE


MASTER FLOOD


RECESSED TROFFER


EDUCATOR


FLUORESCENT RLM



PERFECT VISION


RLM DOME

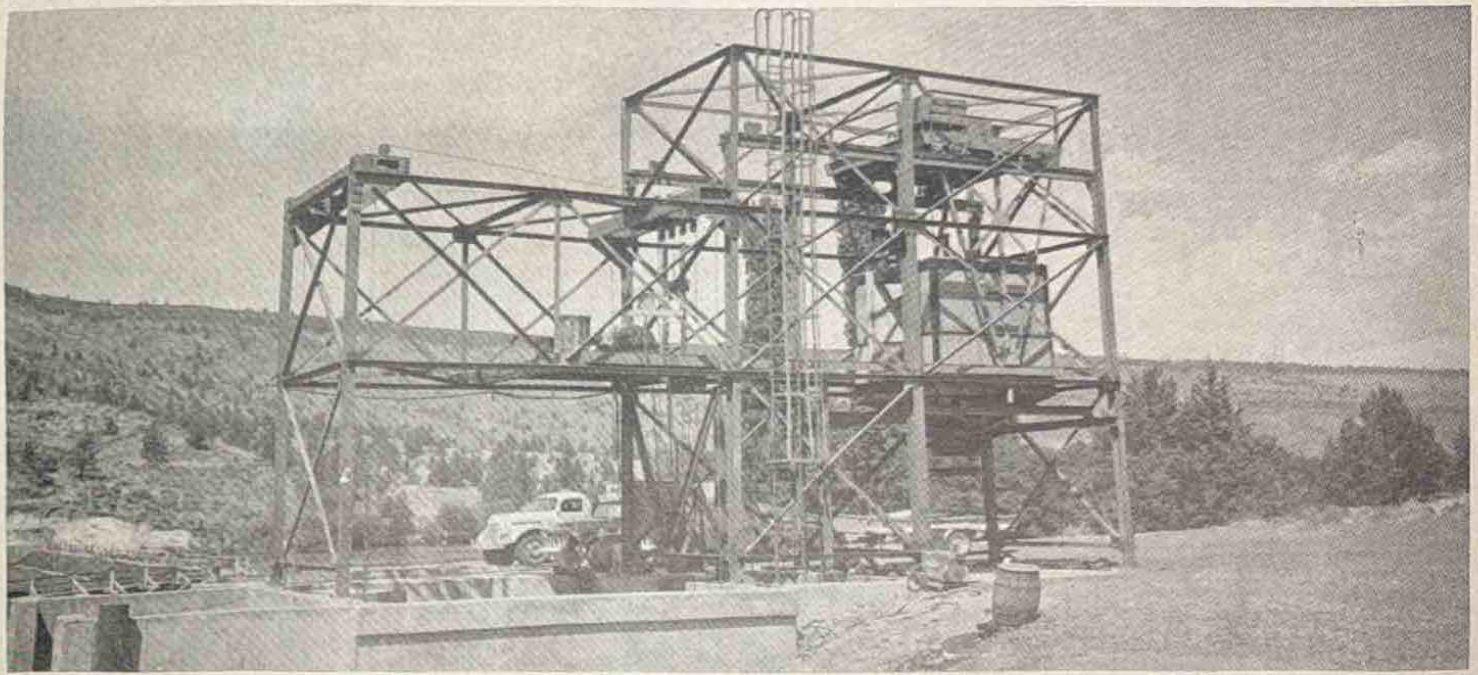
SMOOT-HOLMAN

INGLEWOOD, CALIFORNIA

We support the National Lighting Bureau

service in the west and southwest for all school, commercial and industrial lighting

ANOTHER EXAMPLE OF CARCO "one stop" STEEL SERVICE



FISH PASSAGE FACILITIES TO COST $5,000,000 AT PORTLAND GENERAL ELECTRIC'S PELTON PROJECT



In designing and developing the Pelton hydroelectric project on the Deschutes river near Madras, Oregon, the Portland General Electric Company has gone to unusual lengths to preserve commercial and sports fishing for present and future generations.

While the project is being built and until the permanent fish passage facilities are erected, a temporary fish elevator has just been completed. Upstream migrants enter a brail which is hoisted or elevated for dumping into a hopper which, in turn, is lifted and moved by a traveling crane for emptying into a transportation truck.

Eventually, about $5,000,000 of the $25,000,000 project cost will be spent on the fish elevator, the re-regulating dam, the fish ladder and other facilities to guide upstream and downstream salmon and steelhead migrants past the dam.

Pacific Car fabricated 30 tons of structural steel for the Pelton project's temporary fish elevator.

Let Carco help you with your structural steel problems. Pacific Car offers not only the largest fabricating facilities in the Northwest but also a "one-stop" steel service. This means money-saving ideas and suggestions, prompt engineering detail and estimates, fabrication and erection. Remember, no job is too large for Pacific Car's equipment and technical competence, nor too small to receive our interested attention.

Contractor:
Guy F. Atkinson Co.,
San Francisco

Engineers:
Ebasco Services, Inc.,
New York

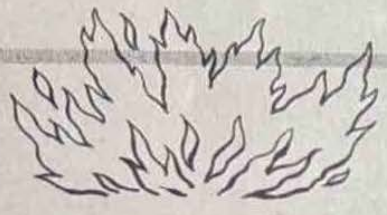
PACIFIC CAR AND FOUNDRY COMPANY

STRUCTURAL STEEL FABRICATION AND ERECTION, STEEL CASTINGS, FORGING, HEAT TREATING, MACHINING, HOT DIP GALVANIZING, TRACTOR EQUIPMENT: Winches, Hoists, Arches, Log Carts, Rigging.

CARCO®

STRUCTURAL STEEL DIVISION—120 W. HUDSON—SEATTLE 4—RAinier 5355 MAIN PLANT AND OFFICES—RENTON, WASHINGTON—OLive 4511

ONLY
PUMICE
(expanded by nature)
IS SO
FIRE
RESISTANT



Pumice is the *only* structural lightweight aggregate from which building blocks of standard wall thickness can be manufactured to meet all these rigid requirements: (1) Satisfy **ASTM** specifications for class "B" block, (2) Satisfy **FHA** requirements for "U" Factor of 0.25, (3) Satisfy **Underwriters Laboratories, Inc.** specifications for a *4-hour* fire wall block — and, at the same time, possesses the other desirable qualities of lightweight aggregates.

Natural expanded Pumice cuts construction costs, too. Free, complete technical data gladly sent upon request.

THE
CENTRAL OREGON
PUMICE COMPANY
125 Oregon Ave. • Bend, Oregon

A plea for design: *our very best*

A digest of an address presented by Robert Billsbrough Price at the Honor Awards banquet of the Oregon chapter, AIA, in Portland

DURING the past few years I have been very fortunate to be a guest and also to play host to a number of my colleagues, both in cities around the country and in my own city of Tacoma.

The most fascinating part of these meetings has been the exchange of ideas and to hear the various practitioners express their philosophy of architecture. However, more times than I care to count the discussion very quickly regresses to a discussion of details, client problems or how much of a financial loss the last project entailed. It is stimulating when the big approach is given: the problem (what the architect was attempting to accomplish) and finally his solution.

This facet of our complex work, I believe, is the very foundation of our professional existence. From the start of our scholastic training, all subjects are subordinate to the concept that the ability to create order, function and beauty in the fields of products, industry, building and planning is our biggest contribution to those we serve.

To realize a peak of design perfection is not a simple job, but rather one of a united and determined effort on the part of all connected with the project to give their very best.

It is my contention that one can not precisely and carefully isolate any one phase of the problem, such as design, mechanical, electrical, acoustical, landscape, sculpture and painting, from the others. Each draws strength and meaning from its relationship to the others. Each must be examined in its relationship to the others and to the whole.

To realize the very best from those participating within and without of the office, there must be a feeling of teamwork. Each participant must be made to feel that he is a real and vital part of those responsible. Any man entrusted with a phase of the work is worth listening to and given a chance to express himself. There should be in every office an atmosphere that is conducive to a free exchange of ideas.

When I hear the expression, "We are out of the design stage and are now on work drawings," it makes me boil. There is design in all phases of the job, down to the very problem of sheet composition and the cover layout for the specs. This feeling for perfection, this awareness for order and beauty, must be paramount in the minds of all participating.

There must be a leader but he should be so instilled with a desire to do his very best that it becomes contagious to all working with him.

At a recent lecture dealing with the subject of better acquainting the public with an architect's services, care was taken to call attention to complete plans, specifications, competitive bidding, supervision, etc.—but not one word of design, no mention of that attribute that takes the ordinary and makes something fine.

Every job should have your very best. And each job as it is approached should be with the mind that this will be our very best. I know what you are thinking: we can't because of program, budget or the client. These are not unsurmountable problems. If the program is unrealistic make it real; it's part of your work! From the program the breath of life is given to a piece of archtecture.

The budget—a very real problem but it can be solved if the architect approaches it in an understanding way with the client. A limited budget never forced an architect to use bad proportions or to be out of scale or do a poor parti, etc. Often a limited budget has stimulated the imagination and ingenuity of the designer to the point where a wonderful solution has been the result.

The client—I will grant you the client and his desires and attitudes has much to do with the success of any project. However, too often do we hear, "Oh, the client wouldn't let us do a good job." No client ever forced us to do a bad job. Far too often the architect will hide behind this type of talk as an excuse for prostituting the greatest contribution he can make.

If all these problems become too great, don't do the job. I know again you will say we have an obligation and a service to perform. However, your first obligation should be to those truths and ideals to which at one stage of our training we all dedicated ourselves.

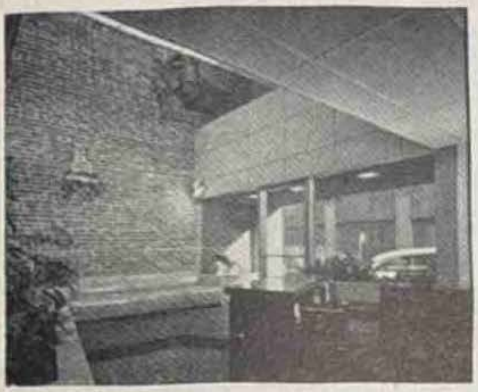
Every job that is executed in a poor or mediocre manner lowers the standard of the entire profession. If every job is treated as the most important commission in the office and given our very best, the results are bound to be good. And every job that is brilliantly conceived and executed adds stature to the architect as a group and to each and every member of the architectural profession.

Pacific Architect and Builder

SEPTEMBER EPA 1956

WITH CONSTRUCTION NEWS BULLETIN

VOLUME 62 NUMBER 9



Cover: Advertising department headquarters, San Francisco (p. 19). Bruce E. Heiser, AIA, architect; Moulin Studios photo.

Perspectives 6

Highlights—Trends—Views 7

T-square Talk 11

Letters 11

Building Permit Tabulation 22

Materials, Products, Tools and Latest Literature 24

Products in Action 26

Builders and Suppliers 30

Construction News 35

DESIGN AND THE LANDSCAPE — Excerpts from a paper presented at the sixth annual Design Conference in Aspen, Colo.—by GARRETT ECKBO 12

MODERNIZATION — Six projects which illustrate how remodeling and additions can change the character of existing and often outdated buildings.

David M. Johnson Residence: Entry Hall Serves as Fitting Transition—Tacoma, Wash. 14

Miramar Convention Center: Old Garage Becomes a Convention Hall—Santa Barbara, Calif. 15

Springfield Cleaners: Real Face Lifting for $5,750: Springfield, Ore. 17

Phil Youdene Co.: Drive-in Showroom for Fabrics: Seattle 18

Advertising Headquarters: Existing Red Brick Walls Offer Point of Departure: San Francisco 19

Pierre's: High-Style Patrons Shop in Remodeled Theater: Portland 20

SECTIONAL SHORING — Several new techniques to increase the versatility of the workhorse of modern concrete construction. 28

Covering California, Oregon, Washington, Idaho, Montana, Alaska and Hawaii—a $4 billion building market

SUBSCRIPTION RATES: Payable in advance. In U. S. and possessions, $4 for one year; Canadian, $5 for one year; Foreign, $6 for one year. Single copies, 50¢. Business news services also available are Pacific Construction Daily, Construction News Bulletin and Pacific Builder and Engineer.

PACIFIC ARCHITECT AND BUILDER is published monthly by Pacific Builder and Engineer, Inc., 2418 Third Ave., Seattle 1, Wash., and is mailed on the third Saturday of each month. Price: $4 per year. Acceptance under P.L.&R. 34.64 authorized.

Published by

Pacific Builder and Engineer, Inc. 2418 Third Ave., Seattle 1, Wash. Phone: MAin 0285

N. B. CHAPIN, President ROSCOE E. LAING, Manager

EDITORIAL STAFF: Robert E. Koehler, editor; D. F. McCormick, construction news editor; Anne Hecker, editorial assistant; Joan Storey, research assistant; Win Romtvedt (1109 S.W. Fourth Ave., Portland 4, Ore., CApitol 3-1229), Kenneth R. MacDonald (24 White St., San Francisco 9, Calif., GRaystone 4-8532), contributing editors.

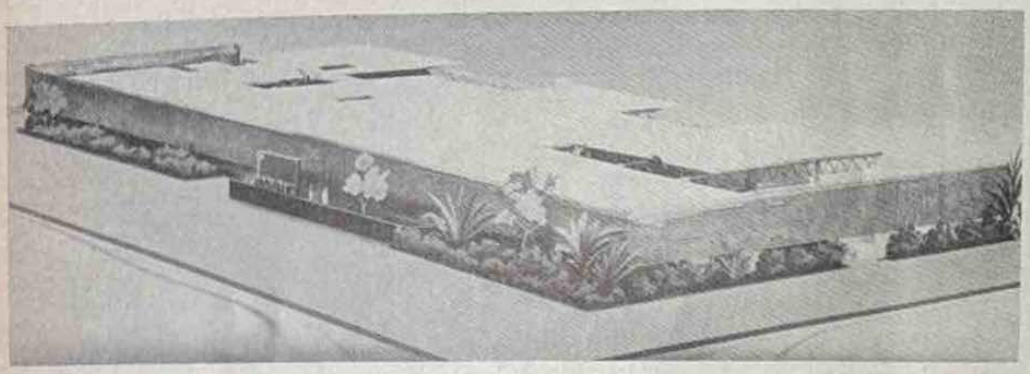
BUSINESS STAFF: L. C. McDowell, Paul N. Swanson, advertising; Phyllis Forth, production supervisor; Robert G. Hitchens, director of business services and circulation; F. S. Eggan, circulation manager; Alice Malloy, assistant circulation manager.



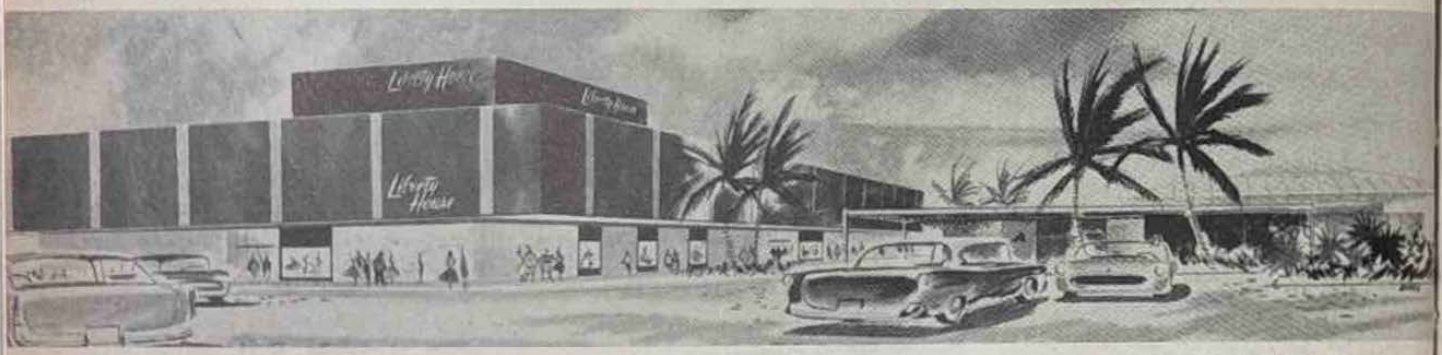
UNIVERSITY OF WASHINGTON TEACHING HOSPITAL in Seattle is shown at extreme left as it will ultimately look (except left-hand wing will have one less story) when added to Health Sciences Building. Contract awarded in May for 300-bed project provides contractor right to revert to 140-bed unit within 12-month period if sufficient funds are not available. Plans have been prepared by Naramore, Bain, Brady & Johanson, McClelland & Jones, associated architects.

PERSPECTIVES

by Pacific architects

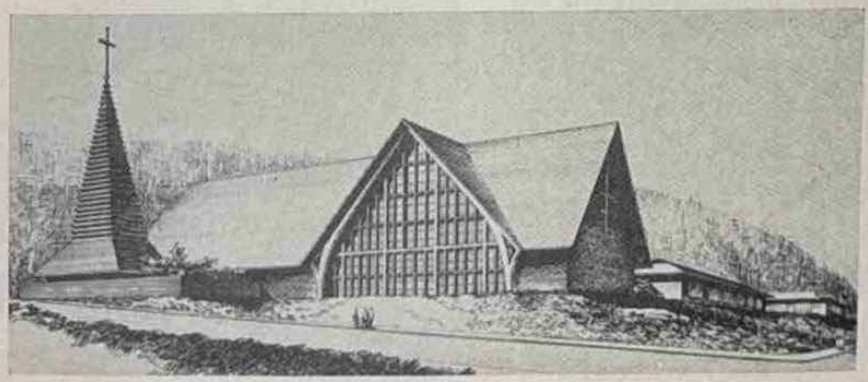


PERFORATED ALUMINUM SCREEN will envelope headquarters and research center for Adolph's, Ltd., in Burbank, Calif., enclosing landscaped areas and assuring privacy of all offices, yet allowing full use of natural light. Slated for completion early in 1957, block-long building will be constructed entirely of glass and steel. Design by Raphael S. Soriano, AIA, calls for flexibility of office arrangements since inside walls are non-supporting. Floors will be radiant heated.



HONOLULU'S FIRST full-scale suburban shopping center will become a reality when $3 million project is completed in fall of 1957. Liberty House Department Store and 35 other diversified tenancies covering 150,000 sq. ft. will be located in one-story, light steel building cluster with generous courtyards. Victor Gruen & Associates, who designed the original Liberty House store, are architects for new center.

FIRST METHODIST CHURCH in Portland is constructing sanctuary seating 800, two Sunday school buildings and administrative unit as first step in overall project consisting of series of structures grouped around private courtyards. Church will have brick walls, wood laminated arches, stained glass window facing east and clear glass window facing court. Other buildings will be of Douglas fir. Plans have been prepared by Stewart & Richardson.



Building News - Trends - Views

ARCHITECTS WILL TAKE A LONG LOOK at the role they play in California's growth and progress during their annual state convention October 10-14 at Yosemite National Park.

In his keynote address on Thursday, October 11, Dr. Stephen C. Pepper, chairman of the department of philosophy at the University of California, will speak on architecture as it relates to the world. He also will participate in the principal convention panel on the following day, which will include both architect and lay speakers.

Committees of the California Council of Architects, sponsoring organization, will hold open seminars on current developments in three types of buildings—homes, schools and hospitals. Two other committee seminars will deal with the architect's relations with the public and conduct of his office practice.

Other program highlights outlined by chairman William Corlett of San Francisco: the California-Nevada-Hawaii regional conference, AIA, led by director Donald Beach Kirby of San Francisco; business meeting of the State Board of Architectural Examiners; and a full schedule of social events starting with a reception Wednesday evening (registration day).

The Old Yosemite Lodge, directly across from convention headquarters in the new lodge buildings, will be occupied by the building products exhibition, limited this year to 55 because of space accomodations.

THE PARADE OF BIG BUSINESS MERGERS is led this month by Owens-Illinois Glass Co. and National Container Corp., whose directors have given the green light to the proposed consolidation.

SHORTAGE OF MORTGAGE MONEY is critical, says NAHB president Joseph B. Haverstick, who offers this advice to the 39,000 members: 1) Do not start construction or advance very far in project planning without written financing commitments for your long-term mortgage needs. 2) Keep production closely related to your sales volume. This is no time to risk either unsold or unfinished inventories. 3) If using warehousing, don't depend on extensions of warehousing agreements—they not be forthcoming. 4) Don't assume that the tight money market is temporary—because it may well get tighter. 5) If your profit margin has been squeezed down to the vanishing point (as many have), cut back your production instead of risking a loss from which you may never recover.

"Builder after builder is going out of business, converting to land development work, going into custom work or building a smaller number of conventionally financed expensive homes," Haverstick declares. "This is certainly not the way to house the great masses of our American people."

HOUSING HAS BEEN MAKING NEWS in other quarters too. Apartment house owners from across the nation who met for their 15th annual convention in Portland late last month were encouraged to cooperate in local programs to modernize and rehabilitate the "central cities" but to oppose "any form of public housing" . . . The counsel for the House subcommittee on housing goes to Hawaii this month to survey military and civilian housing needs on the islands. . . . Seattle and Los Angeles are among nine metropolitan areas for which data will be provided in the 1956 National Housing Inventory to be conducted by the Bureau of the Census beginning in December.

THE LOS ANGELES METROPOLITAN AREA is the third-ranking industrial center in the U.S. The Census of Manufacturers reports a 149.3% industrial increase from 1947 to 1954 in the area, forging ahead of Detroit and Philadelphia.

THE FRANK LLOYD WRIGHT ENDOWMENT FUND, a non-profit organization with offices in Chicago, will honor the architect of the proposed "cloudscraper," mile-high building to be erected on the shores of Lake Michigan near the Adler Planetarium, at a sponsored dinner in the Hotel Sherman October 17. Along with the food and an address by Wright, the guests will view an exhibit of writings, drawings and models covering his most important work during the past 65 years.

U. S. LUMBER PRODUCTION is holding steady at around 37 billion board feet annually, more than a third of the world's output.

THE TERRITORY OF ALASKA for the first time in its history is now empowered to bond itself up to the $20 million mark for public improvements. The bonding authority includes construction, alteration, equipping or acquiring all types of public buildings—schools, hospitals, colleges, offices, prisons—and other types of structures. It also provides for roads, water and sewer systems and similar public facilities.

NORTHWEST: ACCENTUATE THE REGIONAL

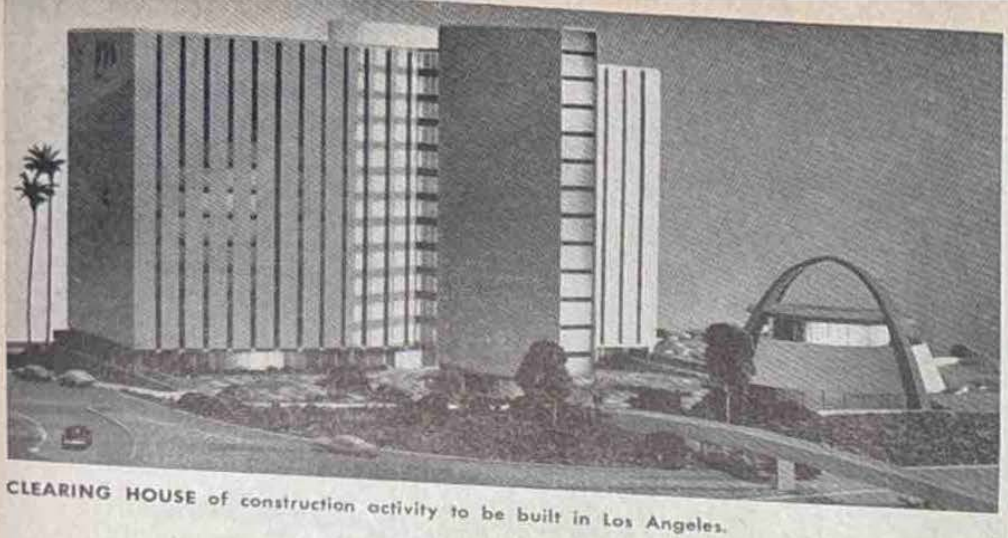
Winding up a most successful four-day conference in Tacoma September 9, the Northwest Regional Council, AIA, got a Sunday morning eye opener when delegates slapped the national institute on the wrist with a resolution which had almost unanimous approval. (PA&B for October will carry a complete report of the conference.) The original resolution, which would have proposed elimination of national conventions, was amended to put greater emphasis on regional conferences, including financial assistance, and to de-emphasize national meetings.

The delegates also gave full support to the architect-in-training program; and although no formal action was taken, they gave considerable discussion to the role of the AIA's public relations program. Nelson J. Morrison of the Southwest Washington host chapter was named as third member to the regional judiciary committee, with LaMonte J. Shorett of Washington State chapter as alternate.

DEAN OF TACOMA ARCHITECTS DIES

George Gove, FAIA, a leader in Tacoma architectural circles for the past half century, died August 31 at the age of 87. He was the last surviving member of the firm of Heath, Gove & Bell, which designed such projects as the Central School, Lincoln High School, First Baptist Church, Sixth Avenue Baptist Church, Central Lutheran Church and the Puget Sound Bank Building, all in Tacoma, as well as the Masonic Home in Zenith and the Northern Hospital in Sedro Woolley.

A native of Rochester, Minn., Mr. Gove came to Tacoma in 1908 following completion of architectural studies in Paris. He was a founder of the Tacoma Society of Architects nearly 40 years ago, a member of the Washington State chapter, AIA, since 1914 and elected to fellowship in the national institute in 1949. He served on the Washintgon Board of Examiners for Architecture for many years and helped to establish the Boys Ranch Home near Winlock.



CLEARING HOUSE of construction activity to be built in Los Angeles.

Los Angeles to get construction center

Ground was to have been broken this month for the $5 million, height-limit Construction Industry Center at the edge of Los Angeles' freeway network.

Sponsored by the 2,000 members of the Building Contractors Association of California, the center will draw together all segments of the industry into one giant headquarters when it is completed in the fall of 1957. It will include a 150,000-sq. ft., 13-floor office building, 13-floor elliptical exhibits tower, graphic arts center and tri-level parking facilities.

The center will house sales and administrative offices of product manufacturers, financial organizations, subdividers, architects, trade and professional associations. BCA president Ernani Bernardi says its completion will bring "realization of a dream we've always had for improving everybody's business with one clearing house of data and activity."

As designed by John C. Lindsay, AIA, the center plans call for dozens of features tailored to meet the needs of the construction industry, among them an expandable auditorium for sales and special events meetings. There will be facilities for closed circuit TV and the showing of sound motion pictures. Water, gas, electric and sewer outlets built in on the stage will facilitate live demonstrations for shows open to the public.

Included in the center will be a bank and a restaurant which will cater the monthly trade association meetings held elsewhere in the building. The roof garden will house the Greater Los Angeles Construction Club.

Office building construction will feature 10-ft. wall sections alternating with 36-in. glass panels, both running the full height of the structure and providing plenty of wall space for desk placement as well as natural lighting for each worker. Ceilings throughout are actually to be huge light panels with individual rheostats for increasing or diminishing light in any area.

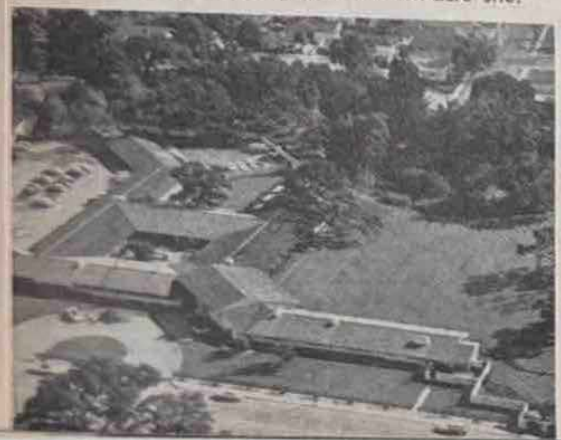
The permanent Tower of Exhibits—the core of which is to be the first all-glass elevator in America — will connect with the office building at each of the 13 floors by glass enclosed walkways and will provide a single dramatic showcase for the entire range of building products.

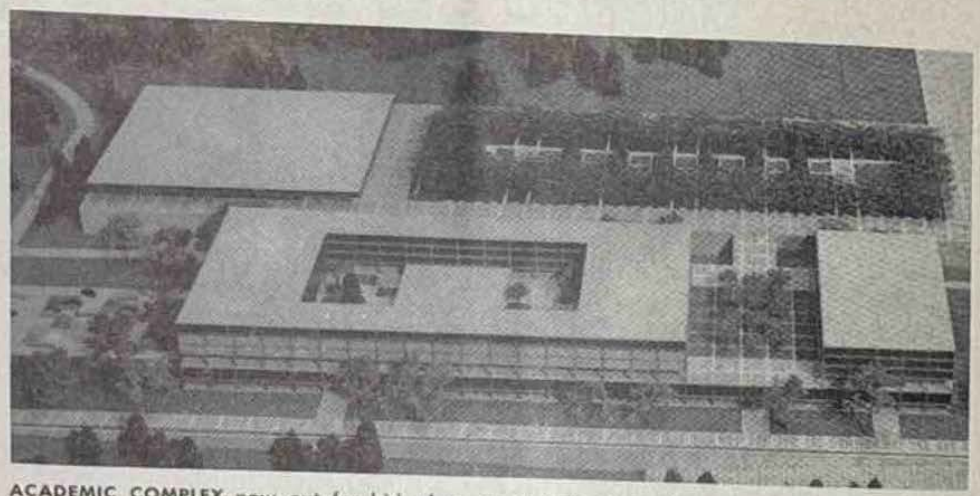
Landscaping award presented to Sunset headquarters

Built like a home but 25 times larger, the office headquarters building of Sunset magazine at Menlo Park, Calif., has been named only western winner in the third annual national "Plant America" competition for industrial landscaping, conducted by the American Association of Nurserymen. Thomas Church was landscape architect for the project, designed by Cliff May.

The ranch style structure is on a seven-acre site dotted with gardens and lawns. A 100-year-old olive tree grows beside a pond in the patio.

SUNSET HEADQUARTERS on seven-acre site.





ACADEMIC COMPLEX now out for bids does not include dining hall at upper left.

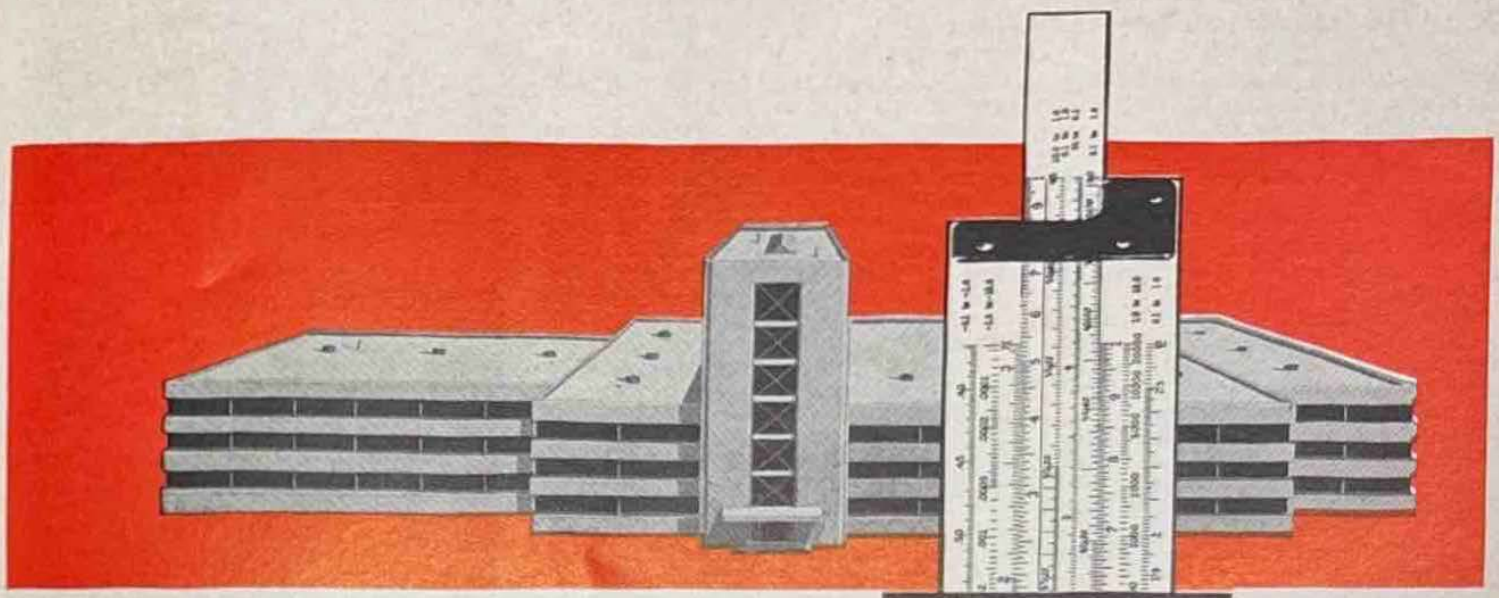
Air Force Academy to let first construction contract

With plans of all buildings, except the controversial chapel, now approved by Air Force Secretary Donald A. Quarles and his consultants, the Air Force Academy was scheduled to open bids this month on the first structure—the academic building.

Many details are yet to be worked out but the overall design of the academy near Colorado Springs, Colo., whose cost may hit $155 million, has been accepted.

Exterior wall enclosures of the academic building include these quantities: glass and aluminum, 118,000 sq. ft.; marble and aluminum, 38,000 sq. ft.; masonry and stucco, 25,000 sq. ft. Revised plans by Skidmore, Owings & Merrill, architects-engineers, have reduced the use of glass in exterior walls of all buildings.

The first contract calls for furnishing all materials except foundation caissons and structural steel.



ECONOMICAL
LIGHTWEIGHT
FIRE RESISTANT
MAINTENANCE FREE
EASILY ALTERED

THE PROOF OF THE ROOF

KAISER
STRUCTURAL GYPSUM
ROOF DECK

The Kaiser structural gypsum roof system is adaptable to curved or sloped, as well as to flat roofs. This offers maximum flexibility of design to the architect and engineer. The "plastic" nature of the system minimizes structural problems occurring at skylights, curbs, and other breaks in the roof plan.

Free flowing poured gypsum concrete sets rapidly into a light, strong, fire resistant roof. The undersurface of Kaiser Gypsum form board makes a clean, beautifully finished ceiling which requires no further treatment.

Kaiser Structural Gypsum Roof Deck system is particularly adaptable for use on commercial, industrial and institutional jobs. *For additional information and A.I.A. folder, write Kaiser Gypsum Company, Inc., 1924 Broadway, Oakland 12, California.*



KAISER GYPSUM
COMPANY, INC.
LONG BEACH · OAKLAND · ANTIOCH · SEATTLE

Two experimental houses for California

Eichler Homes X-100 is steel showcase

The Eichler Homes X-100 experimental house using light structural steel, designed by architects A. Quincy Jones and Frederick E. Emmons, is scheduled for public viewing this month.

Built in northern California at San Mateo Highlands, the all-steel Eichler home will not be offered as a production model. Instead it is being exhibited as a showcase of new ideas and new building materials as well as a preview of planning concepts that may be expected in merchant-built homes of a few years hence.

President Joseph L. Eichler, whose firm has built nearly 4,000 houses since 1946, has been a pioneer in contemporary design as applied to tract housing. His new X-100 is planned around an all exposed all-steel frame. No wall carries lateral or vertical loads and the 2,226 sq. ft. of enclosed living space are planned for maximum living.

All plumbing for the kitchen, laundry and bathrooms are contained in one central core and areas have been designed to flow into each other with complete integration of indoor and outdoor.

The house has only one hallway, between the bedrooms and the baths, and the entire space is devoted to living area, with three bedrooms, two baths, an all-purpose family room, living area, dining and kitchen related space and two special informal rooms.

In addition, there is an enclosed workshop of 84 sq. ft. adjacent to the carport and a large playyard for children just outside the bedroom wing. The covered carport serves as a second play area for children.

The exterior walls consist of three materials: special panels of high density overlaid plywood; panels of plastic with a honeycomb core; and steel framed sliding glass doors which form the skin of the house.

The plastic panels are used in areas where it is desirable for light to filter into the house but where privacy and insulation are also required.

The high density overlaid plywood panels, developed originally for use as pouring forms for concrete jobs, are 1-in. thick, as are the plastic panels. Sliding glass doors are used throughout with no other sash.

Exposed steel decking is used for interior ceilings; walls which serve only as boundaries for the spaces, rather than as structural units, may be altered according to changing family requirements.

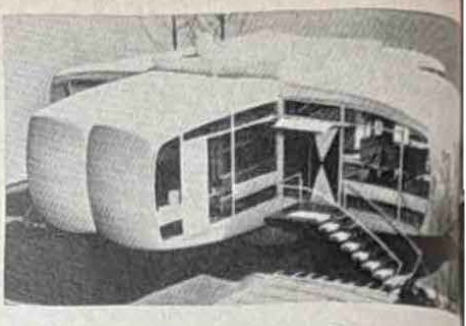
The latest built-in appliances for kitchen and laundry include new models in refrigeration, home freezers, wall ovens and cooking units which are an integral part of the dining table design.

Other members of the team constructing the new Eichler home include Douglas Baylis, landscape architect; Matt Kahn, artist; Knorr Interior Planners, interior designers; and Gump's, accessories.



ALL-STEEL HOUSE opens for public showing this month at San Mateo Highlands.





MONSANTO HOUSE set for Disneyland.

'House of Tomorrow'

Monsanto's "House of Tomorrow" will be built in Disneyland at Anaheim, Calif., with construction slated to start late this year.

Scheduled for completion early in 1957, the experimental house will demonstrate and test the use of plastics in home construction, the first test type model of its kind.

The novel design was created by architect Marvin Goody of Boston under the direction of Richard W. Hamilton, who heads a plastic research project sponsored by Monsanto at Massachusetts Institute of Technology.

It is based on a U-shaped molded unit, 8x16 ft., which forms part of a room's ceiling, wall and floor. In the simplest plan, eight molded units or modules are hung in pairs from a 16-ft.-square utility core to form four rooms, each 16x16 ft. The core contains kitchen, laundry and heating facilities and baths.

Several combinations of the components, including twin cores, make possible a variety of floor plans and great flexibility, comments R. C. Evans, director of marketing for Monsanto's plastics division. Rooms may be added or removed easily and economically to conform with the family's changing space needs.

The design, Evans says, is intended primarily to prove-out new architectural and engineering concepts utilizing the inherent properties of plastics and thus stimulate the use of plastics in achieving more satisfying ways of living five or ten years from now.

The design also will incorporate advanced methods of heating, ventilating, lighting, food preparations and preservation and plumbing. The use of movable and transparent walls and partitions will make the house suitable for the more leisurely indoor-outdoor living foreseen by economists and sociologists.

Evans emphasizes that while the "House of Tomorrow" lends itself to factory production, duplicates of it may not be available commercially, although many of its components or modifications may be. He adds that it was impossible now to estimate the cost of such a house or to say definitely how many or which plastics will be used in its construction.

Letters...

Civic Auditorium Competition

LOS ANGELES

Los Angeles, which has established itself as a leader in so many industries, has never been known as a center of architectural beauty. In fact, our city is often criticized for the heterogeneous collection of buildings known as our Civic Center.

As we approach the realization of the long-awaited Civic Auditorium, it seems inconceivable that we do not take advantage of a rare opportunity to establish ourselves also as leaders in architecture and city planning.

When the UN Building was under consideration, it was opened to an international competition, with Le Corbusier — one of the founders of modern architecture — participating and ultimately acting as consultant to the New York firm that received the assignment. This focused world-wide attention on both the building and the city of New York and the civic fathers are still receiving acclaim for having executed the UN headquarters in that fashion.

There is approximately $50 million at stake and the only proof that the money will be spent wisely and to the satisfaction of Los Angeles citizens lies in selecting the proper architect for the job. It is too great a risk to just be decided by a person or by a committee, which stands to be criticized from all angles if the completed auditorium is not architecturally acceptable. If, however, we poll, through a competition, leading architects of the country and the world, then the chances that the auditorium will be successful are greatly increased. The expenses of an architectural contest for preliminary sketches are negligible compared with the project.

We should not jeopardize this opportunity to make an important step forward in the progress of our city.

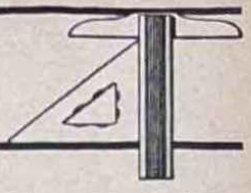
The convention of the American Institute of Architects held in Los Angeles this year adopted the resolution to suggest to federal, state or municipal public agencies that they consider the possibility of using competitions in selecting architects whenever feasible.

The best architectural talents in the country and the world should be invited. The auditorium project must be treated carefully because if badly done, it will draw more fire than our city needs at this point.

GEORGE DE MASIREVICH, AIA

T-square talk

about architects • planners • engineers



PLANE TRAGEDY: A body found at the mouth of the Eel River near Eureka, Calif., late last month was identified as that of Harold Farquar, 48, of Pleasant Hill, who only recently had joined a San Francisco architectural-engineering firm as educational consultant.

Farquar and his employer, Ernest Frederick Winkler, and a fellow employee, Clarence Fong of Berkeley, have been the objects of an intensive search since their light plane vanished on a flight from Eureka to San Rafael. Winkler's briefcase and a landing light and bucket seat apparently from their plane were washed up on beaches and found by Coast Guardsmen, who report that Winkler and Fong are assumed to have perished at sea.

DIED: Ralph Wycoff, president of the Central Coast Counties chapter, AIA, died in his sleep at the age of 73 at his San Jose home August 17. Wycoff, a native of Watsonville, practiced architecture throughout northern California before he moved to San Jose 34 years ago. He designed the San Jose post office building and several structures on the San Jose State College campus.

Fred F. Willson, AIA, of Bozeman, Mont., died August 13 at the age of 79. He was credited with designing almost all of the buildings in Yellowstone National Park except for this year's construction. He was one of the first students at Montana State College, which he attended for three years before being graduated from Columbia University in 1902.

J. Leigh McKenzie, 41, Portland architect who had started his own practice last year, died July 15, following a brief illness. During his 15 years' residence in Portland, he was employed in the offices of Lee Thomas, the Vancouver Housing Authority, and Edmundson & Kochendoerfer, with time out for service in World War II. He was graduated from the University of Oregon in 1938. Among the buildings which he designed were Sandy Junior High School in association with Donald W. Edmundson, a medical clinic at Gresham and Our Savior's Lutheran Church Sunday School addition at Oswego.

NEW PARTNERSHIP Walter W. Beeson, AIA, has become a partner in the firm of Henry Charles Burge and George W. Roach of La Canada, Calif., now known as Burge, Roach & Beeson. Formerly an associate in the firm of Daniel, Mann, Johnson & Mendenhall, Beeson was 1955 president of the Pasadena chapter, AIA.

SHARE OFFICES: New offices at 1328 S.W. 14th Ave., Portland, have been opened by William L. Fletcher, Donald Blair and John W. Reese, architects; Saul Zaik, designer; and Thomas A. Welch, contractor. The five young men, ranging in age from 29 to 36, are jointly occupying a pioneer house which has been remodeled. They will work independently but collaborate on larger projects.

Graduates of the University of Oregon, Fletcher, Blair, Reese and Zaik each has been associated with several Portland architectural firms. Reese also has been self-employed for the past three years. Welch, a University of Portland graduate, has been a general contractor for the past three years, specializing in the construction of four-plexes.

ON THE MOVE: The Seattle architectural firm of Steinhart, Theriault & Anderson now is located in its own new office building, designed by the partners, at Eastlake and Galer (EAst 3222).

Mary Alice Hutchins, AIA, who maintained her own office in Portland where she prepared specifications for various architectural firms, now is associated with Law & Wilson, Honolulu architects-engineers.

Warren Cummings Heylman, AIA, has moved to Suite 207, W. 1023 Riverside Ave., Spokane (RIverside 7-2550).

NAMED: Marshall Perrow, AIA, has been elected chairman of the Tacoma Planning Commission by his fellow members.

WINS COMPETITION: Ernest J. Kump, FAIA, architect and planning consultant with offices in Palo Alto, Calif., has been announced winner of an international competition for the design of two new planned communities to be constructed in Spain for the families of off-base personnel of the Joint United States Military Mission. The projects consist of complete communities to be developed in the suburban areas of Madrid and Zaragoza.

A fellow of the Royal Society of Arts, Kump recently was one of eight architects invited by the U.S. Department of State to participate in a closed competition for the new United States embassy to be built in London. He presently is designing the new embassy residence and staff housing in Seoul for the State Department.

Design and the landscape in which we live

Excerpts from a paper presented by the Los Angeles landscape architect at the sixth annual International Design Conference in Aspen, Colo. Garrett Eckbo also addressed the Northwest Regional Council, AIA, in Tacoma earlier this month and the national AIA convention in Los Angeles.

by GARRETT ECKBO

LANDSCAPE DESIGN is most successful when it produces recognizable units or continuities of outdoor space or volume, with special characters and proportions.

The definition of this space is accomplished by the placement of buildings, trees, ground forms, shrubs, rocks, water bodies, ground surface patterns, fences, walls and shelters in such a manner as not only to solve the technical and functional problems but also to impress the user or observer with the special quality of the space between and among these elements. This is the 3-D of landscape design, more important than patterns with flowers and paving, foundation planting, or pretty pictures out the windows, and inclusive of them. It is subject to endless variation in conception and execution, even as painting and sculpture, to which it is closely allied.

In the search for background and inspiration, the landscape architect must explore the world which is behind him in time and around him in space, the world of nature, the world of man and the new forms which the interaction of these two worlds can produce. Any rich rural countryside is an encyclopedia of forms and arrangements produced by the joint action of man and nature. History is important, but not in the old formal and informal copybook sense. The allied arts are important because each produces refinements and concepts which can inspire the landscape architect.

Architecture is important to landscape design because it is the primary expression in the landscape of human creativity and control of nature. It has a great tradition of bringing magnificent order out of manifold complexities, of putting great quantities of highly variable members and elements together in such a way that the result has a new and special identity, greater than the mere accumulation of parts. At best it represents the highest levels of human imagination, the broadest connection between abstract conception and concrete reality, the greatest steps toward production of a completely humanized environment. The fact that our communities generally fail to make use of this potential should not obscure its importance.

Nature is important to landscape design because it is the world of forces and processes within which we live and work, the world of which man and all his works are an inextricable part, no matter how broad the contradiction may become between his efforts to control nature and to preserve her. Although very often landscape design has to defend nature against the destructive attacks of man, its true constructive role is the establishment of connections, relations and adjustments, both physical and visual, between building sites and their surrounding landscapes, that is, between people and the total landscape around them. This means that in general landscape design must work with forms and materials derived from **both** the specific structures with which it works, and the specific sites and landscapes around them; or from **both** architecture and nature.

It is in the combination and interrelation of these diverse forces, in many complex patterns ranging from complete integration to complete contrast, that the vitality of the art lies. It is thus an art of continuity, of connections, of relations to existing forces, more than an art of pure and original conception, as architecture. Neither the Renaissance idea of forcing architecture on nature nor the romantic idea of forcing nature on architecture can solve our problems today.

Society is important to landscape design because it presents problems for solution and opportunities for production. The humanized landscape is the expression of social forces on the world of nature. For thousands of years landscape design officially solved problems for a small minority of the population — private parks, estates, villas, palaces. Central Park in New York initiated a new and unprecedented phase of landscape design in which the general public became the client.

The fact that these new park problems were solved largely with forms developed by the romantic movement in the 18th century should not obscure the importance of their impact upon the general landscape. There has been an increasing, and gradually accelerating, democratization of design processes since then. The private estate is no longer the only problem which the landscape architect will deign to touch. A whole new school of design has grown up in California around the problem of the small middle class garden. A large proportion of landscape graduates go into public service. Irrespective of the quality of work produced, the potential of these facts is for a broad improvement in the quality of the general landscape in which we all live. An unprecedented world situation in which general war has become impossible, in which we must choose between coexistence or no existence, impels us toward an unprecedented concentration upon the arts of peace.

With all this background, the primary sources of landscape inspiration lie in specifics: the specific character of the individual site, the specific nature of the people involved, the specific nature of the materials available and the specific possibilities for creation of outdoor space.

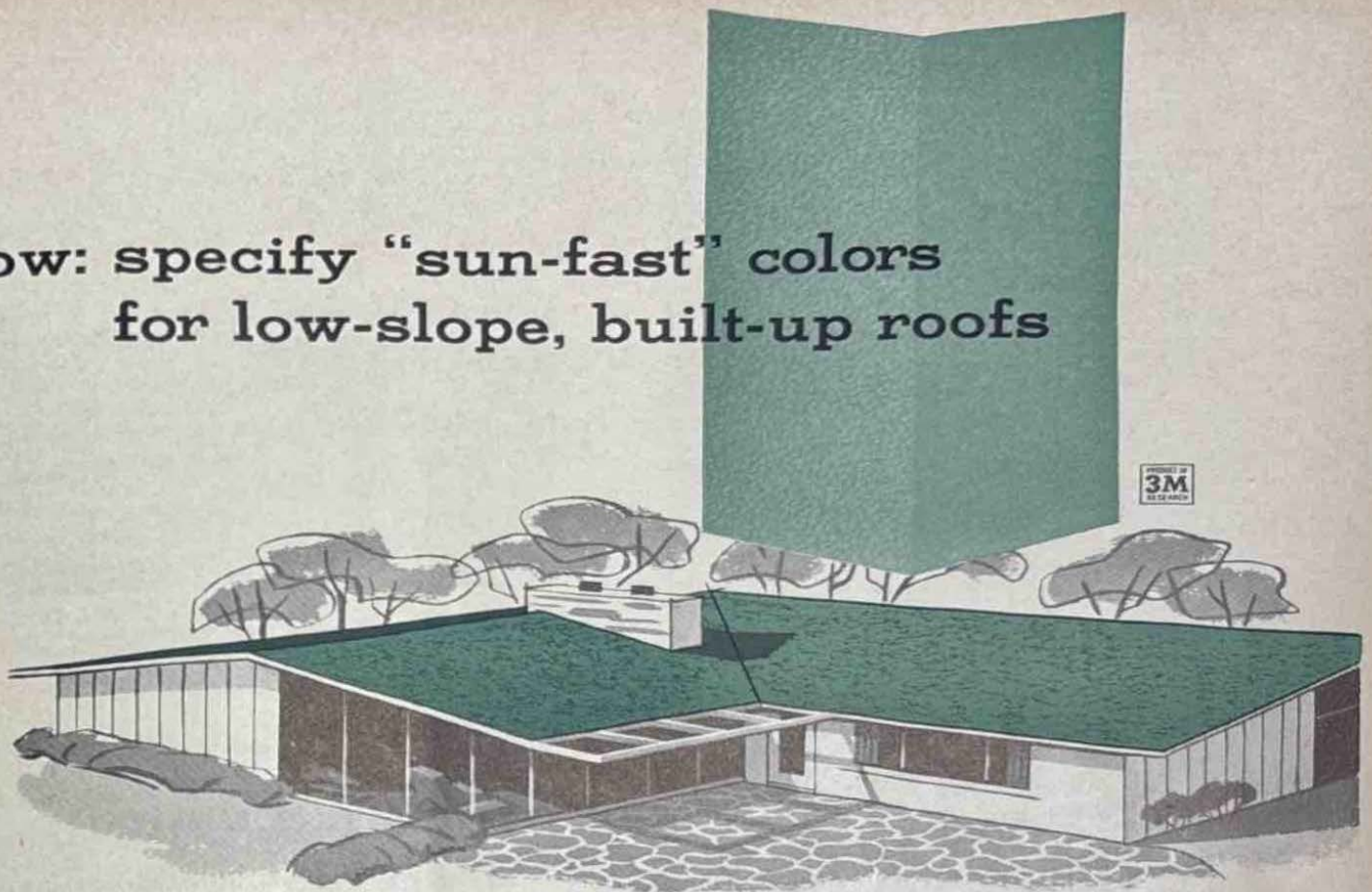
Typical landscape problems today are: small, medium and large gardens; estates; schools, hospitals, churches, clubs, community centers; shopping centers, colleges and universities, public building complexes; parks—small, medium, large. These can be boiled down to typical groups: private gardens, public grounds, parks and public recreation spaces.

Private gardens make up a large part of the total area of humanized landscape, are greatly variable in the detailed relations between house and site, the broad and intricate play of individualized creativity, personal expression by choice and whimsy, family life, and the range from visual pleasure through outdoor living to active gardening, from utility gardens through living gardens to show gardens. They also involve the greatest concentration on detailed humanized scale and intimate livability. It might also be said that the majority of private yards never become gardens in the sense of these words.

Public grounds are front yards whether for houses or city halls. They are spaces to look into rather than

Continued on page 33

Now: specify "sun-fast" colors for low-slope, built-up roofs



3M's new coarse aggregate roofing stones offer lasting beauty and protection in 8 beautiful colors

Here is a brand-new color-styling opportunity for you. 3M Brand Ceramic-Color Stone offers beauty *and* lasting protection — opens up an entirely new field of decorating possibilities because you may select from 8 color-fast shades! Colors are "fired on" by the same special process used in making 3M Roofing Granules . . . supplied to the building trades for over 30 years.

Special treatments developed by 3M Research make 3M Brand Ceramic-Color Stone dust-free and "sun-fast" — with maximum adhesion to asphalt. The material will not strip, roll or wash away leaving bare, unsightly patches. Stones are durable, uniformly graded, dense, fully opaque to provide complete protection against damaging ultra-violet rays.

The pebble-sized stones pack tightly on roof-tops . . . create the appearance of depth and ruggedness with a built-in shadow effect. 3M Brand Ceramic-Color Stone is shipped *dust-free* in 100 lb. bags. All colors available from a single source.

LOOK AT THE COLORS

DARK GREEN	CR16	RED	CR22
BRONZE	CR49	CORAL	CR29
BROWN	CR41	LIGHT GREEN	CR17
BLUE	CR87	SILVERTONE	CR95

3M BRAND

CERAMIC-COLOR STONE

Manufactured at Little Rock, Ark. and Corona, Calif.

Made in U.S.A. by Minnesota Mining and Mfg. Co. General Offices: St. Paul 6, Minn. In Canada: P.O. Box 757, London, Ontario. Export Sales Office: 99 Park Avenue, New York City.

SEND TODAY FOR SAMPLES!

Minnesota Mining and Mfg. Co.
Dept. OC-96, St. Paul 6, Minn.

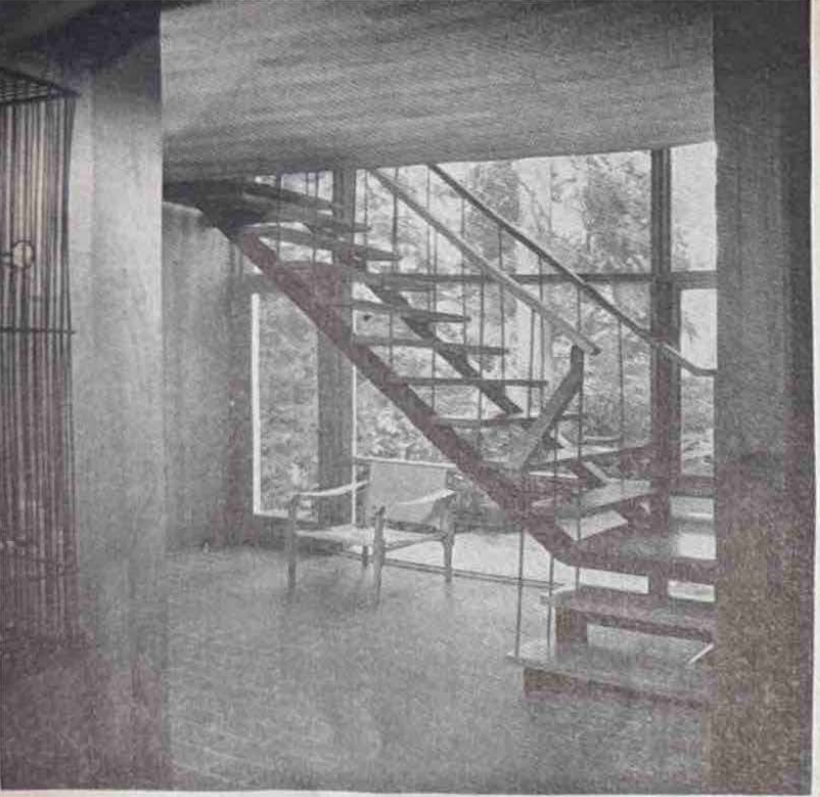
- ☐ Send me FREE sample box of 3M Brand Ceramic-Color Stone
- ☐ Send me FREE booklet on 3M Brand Ceramic-Color Stone
- ☐ Send me name of Distributor nearest me.

NAME _____ TITLE _____

COMPANY _____

ADDRESS _____

CITY _____ ZONE ____ STATE _____



Charles R. Pearson Photo

Addition to David M. Johnson Residence
Gravelly Lake, Washington

ALAN LIDDLE, AIA, Architect

ALLEN HAMPTON, Contractor



CONTINUATION of existing roof lines and use of same type rough boards help to blend addition at left end of house with original structure. Inside, generous entry hall ties old and new portions together.

Entry hall serves as fitting transition

A GENEROUS ENTRY HALL served as the matchmaker in the marriage of an existing World War I house with a contemporary addition.

The clients wished to retain certain desirable features of the original house, among them large rooms and a two-story living room with a massive stone fireplace under the balcony leading to the bedrooms; they did not want to continue the dark wood paneling and small windows into the new addition.

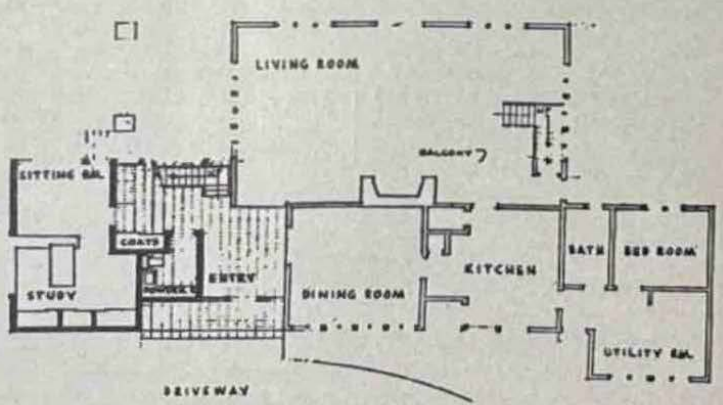
To maintain unity, the architect continued the lines of the existing roof and used the same type rough boards for the exterior siding, painted to match.

One of the main requirements was an ample entry hall, since access to the old house was directly into the living room from the front porch. Its focal point is an open stairway, built with steel stringers and mahogany risers. It seems to float in front of a two-story window which provides a view of woods and Gravelly Lake. The hall is covered with quarry tile to accommodate the heavy traffic; the walls and ceiling are paneled with golden stained oak flooring.

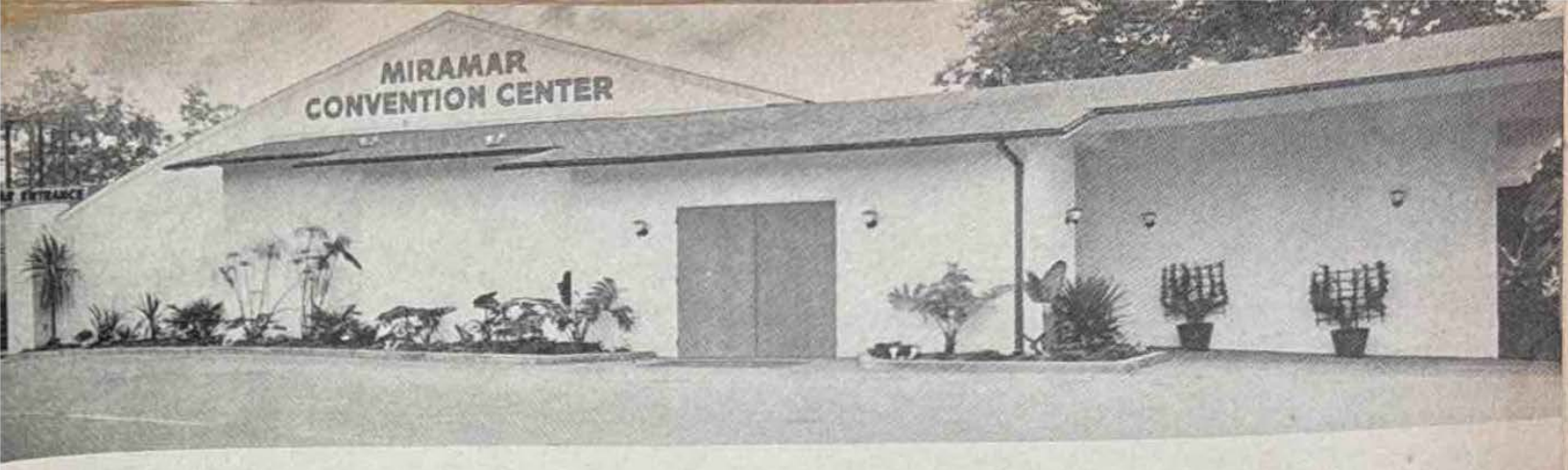
A powder room for guests and a combination study-sitting room, which doubles as an office, is off the entry. Upstairs is a master bedroom with floor-to-ceiling windows overlooking the trees and the lake. The hall connects with the existing balcony, from which the children's bedrooms are reached.

OUTLINE SPECIFICATIONS
(Addition)

Type of Construction: Frame.
Exterior Walls: Painted cedar.
Roof: Shingled.
Windows: Stopped in wood.
Doors. Wood slab, both inside and out; Pella wood folding doors.
Floors: Frame covered with quarry tile.
Interior Walls: Sheetrock and painted wood trim on drywall partitions. Oak flooring in entry.
Ceilings: Oak flooring in entry.
Stairway: Mahogany risers mounted on steel stringers.
Date of Completion: June 1954.



ADDITIONS TO FIRST FLOOR PLAN are indicated by heavier lines.



Old garage becomes a convention hall

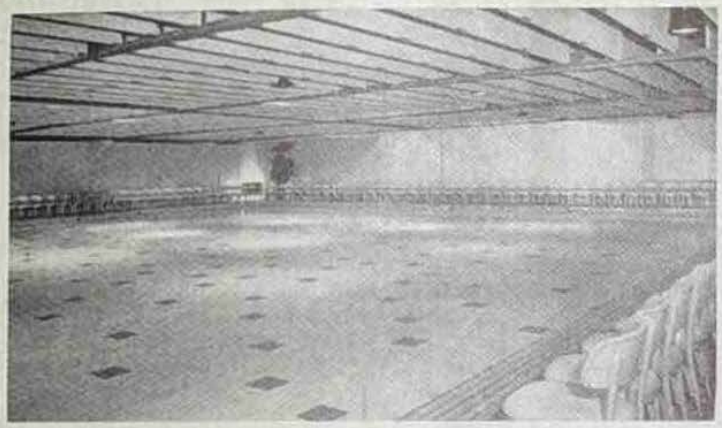
Miramar Convention Center
Santa Barbara, California

LUTAH MARIA RIGGS, AIA, Architect

PETER DAVISON & SONS, General Contractors



GOLD ROOM (right) is ideal for meetings or banquet groups up to 130. All furniture is movable. With two stand-up bars, it also is used as registration lobby and for private parties. Fiberglass baffle arrangement in ceiling provides good acoustics for Miramar Room (below). It has capacity of 575 diners, can be used as exhibition hall.



THE MIRAMAR HOTEL, with its own private ocean beach, swimming pool, tennis courts and 200 rooms, had everything any organization could want for a successful convention — except an adequate meeting hall. The owners felt that such a hall could be obtained by using the former garage.

When the architect completed her assignment, the raw steel girders, corrugated sheet iron roof and blackened concrete floor had been converted to an ultra-modern structure with two huge rooms seating more than 700 diners under one roof and with table-free room for more than 1,000 attending meetings. The Miramar Room (5,500 sq. ft.) and the Gold Room (1,500 sq. ft.) are separated by doors and extensive use of soundproofing.

The convention center is in a steel frame building with outside walls of masonry. The concrete slab floor is covered with asphalt tile and carpeting.

The 6-in. steel basement girders supporting the floor joists and those from the ceiling struts to the roof were covered with fireproof plaster. The roof itself is the sheet iron that covered the garage, but building and fire regulations called for extra measures when the conversion took place. The roof's inner surface was coated with insulation and its top covered with plywood sheets, then a generous sheathing of insulation and a covering of asphalt shingles, painted blue in keeping with the resort's overall color scheme.

The ceiling joists of the first floor are independent of the second floor and the area between has been soundproofed. The second floor ceilings are of exposed beams, with 2-in. solid sheathing.

Fireproofed steel trusses span the 75 ft. of the building and in between each truss are suspended acoustic

OUTLINE SPECIFICATIONS

Type of Construction (original building): Steel frame, 105x78 ft.
Exterior Walls: Masonry.
Roof: Original corrugated sheet iron covered with plywood sheets, 1-in. insulation and painted asphalt shingles.
Floors: Concrete slab covered with asphalt tile and carpeting.
Ceilings: Painted acoustical plaster, Gold Room; acoustical baffles, 24 in. high and 14 in. long, spaced at 24 in. on centers, suspended between fireproof steel trusses in Miramar Room.
Lighting: Each light on separate rheostat, providing combinations of illumination on center and sides of each room.
Special Equipment: Flexible loud speaker system installed by B. E. Harberts Co. to connect eight microphones, FM and standard broadcast receivers and three-speed phonograph; fully equipped banquet kitchen with three specially designed refrigerators; two stand-up cocktail bars.
Total Cost: $200,000.

Convention Center

baffles, 24 in. high and 14 ft. long, spaced at 24 in. on centers.

A giant air conditioning and heating system installed in the basement adjusts the temperature inside the hall to changes caused by body heat of large crowds.

The center has a completely flexible loud speaker system, using 1,150 ft. of wiring to connect eight microphones, FM and standard broadcast receivers and a three-speed phonograph. Each of the two rooms has eight microphone jacks.

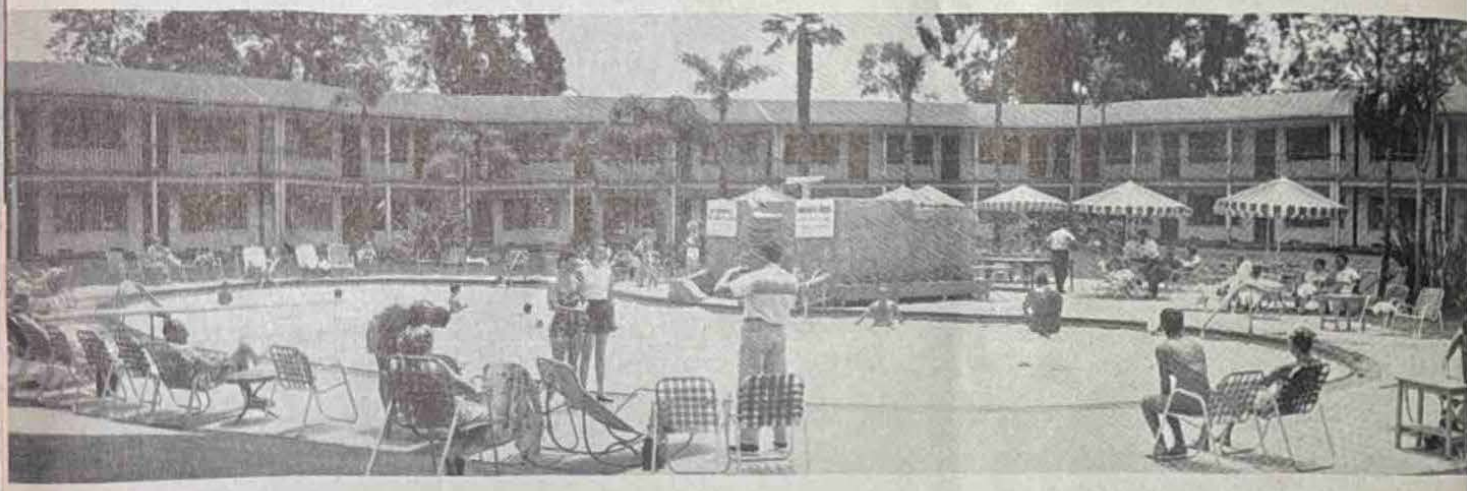
The lighting system provides combinations of illumination on the center and at the sides of each room. Each light is on a separate rheostat and the interior may be dimmed or brightened by twisting a knob on the switch panel.

Picture molds were installed on all walls for convention displays and all doors are wide enough for a 1½-ton truck to drive directly onto the hall floor for display purposes.

The Miramar Room, on three sides, has raised platforms covered with carpeting and designed for seating sideline audiences at auto shows, dances, etc. The Gold Room has wall-to-wall carpeting in a deep piled woolen fabric and green luxury lounge type furniture. The high-sound absorption plastered walls are used as background for original paintings by Santa Barbara artists.

Both rooms are served by a $35,000 high-speed banquet kitchen equipped to accommodate 575 diners in the Miramar Room and 130 in the Gold Room. It has three king-size specially designed refrigerators with racks to hold foods which are prepared in advance of banquets. The kitchen also is equipped with a battery of service carts, each with a 100-plate capacity and with an electric cord which is plugged to an outlet on reaching the dining room to keep food hot for an hour. Using these carts the Miramar can serve 475 steak dinners in 18 minutes flat.

The convention center can be operated by a crew of 90 which is capable of handling 700 diners and clearing the hall within 30 minutes after dinner has been completed.



Miramar Hotel Addition

Besides the convention center, the expansion and modernization program at the Miramar has added 47 new bedroom units, a $300,000 project designed and built by the same architect and general contractor. The motel type units form a semicircle around the swimming pool and look out on the Pacific Ocean at the rear. The front windows also frame the Santa Ynez Mountains.

The rooms are insulated against sound in all four walls, ceiling and floor. Windows, for example, are double panes of glass, set in felt. Built-in dressing tables and mahogany wardrobes are featured in each room; baths have built-in pullmans with tile tops.

MAJORITY OF POOLSIDE BEDROOMS are triples in that they have set of twin beds plus one full-size duo-studio bed. Each room, 16x23 ft., has ceiling-to-floor double-thickness drapes and three original water colors of Santa Barbara scenes.







Tom Burns Jr.

Springfield Cleaners
Springfield, Oregon

DONALD H. LUTES
Architect

F. D. HOLLISTER
General Contractor

Real face lifting for $5,750

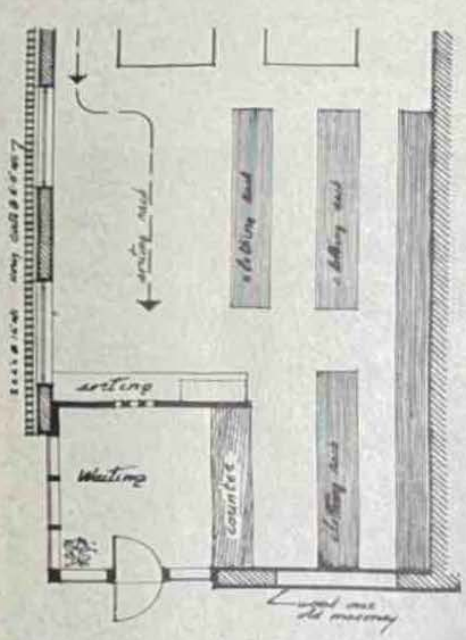
THE CLIENT DESIRED that 1) his cleaning establishment be opened up for better light on his wares and 2) additional clean clothes storage be provided. In accomplishing these two objectives, the architect hoped to make the building—originally Springfield's first bank with 12-in. masonry walls—specifically more indigenous to the lumbering town environment and generally more attractive. That he was successful is reflected in part by the fact that business increased 6% last year while other cleaners in the city were down in sales.

The first requirement was met by knocking out the corner of the structure and replacing it with glass. The designer did this with full recognition of the southwest sun problem, feeling that the added openness as a form of advertising justified some draping or screening a few months of the year. The glass is carried all the way up to the roof joists, then drops down at the sign to the existing ceiling joist level.

Relocation of the entry not only met the second requirement but afforded a more visible reception area. A full-length partition screens the sorting area, and three small windows (blue glass for one-way vision) allow the sorters to see customer as they enter.

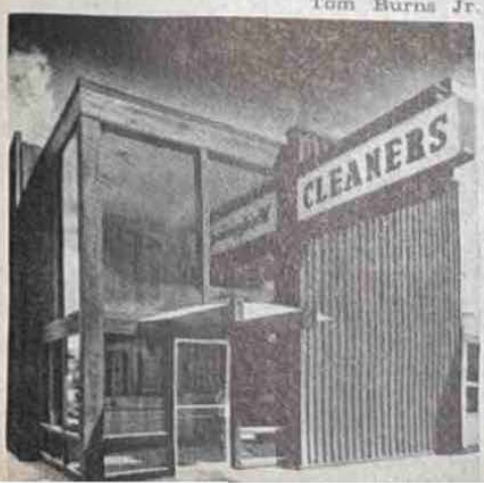
The entire building is skinned with cedar. On the west side 2x4s 6 in. on center, held out from the face to permit drainage behind, cut off the view of the old wall with its many and varied openings. The front wall is faced with 1-in. rough sawn cedar; 1x2 battens cover up the old entrance. Two side doors are reached through gates in the 2x4 facing as are the windows for cleaning.

The interior is a repeat of the exterior, the finish being smooth cedar and battens with a new paint job on the plaster side walls. The ceiling tile is glued to stripping which was applied over the old plaster.



SIGN is integral part of building. Corrugated plastic between projected structural beams carries lettering and is repeated in canopy.

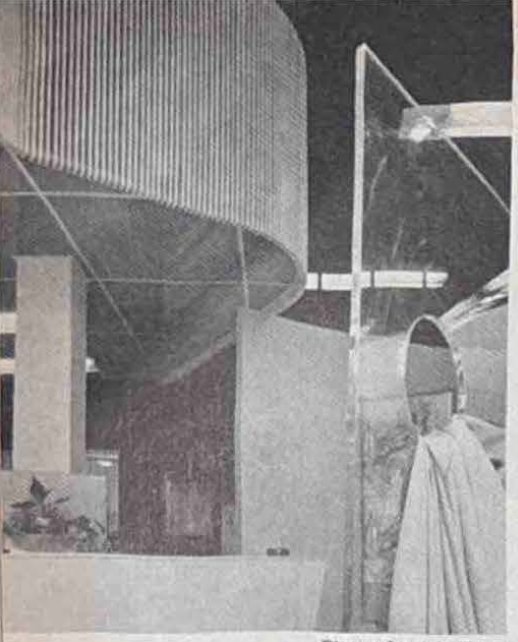
Tom Burns Jr.



OUTLINE SPECIFICATIONS

Exterior Walls: Stained cedar siding.
Windows: Stopped in wood.
Doors. Aluminum frame, exterior.
Floors: Concrete slab covered with linoleum in entry, asphalt tile in service areas.
Interior Walls. Smooth cedar and painted plaster; drywall partitions.
Ceilings: Acoustical tile.
Cabinets: Wood.
Lighting: Incandescent spots and floods.
Heating: Warm air from cleaning plant boiler.
Total Cost: $5,750.
Date of Completion: June 1955.

Drive-in showroom for fabrics



Photos by Art Hupy

PLASTIC SHEETS with circular cut-outs "float" fabrics in air at entrance window display. White birch vertical louvers serve as background.

FABRIC BUYERS throughout the Northwest and Alaska who consider this showroom to be one of the finest on the Pacific Coast probably don't realize that the building originally housed a car-dealer-garage. Its location on the very fringe of Seattle's shopping center and close proximity to department and furniture stores, specialty shops and hotels made it an ideal site with one exception: the traffic problem made parking difficult and the shipping of the wholesaler's large daily orders a slow and costly process.

The architect solved the problem by retaining the car-service entrance of the old garage and enough floor space to park 30 to 35 vehicles. Now clients need only to drive into the entrance where a uniformed attendant takes over. The loading and shipping problem was solved just as nicely. The truck ramp to the third floor from an incline side of the street was kept intact to facilitate receiving and shipping merchandise.

The front of the three-story structure was done over in stained redwood and painted brick. An Arizona sandstone planter at the entrance extends into the showroom.

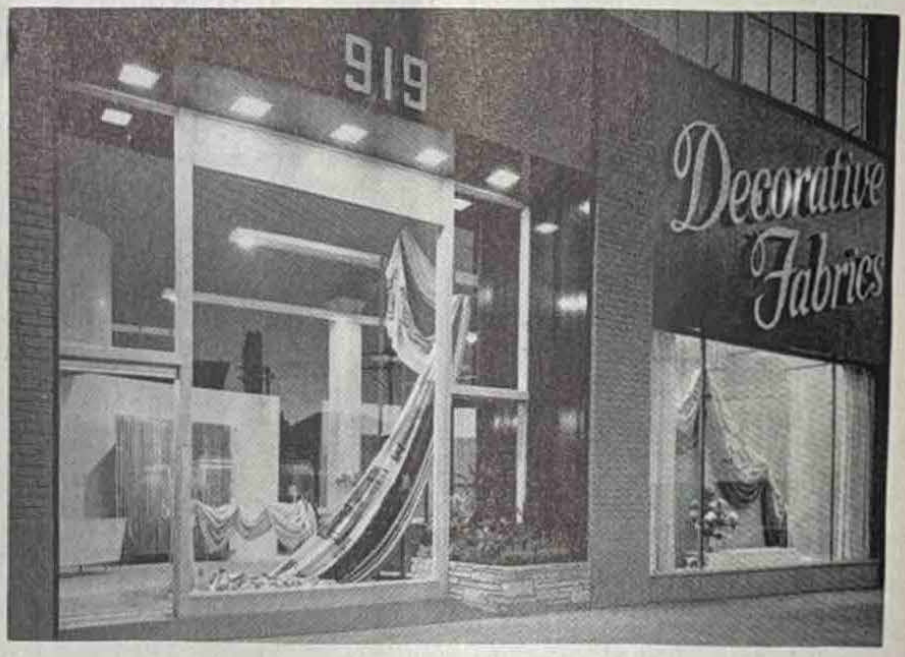
Lines of seasonal importance are highlighted in the main showroom where some 500 different styles are shown from large and tall multiplex racks. Displayed from three-hinged clear plexiglass sheets with circular hole cut at varying heights, the fabrics seem to float gracefully in the air. Vertical louvered frames of white birch are used as backgrounds.

Neutral colors which do not conflict with the displayed samples are used throughout the showroom and soft colored panels hide a series of offices. An adjoining salesroom displays the firm's more prosaic lines. The remainder of the building contains ample warehouse space, cutting and processing rooms and employee lunchrooms.

Phil Youdene Co.
Seattle, Washington

LaMONTE SHORETT, AIA
Architect

E. F. SHUCK CONSTRUCTION CO.
General Contractor



DRIVE-IN ENTRANCE is to right of display windows which permit full view of interior. Multiple racks are supported by expanded metal lath and black iron pipe display wing. Lucite chain from ceiling holds samples. Fabric covered plywood surrounds PBX at reception desk.

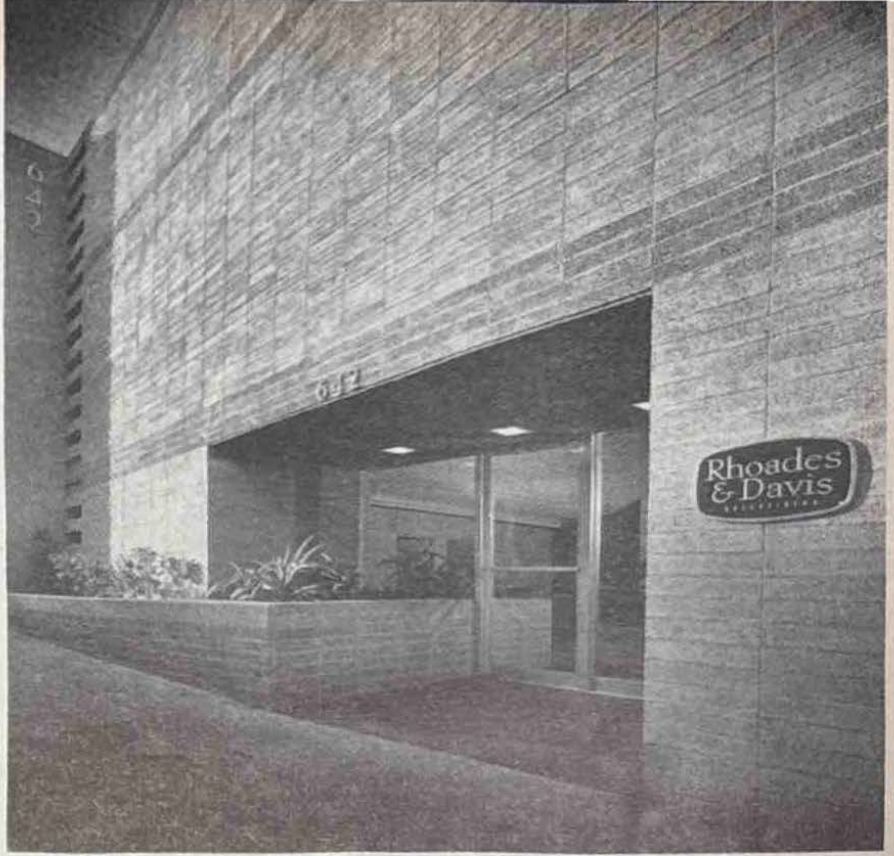


OUTLINE SPECIFICATIONS

Exterior Walls: Stained redwood and painted brick.
Doors: Tempered glass and birch slab.
Floors: Carpeting over concrete slab.
Interior Walls: Frame with plasterboard and birch slats.
Lighting: Fluorescent and recessed floodlights.
Heating: Existing hot water system.
Total Area: 40,000 sq. ft.
Total Cost: $42,000.
Date of Completion: November 1954.



ORIGINALLY PLANNED for Rhoades & Davis advertising agency, since merged with Honig-Cooper Co., windowless building now is occupied by central advertising department of Safeway Stores, Inc. Office seen above uses existing brick wall of old structure.



Advertising Headquarters
San Francisco, California

Brick walls offer point of departure

BRUCE E. HEISER, AIA
Architect

MILLS CONSTRUCTION CO.
General Contractor

OUTLINE SPECIFICATIONS

Exterior Walls: Brick and biege Basalite concrete blocks.
Roof: Pabco 20-year specification.
Floor Finish: Marble, vinyl plastic, terrazzo, Armstrong asphalt tile.
Doors: Stock mahogany.
Interior Walls: Exposed brick and Basalite concrete blocks, walnut and mahogany paneling. U. S. Gypsum Rocklath.
Ceilings: Fiberglas suspended.
Heating: Atlas plant.
Air Conditioning: Atlas plant.
Total Cost (alterations): $32,000.
Total Area: 6,290 sq. ft. (2,330 sq. ft., first floor; 1,980 sq. ft., second and third floors).
Date of completion: August 1954.

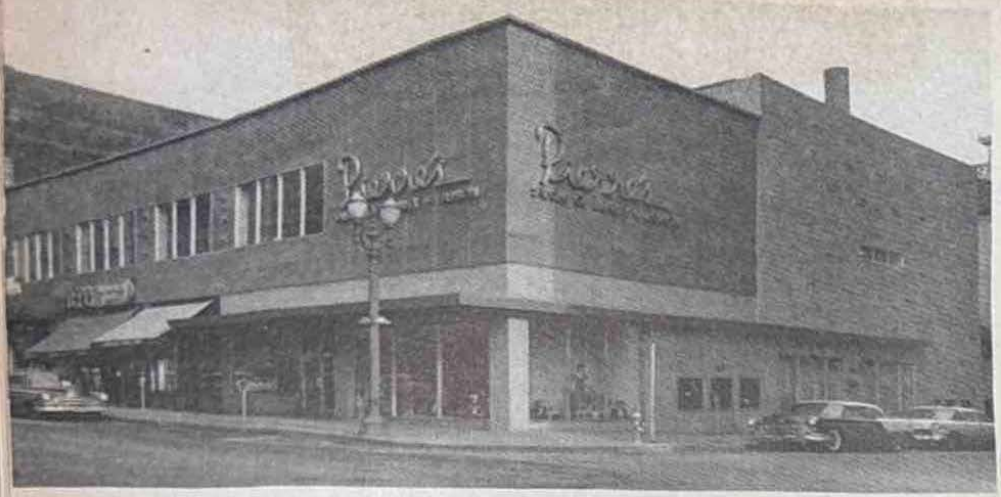
THE ORIGINAL STRUCTURE had three "beautiful" walls of rough red brick which were retained as part of the new building's interior. In view of the location, just on the fringe of San Francisco's produce market and within walking distance of Chinatown, the architect and client agreed to keep the building windowless and use the exterior as a means of beautifying the neighborhood.

The entire facade is of beige lightweight masonry blocks, and the recessed entrance and reception lobby were planned as a single unit, separated only by the plate glass walls and door. The exterior was livened up by providing a large outdoor planting area which extends through the plate glass into the lobby itself. Inside, the shrubs reach from long low planters on a black marble floor toward the glass ceiling a full three floors above.

The noise and confusion often common to advertising agency offices were eliminated by the adoption of an overall traffic plan which locates the copy, art, production and supply departments, as well as the main reception lobby and a spacious corridor, on the street level floor. The second floor houses the media department, conference room, coffee lounge and model kitchen used in testing products; the third floor, executive offices and the secretarial staff.

The architect utilized striking contrasts in textures throughout the building: smooth glass next to sandblasted brick; heavy carpeting next to polished marble; white mahogany next to pressed cork; silk screen-printed wallpaper next to rippled glass. He also used generous amounts of walnut paneling, aluminum and fiberglass and provided large planting boxes on all three floors.

The fully air conditioned building is illuminated with cold white fluorescent lighting with occasional clusters of spotlights. Specially designed cabinets were custom built into the conference room to hold television and sound film equipment.





Pierre's
Portland, Oregon

High-style patrons shop in remodeled theater

REMODELING of Portland's Music Box Theater into a women's specialty shop presented a number of interesting problems. The concrete balcony was torn out and used for fill material to make a level surface for the new concrete ground floor slab; a steel frame erected to carry the second floor; stairways altered or removed and vertical traffic facilities, including a service elevator, constructed to accommodate the two floors and basement.

The concrete frame and solid brick exterior filler walls of the original structure (built in 1911 as the Peoples Theater) were left intact, while brick parapets and elaborate cornices that were added in later alterations (in 1929 when it became the Music Box) were removed. The stripping of the existing stuccoed brick veneer facing made possible the addition of new textured brick veneer and porcelain enamel panels.

Sheet metal cantilevered on steel framing is used for the marquee and eyebrow; polished cast aluminum for the design of the window mullions. The identification signs, designed by the architect, are executed in stainless steel, backlighted by cold cathode tubes.

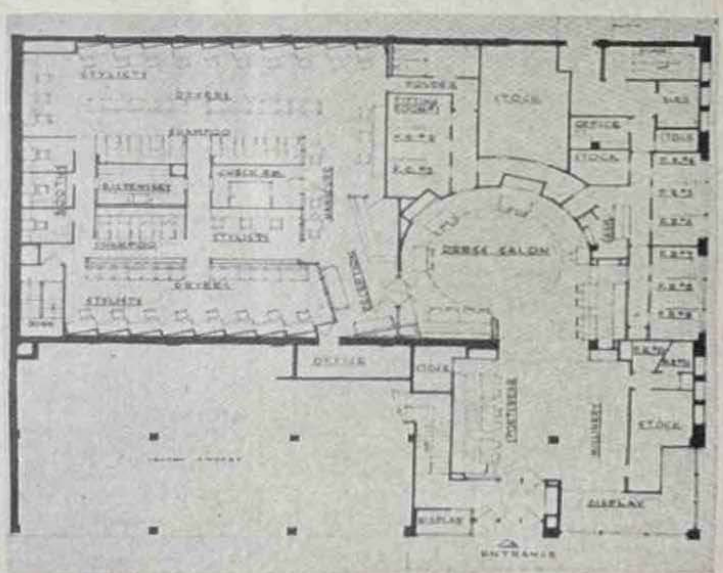
The aluminum store front and entrance with its ceramic tile floor make a sedately attractive point of entry for the fashion-minded shopper. The bold rubber tile floor which highlights the sports and millinery departments is in sharp contrast to the rich, thick carpeting of the dress salon, which repeats the color in various tones throughout its decor. The circular salon means that customers and sales people alike have a short walk to fitting rooms, separated by three partitions and further divided by folding doors. Access to stockrooms also is speedy.

Exterior show windows are draped to enable a second use of these areas as fitting rooms during store hours. This same functionalism is found throughout the building, with work areas necessary for the operation of each salon made easily accessible. The basement and second floor are devoted almost exclusively to service operations, allowing the maximum area for sales and display on the first floor.

HOLMAN J. BARNES, AIA, Architect
LOUIS ELLINGWOOD, Structural Engineer
TELLER CONSTRUCTION CO., General Contractor

OUTLINE SPECIFICATIONS

Exterior Finish: Porcelain enamel and Willamina split tile.
Floors: Concrete slab covered with ceramic tile, vinyl tile and carpeting, first floor; Q-deck with concrete-wearing slab, second floor.
Windows: Kawneer aluminum.
Doors: Kawneer aluminum, entrance; flush birch, interior.
Interior Walls: Painted plaster.
Ceilings: Painted plaster.
Total Area (remodeled): 14,000 sq. ft.
Total Cost: $184,500.
Cost per Square Foot: $13.10 (including fixtures).
Date of Completion: November 1954.



ON THE NEWS FRONT WITH STRUCTURAL STEEL



First floor of Oregon store is twice size of city block

The first floor of Meier & Frank's new department store in Salem, Oregon, is the largest expanse of merchandise on one level in the Pacific Northwest. It is the first branch store built by Meier & Frank, well-known as Portland's largest emporium. Containing four levels—a lower level, first floor, mezzanine, and second floor—this handsome store is framed with structural steel supplied by Bethlehem to Stevens Equipment Co., Salem, who fabricated the steelwork.

For low structures, such as this store, the economies and other advantages of structural steel are just as valid as they are for multi-story buildings. Steel framing is adaptable to any architectural design; and it provides maximum flexibility of floor layout.

Architect: Welton Becket and Associates, Los Angeles; *Associate Architect:* James L. Payne, Salem; *Steel Fabricator:* Stevens Equipment Co., Salem; *Contractors:* Hoffman Construction Co., Portland and Viesko & Post, Salem.



Shoppers can step right out of their cars and walk directly into the store. Double-spiral ramps give access to space for parking 1000 cars.

BETHLEHEM PACIFIC COAST STEEL CORPORATION
Sales Offices: Los Angeles, Phoenix, San Francisco, Portland, Seattle, Spokane

BETHLEHEM STEEL

BETHLEHEM PACIFIC

Building volume eases off in August by 6%

AFTER A RECORD MONTH in July, building permit volume in the five western states nosed down to a $245 million total in August, a 6% drop from last month. The total is also 3% below August of last year.

Although three states showed increases over July, the overall total was pulled down by a 9% drop in California dollar volume and a 29% decrease in the Montana figure. Oregon was up 5% over the previous month; Washington, 25%; and Idaho, 24%.

Compared to last August, only Washington recorded an increase, 18%. California dropped 5%; Oregon, 11%; Idaho, 2%; and Montana 37%. However, August of last year was a boom month.

For the most part, major cities and counties reported decreases compared to a year ago. Los Angeles was down $5½ million; Los Angeles County, $½ million; San Francisco, $4½ million; Multnomah County, $1¼ million; Portland, $3 million; and King County, $2 million. The Seattle total, swelled by the permit for an addition to the University of Washington Teaching Hospital, was $7 million higher than last year. Orange County was up $3 million; Sacramento County, $1 million; and San Bernardino County, $1¾ million.

By the end of August the total for 116 agencies in the five states was $1,834,702,985, a bare 2% higher than the January through August figure for 1955. California is running 3% higher; Oregon, 4%; Montana, 4%; and Idaho, 7%. Washington is a bare 1% behind.

Following is a breakdown of building permits issued by several of the major agencies during August.

	DWELLING UNITS		COMMERCIAL & INDUSTRIAL		PUBLIC	
King County	547	($4,842,941)	59	($ 876,636)	8	($1,382,287)
Seattle	199	(2,769,690)	17	(264,600)	4	(9,045,700)
Tacoma	183	(610,440)	57	(647,720)	7	(366,500)
Orange County	735	(5,963,171)	63	(2,555,635)	28	(2,587,261)
Sacramento Co.	616	(5,044,086)	57	(525,454)	15	(2,002,737)

Building Permit Totals for 116 Western Agencies for August 1956

CALIFORNIA	August 1956	July 1956	August 1955
Alameda County	$ 2,772,900	$ 2,237,136	$ 2,912,050
Anaheim	4,047,762	4,404,014	7,063,804
Bakersfield	1,567,838	6,393,481	516,432
Burbank	1,438,665	713,595	1,687,462
Contra Costa County	2,725,636	3,834,744	5,137,140
Fresno	2,009,107	930,255	3,051,477
Fullerton	1,186,035	1,527,956	3,608,473
Glendale	1,047,191	1,873,762	1,430,736
Inglewood	1,156,448	1,131,931	1,025,864
Long Beach	3,227,425	4,233,720	4,495,580
Los Angeles	49,422,515	47,317,341	56,012,719
Los Angeles County	37,648,177	29,985,673	38,145,838
Oakland	3,748,369	3,176,980	3,490,359
Ontario	1,582,283	258,245	2,061,982
Orange County	11,333,746	7,364,900	8,286,308
Palo Alto	3,086,078	1,550,628	1,566,287
Pasadena	1,852,479	4,081,640	1,113,073
Pomona	1,327,318	1,264,388	1,355,198
Richmond	2,428,434	1,051,987	1,185,605
Riverside	1,536,557	1,699,565	1,995,444
Sacramento	2,768,367	4,447,336	1,549,614
Sacramento County	7,660,009	5,666,158	6,549,661
San Bernardino	1,958,913	1,162,676	1,567,590
San Bernardino County	9,440,459	39,622,309	7,692,425
San Diego	6,662,540	7,572,778	8,577,499
San Diego County	3,965,900	4,646,850	2,747,935
San Francisco	3,846,308	6,050,207	8,293,476
San Jose	3,883,778	9,098,500	2,241,485
San Mateo	1,085,919	672,020	2,724,045
San Mateo County	2,372,088	1,416,765	3,142,170
Santa Ana	4,172,150	3,496,542	3,207,257
Santa Monica		1,411,102	996,953
Stockton	755,360	1,339,735	707,507
Sunnyvale	2,890,098	1,623,445	1,681,145
Torrance	4,276,291	4,921,784	4,522,012
West Covina	3,108,460	6,186,835	1,499,867
TOTAL	$193,991,613	$215,366,983	$203,842,472

OREGON	August 1956	July 1956	August 1955
Albany	$ 107,672	$ 79,970	$ 64,800
Astoria	104,709	33,118	26,356
Baker		13,150	49,857
Bend	112,030	160,450	83,078
Coos Bay	197,195	54,425	111,555
Corvallis	318,101	490,580	119,870
Eugene	1,621,738	808,365	440,399
Grants Pass	106,175	178,065	46,240
Gresham	31,050	53,700	92,225
Hillsboro	54,775	140,595	96,880
Klamath Falls	409,999	157,127	110,160
LaGrande	48,280	42,800	46,428
Lane County	791,990	702,861	1,123,650
Medford	157,986	335,982	340,919
Multnomah County	2,165,612	4,481,681	3,534,220
North Bend	1,143,022	48,751	80,622
Oregon City	26,263	40,020	26,585
Pendleton	293,590	265,300	173,221
Portland	3,868,195	3,241,595	6,993,740
Roseburg	62,451	126,505	98,660
Salem	870,667	518,075	472,986
Springfield	194,682	90,585	131,115
The Dalles	78,100	85,648	103,142
TOTAL	$ 12,764,282	$ 12,149,348	$ 14,366,708

WASHINGTON	August 1956	July 1956	August 1955
Aberdeen	$ 70,991	$ 516,057	$ 161,797
Anarcortes	119,555	133,044	107,990
Auburn	80,075	137,420	43,950
Bellingham	337,028	377,118	346,065
Bremerton	130,870	167,760	162,607
Centralia	55,678	92,662	85,582
Chehalis		20,331	51,851
Clarkston	73,490	34,694	26,831
Ellensburg	129,440	37,400	62,045
Ephrata	61,925	64,950	165,750
Everett	1,162,853	307,309	334,180
Kelso	35,500	48,500	57,700
Kennewick	123,285	81,180	462,930
King County	6,781,965	4,263,990	8,930,490
Kirkland	79,800	63,825	492,000
Longview	268,390	234,837	255,709
Moses Lake	162,008	259,332	359,797
Olympia	122,067	128,408	205,817
Pasco	93,385	52,835	237,900
Pierce County	1,662,504	2,129,200	1,768,018
Port Angeles	754,352	52,900	27,890
Puyallup	147,975	78,250	144,775
Ritzville	33,550	22,000	14,160
Seattle	14,009,085	6,275,770	7,108,640
Shelton	19,600	102,150	56,700
Spokane	2,398,360	4,347,577	2,239,577
Spokane County	2,305,659	1,738,026	2,259,937
Sumner	13,900	4,200	10,500
Tacoma	1,854,753	4,366,625	1,464,500
Vancouver	692,135	464,461	831,728
Walla Walla	116,230	240,855	119,395
Wenatchee	300,470	197,410	162,470
Yakima	301,586	683,409	516,698
TOTAL	$ 34,498,464	$ 27,724,485	$ 29,275,979

MONTANA	August 1956	July 1956	August 1955
Billings	$ 276,400	$ 636,300	$ 1,315,150
Bozeman	69,000	279,300	141,450
Butte	75,079	72,759	122,007
Glasgow	16,825	89,150	136,318
Glendive	37,800	47,325	49,550
Great Falls	483,884	1,117,605	806,925
Helena	977,127	388,765	420,370
Kalispell	128,850	400,200	311,450
Lewistown	23,900	52,400	179,200
Livingston	35,338	30,860	13,675
Miles City	52,136	72,164	37,358
Missoula	129,600	41,500	140,250
TOTAL	$ 2,305,939	$ 3,228,328	$ 3,673,703

IDAHO	August 1956	July 1956	August 1955
Boise	$ 338,396	$ 377,527	$ 419,757
Caldwell	221,925	81,925	87,680
Coeur d'Alene	111,300	111,290	195,550
Idaho Falls	695,840	455,144	397,431
Jerome	18,300	19,200	71,800
Lewiston	111,830	90,151	144,945
Nampa	108,650	171,875	225,410
Payette	56,650	7,850	8,385
Pocatello	208,434	177,724	303,109
Sandpoint	13,300	13,650	41,000
St. Maries	14,000	2,700	15,200
Twin Falls	231,050	203,350	272,595
TOTAL	$ 2,129,675	$ 1,712,386	$ 2,182,862
GRAND TOTAL	$245,689,987	$260,181,530	$253,341,724

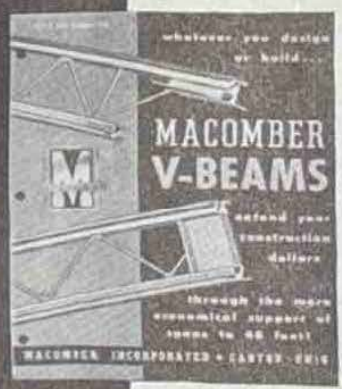
THE MACOMBER V-BEAM

A BRUTE for Strength



PATENTED
U. S. Patent Nos.
2,184,113
2,457,250
2,457,056
2,624,430
2,662,272
AND PATENTS PENDING

a structural product that delivers more for the money



Send for your V-BEAM Catalog

IT IS SIGNIFICANT that the Designing-Building team of America finds ONE USE of Macomber V-BEAMS such convincing proof of unparalleled strength and economy.

You can verify the truth of this statement by checking your next floor and roof framing requirements within the 48 foot span range of V-BEAMS with your nearest Macomber Representative.

STANDARDIZED STEEL BUILDING PRODUCTS

MACOMBER INCORPORATED

CANTON 1, OHIO

• ENGINEERING • FABRICATING AND ERECTING •

NAILABLE STEEL JOISTS
•
LONGSPANS
•
BOWSTRING ROOF TRUSSES
•
METAL DECK
•
V-LOK STEEL FRAMING
•
STRUCTURALS

Materials – Products – Tools

and the latest literature

TEMPERED HARDBOARD: Forest Fiber's Sandalwood, the first prefinished, light colored, tempered hardboard, is especially tough and rugged and can even be used for floors. Its baked-in surface resists weather, abrasion and staining.

Sandalwood, which can be used "as is," or painted if desired, is available with a regular or punched surface. Panel sizes go from 4x4 ft. to 4x16 ft.

(Item No. 1)

DRAFTING AID: As a reference aid for engineers and draftsmen, Johnson Research has produced a handy decimal equivalent table in the form of a ready-to-apply Transeal. Transparent with easy-to-remove waxed paper backing, it is self-adhering and can be printed to any specifications. Transeal eliminates repetitive drawing time on paper, vellum and cloth and ite matte surface readily accepts inking without the use of "non-crawl" preparations.

(Item No. 2)

ACOUSTICAL TILE: A non-combustible acoustical tile with the appearance of stippled plaster is now available for use in residential, commercial and institutional building. Latest addition to the Owens-Corning Fiberglas line is Fresco which has a rough finish.

Fresco is offered in 12x12-in. and 12x24-in. sizes with butt joints. It can be installed either on a concealed mechanical suspension system or adhered directly to the underside of any surface.

(Item No. 3)

POOL FILTER: A swimming pool filter which can be assembled in less than an hour has been designed so that owners of the smallest home installations can enjoy its advantages, although it is available in six sizes for pools ranging up to 150,000-gal. capacity.

The Fabro filter underdrain eliminates the need for layers of gravel, making it possible to use only sand in the filter. Other features: oversized leaf strainer, rustproof filter vessels, preassembled valves and fittings and chlorinator.

(Item No. 4)

SOUND-CATCHER: To minimize deafening noises that bounce around in factories and other enclosed premises where sound is "out of bounds," United States Gypsum has developed a new portable "sound-catcher" which can reduce apparent loudness level by as much as 50%.

Sold under the trade name Acousto-



INDUSTRIAL "SOUND-CATCHER"

sorber, the unit is composed of an outer sheet of perforated aluminum foil backed with a mineral fiber blanket, 2 in. thick. It is shipped in flat sheet form to the jobsite where it is easily shaped along pre-embossed lines into a boxlike pyramid. The acoustical unit is 28 in. long on a side, has an altitude of 24 in. and weighs about 1¾ lb. It is suspended from the ceiling on wires which are attached to a stapling flange on the unit.

(Item No. 5)

DRAFTING BOARD: Designed to reduce draftsman fatigue, the Easy Shift vertical drafting board has an up and down adjustment of 20 in., permitting the draftsman to work, seated or standing, at optimum visual angle in a comfortable position on any area without bending or stretching.

The board comes in two models, one with fixed angle of 15 deg. from vertical and the other adjustable through an arc of 85 deg. from vertical. A drafting machine rests on the drawing with feather touch.

The frame is of tubular steel construction; the board itself of lightweight, aluminum lined honeycomb sandwich construction, warp-proof and sufficiently rigid to withstand heavy loads without deflection.

Item No. 6)

BUILDING PAPER: A polyethylene sheet added to Richkraft's line of building papers is used as a water barrier and for moisture- and dustproofing over subflooring, under roofing, on the warm side of walls, around foundations and in crawl spaces and under slab.

Impervious to bacteria, rot or mildew, Richlite makes a low cost tarpaulin on painting jobs, serves as a waterproofing cover for equipment and material and meets all requirements for curing concrete. It is offered in 2-, 4- and 6-mil weights in widths up to 20 ft.—100 ft. to the roll.

(Item No. 7)

DIVIDER WALL: Semi-private office units can be created from open floor space in a matter of minutes with Hauserman divider wall partition. The unit is offered in two types: unglazed, at a height of 43 in. from the floor, including legs; and glazed, at a height of 66 in. from the floor. There is a 4-in. space between the bottom of all panels and the floor.

The divider wall features instant, snap-in panels, leveling devices on legs, concealed wiring channel, baked enamel finish and plastic glazing strips for inserting and removing glass panels without danger of chipping.

(Item No. 8)

RADIANT HEATING: Berko Electric has introduced its first 2,000-watt glass radiant heating unit, providing a greater concentration of wattage per square inch than previously obtained. With the increased heat output, one unit can take the place of two or three formerly required to heat large areas.

Models HW-20 and HWT-20 (with thermostat) have a tempered Pyrex brand glass heating element, capable of withstanding over seven watts per square inch output.

(Item No. 9)

Latest Handbooks, Manuals and Literature

Yours for the Asking

COMBINATION FIXTURE: The Mult-Vent Trofferlite, a dual-purpose fixture which diffuses conditioned air and provides illumination, is described in an eight-page booklet containing cutaways, exploded views, sound level charts and data pertinent to selection of correct fixture parts. Suggested installation procedures and applications are included.

(Item No. 10)

OUTDOOR LIGHTING: Architectural floodlighting and outdoor lighting for shopping centers, suburban businesses and commercial parking lots are the topics of two bulletins released by General Electric.

The eight-page publication illustrates various methods of floodlighting public and commercial buildings, fountains, industrial plants, motels, shopping centers, banks, etc. It discusses the four "musts" found in an efficient, economical floodlighting installation and includes a table of

recommended footcandle levels for buildings exteriors.

The 12-page bulletin defines basic lighting terms, describes several applications of effective outdoor lighting and provides a table designed to help in making preliminary plans for an outdoor lighting installation.

(Item No. 11)

STEEL DOORS: Recommended specifications have been prepared by the Steel Door Institute to aid the architect and builder in specifying and using standard stock items — flush type interior steel doors, frames and sliding closet door and frame units — in all types of construction. The products covered by this recommendation are generally used in residential housing, apartments, hotels, motels, schools and light commercial and industrial structures.

(Item No. 12)

WINDSTORM DAMAGE: A 40-page technical publication on how to prevent windstorm damage and help save lives and property is intended for use by architects, engineers and others concerned with building standards. Entitled "Windstorm Damage Prevention," the National Board of Fire Underwriters booklet deals with the frequency of these storms, their occurrence and characteristics and their effects on buildings.

The publication points out that windstorm losses occur in a variety of ways, ranging in extent from damaging paint by windblown debris to complete collapse of a structure. But by attention to details of design and construction, much can be done to reduce losses from hurricanes and even tornadoes.

(Item No. 13)

HOSPITAL COMMUNICATIONS: Executone's "Better Patient Care" tells how hospitals make maximum use of nursing time and skills and includes a summary of time and motion studies made by the Surgeon Generals' Offices of the Army and Air Force.

Illustrated and described in detail are multi-audio-visual nurse call systems which permit patient calls to be answered from many points on the floor; doctors' paging systems; bedside radio-sound systems providing patient entertainment through pillow speakers; and administrative intercom systems for two-way communication within and between departments.

(Item No. 14)

BATHROOMS: Gerber tells you "How to Build More Bathroom Appeal into Your Homes" in a 16-page booklet which illustrates eight ways to do it economically through proper use of new fixtures. For example, instead of chain and plug fixtures, you can have pop-up drains; instead of a washdown closet, you can have a reverse trap closet.

(Item No. 15)



STRUCTURAL STEEL IN USE

STRUCTURAL STEEL: "Steel for the Structures of America," a 24-page picture booklet issued by Allied Structural Steel, shows a number of recently completed buildings, schools, hospitals and bridges in color as well as black and white. Among the projects shown in the structural steel erection stage: the University of Kansas Fieldhouse, the Diagnostic Building of the Mayo Clinic and the Sylvania Electric Products Co. plant.

(Item No. 16)

ACOUSTICS: In its 16-page booklet Armstrong discusses technical aspects of acoustical treatment in non-technical terms. Well illustrated, "Quiet at Work" provides data needed in choosing materials for specific uses and summarizes advantages of each product type in chart form.

(Item No. 17)

SOUND SYSTEMS: Brief and non-technical text highlights three brochures, each an eight-pager devoted to RCA sound systems. One is concerned with hotels, another with churches and a third with public address sytems. Intallations in two California projects are described and illustrated: the Beverly Hilton Hotel, Beverly Hills, and Bay Meadows Race Tract, San Mateo.

(Item No. 18)

METAL LATH: Methods of attaching metal lath directly to horizontal wood supports are discussed in the latest technical bulletin published by the Metal Lath Manufacturers Association. The specifications section recommends methods for nailing metal lath to wood studs and nailing or nailing-and-tying metal lath to wood joists. Various tables and a page on wood construction details round out the bulletin.

(Item No. 19)

WINDOW PROCESS: A steel window finishing process that eliminates the need for painting is introduced in Fenestra's four-page brochure. Called Fenlite, it consists of eight steps: vapor degreasing, pickling, rinsing, liquid fluxing, oven drying, zinc alloying, passivating and chemical polishing, final product assembly. The process reportedly protects the steel with an alloy bonded, high luster, zinc surface.

(Item No. 20)

PLYWOOD TIPS: The home builder primarily will be interested in the latest United States Plywood booklet which deals with a variety of phases of hardwood plywood. Such headings as "Where to Use It," "How to Use It" and "How to Select It" indicate the scope of the material.

A section presenting ideas for treatment of individual rooms is supplemented by color plates showing the grain pattern and color of the 10 most popular hardwoods. Information about thicknesses, construction and face matching effects is another feature. A reference guide to Weldwood includes a brief description of all types of panels and suggestions for their use.

(Item No. 21)

SLIDING GLASS DOORS: To furnish architects, contractors and the public with complete information on its product, the Sliding Glass Door and Window Institute has developed a brochure for general distribution. The 12 pages include photos applicable to new residential construction and the commercial field; a nomenclature of stock door sizes; and a listing of institute activities.

(Item No. 22)

READER SERVICE

Pacific Architect and Builder
2418 Third Ave., Seattle 1, Wash.

Please send the literature or data about the material, products and tools listed on these pages.

SEPTEMBER 1954

ITEM NO. (Circle those you wish): 1 2 3 4 5 6 7 8
9 10 11 12 13 14 15 16 17 18 19 20
21 22 23 24 25 26 27 28 29 30 31 32

Name _____ Title _____

Firm _____

Address _____

City _____ Zone ____ State _____



CEILING DIFFUSER made by Connor Engineering Corp. is simple dome shaped fixture extending but few inches below ceiling and usually painted same color as latter.

Ceiling diffusers

Ceiling diffusers, outlets originally developed for commercial and industrial use, are now being applied in homes, particularly where there is year-round temperature control.

These devices stem from air conditioning. Since people are more sensitive to cold than to warm air motion, warm air grilles and registers as cooled air outlets were frequently found inadequate. What was needed was a means of introducing air in such a way as to be draftless, yet provide roomwide circulation and even temperatures. Though space, occupancy and other conditions are not as critical in the average home as in many commercial buildings, requirements are still basically the same and ceiling air diffusion in homes offers several advantages.

The ceiling air diffuser is really an air mixer. It mixes supply or incoming air with the room air so rapidly that by the time the mixture reaches the living area, its velocity is virtually imperceptible and temperature is at the desired level. And radial discharge distributes the cooled or heated air evenly and thoroughly in all directions. Hence with a properly designed overhead system there are no drafts nor over or under-conditioned spots.

A ceiling diffuser has roughly twice the air mixing ability of a grille because air discharge is in the form of a thin disc-shaped stream. The greater surface area of the air stream, what engineers call aspect ratio, the more room air it entrains and mixes.

An important element in the diffuser system is the return air grilles which are located in the baseboards under the windows. Warm air, being lighter, has a tendency to stratify in the upper part of the room but the grilles, continually drawing off the cooler floor level air, help to pull it down into the room.

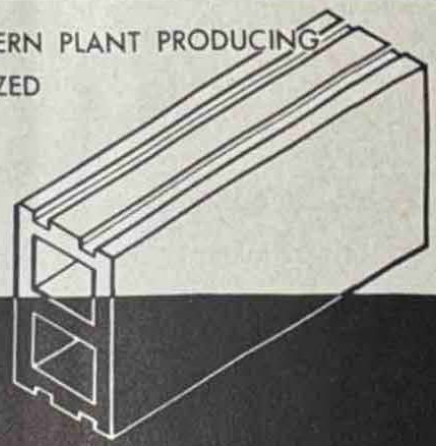
Installation of the overhead system is the same as for forced warm air methods with the exception, of course, that the supply ducts are in the attic rather than the basement. In ranch houses ducts are laid across the joists in any way convenient and in the expansion attic house they are run between the joists and floored over.

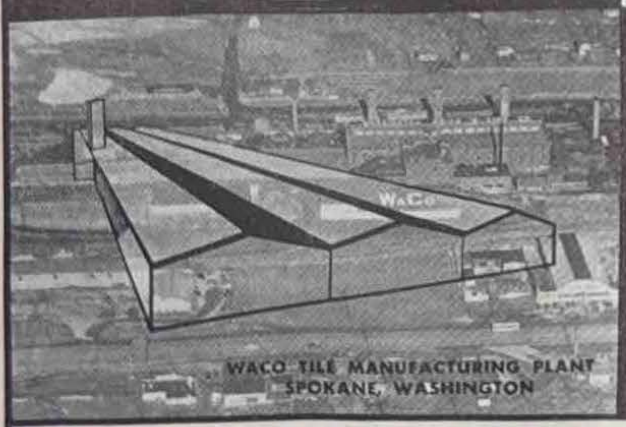
Basement headroom is saved by making the joists serve as return ducts. This is done by joining two joists at the bottom with a strip of sheet metal.

While cooling may not be installed when the house is built, by providing for its eventual addition the owner can protect the resale value of his property. This seems all the more logical when a heating plant that can

WACO TILE

A NEW MODERN PLANT PRODUCING QUALITY GLAZED STRUCTURAL TILE FOR YOUR JOB





WACO TILE MANUFACTURING PLANT SPOKANE, WASHINGTON

- ARCHITECTURALLY-SELECTED COLORS
- QUALITY CONTROLLED
- PERMANENT MODERN BEAUTY

WaCo-Tile is distributed over the Pacific Northwest and Alaska . . . the nearest source to your job.

Write now for specifications and detailed information!

WASHINGTON BRICK & LIME CO.

SPOKANE • PORTLAND • SEATTLE

MEMBER WESTERN STRUCTURAL TILE INSTITUTE

be easily converted to cooling is well in line, costwise, with other types. The ceiling diffuser method, because it embodies accepted air conditioning features, is preferred by heating and air conditioning authorities for the all-year system.

At the Beverly Hilton

The basic design of the $17 million Beverly Hilton Hotel in Beverly Hills, Calif., consists of three slender wings, radiating out from a central service core to provide most of the 450 rooms with excellent outside exposures.

To gain full advantage of this feature, these rooms include an outdoor balcony which is given privacy by a partition of porcelain enameled, double-faced panels, laminated to honeycomb material. Colors of these separation panels vary from light pastel shades to dark blues and browns, in tones to match their surrounding decorations.

Movable shutter doors, 33 in all, were designed by Paul Heinley to form the entrances for the cabanas surrounding the swimming pool. This treatment allows swimmers and sun bathers complete privacy. Light and heat can be controlled by merely adjusting the tilt rods.



OUTER BALCONIES of Beverly Hilton are partitioned by porcelain enameled panels. Below, installation of four-panel shutter doors on cabanas lining swimming pool of hotel, designed by Welton Becket & Associates and built by Del E. Webb Construction Co.



IN WALL PANELS
its the
SURFACE
that SELLS!



FINEWOOD®
means
FINER SURFACES!

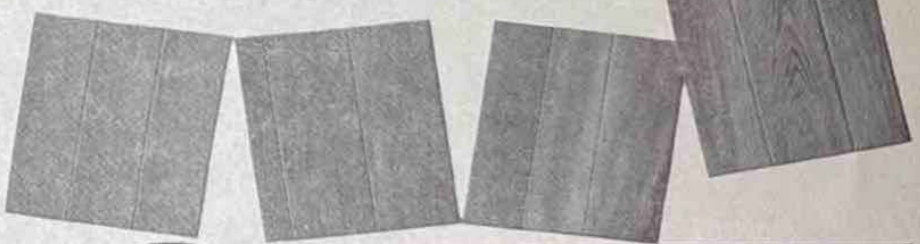


Quality construction is important—*sure!* But in wall panels, its the *Surface that Sells!* And FineWood means not only quality construction, but also *the finest, most beautiful surfaces of any Pre-Finished Hardwood Panels!* One wall or a room paneled with FineWood precedes all else in a perfect setting for future decor and furniture.

FINER CONSTRUCTION Even back and center veneers are specially selected to guarantee a permanent glue bond assuring a perfect face surface always.

SPECIAL PROCESS FINISH FineWood's exclusive finish contains basic ingredients that enhance the lustre and stability of the panels, making them resistant to moisture. In addition the natural color finish gives added beauty and prevents any change in color and texture.

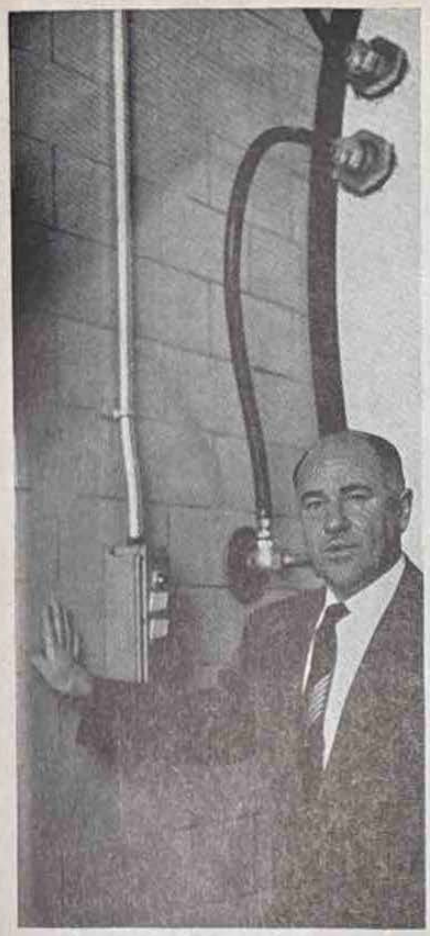
GREATER VARIETY ***Nine*** select hardwoods—Birch, Maple, Mahogany, Red Oak, White Oak, Sycamore, Walnut, Cherry, and Limba. Other special woods available on request.



PRE-FINISHED GENUINE HARDWOOD PANELS
FINEWOOD
DULANEY PLYWOOD CORP., LOUISVILLE, KY.

ONLY GENUINE FINEWOOD PANELS BEAR THIS SEAL

DULANEY PLYWOOD CORPORATION
1401 SOUTH 12th ST.
LOUISVILLE 10, KENTUCKY



HENRY W. OPPEL
Brewmaster,
S. F. Brewing Co.

"GLAZED STRUCTURAL WALLS MAKE BREWERY SANITATION EASY"

Burgermeister's vital problem of controlled sanitation has been greatly simplified and reduced in cost with walls of Western Glazed Structural Units.

In three remodeling and expansion programs since 1952, the brewery has installed 37,620 sq. ft. of this gleaming ceramic finished tile.

Wall and finish are one — no framing, lathing, plastering or finishing required. Hard, smooth surface resists wear, stains, odors; never needs painting. Clear glaze, plus 12 attractive colors. Standardized sizes and shapes for every requirement. For shape chart and specification details write to KRAFTILE CO., Niles, Calif.; or WASHINGTON BRICK & LIME CO., Spokane, Washington; members of

WESTERN STRUCTURAL TILE INSTITUTE

Here's what they're doing with sectional shoring

ALERT CONTRACTORS successfully applied several new techniques recently which further increased the versatility and efficiency of sectional steel shoring, the workhorse of modern concrete construction.

In one case the contractor rolled prefabricated shoring units from pour to pour on a wheeled dolly and lifted them to the next floor by an electric crane. In another instance shoring units were slid on greased wood sills. And in other cases, contractors used 5-ft.-wide units to support precast roof planks, to support isolated, exterior spandrel beams and to support a unique, poured concrete pitched roof.

The techniques, impractical or impossible with built-on-the-job wood shoring, all utilized Patent Scaffolding's steel, frame type shoring called Trouble Saver. In each case the shoring was quickly assembled on the job from base plates, 20-in. adjustable extension legs, welded 5-ft.-wide frames and diagonal braces. Fast-acting SlideLoks or wing nuts are used to secure the braces to the frame.

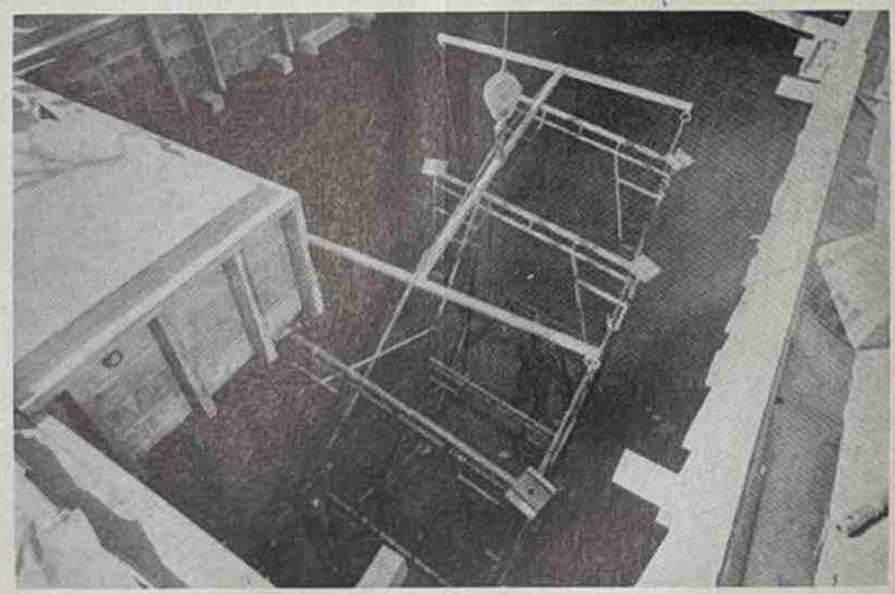
In Anaheim, Calif., a mechanized handling system was devised for moving sectional steel shoring both horizontally and vertically on the multi-storied Broadway-Hale Department Store. Contractor Ford J. Twaits Co. used rubber-tired hydraulic lift trucks to transport the sections horizontally to either a stair well or escalator block-out. There the sections were raised to the next floor by means of a monorail mounted hoist which in turn releases each section to a lift truck working that level (photo right).

The assembled sections were moved quickly into position and joined to existing shoring by cross braces. Construction manager L. E. Douglas reported that the mechanized movement of the shoring permitted unusually big pours. Single pours from 550 to 660 cu. yd. were not uncommon. These pours covered from 16,000 to 18,000 sq. ft. and were made at rates up to 93 cu. yd. per hour.

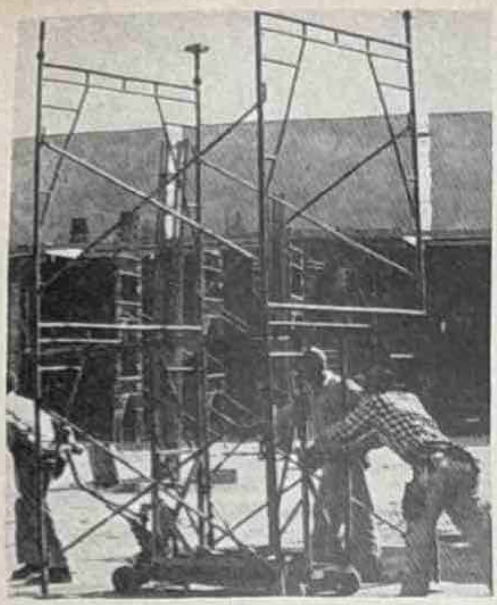
Another project involving horizontal movement of shoring sections was the Emporium-Capwell Co. warehouse, Oakland, Calif., with William J. Moran Co. as contractor (photo below).

A system of sliding entire sections of sectional steel shoring to new pour areas was used on the Monsanto Chemical Co. warehouse, Kearney, N. J. Eleven shoring sections, each covering 720 sq. ft. were pulled on greased wood sills by a hand winch. Each section was slid three times for succeeding pours on the 189-ft. by 231-ft. structure.

Sectional steel shoring is as adaptable to precast roof planks as it is to poured construction as proved by two one-story jobs. On a 46,000-sq. ft. warehouse in Dallas, 710 6-ft. 6-in.-high steel end frames spaced 6 ft. apart shored a 15-ft.-high ceiling



WHEELED HYDRAULIC DOLLY is used to move four-frame unit shoring horizontally to next pour on Emporium-Capwell Co. warehouse, Oakland.



SIX-FRAME shoring section is lifted from floor to floor of three-story department store in Anaheim, Calif., through escalator black-out. Unit is picked up by four chains hung from corners of H-shaped bridle.

made of 12-in.-thick precast planks. On a Kansas City building, 160 frames shored 2-ft.-and 5-ft.-wide poured beams as well as 24-ft.-long by 12-in.-thick precast roof planks.

While constructing a 100-ft. dia. digestion tank in Jersey City, N. J., the contractor was faced with the problem of supporting a concrete roof slab 32 ft. high and 12 in. thick from a difficult cone shaped base. The lowest point of the floor dipped to 12 ft. 6 in. below the bottom of the wall. The unusual floor condition was overcome with sectional steel shoring frames of various heights and by making leveling adjustments with the 20-in. adjustable legs. A datum line was projected on a level with the bottom of the 32-ft.-high tank wall and the shoring base frames brought to that level.

A concrete contractor put sectional steel shoring to good use while building a high school in North Arlington, N. J. The shoring supported formwork for the pouring of heavy, isolated exterior spandrel beams which were 120 ft. long, 1 ft. 4 in. wide and 3 ft. 5 in. deep. The shoring frames also provided a ready-made "built-in" scaffold for stripping of the forms.

In Miami, sectional shoring frames easily handled the job of supporting forms for a unique, poured concrete pitched roof on a new school, as well as shoring the flat slab.

Naturally these shoring "tricks" are not always required in everyday use. But they do reflect one of the major advantages of sectional steel shoring —its versatility that makes it the workhouse on routine jobs.

Three honored for role in modular measure

Three men have been recognized by the American Standards Association for their part in the past year to encourage the use of modular measure in building. They are Leonard G. Haeger, technical director, Levitt & Sons, Inc., Levittown, Pa.; Fred M. Hauserman, president, The E. F. Hauserman Co., Cleveland manufacturer of metal partitions; and H. B. Zackrison, chief, engineering department, U. S. Army Corps of Engineers.

Presentation of awards was made in Los Angeles by C. W. Kraft, president of Kraftile Co. of Niles, Calif., who received an ASA award in 1954.

"Modular measure is a self-sustaining movement, with no high-pressure promotion behind it," Kraft explained. "The individual efforts of enthusiastic builders, producers, contractors and architects are of immense importance in speeding the present trend to modular dimensioning in building. Their work will accrue to the benefit of the American people in terms of lower building costs. The ASA modular measure award symbolizes the sponsors' appreciation of the essential contribution being made by individuals throughout the industry."

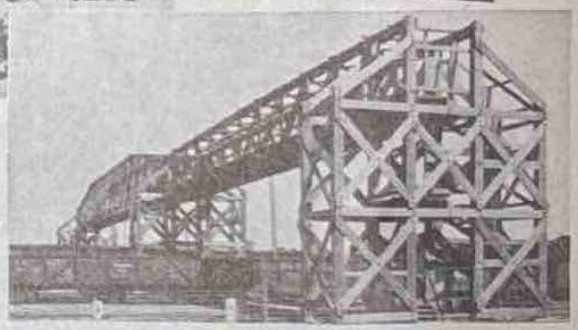
Sponsors of the movement, which uses the 4-in. module as a "least common denominator" are AIA, Producers' Council, NAHB and AGC.

HOW TO BUILD *Better for Less*

BE SURE YOU'RE UP-TO-THE-MINUTE ON FABRICATED SOLID TIMBER CONSTRUCTION— CHECK WITH RILCO



Erecting 100' Rilco monocord trusses — Big Bear Store, Lincoln Park, Michigan



Fabricated timber overpass D & R G Railroad, Denver. Spans are 70' and 170'.

Contractors are reporting amazing savings on solid timber structural designs. Daily we are getting new information that we would like to pass on to you.

Whether it is a roof construction or a structural assembly, we are constantly developing short cuts in design, speeding erection and increasing profits for contractors. Even on the first job, contractors report successful results.

Rilco Glued Laminated and Fabricated solid timber members speed construction on a wide range of structures. Let us help you with your design and fabrication specifications.

FREE

Write for free booklet on wood laminated and fabricated solid timbers.

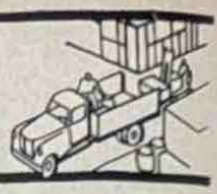
RILCO works wonders with wood

RILCO LAMINATED PRODUCTS, INC.

ROOM 207A, TACOMA BLDG., TACOMA 1, WASH.

Builders and Suppliers

headlining the news



• **Evertru Products Co.** of Moses Lake, Wash., has appointed Charles Smith as manager, replacing L. O. Kalbrenner who recently resigned. The concrete block plant is a newly acquired subsidiary of Washington Brick and Lime Co. of Spokane.

• **Monsanto Chemical Co.** has occupied a new office and warehouse structure at 6670 E. Flotilla St. in the Vail Field area of Los Angeles to serve as a distribution center for all of the company's marketing activities in southern California.

• **Kaiser Steel Corp.** has named Harry L. Warner as sales manager of its Fontana fabricating division. He previously was manager of contract sales at Kaiser's Napa fabricating division.

• **Ruby Lighting Co.** of Los Angeles and Dallas, maker of industrial fluorescent lighting fixtures, has been purchased by Ekco Products Co., marking the initial phase of an expansion program in which the latter plans to acquire a number of factories in the builders hardware and architectural field.

The Los Angeles Ruby Lighting operations will be moved into Ekco's new enlarged Whittier factory. Ekco chairman Arthur Keating says his firm's interest in the lighting field will be confined to industrial applications such as factories, offices, hospitals, etc.

Robert L. Lang, recently appointed vice president of the parent company, and Ralph Simon have been elected chairman and president, respectively, of the Ruby firm. Albert Jassin has been named executive vice president in Los Angeles.

• **Pomona Tile Manufacturing Co.** has been appointed distributor of Summitville quarry tile in several Pacific Coast and mountain states, including California.

• **Superior Scaffold Co.** of Culver City has a new sales manager, Robert Gray, formerly western regional sales manager of roofing products for U. S. Gypsum Co.



VOGEL



BOGET

• **Gladding, McBean & Co.** has formed an architectural division, a consolidation of Hermosa tile and masonry products. Named to head the new product division as vice president and general manager is Verne W. Boget, who previously has held the same posts in the Hermosa tile division.

Pete Vogel, for five years vice president in charge of sales in the 11 western states for Miracle Adhesives, has been appointed general sales manager for Hermosa tile and other tile products. He will have his office at the company's headquarters in Los Angeles.

• **Airtemp Division,** Chrysler Corp., has named George Sharkey West Coast assistant regional manager, succeeding L. D. Brosell who resigned.

• **NAHB** and Household magazine in a jointly sponsored design competition for small-volume builders have awarded honorable mentions to two California firms: Calvin R. Campbell of Pasadena and Security Development Corp. of Monterey.

• **National Electric Products Corp.** will construct a warehouse for electrical distribution systems, fittings and accessories at 6400 Corvette St., Los Angeles, and will discontinue production operations at its Torrance, Calif., plant.

• **Building Components, Inc.,** of Los Angeles has been appointed factory representative for southern California by Iron Fireman Manufacturing Co.

• **Portland Cement Association** in an expansion of its field services to cement users has opened a regional office in Los Angeles to supervise activities of the district office there and in Seattle.

Hugh Barnes has been named western regional manager with headquarters at 816 W. Fifth St. He joined the association in 1937 and has been



architect:
Wohleb & Wohleb & Assoc.

contractor:
STRAND & SON

mason contractor:
KENNETH GEORGE

Attractive Olympia Memorial Clinic *features*

Chehalis Red Roman Brick

The warm, pleasing texture of Chehalis Red Romans—the Pacific Northwest's most distinctive brick—was selected by the architect to distinguish this modern clinic building in Olympia.

Here is functional design at its eye-appealing best—permanent, practical, fire-safe . . . and economical to build and maintain! Only brick—and preferably CHEHALIS BRICK—combines all these advantages so well.

SCPI

CHEHALIS BRICK and TILE Co.

BOX 868, CHEHALIS, WASHINGTON

Los Angeles district engineer since 1942. Barnes has been succeeded by John M. McNerney, with the association since 1941 and most recently statewide paving engineer for the Los Angeles office.

The expansion program raises the number of the association's regional offices to five and of its district offices to 32, covering almost the entire United States as well as British Columbia.

• **Gunite Contractors Association** has elected these officers: J. C. Fredericks, F. W. Case Corp., president; James Enbody, H. W. Enbody & Sons, secretary; N. R. Sanders, Johnson Western Gunite, treasurer. Stanley Zynda will continue as manager.

Members have agreed on four meetings a year, two in San Francisco and two in Los Angeles.

• **Associated Home Builders of the Greater East Bay** have elected Don T. Groom, partner in the Oakland firm of Groom-Moyer, to succeed McKie W. Roth of Walnut Creek as president.

William G. McFarland has been named field secretary of the group, succeeding Ronald L. Pardini who resigned to join Perma Bilt Homes at Sacremento.

The association has established a Livermore chapter, electing Roy N. Jensen its first president and Masud Mehran secretary.

• **Roddis Plywood Corp.** has established a fir plywood industrial sales division in the Ardel Building, 33 E. 10th Ave., Eugene, Ore., with Richard L. Rinde as newly appointed manager. A graduate of the University of Oregon, he formerly was assistant sales manager of Clear Fir Sales Co., Springfield, Ore.

• **Ralph Yoder** of Seattle, who heads the Washington State chapter, Producers' Council, will address the annual chapter presidents' conference at the Wade Park Manor Hotel in Cleveland September 25.

In announcing Yoder's selection, managing director John Haynes of Washington, D.C., commented: "We pick our speakers from the most successful chapters during the preceding year. In 1955 the Washington State chapter ranked 11th in guest-per-member ratio at its monthly informational meetings for architects. This is a sharp rise from the 21st ranking of the previous year."

• **Orr & Sembower, Inc.**, has added a sales representative to handle its automatic boilers in Boise: Richardson Equipment Co., 612 Front St.

• **Southwestern Idaho Association of Homebuilders** has elected Charles R. Kreiensieck of Boise as its first president. Other officers are DeWayne Bills, vice president, and Earl Hardy, secretary-treasurer, both of Boise.

• **W. P. Fuller & Co.** has announced changes in its administrative structure, highlighted by the creation of a new marketing division under the direction of W. P. Fuller 3rd, vice president and great-grandson of the company's founder. The new division brings together for the first time both paint and glass sales management.

C. E. Ide, at present manager of Fuller's intermountain district, will take over the newly created position of director of sales, paint and allied products about the first of the year. J. P. Walsh will continue in his present position as director of sales, glass and building products. Vice president H. S. Margetts will be in charge of division operations, which includes responsibility for the Fuller branch system throughout the West, Hawaii and Alaska.

• **Home Builders Institute of Los Angeles** has a new director of public relations, Richard D. McNish, who has been field representative since 1954. He is a graduate of California State Polytechnic College.

• **Calaveras Cement Co.** has opened a bulk cement transfer plant in San

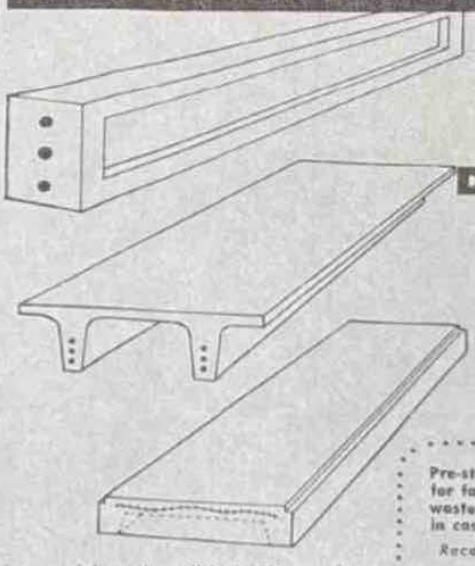
modern speed-up construction



Forms, shoring eliminated

no waiting for concrete to set when you specify lightweight

PRE-STRESSED CONCRETE



I BEAMS

Support double tee or channel slab in all-concrete construction. Spans to 70 ft.

DOUBLE TEE SLABS

for economical pre-cast floors, roofs. 20-40 ft. spans, maximum unit coverage.

CHANNEL SLABS

for 20 foot or shorter spans. Light, easy-to-handle. Use with steel beams, poured or pre-cast concrete beams.

Pre-stressed concrete is the answer to your clients' demands for faster construction, lower costs. No time, labor, material wasted on building forms or waiting for concrete to set (as in cast-in-place method).

Recent Construction—Using Empire Pre-stressed Concrete

SCHOOLS
Woodrow Wilson High School Stadium, Portland
Sabin School, Portland

BRIDGES
Kenai River Bridge, Schooner's Bend, Alaska
Hinkle Bridges 1 and 2, Oregon City

BUILDINGS
C and S Electric, Eugene
Pacific Power & Light Service Center and Shop, Albany
Duttish Building, Portland
Oregon State Hospital Out-patient Wing, Salem
Oregon Metallurgical, Albany
The Central Washington Bank, Moses Lake, Wash.

For more information call AL 4-6535 or write —

EMPIRE

BUILDING MATERIAL CO.

N. E. 92nd and Halsey St., Portland, Oregon · ALpine 4-6535

Leandro to serve the San Francisco and East Bay construction industry. The $100,000 installation has a storage capacity of 5,000 bbl. of cement.

• **Robertshaw-Fulton Controls Co.** has named Harold W. Rice director of its West Coast research and development laboratory in Los Angeles. Rice, a member of the firm for more than 20 years, succeeds H. W. Geyer, who resigned.

• **Kaiser Aluminum and Chemical Sales, Inc.,** is expanding its service to architects in the Los Angeles area with the appointment of Walter F. Pruter Jr. to the newly created post of district architectural representative. A former senior service engineer, he joined Kaiser Aluminum in 1955 and was associated with the sales staff of United States Gypsum Co. for six years.

• **Permanente Cement Co.** has established a new contractor sales division in the Russ Building, 235 Montgomery St., San Francisco, with C. C. (Cless) Moore as division sales manager.

"As the name implies, the new unit will concentrate on serving major contractors," says James K. Beatty, vice president in charge of sales, "thus allowing the regular line salesmen to give their full attention to the requirements of batch plant operators and building material dealers."

Permanente's sixth kiln, latest unit in its $35 million expansion program, went into production near Los Altos, Calif., last month.

• **Empire Building Material Co.** of Portland has appointed Richard (Dick) Mason as district sales manager in Oregon and southern Washington. For the past two years he has been plant foreman.

• **Evans Products Co.** has doubled its timber supply on the West Coast by acquisition of cutting rights on a half-billion feet in Oregon to help supply veneer for production of the Michigan company's Evaneer plywood operations.

• **Symons Clamp and Manufacturing Co.** has opened a new concrete forming equipment plant in San Leandro, Calif., representing a major expansion of its West Coast operations.

Joseph Von Drasek has been named vice president in charge of the California factory, first to be built outside of Chicago. Assisting him in sales is Richard G. Allen. Robert P. Tross has been transferred from Chicago headquarters to act as chief engineer.

• **Harvey Aluminum** of Torrance, Calif., has resumed work at its 54,000-ton aluminum reduction plant at The Dalles, Ore., with an announcement that all financial and contractual arrangements have been finalized for construction, which was interrupted four years ago. On a 500-acre site, the plant is scheduled for completion late in 1957.

• **Gordon Tongue,** president of Northwestern Portland Cement Co. of Seattle, has been elected to the board of directors of the Portland Cement Association.

• **General Electric Co.** will construct a $2 million lamp division warehouse, distribution and office center in the Vail Field area of Los Angeles. Albert C. Martin & Associates are architects-engineers for the single-story, reinforced concrete structure, and Noyes Roach and C. L. Peck are joint contractors.

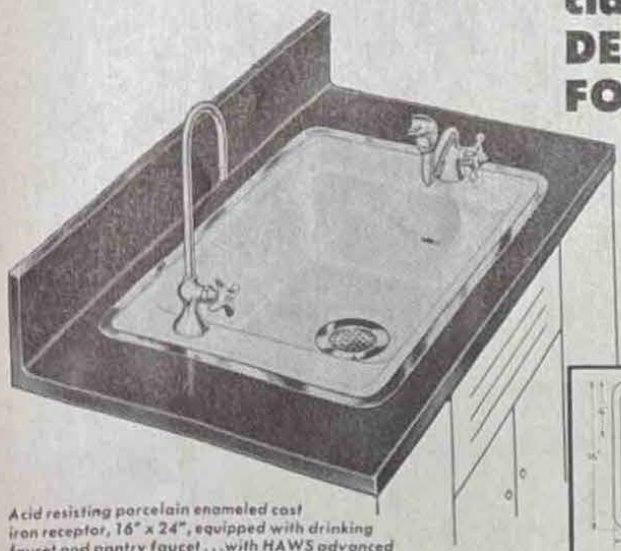
GE has opened its first Alaskan facility, a branch supply and apparatus house of General Electric Supply Co., in Anchorage, with George H. Smith, formerly of Portland and Medford, Ore., as manager.

• **Fibreboard Paper Products Corp.** has named Patrick H. Ryan to serve as merchandise manager of the Pabco building materials division in the firm's San Francisco headquarters. He was with the Pabco floor cover-

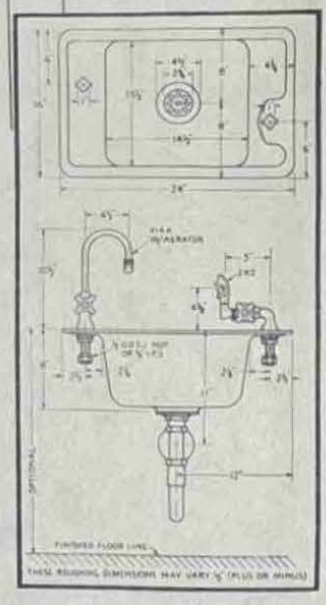


New School Project on the Board?

...add "the touch" that makes it really new... HAWS classroom DECK-TYPE FOUNTAINS



Acid resisting porcelain enameled cast iron receptor, 16" x 24", equipped with drinking faucet and pantry faucet...with HAWS advanced sanitation features for utmost cleanliness and safety.



Specify water facilities where they're needed most—right in the classroom! HAWS versatile deck-type fountains are available with optional combinations of VANDAL-PROOF faucets and fixtures to meet any classroom need.

And for appearance... they can't be beat! Handsomely designed in lifetime stainless steel or *acid resisting* enameled iron, they add pleasing functional beauty. Five basic series fit every space and service situation. Make your school refreshingly new *throughout*—with HAWS Deck-Type Fountains. *Write for detailed information...TODAY!*



HAWS features complete lines of drinking fountains, electric water coolers, emergency eye-wash fountains—and **KRAMER Flush Valves,** *for every make plumbing fixture.*

HAWS DRINKING FAUCET CO.

1443 FOURTH STREET (SINCE 1909) BERKELEY 10, CALIFORNIA

ing division as assistant to the vice president in 1954-55 and then became vice president and general manager of Building Products Corp. in Milwaukee.

• **Allmetal Screw Products Co.** has moved its West Coast division to larger quarters at 2978 Wilshire Blvd., Los Angeles (DUnkirk 5-6357).

• **A. C. Horn Co., Inc.**, has a new branch manager in its Los Angeles office, Harry D. Kennedy, who served as district sales representative in the Tacoma, Wash., area.

• **Pioneer Manufacturing Co.** has named W. Q. (Chris) Kringle sales manager for its Bay area office, succeeding William Bucknum who was recently appointed sales manager of Pioneer Range Co., a subsidiary.

Carl F. Hurley is Pioneer's new representative in San Diego.

• **Smith-Davis Co.** of Los Angeles, in conjunction with its parent company, Maas & Waldstein Co., is sponsoring a year-long series of technical clinics for painting contractors throughout the 11 western states. Sessions are being conducted by Hal Palmer, sales manager of the firm's architectural division.

• **Westinghouse Electric Corp.** has appointed William L. Trudgian as Pacific Coast regional agency and construction manager, with headquarters in San Francisco. Ray T. Killen succeeds Trudgian as district agency and construction manager in Seattle.

Robert E. Ralstin has been named to the newly established position of area sales manager for apparatus in the Portland office.

• **Georgia-Pacific Corp.** has appointed Robert O. Lee, formerly with Pacific Telephone in Seattle and San Francisco, as advertising manager and public relations director.

• **Textron, Inc.**, will construct a second plywood plant at Coquille, Ore., a $2 million operation adjacent to the present facility.

• **Drywall Contractors Association** (Southern California) has reelected its president, Wayne Vaughan of West Los Angeles. Frank Donaldson, Santa Ana, is vice president; Fletch Reynolds, La Habra, secretary; Reuben Casey, Garden Grove, treasurer. New directors are S. Douglas Hartley, Canoga Park, and M. R. McColley, San Diego.

• **Arcadia Metal Products** has moved its southern California sales office, headed by Bob Reed, to the new half-million-dollar plant at 801 S. Acacia Ave., Fullerton (MIchigan 3908, LAmbert 5-0291).

Design and the landscape in which we live (cont'd. from p. 12)

to use, and their primary functions are to provide settings for buildings and to impress the passerby. In doing this they have a potentially great contribution to make to the community landscape. This is rarely realized through failure to make use of the full possibilities inherent in free arrangements of trees, shrubs, flowers, ground cover and grass. Maintenance problems are also an inhibiting factor, basically through inadequate budgets. When these public grounds are adequate in size a good sense of outdoor space can be created.

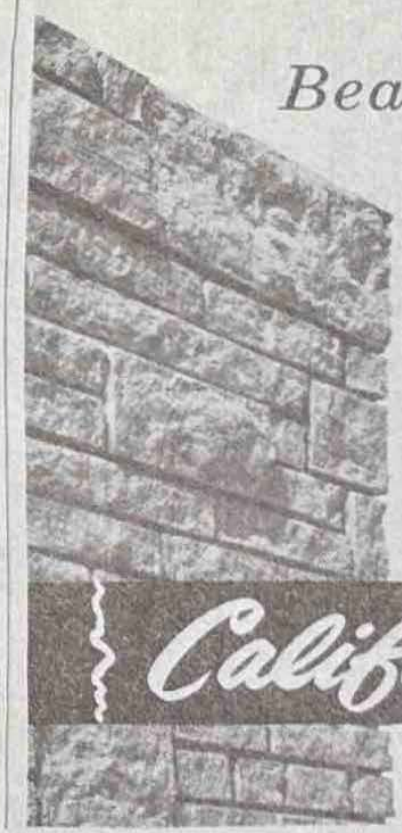
Parks are sections of green outdoor space large enough to be used for circulation and relaxation by the general public. A "keep off the grass" sign will convert a park space to a public grounds space, to see only. Parks are pure humanized landscapes with a primary potential for saving our commmunities from speculative constructivism and the auto. We should all live in parks rather than having to go to parks. Parks embody the greatest opportunities for free landscape design with elements derived largely from nature and a minimum of construction.

Active public recreation spaces and facilities are quite specific and positive in their requirements. Playfields, game courts, playground areas and community buildings tend to be treated in a mechanized functional manner without grace of conscious design. The result is that many of them are about as attractive as a parking lot or a warehouse. When these active programs are merged with passive park spaces the latter may lose more than the former gains. However sensitive design control can take advantage of the more dynamic patterns which result, with multiple variations in combination and contrast.

Most of these landscape problems, except parks, are intimately involved with buildings, that is, with architecture. The relations between these two arts are constant and unavoidable. Architecture, as the art of shelter, enclosing and creating indoor space, has a maximum impact on the landscape around it. As practiced, landscape design and architecture differ in certain important aspects:

1. **Material.** Architecture uses the complex variety of construction materials. Landscape design uses some of these, but primarily the materials of the natural landscape—rock, earth, water, plants. These are also complex in their variations.

2. **Discipline.** Technique and function are usually less dictatorical in



Sandstone Beauty and Texture IN COLOR

Save 40%. California Stone (manufactured sandstone) in eleven subtle decorator-selected colors and shades exceeds natural sandstone in range of colors, and ease of handling with the strength and beauty of the natural product. You save 40% in material cost. Sizes available to give a random ashlar effect. Write or phone for complete details.

California Stone®

a product of Layrite Concrete Products of Seattle, Inc.
RAinier 8681 • 7265 E. Marginal Way

®T.M. Reg.

landscape design than in architecture. The parts of a garden don't hold each other up, and a garden space may have no function at all except to provide a pleasant experience for those looking into or passing through it.

3. Scale. The scale of architecture is a compound of human scale and structural economy, often reflecting the site scale. The scale of landscape design is a compound of human scale and site scale, often reflecting the scale of the surrounding landscape.

4. Continuity. Architecture tends to produce buildings which are complete and self-sufficient works of art, however carefully they may be related to the site. Landscape design must almost always establish a relation or connection between building, site and surrounding landscape. Therefore it tends to establish continuity between them, must relate itself to their forms and hence cannot be self-sufficient. Of course, when architecture is expressed in groups of buildings it also becomes concerned with continuity.

In the final analysis architecture and landscape design are both parts of a larger art of site-space design. In an urban skyscraper there may be no landscape design; in a rural park there may be no architecture. Most problems fall between these extremes, and the proportions of responsibility and control falling to the two fields will likewise vary. Each parcel of land has a block of air-space above it, and the three-dimensional development of this space for use and pleasure is the joint responsibility of architecture and landscape design.

In the most final analysis the landscape is indivisible. It stretches from ocean to ocean, and its limits are those of human vision and motion and such physical obstacles as may exist or be established. The landscape is everything an individual can see from a given station point or circulation route, colored by everything he has seen before and everything he has heard or read about it. This landscape, especially in the more developed urban and suburban areas, is compounded of many separate parcels of real estate and of all the multiple disconnected decisions made by different people at different times on those different parcels.

This is the basic process of landscape design in the large sense. The problem of how to unify and coordinate these multiple decisions so as to produce a harmonious community landscape is being tackled today by planners and redevelopers, but tomorrow it will be ours. Once the proper relations between overall control and democratic processes is worked out, the community landscape will become a physical design problem.

Landscape design today begins with backyards and front yards and all the miscellaneous open spaces left over by buildings, street and utility construction, within the preconceived patterns of standard subdivision and land planning practices. It expands from these problems into larger planned open spaces—parks, school and college grounds, other institutions, parkways and freeways, country clubs, golf courses, etc.

In the future landscape design will become synonymous with the unified design of the humanized landscape. The basic vocabulary for this includes ground forms, buildings, trees, vehicular circulation, pedestrian circulation, green open space, paved open space, water forms. The secondary vocabulary includes all the multiple furnishing, equipping and enriching detailed elements of the man-made world and the world of nature.

Thus landscape design begins with the common or garden variety of local landscaper and ends with the merging of all the space-planning professions and all the other fields of design concerned with improving our world.



I've no worries about TERMITES or ROT...

I built with BOLIDEN SALT pressure-treated lumber

Architects and builders in steadily growing numbers are recommending and using Boliden Salt Pressure-Treated Lumber in home construction because it provides dependable protection against termites and rot. The small extra cost now is a long-range saving.

Time-tested Boliden Salt is approved as a standard preservative by the American Wood Preservers' Assn., American Assn. of State Highway officials, Federal, State and Local agencies and the P.C.B.O.B.

BOLIDEN SALT

Boliden Salt is Clean, Odorless, Fire-Resistant, Nearly Colorless, Paints Readily

At your Local Dealer or Write

McCORMICK & BAXTER CREOSOTING COMPANY

OFFICES: Portland, Oregon, P. O. Box 3344
San Francisco, California, 485 California Street
Glendale, California, 114 W. Broadway

TREATING PLANTS: PORTLAND, OREGON • STOCKTON, CALIF.

Construction News Bulletin

Vol. 62—No. 19 (PA&B) News Section of Pacific Architect and Builder September 15, 1956

D. F. McCormick ..... News Editor
G. M. Westman ..... News Staff
Win Romtvedt ..... Portland News Manager
S. S. Phillips ..... News Staff
Newsroom • 2418 Third Avenue, Seattle 1, Washington • Phone MAin 0285

BUILDING NEWS

Washington, Oregon, Idaho, Montana, Wyoming, Utah, Alaska

- ● Bids Called
- ★ Contract Awards
- ▲ Low Bids—Bid Received
- ■ Planholders—Prospective Bidders

OREGON

●SAFEWAY STORE— Albany, Ore.

Bids to be postmarked midnight, September 27, and sent to Bramwell Construction Co., division of Safeway Stores, Inc., 1208 S.E. 7th Ave., Portland, for construction of Safeway store at Albany. Plans by Max P. Williams and Robert B. Martin, architects, 1919 S. W. 12th Ave., Portland.

Reinforced concrete structure, 90'x150'; canopy of tapered steel cantilevered "I" beams with steel roof deck; glued laminated beams, purlins with 2" tongue and groove hemlock roof decking, rigid insulation and built-up roof; brick exterior; 60' sign tower; aluminum entrance doors with automatic door operators; painted gypsum board interior finish; asphalt tile in salesroom.

WB 9-8. Previous report 7-10

●U.S.A.R. FACILITY IMPROVEMENTS— Astoria, Ore.

Bids to be opened 2 p. m., September 24, by Corps of Engineers, Seattle District, 4735 E. Marginal Way, Seattle, for improvements to building at the U.S.A.R. facility, 176 W. Astor, Astoria, Ore.; ENG-45-108-57-31. Plans with district engineer, above address. Bid bond 20%.

Planholders: Fred F. Anderson, 2599 Grand Ave., Astoria; Avondale Construction Co., 1834 S.E. 8th, Portland; Crestview Construction Co., 10500 S.E. 82nd, Portland; Harney County Homes Inc., Burns, Ore.; John Helstrom, Box 835, Astoria; A. R. John Construction Co., 8228 S.E. 17th, Portland; V. E. Malen, 854 Alameda, Astoria; Walter Mathre, 374 Klatskanine Ave., Astoria; Albert Mittet, 397 Kensington, Astoria; Portland Construction Co., 3939 N.E. Cully Blvd., Portland; E. E. Settergren, 3723 S.E. 21st, Portland; Thompson & Georgeson Inc., 1924 S.E. 6th, Portland. DM 9-7. Previous report 8-30

■HIGH SCHOOL ADDITION—Bandon, Ore.

Planholders announced for addition to Bandon High School. Bids to be opened 8 p. m., September 18, by School District No. 54-C, Coos County, Alice Gallier, clerk, Bandon. Plans with Dougan & Heims, architects, 401 Royal Bldg., Portland. Certified check, cash or bid bond of $50.

Planholders: Moore & Associates, 923 S.W. 17th Ave., Portland; Starr Builders, 1765 S. Main St., Lebanon; Todd Building Co., P. O. Box 27, Roseburg; John Steinmuller, 907 W. 3rd St., Eugene; A. T. Fox, P. O. Box 831, North Bend; H. G. Carl, 1210 S. 22nd St., Salem; T. S. and T. E. Drake, P. O. Box 104, Coquille. WB 9-12. Previous report 8-28

MERCURY REDUCTION PLANT— Blackbutte, Ore.

Construction underway by Mercury & Chemical Corp., lease-holder, New York City, Richard P. Fischer, president, c/o Black Butte Mine, Blackbutte, for a new mercury reduction plant as part of a $250,000 redevelopment plant at the mine. Plans include 100-ton daily capacity plant, ore chutes, ore bins, air compressor house, assay office, general offices, roads and renovation of mine shafts and tunnels. Completion time November 1.

DW 9-7. Previous report 12-23

▲ROOFING— Bonneville Dam, Ore.

Bids opened by Corps of Engineers, Portland District, 628 Pittock Block, Portland, for re-roofing hydraulic laboratory buildings No. 10, 12 and 16 at Bonneville Dam, 40 mi. east of Portland, Columbia River; CIVENG-35-026-57-44. LOW BIDS: Louis Neuman, 1117 N. 38th, Salem, $10,864; Pruitt Building Service, 2838 N.E. Glisan St., Portland, $10,908; Frank Hochfeld, 2838 N.E. Glisan St., Portland, $11,368. Bids opened September 6.

WB 9-8. Previous report 8-18

★PAINTING, SITE WORK— Clackamas, Ore.

Award to Oregon Asphaltic Paving Co., 0441 S.W. Porter St., Portland, $5,700 (using Alternate A) by Oregon State Fish Commission, M. C. James, state fisheries director, 307 State Office Bldg., Portland, for paving work at Clackamas Research Laboratory near Clackamas. Award on painting is pending. WB 9-8. Previous report 9-5

▲NATIONAL GUARD ARMORY— Clackamas, Ore.

Bids opened by Oregon State Military Department, 412 State Office Bldg., Salem, for one-unit National Guard armory at Camp Withycombe near Clackamas, Ore. Plans by John F. Jensen, architect, 2266 N.W. Lovejoy St., Portland. BIDDERS: A. C. Edmon, 4120 S.E. Gladstone St., $130,909; Teeples & Thatcher, 4205 N.E. Cully Blvd., $142,711; Richard L. Martin, P. O. Box 482, Oswego, $143,500; Charles R. Schmiedeskamp, 1008 S.W. 6th Ave., $147,000; Lorentz Bruun, 3636 S.E. 20th Ave., $147,373; Walker & Green, Route 3, Box 207, Oregon City, $157,070. Of Portland except as noted. Bids opened September 5.

WB 9-8. Previous report 8-17

▲MECHANICAL WORK— Corvallis, Ore.

Bids opened September 4 by city recorder, George Simerville, at office of City Manager, Corvallis, for mechanical work in connection with fire station at 5th and Van Buren Sts. Plans by George Guins, structural engineer, 1836 N.W. Overton St., Portland. LOW BIDS—Basic: Near & Starr, Corvallis, $13,196. Alternate A: Near & Starr, $19,119. Alternate B: Beaver Plumbing Co., 117 N. 2nd St., Corvallis, $22,759. Estimates were $20,000, $22,500, $24,750. Mechanical work will be added to general contract held by Quentin Greenough, 361 "A" St., Corvallis, and Alternate A is expected to be exercised.

WB 9-8. Previous report 8-23

●RECREATIONAL SYSTEM— Corvallis, Ore.

Bids to be opened 2 p. m., October 11, by Oregon State Board of Higher Education, Earl M. Pallett, secretary, (Eugene), at Oregon State College, Administrative Council room, Commerce Bldg., Corvallis, for manufacture and complete installation of refrigeration system in a new Agricultural and Biological Science Bldg. to be built at the college. Plans with Burns, Bear, McNeil & Schneider, architects, 2940 S.E. Belmont St., Portland. $20 deposit. Certified check or bid bond 10%. W. Bruce Morrison, Cascade Bldg., is consulting engineer for project. WB 9-8

SCHOOL ADDITIONS, HEATING PLANT ALTERATIONS— Culver, Ore.

Bond election will be held September 18 by Culver School District No. 4, Culver High School, Culver, for $48,000 bond levy to finance construction of a four-room addition to the Culver elementary school and alterations to the heating plant. SC 9-7

■ELEMENTARY SCHOOL— Dallas, Ore.

Planholders announced for Whitworth Grade School Bldg., Dallas. Bids to be opened 8 p. m., September 18, by School District No. 2, Polk County, Gayle Kreason, clerk, Dallas High School, Dallas. Plans with Freeman, Hayslip, Tuft & Hewlett, architects, 2040 S.W. 3rd Ave., Portland. $50 deposit.

Planholders: Grubb, Johnson & Rose, Crees Bldg., Corvallis; John M. Steinmuller, Jr., 907 W. 3rd St., Eugene; D. W. Knight,

Route 40, Box 306, Albany; E. E. Batterman, 147 N. Commercial St., Salem; Industrial Building Co., 940 Pacific Highway N., Eugene; Robert D. Morros, 3365 S. Commercial St., Salem; Starr Builders, 1765 S. Main St., Lebanon; H. G. Carl Construction Co., P. O. Box 387, Salem. WB 9-12. Previous report 9-7

★**SCHOOL CONSTRUCTION—Estacada, Ore.**

Award by School District No. U.H. 6, Clackamas County, James W. Smith, clerk, Estacada Union High School, Estacada. Plans by Stokes & Allyn, architects, 205 Hughes Bldg., Portland. AWARD: Lorentz Bruun, 3636 S.E. 20th Ave., $40,644 (basic plus alternates); J. W. Hannaman, 2215 S.E. Gladstone St., $42,442; Sergeant Construction Co., 5205 Montavilla Station, $44,221; Sterner Construction Co., 13845 S.E. Rhine St., $46,365. Of Portland. Bids opened September 4. WB 9-8. Previous report 8-29

■ **HIGH SCHOOL— Eugene, Ore.**

Planholders announced for new North Eugene High School on Silver Lane in the River Road District. Bids to be opened 8 p. m., September 21, by Eugene School District No. 504-C, Clarence Hines, superintendent-clerk, School Administration Bldg., 275 7th Ave. E., Eugene. Plans with school district. Plans by Freeman, Hayslip, Tuft & Hewlett, architects, 2040 S.W. 3rd Ave., Portland.

Planholders: Gale M. Roberts, 2220 "G" St., Springfield; Industrial Building Co., P. O. Box 869, Eugene; W. H. Shields, 252 Taylor St., Eugene; Waldo S. Hardie, 160 Madison St., Eugene.

Planholders: Albert Vik & Son, 160 Madison, Eugene; Youel & Huffman, 170 W. Hilliard Lane, Eugene.

WB 9-7. Previous report 8-24

▲**RESIDENCES, OFFICE BUILDING— Eugene, Ore.**

Bids opened by U. S. Forest Service, Frank Walisch, regional supply officer, 729 N.E. Oregon St., P. O. Box 4137, Portland, for construction of three residences and an office building at Blue River Ranger Station, approximately 44 mi. east of Eugene, on McKenzie River Highway, Willamette National Forest. BIDDERS: Deller Construction Co., 636 Western Drive, Eugene, $64,712; Cascade Contractors, 175 E. 4th Ave., Eugene, $66,898; Marvin L. Johnson, 1325 W. 8th St., Albany, $67,230; Hampton C. Platt, P. O. Box 27, Salem, $73,000; George L. Miller, Vida, $75,347. Bids opened September 4. WB 9-7. Previous report 8123

SKI LODGE— Klamath Falls, Ore.

Subcontracts are being negotiated by Troy Cook, 1939 S. 6th St., Don Divens, 123 N. Spring and Howard Pernell, 324 Riverside St., Klamath Falls, owners of Tomahawk Ski Area, for construction of new ski lodge at the site, 22 miles northwest of Klamath Falls on Lake of the Woods Highway. One-story; 76'x24'; frame and natural log constructing; to include stone fireplace in ski room, restaurant facilities, first aid room, lavatory facilities, glass-in front observation view-point. Dormitory facilities are planned for 1957.

Also to be constructed is 3,000' novice ski run with non-dangerous gate; main run from 5,000' above sea level at top of hill 636' above the lodge; 2,200' long; to end almost in front of view window at lodge; Poma-ilft tows for runs; main run, 150' to 400' wide, to be cleared of big rocks and other obstructions; grade to be as much as 44 degrees, over-all average of 31 degrees. Completion set for late November. ZZ 9-12

▲**SCHOOL REMODELING, ADDITION— Lorane, Ore.**

Bids received by Lorane School District, Lorane, for remodeling and constructing an addition to the Lorane High School. Plans by Balzhiser & Seder, architects, 1920 Franklin Blvd., Eugene. Bids opened September 4. LOW BIDS: J. M. Steinmuller, Jr., 907 W. 3rd Ave., Eugene, $7,847; Bailey & Johnson, 151 Lawrence, Eugene, $9,597; Cascade Contractors, 175 E. 4th Ave., Eugene, $9,971.

DW 9-11. Previous report 8-28

●**SAFEWAY STORE— Newberg, Ore.**

Bids to be postmarked midnight, September 24, and sent to Bramwell Construction Co., division of Safeway Stores, Inc., 1208 S.E. 7th Ave., Portland, for remodeling of former Pontiac agency building in Newberg for Safeway Store. Plans by Max P. Williams and Robert B. Martin, architects, 1919 S.W. 12th Ave., Portland.

Includes brick facing and repainting on exterior; painted gypsum board walls; asphalt tile flooring; additional parking facilities. WB 9-8. Preivous report 4-19

■ **CHURCH— Newberg, Ore.**

Planholders announced on construction of a new church and remodeling the existing church for Zion Evangelical Lutheran Church, Earl E. Sandager, building committee chairman, 311 S. River St., Newberg. Bids will be opened 7:30 p. m., September 17, by Rev. S. Martyn, pastor, at the above address. Plans with Wicks & Brown, architects, 1129 Commercial St., Astoria.

Planholders: Beebe Construction Co., 2134 N. Flint Ave., Portland; Howard Brewton, 716 N.E. 3rd, Portland; James V. Ellis, Portland; O. J. McCoy of Western Construction Co., N. Franklin St., Newberg.

DC 9-12. Previous report 9-5

▲**OFFICE BUILDING— Oakridge, Ore.**

Bids opened by U. S. Forest Service, Frank Walisch, regional supply officer, 729 N.E. Oregon St., P. O. Box 4137, Portland, for construction of an office building and water system at Oakridge Ranger Station site, Oakridge, Lane County, Ore., Willamette National Forest; Bid No. 31. BIDDERS: Henry J. Stack, P. O. Box 423, Oakridge, $18,658; Deller Construction Co., 636 Western Drive, Eugene, $18,683; M. R. Holst, P. O. Box 371, Oakridge, $19,286; Mann Construction Co., P. O. Box 577, Redmond, $21,500; John L. Sethmann, Oakridge, $23,902. Bids opened September 4. WB 9-7. Previous report 8-21

★**BUILDING MODIFICATION— Ordnance, Ore.**

Award to Foster Sheet Metal, 1207 W. Imnaha, Kennewick, $25,285, by Corps of Engineers, Walla Walla District, 602 City-County Airport, Walla Walla, for modification to ammunition normal maintenance building at Umatilla Ordnance Depot, Ordnance, Ore.; ENG-45-164-56-47.

SP 9-11. Previous report 8-14

●**COUNTRY CLUB— Pendleton, Ore.**

Bid opening extended from September 17 to 4 p. m., September 21, by Pendleton Country Club, Joe B. Green, secretary, N.W. Garden Ave., Pendleton, for construction of a clubhouse in Pendleton. Bids will be opened in the office of the architect, Wesley V. Korman, 208 Raley Bldg., Pendleton.

DC 9-11. Previous report 8-30

●**EXTERIOR MAINTENANCE— Portland, Ore.**

Bids to be opened 10 a. m., September 19, by Procurement Office, 337th Fighter Group, Portland International Airport, for exterior maintenance of 22 buildings at Portland Air Base; Inv. No. 36-608-57-15. Completion time, 75 calendar days. WB 9-8

RECREATIONAL CENTER—Portland, Ore.

An alternate measure will be placed on the November 6 general election ballot by the City of Portland, Fred L. Peterson, mayor, City Hall, Portland, to repeal the measure approved last May to limit the $8,000,000 exposition-recreation center to the east side. Measure also intended to restore original powers to the E-R Commission. Th other measure on the ballot would split the facility between Delta Park area and Public Auditorium area.

WB 9-11. Previous report 8-18, 6-7

●**OFFICE BUILDING— Portland, Ore.**

Bids to be opened 11 a. m., September 28, by Oregon State Board of Higher Education, Dr. Earl Pallett, secretary, in the auditorium, Portland State College, 1620 S.W. Park Ave., for new office building for General Extension Division on S.W. Park Ave. between Market and Mill Streets. Plans with Stewart & Richardson, architects, 219 S.W. Stark St., Portland. $25 deposit. Two contracts, general (including electrical) and mechanical.

Two-story and basement structure; approximately 5,000 sq. ft. on each floor. Concrete basement; reinforced concrete exterior walls and first floor; wood frame second floor, roof and interior partitions. Front has brick veneer exterior finish, aluminum sash and tempered glass doors on main entrance; steel sash on north wall; built-up roof; second floor unfinished. Offices for general extension division on first floor have lath and plaster finish wall finish, asphalt tile flooring and acoustical tile ceilings; gas-fired, hot water heating system; incandescent lighting.

WB 9-12. Previous report 7-28

STEAM DISTRIBUTION FACILITIES— Portland, Ore.

Bid call cancelled due to insufficient funds by Oregon State Board of Higher Education, Earl M. Pallett, secretary, room 117, Administration Bldg., University of Oregon Medical School, Portland, for extension of steam distribution system from tuberculosis hospital to the medical school to serve the nurses's dormitory and crippled children's division. Bid opening was scheduled for September 7. WB 9-12. Previous report 8-14

★**HOYT STREET CLINIC— Portland, Ore.**
(Estimated cost $72,000)

Award by Hoyt Street Clinic, for clinic building at 2049 N.W. Hoyt St., Portland. Plans by Skidmore, Owings & Merrill, architects, 2040 S.W. Jefferson St., Portland. AWARD: Norman Builders, 2805 S.W. 3rd Ave., Portland, $64,561. OTHER BIDS: Wilson & Dean, 1016 N.E. 61st Ave., Portland, $68,298; Barnard & Kinne, 4200 S.W. 103rd Court, Beaverton, $69,461. Bids opened September 7. WB 9-12. Previous report 8-29

■ **DORMITORY— Portland, Ore.**

Planholders announced for women's dormitory at west end of Portsmouth Ave., overlooking Willamette River, on University of Portland campus. Bids to be opened 2 p. m., September 25, by controller, A. B. Peterschmidt, President's Office, Administration Bldg., 4730 N. Willamette Blvd., Portland. Plans with Stanton, Boles, Maguire and Church, architects, 708 S.W. Stark St., Portland. $75 deposit. Certified check or bid bond 10.

Planholders: Beebe Construction Co., 2134 N. Flint Ave.; Ross B. Hammond Co., P. O. Box 3901; Thompson & Georgeson, Inc., 1924 S.E. 6th Ave.; A. V. Petersen, P. O. Box 2368; Paul B. Emerick, 4340 SE. 174th Ave.; James S. Hickey, Inc., 523 S.E. Stark St.; Henry M. Mason Co., 2206 N.W. Thurman St. Of Portland. WB 9-12. Preivous report 8-29

■ **HIGH SCHOOL— Port Orford, Ore.**

Planholders announced for new Port Orford-Langlois High School building. Bids to be opened 8 p. m., September 20, by School District No. 2CJ, Curry County, Helen Slocum, clerk, Port Orford, Ore. Plans with Freeman, Hayslip, Tuft & Hewlett, architects, 2040 S.W. 3rd Ave., Portland. $50 deposit.

Planholders: A. T. Fox, P. O. Box 831, North Bend; John M. Steinmuller, Jr., 907 W. 3rd Ave., Eugene; D. W. Knight, Route 4, Box 306, Albany; Charles R. Schmiedeskamp, 1008 S.W. 6th Ave., Portland; Todd Building Co., P. O. Box 27, Roseburg; Melvin L. Johnson, 1325 W. 8th Ave., Albany; H. G. Carl Construction Co., P. O. Box 387, Salem; M. & S. Construction Co., Route 1, Box 145E, Sutherlin. WB 9-12. Previous report 9-1

TRAILER COURT— Summer Lake, Ore.

Frank Graves, owner of Summer Lake Lodge, Summer Lake, will supervise remodeling and expansion of the lodge which is to be completed for fall and winter hunting season. Included in the work are a 9'x12' refrigeration room for meats and vegetables and a modern trailer court for twelve trailers. Future plans include construction of rental cabins for tourists and hunters. Lodge dining room is being enlarged, tables added and new entrance constructed. ZZ 9-12

SCHOOL ADDITION— The Dalles, Ore.

Bids rejected as too high by School Dis-

trict No. 14C, Wasco County, Earl Tenold, clerk, Route 3, The Dalles, for addition to Petersburg School, about six mi. southeast of The Dalles. Plans will be redrawn by Boyd Jossy, architect, 12730 S.E. McLoughlin Blvd., Portland.
WB 9-8. Previous report 8-9

WASHINGTON

■ **ELEMENTARY SCHOOL—** **Aberdeen, Wash.**

Additional planholders announced for the construction of the West Aberdeen elementary school at Scammel and Cherry streets, in Aberdeen. Bids will be opened 8 p.m., September 11, by Aberdeen School District No. 5, Grays Harbor County, H. J. Kramer, superintendent, Box 100, Aberdeen. Plans with Jensen & Mills, architects, 308 S. Tacoma Ave., Tacoma. $20 deposit. Certified check, cashier's check or bid bond 5%.

Additional planholders—GENERAL: Sanford Wright, Box 809, Everett; Andy Johnson, 339 Eklund, Hoquiam; Ed Lundgren, 809 N. "K", Aberdeen; Grays Harbor Construction Co., 412 S. Park, Aberdeen. ELECTRICAL: Carl T. Madsen, Box 1545, Tacoma. GC 9-8. Previous report 9-1

HOSPITAL— **Aberdeen, Wash.**

(Estimated cost $1,500,000)

Plans announced by Judge Mitchell G. Kalin, chairman of executive committee for current rebuilding fund campaign, for construction of a new 100-bed Grays Harbor Community Hospital in Aberdeen. Funds from the Hill-Burton act would provide 40% of the cost. Construction will require two to three years for completion. SC 9-11

JUNIOR HIGH SCHOOL— **Auburn, Wash.**

Working drawings underway by Jones, Lovegren, Helms & Jones, architects, 706 Republic Bldg., Seattle, for construction of a new junior high school in Auburn. Bids will be advertised about mid-October by Auburn School District No. 408, King County, Rolland Upton, superintendent, 9420 S. 240th Place, Auburn.

Project involves six one-story buildings consisting of two six-classroom structures; administration-library building; gymnasium, kitchen, cafeteria building; home economics, arts and crafts, shop building; boiler room structure. Total area will be 46,000 sq. ft. Covered walkways will connect the buildings. Plans provide for future expansion of classrooms and gymnasium. Structural components and finishes: wood frame, concrete slab floor, brick veneer end walls, glass side walls, built-up roofing with batt insulation, glued laminated beams and columns, aluminum sash, plasterboard interior wall finish, asphalt tile flooring with ceramic tile over glazed block in toilets and showers, acoustical tile ceilings, wood doors, chalk and tack boards, built-in wood cabinets, oil fired hot water heating system with two boilers. Mechanical, electrical engineer is Erwin L. Weber, Medical Arts Bldg., Seattle; structural engineer, Peter Hostmark, Mayberg & Associates, Lloyd Bldg., Seattle.
GW 9-11

DEPARTMENT STORE— **Bellevue, Wash.**

Demolition is underway in the quarters in Bellevue Shopping Square formerly occupied by Thompson's Drugs, in preparation for installation of a J. J. Newberry Junior Department Store. Construction will be by Hainsworth Construction Co., 3028 Western Ave., Seattle. Plans by James Klontz & Associates, architects, 108 1st S.W., Auburn. The new store will occupy the former Frederick and Nelson building as well as drug store site and several shop spaces in west send of the block. Project includes cutting new entrance through drug store site toward a loading platform for store; closing off present alley with new construction on west end of block; extensive remodeling of building; enlarging former Frederick and Nelson site from 20,000 sq. ft. to 32,000 sq. ft. Plans call for a one-floor store with second floor to be used for storage space, offices and employe facilities.
SC 9-7

★ **PAINTING—** **Bremerton, Wash.**

Award to H. P. Fisher & Sons, 5252 Fontanelle Place, Seattle, $24,910, by Department of the Navy, Bureau of Yards and Docks, Bldg. 78, U. S. Naval Base, Bremerton, for exterior painting of crane No. 28 and Buildings 420 and 508 at the Puget Sound Naval Shipyard in Bremerton; NBy-2042; Spec. No. 2042/56. Bids opened August 30.
SP 9-7. Previous report 8-18

MUSEUM— **Cashmere, Wash.**

Construction will start this fall for a museum to be located on a five-acre tract east of the Wenatchee River in Cashmere. SC 9-11

▲ **SCHOOL ADDITION—** **Ephrata, Wash.**

Bids received by Ephrata School District No. 165, Ephrata, for construction of a four-classroom addition to the Grant elementary school in Ephrata. Plans by Kenneth W. Brooks, architect, 707 W. 5th Ave., Spokane. LOW BID: Allied Construction Co., 115 "F" St. N.W., Ephrata, $65,385. ONLY OTHER BID: Hansen & Hermann, Ephrata, $62,887.
SC 9-8

▲ **OXYGEN, ELECTRICAL SYSTEM REPAIRS—** **Fort Lewis, Wash.**

Bids received by Department of Army, purchasing and contracting office, Fort Lewis, for extension of oxygen distribution system and emergency power facilities to building 14032 Madigan Army Hospital, Fort Lewis, Wash.; AVI-45-016-57-33. LOW BIDS: R. G. Foster, 5324 S. 84th, $5,789; Custer Construction Co., 8230 Custer Road, S.W., $6,378; Don. Pravitz, 4606 S. "G," $6,811. All of Tacoma. Bids were opened September 5.
GW 9-7. Previous report 8-25

▲ **CUBICLE SCREENING SUPPORTS—** **Fort Lewis, Wash.**

Bids received by Department of Army, purchasing and contracting office, Fort Lewis, for installation of cubicle screening supports in six ward buildings at Madigan Army Hospital, Fort Lewis, Wash.; Inv. No. AVI-45-106-57-36. LOW BIDS: Bryan W. Burtch, Inc., 2915 1st Ave. S., Seattle, $8,755; Shaw Supply Co., 755 Market St., Tacoma, $9,482; F. T. Crowe & Co., 329 2nd Ave. W., Seattle, $10,307. Bids were opened September 5.
GW 9-7. Previous report 8-31

■ **BUILDING REHABILITATION—** **Fort Lewis, Wash.**

Additional planholders announced for the rehabilitation of buildings at Madigan General Hospital, Fort Lewis, Wash; ENG-45-108-57-33. Bids will be opened 2 p.m., September 20, by Corps of Engineers, Seattle District, 4735 E. Marginal Way, Seattle. Plans with district engineer, above address. Bid bond 20%.

Additional planholders: Cascade-Olympic Construction Co., Route 1, Box 131, Shelton; Rome Co., 3721 S. Tacoma Way, Tacoma; Addco Inc., 1117 "A" St., Tacoma; Capital Plumbing and Heating Co., Box 126, Olympia; Lent's Inc., 279 4th, Bremerton; P. S. Lord Mechanical Contractors, 4507 S.E. Milwaukie Blvd., Portland, Ore.
GW 9-8. Previous report 9-6

HIGH SCHOOL— **Freeman, Wash.**

(Estimated cost $426,000)

Bids will be called soon by Freeman School District No. 358, Howard Muse, superintendent, Valleyford, for construction of a new high school at Freeman. Plans by Kenneth Storment, architect, Hutton Bldg., Spokane. The district will use bond issue and special levy revenues of $333,414 in the project; school board has allocated remaining funds necessary for the job. PN 9-7

● **HANGER DOOR MODIFICATION—** **Geiger Field, Wash.**

Bids will be opened 2 p.m., October 10, by U.S. Air Force, Procurement Office, Geiger Field, Spokane, for modification of alert hangar doors, Bldg. 1060, Geiger Field; IFB 45-614-57-23. Specifications with above office. Bid bond 20%. CE 9-11



Lightest handful of concrete masonry material...

CASCADE PUMICE

The extra light weight of Cascade Pumice Concrete saves you money on handling costs, speeds up building. When weight is a factor, always specify Cascade Pumice Concrete for best results.

Cascade Pumice Concrete gives you tops in:



LIGHT WEIGHT
STRENGTH
FIRE RESISTANCE
HIGH INSULATION VALUE

Insist on A.S.T.M. specs.:

When specifying ANY concrete masonry demand blocks "in accordance with ASTM specs., on adequate foundation." Also Bond Beam Blocks, used where needed, and masonry problems.

WILLIAMSON Cascade PUMICE

Plant and Office:
P. O. Box 1083 • Bend, Oregon

▲TOUR CENTER— Grand Coulee, Wash.

Bids received by Bureau of Reclamation, P. R. Nalder, project manager, Box 368, Ephrata, for construction of Grand Coulee Dam Tour Center; Spec. No. 117C-388. LOW BIDS: Ruud Construction Co., 602 Realty Bldg., Spokane, $92,150; Cherf Bros., Inc., and Sandkay Contractors, Inc., Box 938, Ephrata, $99,480; Granger Builders, Wilson Creek, $103,695. Engineer's estimate, $68,000. Bids were opened September 11.

GW 9-12. Previous report 7-28

●BLEACHERS— Hoquiam, Wash.

Bids will be opened 4 p. m., September 20, by Hoquiam School District No. 28, Frank H. Bowen, secretary, 312 Simpson Ave., Hoquiam, for furnishing and installing folding bleachers in the high school at Hoquiam. Plans with above office and with John Graham & Co., 1426 Fifth Avenue Bldg., Seattle. SC 9-12

▲ADMINISTRATION BUILDING— Ice Harbor Lock and Dam, Wash.

Bids received by Corps of Engineers, Walla Walla District, 602 City-County Airport, Walla Walla, for construction of an administration building at Ice Harbor Lock and Dam, Wash.; CIVENG-45-164-57-6. LOW BIDS: A & G Construction Co., 803 S. Park Road, Spokane, $124,472; Rupp Bros. Construction Co., 902 Prosser, Pasco, $130,853; Lewis Hopkins Co., 221 S. 3rd, Pasco, $134,194. Engineer's estimate, $111,921. Bids were opened September 7.

GW 9-8. Previous report 8-31

ELEMENTARY SCHOOL, TEACHERS' HOUSING— Inchelium, Wash.

Working drawings nearly completed by Frederic Almond Long, architect, 500 Columbia Bldg., Spokane, for construction of an elementary school and four teacher housing units at Inchelium, for Inchelium School District No. 30, Harry F. Charbonneau, superintendent, Inchelium. Electrical engineer is Joseph M. Doyle, 509 Realty Bldg.; mechanical engineer, George C. Murray, 603 Mohawk Bldg., both Spokane. Fall construction planned.

SCHOOL: To include four classrooms, administrative offices, stage, kitchen, multipurpose room, lockers, craft room, covered inter-connecting way. One-story; no basement; 13,800 sq. ft. area; brick and block construction; masonry plaster interior; concrete slab on grade; glued laminated steel beams; steel columns; built-up roof, mopped on tar and gravel; architecturally projected windows; double strength wire glass and Lo-tran; 2" fiberglass blanket insulation in ceilings, perimeter, and some exposed frame walls; addition of low pressure steam heating system to existing oil-fired system; block or plaster partitions; concrete slab floors; ceramic, asphalt, acoustical tile. Gravelled parking area, 100'x20', 2,000 sq. ft.; 3,000 sq. ft. gravelled roads. HOUSING: Includes two two-bedroom houses, one three-bedroom house, one three-unit apartment house. One-story; 4,600 sq. ft.; full basement; frame construction; composition shingles, built-up roof; wood stairs; drywall interior partitions; concrete floors; sliding windows, wood sash; hardwood, linoleum flooring; oil-fired furnace, electric panels in apartments; 2" fiberglass insulation in ceilings, 1" wood sheathing board combined with insulation in walls. CE 9-11

ELEMENTARY SCHOOL ADDITION— Keller, Wash.

(Estimated cost $30,000)

Plans completed and sent to Olympia for approval for construction of a multipurpose addition and repairs to the elementary school on the San Poil River Road in Keller, for Keller School District No. 3. Plans by Frederic Almond Long, architect, 500 Columbia Bldg., Spokane. Construction to start late fall.

One-story; no basement; 1,4440 sq. ft.; reinforced concrete footings; concrete block walls; concrete slab floors; composition shingle roof on trussed rafters; steel sash; drywall partitions; asphalt tile flooring; acoustical tile ceilings; fir doors, cabinets; special equipment includes sink, kitchen equipment and dishwasher; blanket insulation in ceilings; rot air heating system, oil fuel. Project includes boiler room and kitchen, additional toilets in rest rooms. CE 9-8

●STRUCTURAL STEEL— Larson AFB, Wash.

Bids to be opened 2 p. m., September 27, by Boeing Airplane Co., 7752 E. Marginal Way, Seattle, for furnishing in excess of 1,000 ton top quality structural steel, as part of the construction of a two-place hangar at Moses Lake Flight Center, Larson AFB, Grant County, Wash. Plans with Naramore, Bain, Brady & Johanson, architects and engineers, 904 7th Ave., Seattle. $25 deposit. Plans will be available about September 13. Certified check, cashier's check or bid bond 5%. GC 9-7

●HANGAR— Larson AFB, Wash.

Bids will be opened 2 p. m., October 9, by Boeing Airplane Co., at Plant 2, Seattle Division, for construction of a two-place paint hangar at Moses Lake Flight Center, Larson AFB, Grant County, Wash. Plans with Naramore, Bain, Brady & Johanson, architects and engineers, 904 7th Ave., Seattle, on or about September 24. $75 deposit. Not more than three sets of contract documents may be obtained by each general contractor bidder, whether single firm or joint venture. Contract will constitute a subcontract between Boeing Airplane Co. and U. S. Government.

Project includes but is not limited to the following: excavation for subgrade plenums; foundation walls and footings; footings for structural steel frame; reinforced concrete airplane-bay slabs with supporting columns and footings; compacted backfill. SP 9-12

★BUILDING REPAIRS— Laurier, Wash.

Award to R. H. Haley, Moscow, Idaho, $5,245, by General Services Administration, room 126 Federal Office Bldg., Seattle, for building repairs, painting at U.S. Border Station, Laurier, Wash.; Project No. CR-10-545. GW 9-11. Previous report 8-29

VOCATIONAL BUILDING— Longview, Wash.

(Estimated cost $220,000)

Plans will be complete October 1 by McGuire & Muri, architects, 231 Broadway, Tacoma, for construction of a vocational building at 15th and Michigan in Longview, for Longview School District No. 122, 28th and Lilac St., Longview. Completion expected by August, 1957.

One-story; no basement; 100'x190', 19,650 sq. ft. area; reinforced concrete footings and foundation; poured concrete, solid masonry walls; concrete slab floors; steel girders; flat steel poured gypsum roof; masonry, frame partitions; steel windows; paint, plaster exterior and interior wall finish; metal trim; wood block, asphalt and ceramic tile floor finish; acoustical ceilings; metal doors; wood cabinets. Special equipment includes folding doors, corrugated plastic panels, refrigeration, sprinkling systems, blackboards, fire doors; rigid insulation in roof; steam heating system, oil fuel; mechanical exhaust ventilation system. SP 9-7

OFFICE BUILDING—Mercer Island, Wash.

(Estimated cost $30,000)

Plans completed by Richards and Carmin, architects, 300 Orpheum Bldg., Seattle, for construction of an office building to be located in Mercer Island Shopping Square. Bids will be called about September 24 for opening about October 15 by owner, A. H. Lundberg Pulp Engineering Co., Mercer Island. Select list of bidders.

Two-story; 3,200 sq. ft. on a sloping site; frame walls; concrete slab floors; flat built-up roof; cedar siding exterior wall finish; some glass wall area; luminous ceilings throughout; parking for 16 cars on both levels, lower floor at the back and upper floor at the front.

GW 9-11. Previous report 7-14

TERMINAL— Moses Lake, Wash.

(Estimated cost $60,000)

Bids will be opened this fall by Consolidated Freightways, Jack Cronkite, manager, Moses Lake, for construction of Consolidated Freightways terminal on Wheeler Road, Moses Lake, near building now being leased by the company. Plans by Ralph J. Bishop, architect, W. 1523 Riverside Ave., Spokane. One-story; concrete footings and foundation; concrete slab floors; parking area; freight handling to have about 20 loading stalls, 10 on each side; office in front. CE 9-7

▲SCHOOL ADDITIONS— Othello, Wash.

Bids received by Othello School District No. 147-165-55, Lutacaga Elementary School, Othello, for construction of additions to existing school building, including gymnasium, homemaking and music sections. Plans by Victor Louis Wulff, architect, 1526 W. Riverside, Spokane. Bids opened September 6. LOW BIDS—GENERAL: Murray Construction Co., Box 193, Kennewick, $341,852; Jensen-Rasmussen Co., Box 89, Sunnyside, $349,950; Cherf Bros. & Sandkay, Inc., Box 938, Ephrata, $385,000. MECHANICAL: Grant County Plumbing & Heating, Box 1567, Moses Lake, $50,821; Standard Plumbing & Heating, E. 1801 Sprague Ave., Spokane, $60,993; James Smyth Plumbing & Heating, N. 216 Division, Spokane, $63,782. ELECTRICAL: Briggs Electric, N. 1303 Monroe, Spokane, $138,594; Electric Smith, E. 123 Sprague, Spokane, $141,182; Power City Electric, N. 920 Howard St., Spokane, $144,960.

SC 9-11. Previous report 8-28

●ELEMENTARY SCHOOL— Pacific Beach, Wash.

Bids will be opened 8 p. m., September 26, by Pacific Beach School District No. 76, Grays Harbor County, Pacific Beach, for construction of an elementary school in the district. Plans with Jensen & Mills, architects, 308 S. Tacoma Way, Tacoma. $20 deposit. Bid bond 5%. Structural engineers are Smith & Murray, Perkins Bldg.; mechanical engineers are Whitson-Miller, 2507 "A," both of Tacoma.

One-story; no basement; 68'x141', 8,103 sq. ft.; irregular rectangular shape; concrete footings and foundation; frame walls; concrete slab floors; timber girders, beams, columns; glued laminated truss roof; frame partitions; steel windows; wood, plaster, paint exterior and interior wall finish and trim; drywall partitions; asphalt tile; acoustical ceilings; wood doors, cabinets; corrugated plastic panels, blackboards; warm air heating system, oil fuel; mechanical exhaust ventilating system.

SP 9-12. Previous report 8-31

CHURCH— Pasco, Wash.

(Estimated cost $60,000)

Plans announced by Emmanuel Baptist Church of Pasco for construction of a new church on 4½-acre site at Chase and Henry Streets in Pasco. First unit of a complete plant will be a chapel with seating capacity of 375 and an educational building. SC 9-7

FIRE HALL— Pasco, Wash.

(Estimated cost $15,000)

Plans announced by Mayor Harry Custer, City Hall, Pasco, for construction of a second fire hall to be located at Court St. and Road 36 in Pasco. Under proposed reciprocal agreement, the rural fire district will purchase the site and deed it to the city in exchange for a five-year lease on th building. New station would be a 32'x600' one-stall building and would temporarily house the rural fire district's pumping truck. Building would also include sleeping and light housekeeping accommodations for firemen. SC 9-12

●GREENHOUSE— Prosser, Wash.

Bids will be opened 2 p.m., September 18, by Board of Regents, 306 Administration Bldg., State College of Washington, Pullman, for construction of a greenhouse at the college's irrigation experiment station at Prosser. Specifications with Philip E. Keene, college architect, Services Bldg., Washington State College, Pullman, and with H. P. Singleton, superintendent, WCS Irrigation Experiment Station, Prosser. Bid bond 5%. Greenhouse to be 30'x51' with headhouse 30'x18'. MH 9-11

★FIELD SHED— Pullman, Wash.

Award to Dix Steel Co., Box 4036, Station B, Spokane, $3,902, by Board of Regents, 306

Administration Bldg., Washington State College, Pullman, for construction of a plant pathology field shed at Pullman. Plans by Philip Keene, college architect, Services Bldg., Pullman. MH 9-12. Previous report 9-5

▲SWIMMING POOL, BATHHOUSE— Quincy, Wash.

Bids received by Ruth Wall, town clerk, Town Hall, Quincy, for construction of a reinforced concrete swimming pool (Schedule 1) and masonry bathhouse (Schedule 2) in Quincy. Plans by Gray & Osborne, consulting engineers, 228 S. 2nd St., Yakima. Bids opened September 4. LOW BIDS—SCHED. 1: Westover & Hope, Quincy, $50,146; Cusick Construction Co., 739 S. Mission, Wenatchee, $50,367; Cherf Bros. & Sandkay, Inc., Box 938, Ephrata, $54,716. SCHED. 2: Westover & Hope, Quincy, $18,754; Big Bend, Inc., 712 Randolph Place, Seattle, $22,909; Cusick Construction Co., Wenatchee, $23,014. SCHED. 3 (Electrical): Bruce Allen Electric, "A" Southeast, Ephrata, and Blue Mountain Construction Co., 2563 W. Highway No. 10, Moses Lake, $5,854 (separate bids).

IG 9-7. Previous report 8-29

RADIO STATION— Renton, Wash.

Construction to be complete about October on new radio station for KLAN in Renton, owner Interlake Broadcasting Co., Clifford Hansen, manager, 7th Ave., and Park, Renton. Contracts have been awarded for the following: transmitter equipment and console, to Heath Radio Co., Quincy, Ill., fabrication and erection of steel towers: Tower Construction Co., Sioux City, Iowa; this to be completed on or before October 15; transmitter building: Busch Construction Co., 15832 96th Ave. S., Renton. GW 9-8

■ PREFLIGHT FACILITIES— Renton, Wash.

Planholders announced for phase two, preflight facilities modernization at Renton Field, Renton. Bids will be opened 2 p.m., September 27, by Boeing Airplane Co., C. L. Bisbee, transport division, Box 707, Renton. Plans with Bouillon & Griffiths, consulting engineers, 1411 Fourth Avenue Bldg., Seattle. $75 deposit. For site inspection contact construction engineer, Boeing Airplane Co., Olive 3414. Bids will be opened privately.

Planholders: Morrison-Knudsen Co., Inc., 603 Hoge Bldg.; S. S. Mullen Construction Co., 621 9th Ave. N.; Sound Construction and Engineering Co., 1300 Aloha; John H. Sellen Construction Co., 228 9th Ave. N.; General Construction Co., 3840 Iowa; J. C. Boespflug Construction Co., 1912 4th Ave. S.; A. F. Mowat Construction Co., 2833 Eastlake; Scheumann & Johnson, 1001 Lloyd Bldg.; Henrik Valle Co., Inc., 413 3rd Ave. W.; Cawdrey & Vemo, 3601 Fremont; Holert Electric Co., 2300 W. Spokane; Automatic Sprinkler Co. of America, 610 W. Idaho. All of Seattle. GW 9-11. Previous report 9-6

CHURCH— Richland, Wash.

(Estimated cost $60,000)

Construction will start soon for new Trinity United Protestant Church at Everest St., MacMurray Ave. and Pine St., in Richland. Plans by Eddy, Carlson & James, architects, N. 1205 Washington St., Spokane. CE 9-12

★DISMANTLING, REPLACING BUILDING— Richland, Wash.

Award to Hoffman Construction Co., 715 S.W. Columbia, Portland, $95,200, by Atomic Energy Commission, Bldg. 703, Richland, for dismantling and replacing a maintenance building inside the Hanford barricades at Richland. SP 9-12. Previous report 8-23

■ LAKEWOOD JUNIOR HIGH SCHOOL— Seattle, Wash.

Planholders announced for the construction of Lakewood Junior High School at 172nd S.W. and 10th Ave. S.W., Seattle. Bids will be opened 2 p.m., September 18, by Highline School District No. 401, King County, Carl Laudenbach, business manager, 253 S. 152nd, Seattle. Plans with Steinhart, Theriault and Anderson, architects, 404 Medical Arts Bldg., Seattle. $50 deposit on general; $25 on mechanical and electrical plans. Certified check, cashier's check or bid bond 5%.

Planholders—GENERAL: Lewis Construction Co., 1711 Jackson; George E. Teufel Co., White Henry Stuart Bldg.; Carl G. Anderson Construction Co., 12362 35th Ave. N.E.; Hebb & Narodick Construction Co., Inc., 232 4th Ave. N.; Leavitt-Chandler, Box 6, Bellevue. MECHANICAL: University Plumbing and Heating Co., 3941 University Way; George H. Lucken, Inc., Plumbing and Heating Co., 922 Leary Way; Navarre Plumbing and Heating Co., 3839 Stone Way; Rautman Plumbing and Heating Co., 115 Jackson; L. G. Massart Plumbing and Heating Co., 4501 9th Ave. N.W.; Bellevue Plumbing and Heating Co., 102nd and Main, Bellevue. ELECTRICAL: Hooper Electric Co., 215 Marion; Yansen Electric Co., 421 S.W. 152nd; Holert Electric Co., 2300 W. Spokane; Lloyd Larsen Electric Co., 2306 4th Ave. All bidders of Seattle unless otherwise stated.

GW 9-7. Previous report 9-1

★PAINTING— Seattle, Wash.

Award to Atna Painting and Decorating Co., 6794 19th Ave. N.W., Seattle, $8,194, by 13th Naval District, Public Works Office, U. S. Naval Station, Seattle, for exterior painting of four buildings at U. S. Naval Air Station, Sand Point, Seattle; NBy 1950; Spec. No. 1950/56. GW 9-7. Previous report 9-1

★BOILER HOUSE ALTERATIONS— Seattle, Wash.

Award to Fraser's Boiler Service, 703 Dearborn, Seattle, $2,950, by 13th Naval District, Public Works Office, U. S. Naval Station, Seattle, for alterations to the boiler house at U. S. Naval Air Station, Sand Point, Seattle; Spec. No. 1949/56.

GW 9-7. Previous report 9-1

★AIR CONDITIONING— Seattle, Wash.

Award to W. E. Beggs, 234 9th Ave. N., Seattle, $18,923, by H. E. Pike, state supervisor of purchasing, Box 1164, Olympia, for construction of an air conditioning system to serve the lecture rooms at University of Washington, Seattle. Plans by Bouillon & Griffiths, consulting engineers, 1411 4th Ave. Bldg., Seattle.

GW 9-7. Previous report 9-1

APARTMENT BUILDING— Seattle, Wash.

Plans complete by Donald M. Edwards, architect, 2nd and Cherry Bldg., Seattle, for construction of an apartment building at 110 W. Florentia, Seattle. Construction will start soon by K. L. Strandberg, 147 W. Florentia, owner builder. Two-story frame structure, concrete slab floors, built-up roof. GW 9-8

■ OFFICE BUILDING— Seattle, Wash.

Additional planholders announced for the construction of a business office, sales and service building at 3rd Ave. and Clay St., Seattle. Bids will be opened 2 p.m., September 18, by Rand Division, Sperry Rand Corp., 1910 4th Ave., Seattle, in the office of Jones & Bindon, architects, 715 Hoge Bldg., Seattle. Plans with architects, above address. Select list of bidders.

Additional planholders: John H. Sellen Construction Co., 228 9th Ave. N.; and O. E. Turnquist Construction Co., 1305 Republican. Both of Seattle.

GW 9-8. Previous report 9-1

★NET SHED— Seattle, Wash.

Award by Port of Seattle, M. J. Weber, secretary, 406 Bell St. Terminal, Pier 66, Seattle, for construction of net shed No. 5, at Salmon Bay Terminal, Seattle. AWARD: Strand, Inc., 1801 N. 34th, $99,980. OTHER LOW BIDS: Gillespie Construction Co., 803 E. 73rd, $100,591; John H. Sellen Construction Co., 228 9th Ave. N., $103,827. All bidders of Seattle. Bids were opened September 6.

GW 9-8. Previous report 8-30

●ACOUSTICAL TREATMENT— Seattle, Wash.

Bids will be opened 10:30 a.m., October 8, by Seattle Army Terminal, room 300, Building No. 1, 1519 S. Alaskan Way, Seattle, for acoustical treatment in eight rooms in Building No. 1, Seattle, Army Terminal. Plans with procurement division, above address. Bid bond 20%. GW 9-8

▲ROOFING— Seattle, Wash.

Bids received by Paul R. Hendricks, city purchasing agent, room 511, County-City Bldg., Seattle, for furnishing and installing a complete new roof on Fire Station No. 18, Russell Ave., and Market St., Seattle. LOW BID: Independent Sheet Metal Corp., 1723 Westlake Ave. N., $585. ONLY OTHER BID: A B C Roofing and Siding Co., 3123 Eastlake, $883. Bids were opened September 7. GW 9-8. Previous report 8-29

SHOP BUILDING— Seattle, Wash.

(Estimated cost $120,000)

Architects, Durham, Anderson & Freed, 1100 Denny Way, Seattle, have been retained by City Council, William E. Parker, city

Damp-proof Concrete with ANTI-HYDRO

For concrete walls and foundations, be sure you specify Anti-Hydro, the integral water-proofer. This concrete sealer and primer hardens concrete, prevents freezing, makes it more water-resistant.

Anti-Hydro is backed by a 5-year maintenance guarantee. To damp-proof concrete, stucco and concrete blocks, specify Anti-Hydro on your next job. Write or phone Pioneer for details.

PIONEER SAND & GRAVEL CO.

901 FAIRVIEW AVE. N. ● 910 W. SPOKANE ST. ● SEATTLE ● MAin 2900

engineer, for construction of a north end shop building for the engineering department, at Ashworth Ave. and N. 128th, Seattle. The concrete structure will have about 30,000 sf. ft. of space. GW 9-11

●RE-SIDING, PAINTING— Seattle, Wash.

Bids to be opened 2 p. m., September 25, by 13th Naval District, Public Works Office, room 100, Building 232, U. S. Naval Station, Seattle, for re-siding and painting Building No. 341, U. S. Naval Station, Seattle; Spec. No. 6567/56. Plans with public works office, above address. $25 deposit. Bid bond 20%. GW 9-11

▲ADMINISTRATION OFFICE, SHOP BUILDING— Seattle, Wash.

Bids received by Water District No. 75, King County, L. W. Bundy, secretary, 19863 28th Ave. S., Seattle, for construction of an administration building and shop, adjacent to the water office. Plans by Phillip M. Botch, structural engineer, 10 1st Ave., Auburn, and 308 Marion Bldg., Seattle. LOW BIDS: Gest Construction Co., 2013 Bronson Way N., Renton, $26,199; O & W Builders, 740 S. 216th, Seattle, $26,490; Armstrong Construction Co., 16 "C" S.E., Auburn, $26,499. Bids were opened September 7. GW 9-11. Previous report 9-6

■ELEMENTARY SCHOOL— Seattle, Wash.

Planholders announced for the construction of the first unit of Marvista Elementary School, S.W. 200th and Marine View Drive, Seattle. Bids will be opened 8 p. m., September 25, by Highline School District No. 401. King County, Administration Bldg., 253 S. 152nd, Seattle. Plans with Waldron & Dietz, architects, 215 8th Ave. N., Seattle. $25 deposit. Certified check, cashier's check or bid bond 5%.

Planholders: Burien Construction Co., 4126 S.W. 106th, Seattle; Noel Construction Co., 11014 Main St., Bellevue. GW 9-11. Previous report 8-23

■ECHO LAKE ELEMENTARY SCHOOL— Seattle, Wash.

Planholders announced for the construction of Echo Lake Elementary School at Wallingford and N. 195th, Seattle. Bids will be opened 8 p.m., September 26, by Shoreline District No. 412, King County, Myron Ernst, superintendent, Administration Bldg., E. 158th and 20th Ave. N.E., Seattle. Plans with Jones & Bindon, architects, 715 Hoge Bldg., Seattle. $25 deposit on general, $15 each on mechanical and electrical plans. Certified check, cashier's check or bid bond 5%.

Planholders—Ness Construction Co., 1125 W. 53rd. Seattle; Brady Construction Co., 707 Spokane, Seattle; Stoll & Freese Plumbing and Heating Co., 8919 236th S.W., Edmonds. GW 9-11. Previous report 9-6

★TELEPHONE SYSTEM ADDITION— Seattle, Wash.

Award to Selo Electric Co., 1050 N. 38th, Seattle, $7,740, by 13th Naval District, Public Works Office, room 100, Building 232, U. S. Naval Station, Seattle, for an addition to the telephone system in buildings Nos. 9, 25, 29, and 138 at U. S. Naval Station in Seattle; NBy 2065; Spec. No. 2065/56. GW 9-12. Previous report 7-28

■HOSPITAL ADDITIONS— Sedro Woolley, Wash.

Planholders announced for the alterations to the Annex Bldg., at Northern State Hospital, Sedro Woolley. Bids will be opened 3 p.m., September 27, by H. D. Van Eaton, director of general administration, General Administration Bldg., Olympia. Plans with George W. Stoddard, Huggard & Associates, architects, 1120 Harvard, Seattle. $25 deposit.

Planholders: A. W. Stevens, Mount Vernon; Gunderson Construction Co., Sedro Woolley; Phil Anderson, Route 2, Mount Vernon; Nelson Construction Co., Box 514, Ferndale. GW 9-8. Previous report 9-5

HATCHERY FACILITIES— South Bend, Wash.

Bids rejected by State Department of Fisheries, Olympia, for construction of an addition to the hatchery building at Nemah Bay Salmon Hatchery about 18 miles south of South Bend. Bids were opened September 6. Only one bid was received at the September 6 bid opening. DM 9-11. Previous report 9-7

STUDENT CENTER— Spokane, Wash.

(Estimated cost $247,000)

Funk, Molander & Johnson, W. 524 4th Ave., Spokane, are architects for the new student center building to be constructed at Whitworth College, Country Homes Estates, Spokane, according to L. R. Durkee, area representative, Housing and Home Agency, 450 Federal Office Bldg., Seattle. Proposed building to contain lounge and recreational facilities, snack bar, guestrooms, bookstore and post office. SP 9-8. Previous report 9-7

●■CHURCH— Spokane, Wash.

(Estimated cost $125,000)

Bids will be opened 3 p. m., September 19, at the office of the architects, by Rev. Harold W. Black, pastor, S. 232 Nelson St., Spokane, for construction of new Centenary Methodist Church at Freya St. and 11th Ave. in Spokane. Plans with Eddy, Carlson & James, architects, N. 1205 Washington St., Spokane. $25 deposit.

Planholders: P & B Co., Inc., E. 8903 Main Ave.; Hazen & Clark, Inc., W. 108 Boone Ave.; Troy B. Hood, Inc., S. 222 Pines Road; Smith & Roberts, Inc., E. 802 Bridgeport Ave.; Selkirk Construction Co., S. 1508 Chestnut St.; Hefte Construction Co., 11607 Trent Ave. All of Spokane.

One-story; basement; reinforced concrete footings and foundation; hollow masonry walls; concrete floors on grade; built-up roof; cement-asbestos shingles; glued laminated arches; frame partitions; aluminum windows; plywood mahogany walls; ½" and ⅝" drywall partitions; acoustical ceilings; hot water radiant floor heating system. CE 9-11. Previous report 8-8

●CATHOLIC SCHOOL— Spokane, Wash.

(Estimated cost $150,000)

Bids will be opened 2 p.m., September 18, in the Chancery Bldg., 317 S. Howard St., Spokane, by Most Rev. Bernard J. Topel, bishop of the Catholic diocese of Spokane, for construction of Our Lady of Fatima Catholic school at 33rd and Perry Streets in Spokane. Plans with John P. O'Neill, architect, Columbia Bldg., Spokane.

One-story; brick cavity wall construction; stone facing; includes four classrooms; large additional room, designed to make four classrooms later, left unpartitioned for use as multipurpose room. SC 9-12

★SCHOOL ADDITIONS— Tacoma, Wash.

Awards announced by Tacoma School District No. 10, Carl G. Caddey, business manager, 5th floor, School Administration Bldg., Tacoma, for construction of an addition to the Point Defiance elementary school at N. 45th and Visscher Streets in Tacoma. Plans by Gilbert Wojahn, architect, 6 N. Tacoma Ave., Tacoma. AWARDS—GENERAL: Woodward Construction Co., 2568 S. Steele, Tacoma, $167,668. MECHANICAL: Kaelin Plumbing & Heating Co., 1301 Center, Tacoma, $51,500. ELECTRICAL: Connors Electric Co., 2523 Jefferson St., Tacoma, $14,780. SP 9-12. Previous report 9-7

●JUNIOR HIGH SCHOOL— Tacoma, Wash.

Bids will be opened 2 p.m., October 5, by T. O. Hagness, superintendent and secretary of Clover Park School District No. 400, at the board office, 5214 Steilacoom Blvd., Tacoma, for construction of a junior high school in the Custer area of the district. Plans with Charles V. Rueger, architect, 225 S. Tacoma Ave., Tacoma. $75 deposit. Certified check, cashier's check or bid bond 5%.

Project consists of construction of three buildings, main classroom unit, gymnasium building and music building. Slab-on-grade; exterior window walls, porcelain panels below glass; concrete block and brick facing on end walls and other wall areas; laminated post and beam roof framing, some steel pipe columns; gymnasium is steel joist construction with trusses 8' on center; all buildings, t&g roof decking; built-up composition roofing; aluminum sash (basic), steel sash (alternate); plaster interior with acoustical and asphalt tile in classroom unit; ceramic tile in toilet areas, locker and shower rooms in gymnasium; glazed block walls in shower rooms; hot-water heating coils in slab of classroom unit, force-air unit heaters in other two buildings. SC 9-12

●TELEPHONE EQUIPMENT BUILDING— Tacoma, Wash.

(Estimated cost $900,000)

Bids will be opened 4 p. m., September 27, by Pacific Telephone and Telegraph Co., George Blackaller, acting building engineer, 1230 Exchange Bldg., Seattle, for construction of an additional telephone equipment building for the Waverly-Yukon telephone district in Tacoma. Plans by Jones & Bindon, architects, 715 Hoge Bldg., Seattle. Select list of bidders. Construction will include a one-story and basement structure; 64'x96'; reinforced concrete and brick. It will be framed for two additional stories in the future.

Planholders: Quality Builders, 312 S. 112th; Ketner Bros., 419 St. Helens; E. Goetling & Sons, 2921 S. "J" St.; Anderson Construction Co., 115 S., all of Tacoma; Cawdrey & Vemo, 3601 Fremont; Jentoft & Forbes, 927 W. 46th; Dahlgren Construction Co., 1700 21st Ave. S.; George E. Teufel Co., White-Henry-Stuart Bldg.; John H. Sellen Construction Co., 228 9th Ave. All of Seattle unless otherwise stated. GW 9-8

STADIUM REHABILITATION— Tacoma, Wash.

(Estimated cost $500,000)

Plans have been proposed by Tacoma School Board for placing a $500,000 bond issue on November ballot for rehabilitation of the Tacoma Stadium. Survey of the existing building has been made and plans disclosed for rehabilitation by E. J. Bresemann, architect, Perkins Bldg., Tacoma. SC 9-11

●SCHOOL— Taholah, Wash.

(Estimated cost $103,700)

Bids will be opened 8 p. m., September 25, by Taholah School District No. 77, Marion Shal, clerk, Taholah Elementary School, Taholah, for construction of a new elementary school for Quinault Indian Reservation at Taholah. Plans with Jensen & Mills, architects, 308 S. Tacoma Way, Tacoma. $20 deposit. Bid bond 5%. Structural engineers are Smith & Murray, Perkins Bldg.; mechanical engineers are Whitson-Miller, 2907 "A" St., both of Tacoma.

One-story; no basement; 60'x163', 8,000 sq. ft. area; irregular rectangular shape; concrete footings and foundation; frame walls; concrete slab floors; timber girders, beams, columns; glued laminated truss roof; frame partitions; steel windows; wood and paint exterior and interior wall finish and trim; drywall partitions; asphalt tile floor finish; acoustical ceilings; wood doors, cabinets; corrugated plastim panels, blackboards; warm air heating system, oil fuel; mechanical exhaust ventilating system. SP 9-12. Previous report 8-30

POST OFFICE— White Salmon, Wash.

Bids will be called soon for construction of a new post office in White Salmon, according to S. G. Schwartz, regional director, Post Office Dept., Portland. An assignable land option for the 40'x100' site on corner of Estes and Toppenish Streets in White Salmon has been accepted. Adequate parking will be available. SC 9-11

★CITY HALL— Wilbur, Wash.

Award to Havercroft Construction Co., Spokane, $83,668, by City Council, Wilbur, for construction of a new city hall at Wilbur. Plans by Benjamin K. Reugl, architect, Old National Bank Bldg., Spokane. SP 9-11. Previous report 8-10

IDAHO

●PAINTING, BUILDING REPAIRS— Blackfoot, Idaho

Bids will be opened 3 p.m., September 26, by General Services Administration, room 126, Federal Office Bldg., Seattle, Wash.,

for painting, and building repairs at U. S. Post Office, N. Ash and Pacific St., Blackfoot. Plans with construction and repair division, above address. Work to be done includes interior and exterior painting; installation of asphalt tile flooring on swing room floor; replacement of skylight glass and masonry pointing. Completion time 60 calendar days. GW 9-7

★**CHURCH—** **Bonners Ferry, Idaho**

Contract negotiated with Hill-Miller Contracting Co., Bonners Ferry, $72,035, by First Methodist Church, Bonners Ferry, for construction of a new building to contain main sanctuary, education unit, fellowship hall and service facilities.

GW 9-12. Previous report 9-5

★**DORMITORY, DINING HALL—** **Caldwell, Idaho**

Awards announced by Board of Trustees, College of Idaho, Caldwell, for construction of men's dormitory and dining hall addition on the campus. Plans by Hummel, Hummel & Jones, architects, 1324 Idaho St., Boise. AWARDS—DORMITORY: G & M Construction Co., Box 1276, Boise, $346,555. DINING HALL: E. A. Fulton Construction Co., 1709 Main St., Boise, $44,829.

SP 9-8. Previous report 9-5

CONVALESCENT HOME—Grangeville, Idaho
(Estimated cost $200,000)

Bids will be called in November by Idaho County Commissioners, Courthouse, Grangeville, for construction of the proposed 34-bed county convalescent home adjacent to the General Hospital on W. Main St. in Grangeville. Plans by T. J. Pritchard, architect, 804 Apple Lane, Moscow. Project includes garden, patio, entertainment room and rehabilitation center.

SC 9-7. Previous report 2-24

■ **GRADE SCHOOL—** **Kuna, Idaho**

Planholders announced for construction of a grade school at Kuna. Bids will be opened 8 p. m., September 21, in the library of the high school, by Class A School District No. 3, Ada and Canyon Counties, Idaho. Plans with Charles W. Johnston, architect, 13 N. 8th St., Payette.

Planholders: Babbitt Construction Co., Box 4038; R. E. Rice Construction Co., 4602 State; E. A. Fulton, 1709 Main St.; J. H. Wise & Son, Inc., Box 267; G & M Construction Co., Box 1276; David G. Dorsey, 1014 Everett St., Caldwell; L. H. Krieger Construction Co., 308 11th Ave. S. Ext., Nampa; Leukenga Construction Co., Box 943, Nampa. Of Boise unless noted.

SP 9-11. Previous report 9-7

■ **MARRIED STUDENTS QUARTERS—** **Moscow, Idaho**

Planholders announced for the construction of married students quarters in Moscow. Bids will be opened 2 p. m., September 18, by University of Idaho, Board of Regents, Moscow. Plans with Jones, Lovegren, Helms and Jones, architects, 706 Republic Bldg., Seattle. $25 deposit. Certified check, cashier's check or bid bond 5%.

Project will involve eight two-story buildings approximately 100'x20' each; reinforced concrete and pumice block walls; concrete slab floors; reinforced concrete built-up flat roof with batt insulation; concrete stairway at ends of buildings with balconies running the full length of each building; interior walls of exposed pumice block, bathrooms with drywall interiors, some gypsum board in kitchens and bathroom ceilings; others painted exposed pumice; built-in wardrobes and drawer units; built-in kitchen units; asphalt tile flooring, wall to wall carpeting in living rooms; all furnishings and drapes to be included in the contract; extension of the existing heating system, of oil fired hot water with fin tubes extended the length of each building, and underground conduit to each building. There is 10' between each building connected by a covered walkway; aluminum sash on window walls in living rooms. There is a separate laundry building 21'x17'.

Planholders—GENERAL: Commercial Builders, Inc., 301 College, Moscow; John E. Thomas, 408 N. Hayes, Moscow; Johnson-Busboom Rauh, N. 601 Cedar, Spokane, Wash.; Brady Construction Co., 707 Spokane, Seattle, Wash. MECHANICAL: P. S. Lord Mechanical Contractors, 4507 S.E. Milwaukie Blvd., Portland, Ore.; H. D. Powell, 612 S. Main, Moscow. ELECTRICAL: Power City Electric Co., N. 920 Howard, Spokane, Wash.; Electric Smith, Inc., E. 123 Sprague, Spokane. GW 9-8. Previous report 8-30

Our news covers the six Pacific Northwest states and Alaska.

▲**NURSING HOME—** **Moscow, Idaho**

Bids received by Latah County Commissioners, Courthouse, Moscow, for construction of a 47-bed nursing home for older residents. Plans by Anton E. Dropping, architect, 2504 Kootenai, Boise. Bids opened September 4. LOW BIDS—GENERAL: Herb Dunham, Box 42, $148,890; Johnson-Busboom-Rauh, N. 601 Cedar St., Spokane, $153,875; Hansen & Parr, 315 W. Boone Ave., Spokane, $154,250. MECHANICAL: H. D. Powell, 612 S. Main, $54,900; C. M. Wilderman, 520 S. Main, $61,200; Murray Burns, 2801 Warm Springs Ave., Boise, $64,654. ELECTRICAL: Moscow Electric, 203 S. Main, $17,248; Spence Electric, 306 S. Washington, $18,317; C. M. Wilderman, $19,750. Of Moscow unless noted.

SC 9-12. Previous report 8-29

★**SWIMMING POOL—** **Mountain Home AFB, Idaho**

Award to Max J. Boesinger, Mountain Home, $329,991, by Corps of Engineers, Walla Walla District, 602 City-County Bldg., Walla Walla, for construction of an indoor swimming pool at Mountain Home AFB, Elmore County, Idaho; ENG-95-164-56-48.

SC 9-12. Previous report 8-2

MONTANA

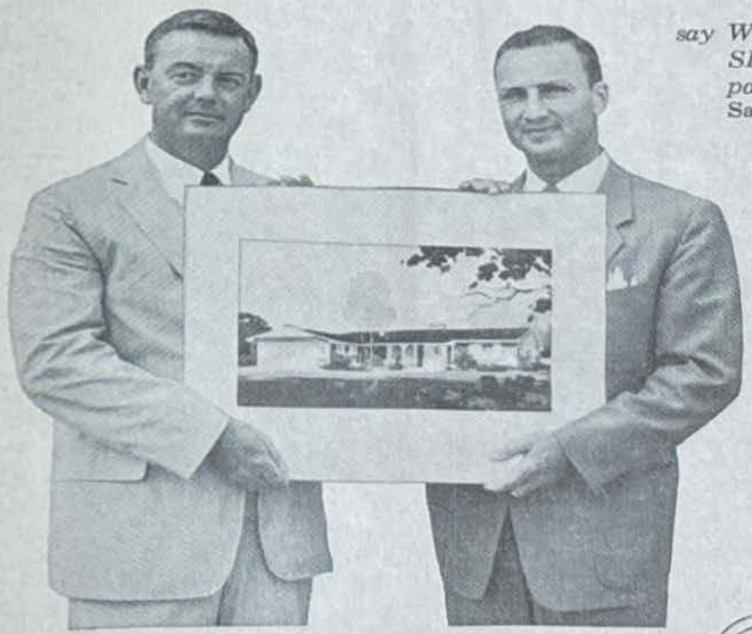
★**SNOW SHELTER—** **Anaconda, Mont.**

Award to Mann Construction Co., Redmond, Ore., $7,817, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for construction of snow shelter over outside stairways at the Anaconda substation, Deer Lodge County, Mont.; Inv. No. 8129. WB 9-11. Previous report 8-30

★**SAFEWAY STORE—** **Anaconda, Mont.**

Award to Cahill-Mooney Construction Co., 1220 E. Front St., Butte, no amount released, by Safeway Stores, Inc., Construction Division, 66 W. Park, Butte, for construction of a new Safeway store and parking lot at Cottonwood and 3rd in Anaconda. Plans by Norman J. Hamill & Associates, architects, 122 W. Granite St., Butte. Bids opened August 18. SC 9-12. Previous report 8-10

Buyers look for telephone planning in today's homes



say WELDON B. MANSFIELD *and* SHELDON W. PARKER,
partners, Western Enterprises, Inc.
Sacramento, California

Buyers of new homes "just naturally expect" built-in telephone outlets in convenient locations, report builders Mansfield and Parker. The same goes for concealed telephone wiring. Western Enterprises' newest development offers these features—plus two color telephones and six-months' service *free of charge* for each home.

To successful builders like Messrs. Mansfield and Parker, who are setting living standards in the Pacific West, complete telephone planning is as basic as adequate electrical wiring. Pacific Telephone is always ready to help you plan built-in telephone facilities. Just call us and ask for our free Architects and Builders Service.

Specify built-in telephone facilities
—a sign of good planning

Pacific Telephone

▲**ELECTRICAL SERVICE— Babb, Mont.**

Bids received by General Services Administration, construction and repair division, room 126, Federal Office Bldg., Seattle, for installation of new electrical service and new panelboard at the U. S. Border Station, at Babb; Project No. CR-10-564. LOW BIDS: Eureka Electric Co., Eureka, $1,950; Casey Electric Co., Bell St. Terminal, Seattle, Wash., $1,995; Robert Green, York, Nebr., $2,475. Bids were opened September 6.

GW 9-8. Previous report 8-31

★**VOCATIONAL SHOP BUILDING— Bigfork, Mont.**

Awards announced by Katherine G. Barton, clerk, Bigfork High School District No. 38, Flathead and Lake Counties, Bigfork, for construction of new vocational education building at the high school in Bigfork. AWARDS—GENERAL: Collins Construction Co., Kalispell, $32,713. MECHANICAL: Kalispell Plumbing & Heating Co., 333 1st Ave. E., Kalispell, $9,686. ELECTRICAL: Hollingsworth Electric Co., 419 1st Ave. E., Kalispell. SP 9-12. Previous report 8-30

★**DISTRIBUTION CENTER— Butte, Mont.**

Award to Cahill-Mooney Construction Co., 1220 E. Front St., Butte, no amount released, by Safeway Stores, Inc., Construction Division, 66 W. Park St., Butte, for construction of a distribution center on land west of Harrison Ave. and east of Timber Butte in Butte. Plans by Norman J. Hamill & Associates, architects, 122 W. Granite St., Butte. Bids opened August 7.

SC 9-12. Previous report 8-10

HOSPITAL— Cardston, Mont.

(Estimated cost $460,000)

Final approval announced by the Hospital Board for construction of proposed new municipal hospital for Cardston and immediate vicinity. Of the estimated cost, $78,000 will be available from government construction grants; remainder of necessary funds will be financed by the district.

SC 9-7

▲**RESIDENCE— Columbia Falls, Mont.**

Bids received by the architects, for construction of a residence in Columbia Falls, for D. C. Dunham of Columbia Falls. Plans by Brinkman & Lenon, architects, Strand Bldg., Kalispell. Bids opened September 5. LOW BID: Montana Builders, 1340 8th Ave. E., Kalispell, $66,543. ONLY OTHER BID: Gyrion Construction Co., 94 5th Ave. W.N., Kalispell, $81,953.

RB 9-11. Previous report 8-28

★**ELEMENTARY SCHOOL— Fairfield, Mont.**

Awards announced by School District No. 21, Fairfield, for construction of an elementary school in Fairfield. Plans by Page & Werner, architects, 15½ 4th St. N., Great Falls. Bids opened August 31. GENERAL—AWARD: Zion Construction Co., 3016 5th Ave. N., Great Falls, $89,542. 2ND LOW: George Weaver, Fairfield, $99,254. 3RD LOW: John Bergum, 915 Poplar, Helena, $104,089. MECHANICAL—AWARD: Teton Plumbing & Heating Co., Choteau, $31,134. 2ND LOW: Fullertons Plumbing & Heating, Hamilton, $35,209. 3RD LOW: Edwin Johnson Plumbing & Heating, $35,570. ELECTRICAL—AWARD: Rainbow Electric, 2220 River Drive, Great Falls, $11,590. ONLY OTHER BID: Choteau Electric, Choteau, $13,881. SP 9-7. Previous report 8-28

■ **SCHOOL ADDITION— Gildford, Mont.**

(Estimated cost $150,000)

Planholders announced for the construction of an addition to the school in Gildford. Bids will be opened 7 p.m., September 25, by School District No. 20, Hill County, Gildford. Plans with Weed & Fehlberg, architects, Sundelius Bldg., Kalispell. Mechanical engineer is William Walterkirschen, 107 E. Main, Missoula.

Planholders—GENERAL: Eskestrand Bros., Havre; Chris Fuglevand, 519 4th St., Havre; Hugo T. Schellin Construction Co., Chinook; Morgen & Oswood, Box 225, Glasgow; Gyrion Construction Co., Box 72, Kalispell; Gens Construction Co., Box 465, Great Falls. MECHANICAL: J. A. McCauley, 424 2nd St., Havre; Kalispell Plumbing and Heating Co., Box 626, Kalispell. ELECTRICAL: Havre Electric Co., Havre.

GC 9-11. Previous report 9-6

●**ROOF REPAIR— Hamilton, Mont.**

Bids to be opened 3 p.m., September 20, by General Services Administration, room 126, Federal Office Bldg., Seattle, Wash., for room repair of various buildings at U. S. Public Health Service Laboratory, 4th St., Hamilton. Plans with construction and repair division, above address. GW 9-8

●**AIR CONDITIONING SYSTEM— Helena, Mont.**

(Estimated cost $33,000)

Bids will be opened October 4 by State Board of Examiners, G. L. Bryant, executive secretary, State Capitol Bldg., Helena, for installation of air conditioning system for lobby and first floor of Sam Mitchell Bldg., Helena. Plans with Vincent H. Walsh, architect, 415 N. Warren St., Helena. Structural engineer is Martin Kelly, state engineer, 418 Mitchell Bldg., Helena; mechanical engineer is William Walterskirchen, consulting engineer, 107 E. Main, Missoula. Project will be financed by federal rentals of U. S. employment service over a long tem.

SC 9-7. Previous report 6-28

CAPITOL BUILDING— Helena, Mont.

Plans proposed by Attorney General Arnold H. Olson for construction of an eight-story capitol to house most state offices in Helena, rather than continue repair and maintenance of the existing building. Cost of modernizing the present statehouse has been estimated at $4,180,000 by Morrison-Maierle, consulting engineers, 910 Helena Ave., Helena; replacement value of the building would be $6,564,265, an amount for which a new building could be constructed.

SC 9-7

CHURCH— Missoula, Mont.

Plans announced by Prince of Peace Evangelical Lutheran Church, Rev. Karl Schmidt, pastor, for construction of new church building on 13th and Reserve Streets in Missoula. Construction to start in spring of 1957. SC 9-7

AIRPORT— West Yellowstone, Mont.

(Estimated cost $1,200,000)

A committee has been organized to develop and promote plans for construction of a new airport four miles northwest of West Yellowstone, just outside Yellowstone National Park. The committee, headed by Frank Wiley, Montana Aeronautics Commission director, includes M. C. Wilson, West Yellowstone, Gardiner White, Bozeman, and representatives of U. S. Forest Service, the CAA and Department of Interior. Proposed airport would accommodate four-engine airplanes and would provide 7,500' long and 150' wide surfaced runway, administration building, access road, taxiways, drainage and lighting. SC 9-7

WYOMING

CLINIC ADDITION— Casper, Wyo.

Construction underway by force account for Casper Clinic, 815 W. Center, Casper, for additions to the clinic. Plans by Holzinger-Schropfer & Associates, architects, 328 2nd St., Casper. Bids were rejected on this project in August.

LY 9-7. Previous report 8-9

TELEPHONE BUILDING ADDITION— Casper, Wyo.

Plans complete for construction of an addition to the telephone building in Casper, for Mountain States Telephone & Telegraph Co., 412 W. Buffalo, Rawlins. Plans by Porter & Bradley, architects, 1009 E. Lincolnway, Cheyenne. LY 9-7

Profitable leads on building and engineering projects in the six Pacific Northwest states and Alaska appear in these columns.

★**BANK— Casper, Wyo.**

Contract negotiated with Riedesel-Lowe Co., Box 914, Cheyenne, by Casper National Bank, Center and 2nd Streets, Casper, for construction of the new bank building at 1st and Wolcott Streets in Casper. Plans by Robert Wehrli, architect, 829 Cy Ave., Casper. LY 9-12. Previous report 8-4

●**OFFICE BUILDING ALTERATIONS— Casper, Wyo.**

(Estimated cost $20,000)

Bids will be opened September 17 by the architect, for alterations to the office building on E. 8th St. in Casper, for Kistler Plumbing and Heating Co., 317 E. "A" St., Casper. Lessee is Phillips Petroleum Co., 311 E. "A" St., Casper. Plans with Robert Wehrli, architect, 829 Cy Ave., Casper.

LY 9-12

HIGHWAY BUILDING— Cheyenne, Wyo.

(Estimated cost $2,000,000)

Construction to start in spring of 1957 if approved by 1957 state legislature, by Wyoming State Highway Department, State Office Bldg., Cheyenne, for a new office and shop building to be located on a 38-acre site north of the Country Club and east of Warren AFB boundary in northwestern Cheyenne. Plans by Sam Hutchings, architect, 1902 Thomas Ave., Cheyenne.

SC 9-8. Previous report 9-1

▲**RESIDENCE— Douglas, Wyo.**

Bids received by John Pellegren, architect, 508 E. Yellowstone, Casper, for construction of a residence in Casper, for Mr. William Barber of Douglas. LOW BIDS: Dougherty & Novotny Construction Co., Box 1841, Casper, $29,995; Lyle Hunt, Glenrock, $32,410; Harry Johnston, Douglas, $36,979.

LY 9-12

ELEMENTARY SCHOOL ADDITION— Encampment, Wyo.

(Estimated cost $85,000)

Project temporarily postponed by School District No. 19, Vera Oldman, clerk, Encampment, for construction of a six-classroom addition to the elementary school in Encampment. Plans with Oscar G. Woody, architect, 716 S. 6th St., Laramie. Bids were to have been opened September 10.

LY 9-7. Previous report 8-18

★**HIGH SCHOOL ADDITION— Jackson, Wyo.**

Award to C. H. Elle Construction Co., Box 1190, Pocatello, Idaho, $120,500, by Board of Education, Jackson, for construction of addition to the Jackson-Wilson high school in Jackson. Plans by Kellogg & Kellogg, architects, 309 N. Front St., Rock Springs, and 2309 Warren Ave., Cheyenne.

SP 9-11. Preivous report 8-5

★**ELEMENTARY SCHOOL— Moran, Wyo.**

Award announced by School District No. 3, Moran School, about 8 mi. east of Moran on U. S. Highway 287, Teton County, Wyo., for construction of an addition to the elementary school. Plans by Kellogg & Kellogg, architects, 309 N. Front St., Rock Springs, and 2309 Warren Ave., Cheyenne. Bids opened August 30. AWARD: Kranenberg Construction Co., Jackson, $30,000.

SP 9-11. Previous report 8-25

★**TELEPHONE BUILDING— Rawlins, Wyo.**

Award to Alfred Brown Construction Co., 628 Dooly Bldg., Salt Lake City, $234,126, by Mountain States Telephone & Telegraph Co., 412 W. Buffalo, Rawlins, for construction of additions to the telephone building at 17th and Cedar Streets in Rawlins. Plans by Porter & Bradley, architects, 1009 E. Lincolnway, Cheyenne. Bids opened August 23. SP 9-11. Previous report 8-16

SAFEWAY STORE— Torrington, Wyo.

Working drawings underway by Paul W. Rader, architect, 6915 Lakewood Place, Denver, Colo., for a Safeway store in Torrington, for Safeway Stores, Inc., Construction Division, A. E. Olson, manager, 810 14th St., Denver. One-story; 100'x125'; brick and tile construction; glued laminated beams; concrete floor; 2" wood plank; air conditioning. LY 9-7

UTAH

●■ **OFFICE, GARAGE— Altamont, Utah**
(Estimated cost $22,000)

Bids will be opened 10 a.m., September 18, by Moon Lake Electric Association, Altamont, for construction of a one-story solid masonry office and garage building at Altamont. Plans with Jackson & Jackson, architects, 457 S. 3rd East, Salt Lake City. $10 deposit. Bid bond 5%.

Planholders: Karl Swain, 375 E. 1st North, Vernal; Jack Allred, Altonah; Turn Construction Co., Box 115, Heber; Neb B. Mitchell, Altamont; Hansen Construction Co., Altamont. GH 9-11

■ **COURTHOUSE ANNEX— Farmington, Utah**

Planholders announced for the general contract for construction of an addition to the existing courthouse in Farmington. Bids will be opened 2 p.m., September 17, by Davis County Commissioners, Courthouse, Farmington. Plans with Theo R. Pope, architect, 366 S. 6th East, Salt Lake City.

Planholders: Hogan & Tingey, Box 314, Centerville; Maurice B. McCullough, 503 13th Ave., Salt Lake City; R. K. McCullough, 676 "G" St., Salt Lake City; Hilton & Carr Construction Co., 922 12th St., Ogden. GH 9-8. Previous report 8-31

SHOPPING CENTER ADDITION— Granger, Utah

Plans announced by J. A. Albertson, president, Albertson's Food Centers, for construction of an additional 25,000 sq. ft. shopping space accommodating five new stores at the shopping center, 2700 West and 3500 South, Granger. More than eight acres parking space will serve the area. Stores to be added are Merc Department Store, Granger Drug, Gallen Kamp Shoes, Conford Cleaners and Beyer Music Co. SC9-11

▲ **ANIMAL DISEASE CENTER—Logan, Utah**

Bids received by Utah State Building Board, J. G. King, superintendent of construction, 442 State Capitol Bldg., Salt Lake City, for repairing and remodeling the Animal Disease Center at Utah State Agricultural College in Logan. Plans by Karl C. Schaub & Son, architects, 75 N. Main, Logan. Bids opened September 5. LOW BID: David L. Phillips, Smithfield, $13,300. ONLY OTHER BID: Ace S. Raymond, 1032 N. Main St., Logan, $13,950. GH 9-8. Previous report 8-30

● **SWIMMING POOL ACCOMMODATIONS— Moab, Utah**

Bids will be opened 2 p.m., September 17, by the architects, for construction of a dressing room area, decks, filtration room and fencing for the new swimming pool in Moab, for Grand County Commissioners, Courthouse, Moab. Plans with Fetzer & Fetzer, architects, 415 Zions Savings Bank Bldg., Salt Lake City. $25 deposit. GH 9-11. Previous report 8-14

▲ **MAINTENANCE BUILDING—Ogden, Utah**

Bids received by Utah State Building Board, Jerry G. King, superintendent of construction, 442 State Capitol Bldg., Salt Lake City, for construction of a maintenance stores and receiving building at Weber College in Ogden. Plans by Eber F. Piers and John L. Piers, architects and engineers, 2726 Harrison Blvd., Ogden. Bids opened September 5. LOW BIDS: Larsen Construction & Engineering Co., 2867 Lincoln, Ogden, $80,900; V. Jay Wadman, 820 Wall Ave., $81,200; Dean R. Mayberry, 3574 Eccles Ave., Ogden, $81,200. GH 9-8. Previous report 8-30

MAUSOLEUM— Ogden, Utah
(Estimated cost $30,000)

Construction underway by Western Art Stone Works, Costa Mesa, Calif., for a mausoleum in southeast corner of Washington Heights Memorial Park, 4800 Washington Blvd., Ogden. Plans by Vincent Palmer, architect, Los Angeles, Calif. Completion expected in three months. Building will consist of concrete, steel, aluminum, glass and marble. Entrance to be structural glass door, stained glass windows in rear; stained glass skylight. Religious mural carved of stone will be located over front entrance and will be treated with acid stained concrete coloring. SC 9-11

COUNTRY CLUB— Salt Lake City, Utah
(Estimated cost $210,000)

Construction underway by Joe H. Lamb, Patio Pool & Fence Co., 3940 Highland Drive, Salt Lake City, for a $40,000 swimming pool, hub of the new Cottonwood Club located ½ mile west of Highland Drive at 5450 South, Salt Lake City. Pool to be 60'x30'; heating and filtering units; bathhouse; locker rooms; diving boards; shallow section for children.

General construction of the club, including bridle paths, tennis courts, stables, fishing pond, playground, baseball diamond, ice-skating rink, clubhouse and caretaker's cottage, will be underway soon by Cannon Construction Co., 959 S. 7th West, Salt Lake City. Plans by Stephen L. MacDonald, architect, 3940 Highland Drive, Salt Lake City. SC 9-8

● **HOSPITAL ADDITION— Salt Lake City, Utah**

Bids will be taken on a cost plus basis by Church of Jesus Christ of Latter Day Saints, Hospital Administrator, 8th Ave. and "C" St., Salt Lake City, for construction of a six-story addition to the hospital. Plans by Young & Hansen, architects, 66 Canyon Road, Salt Lake City. GH 9-8

JUNIOR HIGH SCHOOL— Salt Lake City, Utah
(Estimated cost $1,600,000)

Plans will be complete February 15, 1957, for construction of a new junior high school on Goodwin Ave. at Colorado St. in Salt Lake City, for Salt Lake City Board of Education, Dr. M. Lynn Bennion, superintendent, 440 E. 1st South, Salt Lake City. Plans by William F. Thomas, architect, 19 W.S. Temple, Salt Lake City.

One-story; no basement; 500'x300', 106,000 sq. ft.; concrete footings and foundation; solid masonry walls; concrete slab floors; steel girders, beams, columns; steel truss roof; frame partitions; steel windows; masonry and wood studding interior and exterior wall finish; maple, asphalt tile, rubber tile and ceramic tile flooring; acoustical ceilings; metal exterior, wood interior doors; wood cabinets; blackboards; rigid insulation in roof; steam heating system, gas fuel; ventilating system. GH 9-11

KUTV STUDIO ADDITION— Salt Lake City, Utah

Preliminary plans underway for construction of two new studios to the north of the KUTV studio at Social Hall Ave. in Salt Lake City. Plans by Deseret Architects & Engineers, Ness Bldg., Salt Lake City. Bids will be called by Zion's Securities Corp., Pierce Brady, manager, Union Pacific Annex Bldg., Salt Lake City. GH 9-11

HIGH SCHOOL REMODELING, ADDITION— Salt Lake City, Utah

Preliminary drawings underway by Paul K. Evans, architects, 237 E. 3rd South, Salt Lake City, for remodeling and constructing an addition to Salina High School in Salt Lake City, for Sevier School District, Karl Cameron, superintendent, Richfield. GH 9-11

●■ **SHOP HANGAR—Salt Lake City, Utah**

Bids will be opened 2 p.m., September 18, by Department of the Army and Air Force, National Guard Bureau, U.S. Property & Fiscal Officer, Fort Douglas, for construction of a new hangar at the Salt Lake Municipal Airport for the Utah National Guard; NG-42-056-57-2. Specifications with Ashley T. Carpenter, architect, 203 Crandall Bldg., Salt Lake City. $25 deposit. Bid bond 5%.

Planholders: Layton Construction Co., 1991 Siggard Drive; Lawrence Construction Co., 123 Jeremy St.; Security Construction Co., 5875 Holladay Blvd.; Rocky Mountain Contractors, 522 N. 5th West; Hogan & Tingey, 540 E. 3600 South, Centerville; Dale Benz, Inc., 1912 W. Grant St., Phoenix; Paulsen Construction Co., 1425 Jefferson St.; Alder-Child Construction Co., 2452 Emerson Ave.; Chytraus Bros. Co., 2040 Redondo Ave.; Maurice B. McCullough, 503 13th Ave.; Atlas Construction Co., 1841 E. 9th South; Mountain States Construction Co., 36 E. 4th South; Mark C. Nicholson, 1561 Westminster Ave.; Cannon Construction Co., 959 S. 7th West; Okland Construction Co., 2261 Oneida Ave.; Weyher Construction Co., 580 S. 4th West; Jacobsen Construction Co., 421 W. 13th South. All of Salt Lake City unless noted. GH 9-11

If the job calls for WALL HYDRANTS specify GREENBERG!



BRONZE PRODUCTS by GREENBERG

M. GREENBERG'S SONS
765 FOLSOM ST. • EXbrook 2-3143
SAN FRANCISCO 7, CALIFORNIA
Offices in Principal Cities throughout the United States



Flush type wall hydrant with locking type hinge (will rough into 6" wall).
Nipple and adapter allow placing inlet at either side or back.

▲ELEMENTARY SCHOOL— Washington Terrace, Utah

Bids received by Weber County School District, A. Parley Bates, superintendent, 1124 Washington Blvd., Ogden, for construction of an elementary school south of Washington Terrace. Plans by Hodgson & McDermott, architects, 427 Kiesel Bldg., Ogden. Bids opened August 30. LOW BID: Mac Construction Co., 1474 S. 6th West, Salt Lake City, $247,800. SC 9-7. Previous reporta 8-22

ALASKA

●ELEMENTARY SCHOOL— Fairbanks, Alaska

Bids will be opened 8 p.m., September 18, in library of Main School, by Fairbanks School District, Fairbanks, for construction of an eight-classroom elementary school, including administrative offices and boiler room, at Fairbanks. Plans with Alaska Architectural & Engineering Co., Box 509, Fairbanks.

Reinforced concrete foundation; reinforced concrete masonry and cedar siding exterior; wood frame exterior and interior walls; dry wall interior construction; concrete slab on grade; asbestos plastic floor tile; acoustical tile; combined radiant heat and air conditioning system; fluorescent lighting. SP 9-11

●SCHOOL, LIVING QUARTERS— Tok, Alaska

Bids will be opened 11 a.m., September 22, by Territorial Commissioner of Education, in the office of the architects and engineers, for construction of a three-classroom building with living quarters at Tok. Plans with Alaska Architectural & Engineering Co., Box 509, Fairbanks.

One-story; 7,340 sq. ft.; reinforced concrete footings and foundation; concrete slab on grade; concrete boiler room; wood frame exterior walls; glued laminated beams; wood roof deck; frame partitions; cedar exterior wall finish; acoustical tile; dry wall interior construction; hot water boiler heating system; air conditioning; water well; diesel generating system. SP 9-11

ENGINEERING NEWS

Washington, Oregon, Idaho, Montana, Wyoming, Utah, Alaska

- ● Bids Called
- ★ Contract Awards
- ▲ Low Bids—Bid Received
- ■ Planholders—Prospective Bidders

OREGON

SEWAGE SYSTEM IMPROVEMENTS— Beaverton, Ore.

The Sunset Valley Sanitary District, L. D. Barre, president, 85 S.W. 138th Ave., Beaverton, has acquired the facilities of the Marlene Village Sanitary Co. from Harry Mittleman, and plans to construct a new disposal plant to serve population of 3,000. Bond election is planned. Carl E. Green & Associates, consulting engineers, have been retained by the district. District is located about three mi. northwest of Beaverton, bounded on the north by Cornell Road. WB 9-8

★RESERVOIR ROOF— Beaverton, Ore.

Award by city recorder, Alice B. Martin, City Hall, Beaverton, for construction of a reservoir roof. Plans by Hege and Huston, engineering consultants, 10154 S.W. Park Way, Beaverton. AWARD: Doerrie Construction Co., 301 N.W. Murray Road, $9,526. OTHER BIDS: Harry G. Johnson, 7117 S.E. Main St., $9,738; L. B. Read and Mac Sharp, 2607 S.W. Sunset Blvd., $9,999; United Builders, 400 N.W. Beaverdam Road, Beaverton, $10,302; Lorentz Bruun Co., 3636 S.E. 20th Ave., $10,994. Of Portland except as noted. Bids opened September 10. WB 9-12. Previous report 9-5

●LEVEE SYSTEM IMPROVEMENT— Coos Bay, Ore.

Bids will be opened 2 p.m., September 18, by Corp of Engineers, Portland District, 628 Pittock Block, Portland, for raising and strengthening existing levee; placing dumped stone revetment; removing and replacing designated drainage structures; and modifying existing Ross Sough tide box, all in Catching Slough, three miles southeast of Coos Bay, Coos County, Ore.; CIVENG-35-026-57-57. Specifications with above office. Bid bond 20%. Completion time June 14, 1957.

Quantities: 76,800 c.y. levee embankment; 3,100 cy.y filter material; 6,200 c.y. dumped stone revetment; 970 c.y. structural excavation; 310 c.y. backfill; 3,060' piling; 50' corrugated metal pipe. SP 9-8

■RESERVOIR, PUMPING STATION, ACCESS ROAD— Coquille, Ore.

Planholders announced on construction of a 1,000,000-gallon reservoir (Sched. R), pumping station (Sched. P), and access road (Sched. A) in Coquille. Bids to be opened 7:30 p. m., September 17, by H. N. Crim, city recorder, City Hall, Coquille. Plans with Cornell, Howland, Hayes & Merryfield, consulting engineers, 1600 Western Ave., Corvallis. $25 deposit.

Planholders: John Steinmuller, 907 W. 3rd, Eugene; A. T. Fox Construction Co., Box 831, North Bend; Funston Construction Co., 3726 S.E. Hawthorne Blvd., Portland; John Kovtynovich, 395 Skyline Loop, Eugene. DC 9-11. Previous report 8-24

■DAM PROJECT— Dalles Dam, Ore.

Planholders announced for construction of miscellaneous drainage facilities and revetments, construction of levee, storage yard, excavation and embankment slopes and fencing, salvaging existing guard rail and removal of existing concrete structures at Dalles Dam project area, Wasco and Sherman Counties, Ore.; CIVENG-35-026-57-50. Bids to be opened 2 p.m., September 20, by Corps of Engineers, Portland District, 628 Pittock Block, Portland.

Planholders: C. T. Malcom, 2336 N.E. 30th Ave.; San Jose Steel Co., Inc., 723 N. Tillamook St.; Erland & Blickle, 8265 N. Borthwick; H. C. Grendahl, Box 246, Parkwater Station, Spokane; Erwen Construction, 831 S. 4th Ave., Pasco; C. J. Eldon, P. O. Box 5686; Standard Construction Co., Inc., 5415 N.E. Columbia Blvd.; Ben H. Bahem, 908½ E. 2nd, The Dalles; Buchanan Excavating, P. O. Box 187, Junction City; Brennan Construction Co., Inc., P. O. Box 507, Pocatello; R. E. Steelman, 10301 E. 4th, Spokane; C. R. O'Neil, 2525 Highway 99 South, Grants Pass; J. N. Conley, 4332 N.E. Royal Court; J. Bacaloff Co., 6009 N.E. 60th; Vernie Jarl, Gresham; Babler Bros., Inc., 4617 S.E. Milwaukie Ave.; Bingen Sand & Gravel, Box 3, Bingen; Lewis Hopkins Co., 221 S. 3rd St., Pasco; Butler Construction Co., 3401 S.W. Macadam; Barger Construction Co., Gresham; Miller & Strong, Inc., Box 366, Eugene; Construction Engineering, Inc., 312 Construction Center, Phoenix, Ariz.; Jim Kelly Construction Co., W. Columbia River Highway, The Dalles; R. A. Heintz Construction Co., 211 N.E. Columbia Blvd.; G. D. Dennis & Sons, 7355 S.E. Johnson Creek Blvd. Of Portland except as noted. WB 9-8. Previous report 9-1

▲BRIDGE REMOVAL, SALVAGE— Dalles Dam, Ore.

Bids opened by Corps of Engineers, Portland District, 628 Pittock Block, Portland, for removal and salvage of existing abandoned railroad and highway bridges spanning Deschutes River and abandoned railroad bridges spanning Fulton Canyon Creek, near Rufus, all situated on the Dalles Dam Project in Wasco and Sherman Counties, Ore.; CIVENG-35-026-57-33. BIDDERS: West Coast Steel Works, 5609 N.E. 77th Ave., Portland, $113,405; Misco, Inc., 1123 W. Hanford St., Seattle, $114,230; Dos L. Cooney, Inc., 300 Spokane St., Seattle, $130,356; Arthur Fralick, 3008 E. 57th Ave., Seattle, $141,937; Steel Construction Co. of Oregon, 5300 N.W. Front Ave., Portland, $149,600; LeBoef & Dougherty, Inc., Richland, $161,100; Goodat Crane Service, 1735 S.E. Union Ave., Portland, $167,000; Lewis Elterich Co., P.O. Box 868, Port Angeles, $186,626; Montag, Halvorson & Austin, 7805 N.E. Halsey St., $188,815. Estimated cost, $153,700. Bids opened September 7. WB 9-11. Previous report 8-31

HYDROELECTRIC PROJECT— John Day Damsite, Ore.

Preliminary permit for the proposed John Day hyroelectric project on the Columbia River has been requested of the Federal Power Commission by PUD No. 1, Klickitat County, Wash., at Goldendale. The project is located in Klickitat County, Wash., and Gilliam and Sherman counties in Oregon. Plans call for concrete gravity dam which would create a reservoir extending 75 miles upstream to McNary Dam. DC 9-8

★FOUNDATION DRILLING— John Day Dam, Ore.

Award announced by Corps of Engineers, Walla Walla District, 602 City-County Airport, Walla Walla, for foundation drilling at John Day Dam, Ore.; CIVENG-45-164-56-72. AWARD: Intrusion-Prepakt, Union Commerce Bldg., Cleveland, Ohio, $169,158. Bids were opened June 19 and held under advisement. GW 9-11. Previous report 6-13

▲RECREATIONAL AREA IMPROVEMENTS— Lookout Point Reservoir, Ore.

Bids opened by Corps of Engineers, Portland District, 628 Pittock Block, Portland, for construction of an access road road, parking area, boat launching ramp, guard rail and latrines in the Hampton recreational area, Lookout Point Reservoir, Middle Fork Willmette River, Willamette Basin Project, Ore.; CIVENG-35-026-57-47. BIDDERS: C. Vern White, Box 153, Lowell, $13,795; Eugene Gardens, 1515 Sylvan Drive, Eugene, $18,375. Engineer's estimate, $20,660. Bids opened September 4. WB 9-7. Previous report 8-31

●WELLS— Lookout Point Dam, Ore.

Bids will be opened 2 p. m., September 18, by Corps of Engineers, Portland District, 628 Pittock Block, Portland, for drilling, casing and developing six wells at Minnow Station on the Southern Pacific railroad about 3 mi. upstream from Lookout Point Dam, Middle Fork Willamette River, Lane County, Ore.; CIVENG-35-026-57-59. Specifications with above office. Completion time October 25.

Quantities: 780' drilling of 12" diameter wells; 660' of 12" standard well casing; 120' of 12" slotted well casing. SP 9-11

★BANK PROTECTION— Medford, Ore.

Award to F. L. Somers, P. O. Box 668, Medford, $19,253, by Corps of Engineers, Portland District, 628 Pittock Block, Portland, for construction of bank protection works along the left bank of Bear Creek at Medford, Jackson County, Ore.; CIVENG-35-026-57-46. WB 9-7. Previous report 8-30

★TUNNEL— Medford, Ore.

Award to Lord Bros. Contractors, Box 5626, Portland, $426,302, by Bureau of Reclamation, Box 629, Medford, for construction of Dead-

wood Tunnel, near Medford, Rogue River Basin Project, Ore.; Inv. No. DC-4702.
SP 9-8. Previous report 7-5

▲DITCH, HEADWALLS, TRASH RACK— Mills City, Ore.

Bids opened by Corps of Engineers, Portland District, 628 Pittock Block, Portland, for construction of a roadside drainage ditch, concrete headwalls for culverts, and a trash rack at Detroit Dam, North Santiam River, upstream from Mills City, Willamette River Basin, Ore.; CIVENG-35-026-57-30. BIDDERS: Norquist Bros. Co., Sweet Home, $13,285; Wayne Construction Co., 3810 Stone Way, Seattle, $13,680. Government estimate, $11,800. Bids opened September 5.
WB 9-7. Previous report 8-23

▲SEWAGE PUMPING STATION— Newberg, Ore.

Bids opened by city recorder, Thomas Beaty, City Hall, Newberg, for construction of a sewage pumping station. Plans by Carl Green & Associates, 510 Henry Bldg., Portland. BIDDERS: L. B. Read and Mac Sharp, 2607 S.W. Sunset Blvd., $11,780; P. S. Lord Mechanical Contractors, 4507 S.E. Milwaukie Ave., $11,993; Zuber Bros., 3600 S.E. 28th Ave., $14,064. Of Portland. Bids opened September 4. WB 9-7. Previous report 8-21

●GRADING, PAVING— Oswego, Ore.

Bids to be received until 12 noon, September 18, and opened at 8 p.m., by city recorder, Mary Beerman, City Hall, Oswego, for grading and paving of north one-half of Second St. between "A" and "B" Avenues. Plans with recorder. WB 9-12

▲STREET IMPROVEMENTS—Portland, Ore.

Bids opened by city auditor, Will Gibson, City Hall, Portland, for street improvements. BIDDERS—Alley in Block 18, Kinzel Park: Richard M. Palmer, 6031 S.E. Brooklyn St., $2,626. S.E. Hawthorne Blvd.: Logan, Taylor & Co., 7800 N.E. Killingsworth St., $6,282; Portland Road & Driveway Co., 1295 S.E. King Rd., $6,760; Oregon Asphaltic Paving Co., 0441 S.W. Porter St., $6,831. S.W. Washougal Ave.: Portland Road & Driveway Co., $6,371. Bids opened September 5.
WB 9-7. Previous report 8-31

●DUMP TRUCKS— Portland, Ore.

Bids to be opened 10:30 a.m., September 18, by Board of Multnomah County Commissioners, John W. West, purchasing agent, 504 County Courthouse, Portland, for furnishing eight heavy duty dump trucks. Specifications with purchasing agent. Certified check or bid bond 10%. WB 9-7

★JETTY REPAIR— Portland, Ore.

Award to Miller & Strong, Inc., Box 366, Eugene, $90,410, by Corps of Engineers, Portland District, 628 Pittock Block, Portland, for repair of north jetty at entrance to Coquille River, Ore.; CIVENG-35-026-57-26. WB 9-7. Previous report 8-28

★STATE HIGHWAY PROJECT— Portland, Ore.

Award announced by Oregon State Highway Commission, Salem, for highway construction project on which bids opened August 16 in Portland. FINN ROCK-ELK CREEK SECTION—Construction of 0.77 mile grading and paving and construction of one reinforced concrete bridge on McKenzie Highway in Lane County; a State Project. AWARD: A. H. Saxton & Son, 11531 S.E. Powell Court, Portland, $161,858.
SP 9-7. Previous report 8-18

★SEWER RODDER— Portland, Ore.

Award to Waterworks Supplies Co., 4455 S.E. 24th Ave., Portland, $3,835, by city purchasing agent, 208 City Hall, Portland, for one sewer rodder.
WB 9-8. Previous report 9-1

★STEEL GANGPLANK— Portland, Ore.

Award to Screw Machine Products, 7737 N.E. Killingsworth St., Portland, $1,465, by Port of Portland, 5848 N. Lagoon Ave., Portland, for 54' steel gangplank.
WB 9-8. Previous report 9-5

★CENTRIFUGAL PUMP— Portland, Ore.

Award to R. M. Wade & Co., 1919 N.W. Thurman St., Portland, $1,228, by city purchasing agent, 208 City Hall, Portland, for furnishing centrifugal pump.
WB 9-8. Previous report 8-14

★CRANE CONVERSION— Portland, Ore.

Award to Clyde Equipment Co., 1631 N.W. Thurman St., Portland, $1,549, by city purchasing agent, 208 City Hall, Portland, for conversion of one hydrocrane to self-powered. WB 9-8. Previous report 8-21

▲STEEL GRAIN TANK— Portland, Ore.

Bids opened by Commission of Public Docks, Thomas P. Guerin, general manager, 3070 N.W. Front Ave., Portland, for steel grain tank at Terminal No. 4, Portland. ONLY BID: American Pipe & Construction Co., 518 N.E. Columbia Blvd., Portland, $17,-908. Bids opened September 7.
WB 9-11. Previous report 8-28

★ELECTRICAL WORK— Portland, Ore.

Award to Owen & McIntyre Construction Co., Oregon Shipyards, Portland, $6,875, by Commission of Public Docks, 3070 N.W. Front Ave., Portland, for electrical work in connection with installation of a new airveyor at Terminal No. 4.
WB 9-11. Previous report 9-5

●CRAWLER TRACTOR— Portland, Ore.

Bids to be opened 2 p.m., September 19, by city purchasing agent, 208 City Hall, Portland, for furnishing one diesel crawler tractor with attachments, fob. Bull Run Dam, Bull Run, Ore., 35 mi. east of Portland.
WB 9-11





● **COMPRESSOR UNITS—** **Portland, Ore.**

Bids to be opened 2 p. m., September 19, by city purchasing agent, 208 City Hall, Portland, for furnishing one two-wheel and one four-wheel compressor units, trailer mounted with motors, fob. 1900 N. Interstate Ave. WB 9-11

● **SPRAY UNIT—** **Portland, Ore.**

Bids to be opened 2 p. m., September 19, by city purchasing agent, 208 City Hall, Portland, for one high pressure jet spray unit. WB 9-11

■ **GRADING, FLOOD REPAIR—** **Portland, Ore.**

Planholders announced for grading 7.877 mile Galice Creek Road and 9.756 mile floor repair on same road, Bureau of Land Management-Medford District, Josephine County, Ore.; Timber Access Road Project BLM 83-A1, B. Bids to be opened 10 a. m., September 20, by Bureau of Public Roads, 753 Morgan Bldg., Box 3900, Portland.

Planholders: Peter Kiewit Sons' Co., Box 1777, Vancouver, and room 211, 208 W. Main St., Medford; Natt McDougall, 824 Pittock Block, Portland; Fred Slate, 7805 S.W. 40th Ave., Portland; E. C. Hall, 12012 S.W. Barbur Blvd., Portland; Oakridge Excavators, Oakridge; Morrison - Knudsen Co., 603 Hoge Bldg., Seattle; C. R. Oneil, 2525 Highway 99 South, Grants Pass; Durbin Bros., Route 5, Box 490, Eugene.

WB 9-12. Previous report 9-5

● **STATE HIGHWAY PROJECTS—** **Portland, Ore.**

Bids to be opened 9 a. m., September 27, by Oregon State Highway Commission in the Queens Room of the Imperial Hotel in Portland. Plans with W. C. Williams, state highway engineer, State Highway Bldg., Salem. $2 charge.

NORTH FORK SCAPPOOSE CREEK BRIDGE—Construct 100' reinforced concrete deck girder bridge over North Fork of Scappoose Creek on Pittsburg - Scappoose Highway, 1.3 mile north of Scappoose, Columbia County; FAP No. S-77(6).

Quantities: 200 c.y. structure excavation; 174 c.y. class A concrete; 44,000 lb. metal reinforcement; 72' of 8" metal drain pipe.

EAST UNIT, FORT ROCK ROAD-BROTHERS SECTION—Grading, asphaltic concrete paving on 11.97 mile Central Oregon Highway about 28 mile southeast of Bend, Deschutes County; FAP No. F-147(12).

Quantities: 49,400 c.y. borrow excavation; 900' guardrail; 26,300 c.y. crushed base materials; 30,600 ton asphaltic concrete mixture; 1,840 ton 85-100 asphalt; 154 ton RS-1 asphalt; 140 ton RS-2 asphalt; 106 ton 150-200 asphalt.

FORDS BRIDGE UNIT, MYRTLE CREEK-CANYONVILLE SECTION—Asphaltic concrete paving 1.23 mile of Pacific Highway about six mile south of Myrtle Creek, Douglas County; Federal Interstate Project No. I-78(33).

Quantities: 372 c.y. concrete in islands, curbs; 8,700' guardrail; 3,200' median barrier; 29,000 c.y. crushed base materials; 80 ton RC-3 asphalt; 14,000 ton asphaltic concrete mixture; 840 ton 85-100 asphalt; 32 ton RS-1 asphalt; 60 ton RS-2 asphalt; 40 ton 150-200 asphalt.

FORDS BRIDGE-CANYONVILLE UNIT, MYRTLE CREEK-CANYONVILLE SECTION Grading, asphaltic concrete paving 1.78 mile on Pacific Highway north from Canyonville, Douglas County; Federal Interstate Project No. I-78(32).

Quantities: 470,000 c.y. excavation; 1,125 c.y. concrete in box culverts, curbs, islands; 80,000 lb. metal reinforcing; 10,500' guardrail; 61,000 c.y. crushed base materials; 140 ton RC-3 asphalt; 17,100 ton asphaltic concrete mixture; 1,000 ton 85-100 asphalt.

WEAVER ROAD STRUCTURES—Construct 228' reinforced concrete deck girder grade separation structure over relocated Pacific Highway and 130' reinforced concrete deck girder separation structure over the S. P. Railroad tracks, on the relocated section of Weaver Road near Myrtle Creek, Douglas County; Federal Interstate Project No. I-78(31).

Quantities: 80 c.y. structure excavation; 3,920' treated timber piling; furnish 1,000' steel pile shells; drive 180' of 8" metal drain pipe.

JOHN DAY ROCK PRODUCTION PROJECT—About 7,000 c.y. crushed material in stockpiles on John Day and John Day-Burns Highways near John Day, Grant County; a State Project.

VIENTO STATE PARK LATRINES—Construct two small latrines including septic tanks, sewer lines, disposal fields at Viento State Park, 7.5 mile west of Hood River, Hood River County; a State Project.

SALEM STORAGE BUILDING—Construct a 36'x288' reinforced concrete storage building on State Highway Commission property at Salem, Marion County; a State Project.

ILLUMINATION INSTALLATION—About 115 steel street light poles; 121 mercury-vapor luminaires; 20,000' burial cable; 121 mast arms at N.E. 42nd Avenue-Troutdale section of T. H. Banfield Expressway in Portland, Multnomah County; a State Project.

EMIGRANT HILL - DEADMANS PASS SECTION—Grading 3.06 mile Old Oregon Trail Highway about 15 mile southeast of Pendleton, Umatilla County; Federal Interstate Project No. I-62(10).

Quantities: 1,290,000 c.y. excavation; 340 c.y. concrete in box culverts; 68,000 lb. metal reinforcement; 2,300 rod type 1 fence.

UMATILLA RIVER BRIDGE—Construct 310' reinforced concrete bridge over Umatilla River on Hinkle-Bucks Corner section of Hermiston Secondary Highway, Umatilla County; FAP No. S-86(2).

Quantities: 470 c.y. structure excavation; 3,300' untreated timber piling; 630' treated timber piling; 757 c.y. class A concrete; 172,000 lb. metal reinforcement; 30' of 8" metal drain pipe.

PARISH CREEK UNIT, SPRAY-WATERMAN SECTION—Grading 3.12 mile Spray-Waterman County Road about five mile south of Spray, Wheeler County; FAP No. S-175(2). Involves 73,000 c.y. excavation.

WHITESON SECTION—Grading, asphaltic concrete paving 0.50 mile and construct 275' concrete and timber bridge on Pacific Highway West about four mile south of McMinnville, Yamhill County; FAP No. F-58(2).

Qauntities: 24,000 c.y. excavation; 11,200 c.y. crushed base materials; 12 ton RC-3 asphalt; 1,800 ton asphaltic concrete pavement; 16 ton RS-2 asphalt; 16 ton 150-200 asphalt; 4,200' treated timber piling; 380 c.y. concrete; 120,000 lb. metal reinforcing. DM 9-12

● **RUBBER BELTING—** **Portland, Ore.**

Bids to be opened 10 a. m., September 21, by Commission of Public Docks, A. W. Binns, comptroller, 3070 N.W. Front Ave., Portland, for 790' of rubber belting of various weights and widths. Specifications with purchasing agent. WB 9-12

● **STATE HIGHWAY PROJECTS—** **Portland, Ore.**

Bids to be opened 9 a.m., September 28 by Oregon State Highway Commission in the Queens Room of the Imperial Hotel in Portland on highway construction. Plans with W. C. Williams, highway engineer, State Highway Bldg., Salem. $2 charge.

ZIGZAG RIVER BRIDGE—Construct 180' reinforced concrete bridge on Clackamas County Road No. 820 about two miles from Rhododendron, Clackamas County; a County Project.

Quantities: 55 c.y. structure excavation; 350 c.y.; class A concrete; 100,000 lb. metal reinforcement.

MISSOURI BOTTOM - CANYONVILLE STRUCTURES—Construct twin 144' reinforced concrete overcrossing on Irwin Road; a 234' reinforced concrete undercrossing on Chadwick Lane; a 241' reinforced concrete undercrossing on Riddle Road; twin 588' reinforced concrete and steel bridges over South Umpqua River at Missouri Bottom on Myrtle Creek-Canyonville section of the relocated Pacific Highway, Douglas County; Federal Interstate Project No. I(31) and I(32).

Quantities: 1,600 c.y. structure excavation; 1,470' steel pipe shell; 3,447 c.y. class A concrete; 762,000 lb. metal reinforcement; 967,000 lb. structural steel; 360' of 8" metal drain pipe.

TILLER MAINTENANCE BUILDING — Construct a 32'x82' masonry block building on highway commission property at Tiller, Douglas County; a State Project.

BYBEE BRIDGE (ROGUE RIVER) SECTION—Embankment repair on 0.19 mile Table Rock Road about six miles northwest of Central Point, Jackson County; FAP No. ER-32(1), involving 1,080 c.y. rock riprap on roadbed slopes.

EAST AND WEST FORKS ILLINOIS RIVER BRIDGE SECTIONS—Grading and asphaltic concrete paving on 2.26 mile of Redwood Highway south from Cave Junction, Josephine County; FAP No. F-127(6).

Quantities: 210,000 c.y. excavation; 46 c.y. concrete in box culverts; 5,400 lb. metal reinforcement; 1,900' guardrail; 670 c.y. sacked aggregate cement riprap; 27,500 c.y. crushed base materials; 66 ton RC-3 asphalt; 8,200 ton asphaltic concrete mixture; 490 ton 85-100 asphalt; 30 ton RS-1 asphalt; 30 ton RS-2 asphalt; 60 ton 150-200 asphalt.

ILLAHEE-NORTH JEFFERSON JUNCTION SECTION—Grading, asphaltic concrete paving 2.33 mile on Pacific Highway East about five miles south of Salem, Marion County; Federal Interstate Project No. I-176(12).

Quantities: 237,000 c.y. excavation; 1,100 c.y. concrete in curbs, islands, box culverts; 113,400 lb. metal reinforcement; 60,700 c.y. crushed base materials; 130 ton RC-3 asphalt; 20,500 ton asphaltic concrete mixture; 1,230 ton 85-100 asphalt; 80 ton RS-2 asphalt; 300 ton 150-200 asphalt; 126 ton RS-1 asphalt.

37th AVENUE-42nd AVENUE SECTION—Construct 0.36 mile roadway including stone base; a 125' reinforced concrete box girder extension to existing Sandy Blvd. Viaduct; a 450' on-ramp to the Banfield Expressway in Portland, Multnomah County; Federal Interstate Project No. I-323(20).

Quantities: 2,400 c.y. drainage excavation; 72,000 c.y. general excavation; disposal of 66,000 c.y. excess material; 4,700' various sizes sewer pipe; 15,000 c.y. coarse crushed material in base; 350 ton class B asphaltic concrete; 2,000 c.y. structure excavation; 2,500 c.y. class A concrete; 145 c.y. class A-A concrete; 465,000 lb. metal reinforcement; 1,525' metal rail.

YAMHILL RIVER (LAFAYETTE) BRIDGE SECTION—Construct 0.17 mile roadbed including stone base; a 378' reinforced concrete and steel girder bridge across Yamhill River on Lafayette-South Road, Yamhill County; FAP No. S-329(1).

Quantities: 39,700 c.y. special barrow excavation; 450' of 6" perforated metal drain pipe; 500 c.y. loose riprap; 860 c.y. coarse crushed material in base; 450 c.y. structural excavation; 1,134' steel pile sheets; 690 c.y. class A concrete; 150,000 lb. metal reinforcement; 145,000 lb structural steel; 780' metal rail. DM 9-12

● **STORM SEWER—** **Roseburg, Ore.**

Bids will be opened 4 p. m., September 24, by Catherine L. Farrell, city recorder-treasurer, City Hall, Roseburg, for construction of the Douglas Community Hospital storm sewer in Roseburg. Specifications with above office and with city engineer at above address. $10 deposit. Certified check or bid bond 5%. Involves approximately 590' storm sewer and appurtenances. SC 9-12

▲ **FENCE—** **Wamic, Ore.**

Bids received by Oregon State Game Commission, 1634 S.W. Alder St., P.O. Box 4136, Portland, for construction of fence at the White River Big Game Management Area near Wamic. BIDDERS: Cody Logging Co., Wamic, $8,967; Robinson & Robinson, Moses Lake, Wash., $15,940; Pacific Concrete Co., 11840 N.E. Eugene St., Portland, $29,433. Bids opened September 10.

WB 9-12. Previous report 8-22

SEWERS, SEWAGE TREATMENT PLANT— **Weston, Ore.**

(Estimated cost $125,000)

Preliminary plans nearly completed by Walter L. Woodward, consulting engineer, 206 Empire State Bldg., Spokane, for con-

Profitable leads on new building projects and engineering construction in Oregon, Washington, Idaho, Montana, Wyoming, Utah and Alaska appear in these columns.

struction of sewers and a sewage treatment plant on Highway No. 11, Weston. Bids will be called by Kenneth Dauble, city recorder, City Hall, Weston. CE 9-8

WASHINGTON

▲TRANSMISSION LINE—Aberdeen, Wash.

Bid was taken under consideration by Public Utility District No. 1, 217 S. "H" St., Aberdeen, for construction of a 69-kv transmission line between Polson Camp Road and North Humptulips along Quinault Highway, Wash. Bid opened September 4. ONLY BID: Key Construction Co., 1601 Taylor Way, Tacoma, $60,329. SP 9-8. Previous report 8-10

PUD IMPROVEMENTS— Aberdeen, Wash.

Expenditure of $45,000 has been approved by Grays Harbor Commissioners, Public Utility District No. 1, 217 S. "H" St., Aberdeen, for improvements of the system. Improvement authorizations passed by the board include purchase of distribution transformers for $35,000 and of watt-hour meters, reactive meters and transformers for $10,000. SC 9-8

▲SITE WORK— Auburn, Wash.

Bids received by Auburn School District No. 408, King County, Rolland Upton, superintendent, 9420 S. 240th Place, Auburn, for site work at Algona Elementary School in Auburn. Plans by Jones, Lovergren, Helms & Jones, architects, 706 Republic Bldg., Seattle. LOW BIDS: Heisserman Fuel and Heating Co., 20 "B" Southwest, Auburn, $5,442; Russell J. Boe, 9685 Empire Way, Seattle, $9,616; Burien Construction Co., 4126 S.W. 106th, Seattle, $9,850. Bids were opened September 7. GW 9-11. Previous report 9-5

▲BRIDGE— Benton City, Wash.

Bids received by Benton County Commissioners, Courthouse, Prosser, for construction of a cantilever type bridge over the Yakima River, between Kiona and Benton City, Wash.; CRP No. 27B. Plans by Homer Hadley of Hadley & Hadley, consulting engineers, Securities Bldg., Seattle. LOW BIDS: Everett McKeller, Chelan, $186,159; C.B.S. Construction Co., 11115 7th Ave. N.W., Seattle, $191,577; Paul Jarvis, Inc., Box 4001, Interbay Station, Seattle, $203,437. Bids were opened September 6.
GW 9-8. Previous report 8-31

★WATER SYSTEM IMPROVEMENTS— Bremerton, Wash.

Awards by North Perry Avenue Water District, 2921 Perry Ave., Bremerton, for construction of additions and improvements to water distribution system. Plans by Hill & Ingman, consulting engineers, 1728 E. Madison St., Seattle. AWARDS—Contract 1: Frank M. Taylor, 2018 N. 194th, Seattle, $72,894 (water main). Contract 2: Pittsburgh-Des Moines Steel Co., 901 Lane, Seattle, $35,344 (50,000-gallon elevated steel tank). Contract 3: Pittsburgh-Des Moines Steel Co., $30,710 (300,000-gallon ground storage reservoir). Contract 4: Lent's, Inc., 279 4th, Bremerton, $11,500 (booster); $26,382 (well); $37,882 (total).
GW 9-8. Previous report 8-25

▲SANITARY SEWER— Bryn Mawr, Wash.

Bids received by Board of Commissioners, Bryn Mawr-Lake Ridge Sewer District, 11402 Rainier Ave., Seattle, for construction of a sanitary sewer in S. 114th St. Plans by Hammond, Collier & Isaac, consulting engineers, 4010 Stone Way, Seattle. LOW BIDS: Superior Construction Co., 4610 37th Ave. S.W., $13,167; Frank Coluccio Construction Co., 7778 Seward Park Ave., $16,377; Shoreline Construction Co., 12519 15th Ave. N.E., $18,989. All of Seattle. Bids were opened September 5. GW 9-7. Previous report 9-1

▲TRANSMISSION LINE— Burke, Wash.

Bids received by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, Ore., for construction of the Burke-Royal 115-kv transmission line, from a point adjacent to Burke Substation about one mile east of Burke and ending at a point approximately 19 miles southeast of Burke, Grant County, Wash.; Inv. No. 8133. LOW BIDS: North Idaho Construction Co., Coeur d'Alene, Idaho, $87,194; Duke's Electric Co., Inc., Building 35, Pasco Airport, Pasco, $87,267; Power Line Erectors, Inc., 2018 Waterworks, Spokane. Bids opened September 7.
WB 9-11. Previous report 8-31

RECREATIONAL CENTER—Centralia, Wash.
(Estimated cost $120,000)

Plans announced by Mayor Vern Cain, City Hall, Centralia, for construction of a recreational center at Fort Borst Park, adjacent to the new junior high school in Centralia. Project would include a turf football field with lights, grandstand with seating capacity of 2,400, lighted baseball diamond with portable steel bleachers and softball field with bleachers. Fencing would surround the entire area. Parking space for 1,000 cars would be available. Completion expected in 1957. SC 9-7

● SUBSTATION— Chehalis, Wash.

Bids to be opened 2 p.m., October 1, by Lewis County PUD No. 1, in the district office at 918 Pacific Ave., Chehalis, for furnishing an NOE 69 kv unit substation and appurtenances. Specifications with above office. Substation is to be furnished complete with high and low voltage structure and buswork. DC 9-11

SCREENING STRUCTURE— Cook, Wash.

Bids rejected as too high by U.S. Fish and Wildlife Service, Leo L. Laythe, regional director, 1001 N.E. Lloyd Blvd., Portland, for construction of a concrete structure at the Willard Fish Cultural Station, 6 mi. north of Cook, Wash., on old Evergreen Highway. Project will probably be readvertised next spring.
WB 9-12. Previous report 9-1

★WATER WELL— Dalles Dam, Wash.

Award to R. J. Strasser Drilling Co., 8110 S.E. Sunset Lane, Portland, $16,945, by Corps of Engineers, Portland District, 628 Pittock Block, Portland, for drilling, casing, sealing, developing and testing a water well at The Dalles damsite, on the right bank of Columbia River adjacent to the downstream end of The Dalles Dam Powerhouse, Klickitat County, Wash.; CIVENG-35-026-57-45. Figure in previous report was as read at bid opening; checking revealed error.
WB 9-7. Previous report 9-1

★SEWER, CURBS AND SIDEWALKS— Darrington, Wash.

Awards by City Council, Zillah Garton, city clerk, City Hall, Darrington, for construction of storm sewers, concrete curb and sidewalk, in Darrington. AWARDS: Pacific Concrete Products Co., 8107 Highway 99, Everett, $11,773 (storm sewer); Lake City Gravel and Materials Co., 10720 Bothell Way, Seattle, $2,898 (curbs), $4,040 (sidewalks).
GW 9-8. Previous report 8-29

▲SEWER SYSTEM MODIFICATION— Elma, Wash.

Bids received by City Council, Louis Irish, clerk, City Hall, Elma, for the sewage system modifications in the city of Elma. Plans by Howard T. Harstad & Associates, consulting engineers, 1000 Lenora, Seattle. Schedule A: sewage treatment plant improvements, and two lift stations; Schedule B: 8,700', 8" asbestos cement pipe; Schedule C: 10,000', 6" and 8" sewer pipe, necessary appurtenances. LOW BIDS—Sched. A: Ace Construction Co., 7516 Roosevelt Way, Seatle, $35,743. ONLY OTHER BID: United Construction Co., Route 8, Box 469, Olympia, $40,766. Sched. B: United Construction Co., $30,240; Tom Tonneson, 7012 Pacific Ave., Tacoma, $33,031. Jack Roberson, 865 "C" N.W., Ephrata, $33,518. Sched. C: United Construction Co., $38,609; Jack Roberson, $44,391; Tom Tonneson, $46,860. Bids were opened September 10.
GW 9-12. Previous report 9-1

▲EARTHWORK, STRUCTURES— Ephrata, Wash.

Bids received by Bureau of Reclamation, P. R. Nalder, project manager, Box 368, Ephrata, for earthwork, concrete lining and structures, Block 3, Burbank Canal Laterals, southeast of Pasco, near Burbank, Walla Walla County, Wash.; DC-4736. BIDS: Lewis Hopkins Co., 221 S. 3rd, Pasco, $302,708; George W. Lewis, 1902 W. 4th, Kennewick, $308,960; Cherf Bros., Inc., and Sandkay Contractors, Inc., Box 938, Ephrata, $318,729. Engineer's estimate, $337,856. Bids were opened September 6.
GW 9-7. Previous report 7-25

★WATER PUMPING WELL—Ephrata, Wash.

Award to Courtney Bach, Coulee City, $4,873, by Bureau of Reclamation, Box 368, Division and "C" St. N.W., Ephrata, for water pumping well M, Soap Lake Protective Works, approximately ½ mile southwest of Soap Lake, Grant County, Wash.; Spec. No. 117C-387. SP 9-11. Previous report 8-18

★CURBS, GUTTERS, PAVING— Everett, Wash.

Award to Associated Sand & Gravel, 3508 Colby, Everett, $15,077, by City Council, City

Classified Advertising

★

CLASSIFIED RATES

Regular Classified: $6 per column inch.

Classified Display: (Based upon number of insertions during any 12 month period.)

	1 time	6 times	12 times
Per Column Inch:	$9.00	$8.00	$7.00

CIVIL ENGINEERS
FORM DESIGNERS
DETAILERS

Are you looking for a permanent position of responsibility and security with a large stabile West Coast General Contractor? Excellent opportunities are available for CIVIL ENGINEERS as well as FORM DESIGNERS and DETAILERS. You may find that we have exactly what you are looking for. Salary will be commensurate with experience in either case. Your reply should cover complete work history and personal particulars.

Box A-10
Pacific Builder & Engineer
2418 3rd Ave., Seattle 1, Wash.

PACIFIC PRINTING CO.
of Seattle, Inc.

Mailing Pieces — Advertising Folders — Sales Manuals — Sales Literature — Broadsides — Business Stationery — Circulars — Programs

MAin 0285
2418 Third Ave. Seattle 1, Wash.

Hall, Everett, for construction of concrete curbs, gutters and sidewalks and asphaltic paving on Rucker Ave. from the south line of Grandview Addition north to Alverson Blvd. in Everett. HH 9-8. Previous report 9-5

▲AIR COMPRESSOR— Everett, Wash.

Bids received by John L. Sugars, city clerk ,City Hall, Everett, for one portable gasoline engine powered two stage rotary air compressor with a delivered air capacity of 125 cu. ft. of 100 lb. P.S.I. Bids opened September 10. LOW BIDS: Pacific Hoist & Derrick Co., 3200 4th S., Seattle, $3,567; Star Machinery Co., 241 Lander, Seattle, $3,709; Andrews Machinery Co., 3633 E. Marginal Way, and A. H. Cox, 1757 1st S., both of Seattle, $3,775 (separate bids).
HH 9-12. Previous report 9-1

★GRADER— Everett, Wash.

Award announced by Snohomish County Commissioners, Courthouse, Everett, for one diesel motor grader for use by Snohomish County Road District No. 3; bid to include offer to accept one Caterpillar Grader as trade-in on new grader. Bids opened September 10. AWARD: Collins Machinery Co., 4233 W. Marginal Way, $14,442. OTHER BIDS: Western Tractor & Equipment Co., 745 Lucile, $13,360; Howard-Cooper Corp., 5055 4th St., $14,133; Caldwell Machinery Co., 7411 Keen Way, $15,053. All of Seattle. Award made on basis of Caterpillar best fitting specifications. HH 9-12. Previous report 8-30

▲WATER SUPPLY—Fairchild AFB, Wash.

Bids received by Corps of Engineers, Seattle District, 4735 E. Marginal Way, Seattle, for F-45 control area water supply line at Fairchild Defense Area, Fairchild AFB, Wash.; ENG-45-108-57-7. LOW BIDS: E. F. Pugsley, 805 E. Northlake, Seattle, $29,595; Valley Construction Co., 7722 Rainier Ave., Seattle, $38,898; Peck & Gale, S. 211 Washington, Spokane, $42,878. Engineer's estimate, $43,293. Bids were opened September 5. GW 9-7. Previous report 8-21

■WATER SUPPLY LINE— Fairchild AFB, Wash.

Planholders announced for construction of F-87 control area water supply at Fairchild AFB, Wash.; ENG-45-108-57-32. Bids will be opened 2 p. m., September 21, by Corps of Engineers, Seattle District, 4735 E. Marginal Way, Seattle. Plans with district engineer, above address. Bid bond 20%.

Planholders: Fairbanks, Morse & Co., 668 Lane; Fischer & Porter Co., 1000 4th Ave. S.; H. D. Fowler Co., Inc., Box 3084; Pacific Waterworks Supply Co., 2900 1st Ave. S.; E. F. Pugsley, 805 E. Northlake; Star Machinery Co., 241 Lander; Valley Construction Co., 7722 Rainier Ave.; Wallace & Tiernan, Inc., 2916 Western Ave., all of Seattle; Arnold & Jeffers, Box 2192; M. F. Castle Co., 10503 N. Division, Route 5; H. C. Grendahl North, 2128 Waterworks St.; Fred O. Koch, W. 1312 Kiernan; Murphy Bros., 3728 E. Broadway; Peck & Gale, S. 211, Washington; Ruud Construction Co., 602 Realty Bldg.; James Smyth Plumbing and Heating Co., N. 216 Division; Spokane Plumbing and Heating Co., N. 613 Monroe; Warren, Little & Lund, W. 120 2nd, all of Spokane; California Filter Co., 156 Spear St., San Francisco, Calif.; Engineering Construction Co., 3536 S.E. 29th, Portland, Ore.; H. Halvorson, Inc., Box 6, Yardley; P .S. Lord Mechanical Contractors, 4507 S.E. Milwaukie Ave., Portland, Ore.; S.E. Pipe Line Construction Co. of Nevada, Box 831, Whittier, Calif.; Standard Construction Co., Inc., 5415 N.E. Columbia Blvd., Portland, Ore.; Tomlinson & Buckmaster, Box 12, Warden; Cascade Engineering Co., Box 231, Richland.
GW 9-8. Previous report 8-30

●CONTROL EQUIPMENT ASSEMBLY— Frenchman Springs, Wash.

Bid opening extended from September 11 to 2 p.m., September 18, by Bureau of Reclamation, Bldg. 53, Denver Federal Center, Denver, Colo., for furnishing one 2,500 - volt, metal - enclosed, indoor - type, motor control equipment assembly and one 600-volt, metal-enclosed, indoor-type, station-service control center assembly for Frenchman Springs Pumping Plant, Columbia Basin Project, Wash.; Inv. No. DS-4742. Specifications with above office.
SP 9-8. Previous report 8-1

■RUNWAY, TAXIWAY EXTENSION— Geiger AFB, Wash.

Planholders announced on reconstruction and extension of runway 3-21 and extension of alert taxiway at Geiger AFB; ENG-45-108-57-34. Bids will be opened on a date to be announced by Corps of Engineers, 4735 E. Marginal Way, Seattle.

Planholders: Green Construction Co., 928 Securities Bldg., Seattle; Grove-Shepherd-Wilson & Kruge, 120 6th Ave. N., Seattle; Morrison-Knudsen Co., Inc., 603 Hoge Bldg., Seattle; Guy F. Atkinson Co., 10 West Orange Ave., S. San Francisco, Calif.; J. Bacaloff Co., 6009 N.E. 60th, Portland, Ore.; Columbia Asphalt Paving Co., 207 Masonic Temple Bldg., Yakima; Curtis Construction Co., Box 106, Spokane; Gibbons & Reed Co., Box 2429 Salt Lake City, Utah; Peter Kiewit Sons' Co., Box 1854, Billings, Mont.; Max J. Kuney Co., N. 120 Ralph, Spokane; Murphy Bros., 3728 E. Broadway, Spokane; Wright Contracting Co., Columbus, Georgia.
GW 9-12. Previous report 9-6

■FISH LADDER— Ice Harbor Lock and Dam

Planholders announced for the construction of a temporary fish ladder at Ice Harbor Lock and Dam, Walla Walla and Franklin Counties, Wash.; CIVENG-45-164-57-11. Bids will be opened 2 p. m., September 26, by Corps of Engineers, Walla Walla District, 602 City-County Airport, Walla Walla. Specifications with district engineer, above address. Bid bond 20..

Planholders: Cherf Bros., Inc., and Sandkay Contractors, Inc., Box 938, Ephrata; Hughes Construction Co., 3023 W. Hood Ave., Kennewick; Lee Hoffman, Box 37, Beaverton, Ore.; Misco, Inc., 1123 W. Hanford St., Seattle; Harold Kaiser Co., 3629 34th Ave. S., Seattle; Union Iron Works, E. 217 Montgomery, Spokane; Construction Engineering, Inc., 312 Construction Center, 4700 N. Central Ave., Phoenix, Arizona; Guy F. Atkinson Co., Box 714, Pasco; Tomlinson & Buckmaster, Box 12, Warden; Paul Jarvis, Inc., Box 129, Prosser; Schrader Construction Co., 3030 S.E. Hawthorne, Portland, Ore.; Lewis Hopkins Co., 221 S. 3rd, Pasco; George Chicha Co., E. 2917 Sharp, Spokane; Puget Sound Fabricators, Inc., 3670 E. Marginal Way, Seattle; Valley Iron Works, 123 S. Front St., Yakima; West Coast Steel Works, 5609 N.E. 77th, Portland, Ore.; Mercer Steel, Inc., 2555 N.W. Nicolai, Portland; Soule Steel Co., Box 9594, Portland, Ore.; Wayne Construction Co., 3810 Stone Way, Seattle.
GW 9-12. Previous report 9-1

▲INSTALL WATER PIPE— Kelso, Wash.

Bids received by city clerk, City Hall, Kelso, for installation of 9,500' of 6", 8" and 10" cast iron water pipe, including fittings and valves. Bids opened September 4. LOW BIDS: Merlin D. Lowe, 1608 Burcham, Kelso, $12,244; Packard Pipe & Pump Co., 554 14th, Longview, $14,680; Phoenix - Matthews, Inc., Portland, Ore., $20,556.
SP 9-7. Previous report 8-25

●SANITARY SEWERS— Kent, Wash.

Bids to be opened 8 p. m., September 17, by City Council, City Hall, for construction of sanitary sewers for the city. Specifications with Charles Bridges, city clerk, City Hall. $5 deposit. Certified check, cashier's check or bid bond 5%.

Quantities: 2,300' of 8" sewer pipe; 1,080' of 6" pipe side sewers; 7 manholes; trenching; appurtenances.
DC 9-7

▲TRANSMISSION LINE— King County, Wash.

Bids received by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for construtcion of the Chief Joseph-Covington 345-kv line No. 1, Sultan-Covington section, Schedule 2, King County, Wash.; Inv. No. 8136. BIDDERS: Key Construction Co., 1601 Taylor Way, Tacoma, $206,567; Pettijohn Engineering Co., 4145 N.E. Cully Blvd., Portland, $262,571; Lee Hoffman, P. O. Box 37, Beaverton, $273,513; W. L. Ridge Construction Co., E. 3122 Sharp Ave., Spokane, $285,089. Bids opened September 7.
WB 9-12. Previous report 8-31

★RESERVOIR, PUMPING STATION— Longview, Wash.

Award by city clerk, D. Wiley Carpenter, City Hall, Longview, for reservoir and water pumping station. Plans by Stevens & Thompson, consulting engineers, 2234 S.W. 5th Ave., P. O. Box 506, Portland. AWARD: Packard Pipe & Pump Co., 554 14th Ave., Longview, (reservoir) $16,500; (station) $5,930 (all or none bid.) OTHER BIDS: Amos J. Peters, 1767 20th Ave., Longview, $14,818, no bid; Westco of Longview, P. O. Box 906, Longview, $15,007, no bid; Richard L. Martin, Box 482, Oswego, $15,999, $8,659; Zuber Bros., 3600 S.E. 28th Ave., Portland, $19,726, $7,913. Bids opened September 6.
WB 9-11. Previous report 8-30

★GRADING, DRAINING, PAVING, SEWERS— Mercer Island, Wash.

Contracts negotiated by Mercer Island School District No. 400, Robert S. Studebaker, superintendent, 4136 86th Ave. S.W., Mercer Island, for grading, draining, paving, sewers and miscellaneous work at school district playfields. AWARDS— Grading, draining: White & Red Construction Co., 330 Sunset Highway, Renton, $982. Paving: American Asphalt Co., 14446 Sunset Highway, Bellevue, $5,318. Sewers: John Patricelli, 1534 32nd Ave. S., Seattle, $11,540.
GW 9-8. Previous report 8-18

★SEWER UNDERCROSSING, PUMP STATION— Mercer Island, Wash.

Awards by Mercer Island Sewer District, Nils Fauchild, secretary, Mercer Island, for construction of Mercer Island - Bellevue trunk sewer, east channel underwater crossing, and pump station. Plans by Carey & Kramer, consulting engineers, 1917 1st Ave., Seattle. Schedule A: calls for land sewer lines, pump station. Schedule B: East channel underwater crossing. AWARD — Sched. A: Murphy Bros., E. 3728 Broadway Ave., Spokane, $133,736. OTHER LOW BIDS: Frank Coluccio Construction Co., 7778 Seward Ave., Seattle, $137,584; Valley Construction Co., 7722 Rainier Ave., Seattle, $149,606. AWARD—Sched. B: McCrae Marine Construction Co., 2370 Fairview Ave. N., Seattle, $15,000 OTHER LOW BIDS: Larsen Construction Co., Colman Bldg., Seattle, $20,250; Henry Finch, 4006 California Ave., Seattle, $31,250/ Bids were opened and awards made September 10. GW 9-12. Previous report 8-23

▲SEAL COATING, SURFACING— Moses Lake, Wash.

One bid received and rejected by City Council, City Hall, Moses Lake, for construction of approximately 14,300 sq. yd. seal coat treatment and 14,400 sq. yd. light bituminous surfacing for street improvement in Moses Lake; alternate bid for approximately 8,200 sq. yd. asphaltic concrete surfacing. Plans by Gray & Osborne, consulting engineers, 228 S. 2nd St., Yakima. Bidder and amount was not released. Plans are being revised.
IG 9-8. Previous report 8-23

●SPRINKLING SYSTEM— Moses Lake, Wash.

Bids will be opened 2 p. m., September 18, by Mabel Waterman, city clerk, City Hall, Moses Lake, for installation and equipping of sprinkling system for Peninsula Park in Moses Lake. Plans with Gray & Osborne, consulting engineers, 228 S. 2nd St., Yakima. $10 deposit.
IG 9-8

★RIPRAP— Mount Vernon, Wash.

Awards announced by Skagit County Commissioners, Courthouse, Mount Vernon, for loading, hauling and placing 8,400 ton rock riprap on the right bank of river between Mount Vernon and Burlington, Proj. No. 95; for placing 13,200 ton rock riprap on the right bank of river west of Mount Vernon, Proj. No. 111. Bids opened August 27. PROJ. 95—AWARD: Robert F. Wade, 1340 E. Rio Vista, Burlington, $9,996. ONLY OTHER BID: Stoen Construction Co., 2210 E. 95th St., Seattle, $16,800. PROJ. 111—AWARD: Robert F. Wade, Burlington, $19,008. 2ND

LOW: Stoen Construction Co., Seattle, $29,700. 3RD LOW: Stanley Walters, Mount Vernon, $24,420.
SP 9-8. Previous report 8-23

● STATE HIGHWAY PROJECTS—
Olympia, Wash.

Bids will be opened 10 a. m., September 25, in the Conference Room, General Administration Bldg., Capitol Group, by Washington State Highway Commission, W. A. Bugge, director, Olympia, for highway construction. Specifications with above office. $2 deposit. Certified check, cashier's check or bid bond 5%.

CAPITOL LAKE BRIDGE TO BOUNDARY STREET—Clearing, draining, grading and constructing two reinforced concrete bridges on 0.857 mile PSH No. 1, Thurston County; FAP No. 1-001-2(36).

Quantities: 45 acre clearing; 650,500 c.y. common excavation; 75,380 unit overhaul; 96,170 c.y. excavation of unsuitable foundation material; 2,846' concrete pipe; 4,327' corrugated metal pipe; 2,218 c.y. concrete; 392,400 lb. steel reinforcing bars; 18,200' treated timber piling.

JANIS TO TONASKET—Draining, grading, surfacing with light bituminous surface treatment and construction of a reinforced concrete slab bridge on 6.028 mile PSH No. 10, Okanogan County; FAP No. F-029-2(12).

Quantities: 296,640 c.y. common excavation; 2,810 c.y. solid rock excavation; 12,530 unit overhaul; 57,750 ton borrow; 37,960 ton crushed stone surfacing; 320 ton asphalt cement; 388 c.y. concrete; 56,280 lb. steel reinforcing bars; 3,063' concrete pipe; 259' corrugated metal pipe; 877' welded steel pipe; 878' precast traffic curb; 1,900 c.y. riprap.

RIVERSIDE VICINITY—Draining, grading and surfacing with light bituminous surface treatment on 1.831 mile PSH No. 10, Okanogan County; FAP No. F-029-2(7).

Quantities: 113,450 c.y. excavation; 2,660 unit overhaul; 20,115 ton crushed stone surfacing; ballast and crushed cover stone; 89 ton asphalt cement; 1,470' concrete pipe; 397' corrugated metal pipe; 400' beam guard rail.

N. P. RY. AND PERCIVAL CREEK OVERCROSSING — Constructing two reinforced concrete box girder bridges on 0.071 mile PSH No. 9, Thurston County; FAP No. F-FG-007-5(4).

Quantities: 1,815 c.y. structure excavation; 2,277 c.y. concrete; 1,498' reinforced concrete bridge railing; 640,000 lb. steel reinforcing bars; 36,000 lb. structural steel.

WEYERHAEUSER RAILWAY UNDERCROSSING—Constructing plate girder railway bridge and shoofly on PSH No. 1, Thurston County; FAP No. IG-001-2(37).

Quantities: 4 acre clearing; 16,430 c.y. excavation; 500 c.y. borrow; 1,350 c.y. structure excavation; 610 c.y. concrete; 28,000 lb. steel reinforcing bars; 10.4 mbm treated timber and lumber.

OKANOGAN RIVER BRIDGE—Constructing a reinforced concrete box girder and slab bridge on 0.125 mile PSH No. 10, Okanogan County; FAP No. F-FG-029-2(10).

Quantities: 2,000 c.y. structure excavation; 2,300 c.y. concrete; 505,000 lb. steel reinforcing bars; 6,400 lb. structural steel; 6,600' timber piling; 560' concrete piling.

CITIES OF EPHRATA AND SOAP LAKE—Draining, grading, surfacing with light bituminous surface treatment and paving with Type I-1 asphaltic concrete on 1.483 mile PSH No. 7, Grant County; FAP No. F-031-1(5).

Quantities: 15,535 c.y. excavation; 2,370 ton sand filler; 26,490 ton crushed stone surfacing, ballast, crushed cover stone and mineral aggregate; 121 ton asphalt cement; 7,845 ton asphaltic concrete; 3,441' concrete pipe; 88' corrugated metal pipe; 8,825' cement concrete curb; 6,417' precast traffic curb.

TANEUM CREEK BRIDGE—Draining, grading, surfacing with crushed stone and constructing a reinforced concrete girder bridge on 0.189 mile Kittitas County road; FAS No. S-0563(1).

Quantities: 4,300 c.y. excavation; 750 c.y. crushed stone surfacing; 200 c.y. loose riphap; 153 c.y. concrete; 42,000 lb. steel reinforcing bars.

NASSA POINT VICINITY—Removing an obstruction from the Columbia River ship channel on PSH No. 12, Wahkiakum County; a State Project, involving 20,000 ton dredge excavation.

FIRST AVENUE SOUTH BRIDGE REMOVAL—Removing existing Duwamish River Bridge No. 1-K/3 on SSH No. 1-K, King County; a State Project.

OWL CREEK BRIDGE No. 1/712—Jacking and leveling existing slab bridge deck on PSH No. 1, Cowlitz County; a State Project.

Quantities: 30 c.y. crushed stone surfacing; 150 ton type I-1 asphaltic concrete.

EAGLEMOUNT HALF BRIDGE — Constructing a reinforced concrete slab half bridge on 0.014 mile PSH No. 9, Jefferson County; a State Project.

Quantities: 100 c.y. structure excavation; 57 c.y. concrete; 73' beam guard rail; 13,750 lb. steel reinforcing bars.
SP 9-7

▲ STATE HIGHWAY PROJECTS—
Olympia, Wash.

Low bids announced by Washington State Highway Commission, W. A. Bugge, director, Olympia, for highway construction on which bids opened September 11.

COWLITZ RIVER BRIDGE TO JCT. PSH. NO. 1—Clearing, draining, grading, cement treated base, type I-1 asphaltic concrete paving, illumination system on 0.993 mile PSH No. 12, Cowlitz County; FAP No. U-004-2(10).

LOW BID: Erland & Blickle, 8265 N. Borthwick, Portland, $272,113. ONLY OTHER BID: Peter Kiewit Sons' Co., Box 1777, Vancouver, $283,197.

C. M. ST. P. & P. R. R. UNDERCROSSING — Clearing, draining, grading steel girder railway bridge on 0.179 mile PSH No. 18, Grant County; FAP No. IG-002-4(3).

LOW BIDS: Cherf Bros. & Sandkay, Inc., Inc., Box 938, Ephrata, $101,450; Walter G. Meyer, Box 5011, Spokane, $104,198; Sather & Son, N. 1410 Howe St., Sardley, $104,527.

PULLMAN - BUSBY ROAD — Draining, grading, crushed stone surfacing on 2.231 mile Whitman County road; FAS No. S-0669(1).

LOW BIDS: Frank G. Baulne, Inc., Box 84, Yardley, $128,886; J. F. Konen Construction Co., Inc., 1408 11th, Lewiston, Idaho, $147,083; Max J. Kuney Co., Inc., N. 120 Ralph St., Spokane, $161,314.

McDUFF ROAD — Clearing, draining, grading crushed stone surfacing on 4.006 mile Thurston County Road; FAS No. S-1060(1).

LOW BIDS: J. F. Forbes, Box 174, Olympia, $72,250; J. P. Surace Construction Co., 3238 Seaview, Seattle, $98,326; Herman Kathman, 12054 23rd N.E., Seattle, $99,348.

LA CAMAS VICINITY—Clearing, draining, grading, surfacing, emulsified asphalt base treatment on 2.819 mile Clark County road; FAS No. S-0614(1).

LOW BIDS: D-H Paving Co., 6808 Highway 99, Vancouver, $73,736; C. W. Thomas & Son, Box 402, Winlock, $75,629; Smith Bros. Co., 3801 4th Plain Road, Vancouver, $81,122.

B-Z CORNER BRIDGE—Steel arch bridge with reinforced concrete deck on 0.034 mile of Klickitat County road; FAS No. S-0398(2).

ONLY BID: West Coast Steel Co., 5609 N.E. 77th, Portland, $65,084.

DRY GULCH BRIDGE No. 1-V/101—Draining, grading, cement concrete paving, treated timber pile trestle bridge with concrete deck on 0.102 mile of SSH No. 1-V, Pierce County; a State Project.

LOW BIDS: American Pile Driving Co., Pier 2, Everett, $75,858; Woodworth & Co., Inc., 1200 E. "D" St., Tacoma, $78,082; Larsen Construction Co., 468 Colman Bldg., Seattle, $83,661.

SPRAGUE AVENUE TO JCT. PSH. No. 2—Clearing, draining, grading, light bituminous surface treatment, type I-1 asphaltic concrete paving on 1.130 mile of SSH No. 3-H, Spokane; a State Project.

LOW BIDS: Inland Asphalt Co., 10th and and Havanna, Spokane, $99,862; D. A. Sullivan, Box 37, Parkwater Station, Spokane, $102,819; S & F Construction Co., Route 2, Spokane, $106,532.

OREGON STATE LINE TO WALLULA—Surfacing, type I-1 asphaltic concrete paving on three mile PSH No. 3, Walla Walla County; a State Project.

LOW BID: L. W. Vail, 1949 N. 4th St., Pasco, $40,714. ONLY OTHER BID: Morrison & Co., Inc., Box 597, Walla Walla, $42,024.

PESHASTIN CREEK VICINITY, ET AL—Stockpiling crushed stone surfacing, ballast, sand, mineral aggregates on SH Nos. 15, 15-C, 15-D, Chelan County; a State Project.

LOW BID: R. Wamberg, 7404 S. Tacoma Way, Tacoma, $153,525. ONLY OTHER BID: Frank G. Baulne, Inc., Yardley, $199,714.

EVANS, BARSTOW, CHINA BEND VICINITIES—Stockpiling crushed stone surfacing, maintenance rock, mineral aggregates, sand on PSH Nos. 3 and 22, Ferry and Stevens counties; a State Project.

LOW BID: Carbon Bros., N. 3430 Cook St., Spokane, $83,362. ONLY OTHER BID: Materne Bros., Inc., Box 7050 Garland Station, Spokane, $88,581.

MT. VERNON TO SKAGIT RIVER—Install four illumination systems on PSH No. 1, Skagit County; a State Project.

LOW BIDS: Donald W. Close Co., 2921 13th S.W., Seattle, $35,220; G. S. Electric Co., 9848 Arrowsmith Ave., Seattle, $35,609; Northwest Engineering Electric Co., 616 6th South, Seattle, $35,690.
DE 9-11. Previous report 9-5

▲ STORM SEWER SYSTEM ADDITIONS—
Omak, Wash.

Bids received and rejected as too high by Clara M. Jessup, city clerk, City Hall, Omak, for construction of additions to the storm sewer system in Omak. Plans by Gray & Osborne, consulting engineers, 228 S. 2nd St., Yakima. Bids opened September 4. LOW BIDS: Tom Larson, Box 552, Wenatchee, $21,509 (Alt. C), $15,193 (Alt. E); John Knowles, Box 1040, Wenatchee, $21,758, $15,841; Murphy Bros., E. 3728 Broadway, Spokane, $22,980, $16,871. Project has been dropped. IG 9-8. Previous report 8-29

★ RADIAL GATES, HOISTS—Othello, Wash.

Award to Ogden Iron Works Co., Box 147, Ogden, $4,452, fob Ogden, by Bureau of Reclamation, Bldg. 53, Denver Federal Center, Colo., for furnishing and delivering two radial gates for radial-gate check drop, Potholes East canal, Sta. 1369+11; Inv. No. DS-4724. SP 9-8. Previous report 8-30

● POWER SWITCHING FACILITIES—
Othello, Wash.

Bids will be opened 2 p. m., October 5, by U. S. Air Force, Procurement Office, Geiger Field, Spokane, for installation of remote power switching facilities at the 637th AC&W Squadron in the vicinity of Othello; IFB 45-614-57-27. Specifications with above office. Bid bond 20%. CE 9-11

SEWAGE TREATMENT PLANT—
Palouse, Wash.

Bond election will be held with November 6 general election for sewers and sewage treatment plant in Palouse. Bond election for this project failed in May.
CE 9-8. Previous report 5-15

● GRADING, SURFACING—
Paradise Inn Highway, Wash.

Bids will be opened 10 a. m., September 26, by Bureau of Public Roads, 753 Morgan Bldg., Box 3900, Portland, for grading and surfacing 3.094 mile West Entrance-Paradise Inn Highway, Lewis and Pierce Counties, Wash.; Mt. Rainier National Park Project 1-B10. Specifications with above office.

Quantities: 46 acre clearing; 36 acre grubbing; 263,000 c.y. excavation; 935,000 sta. yd. overhaul; 30,000 c.y. mi. overhaul; 28,600 c.y. crushed gravel; 193 ton asphalt; 2,210' culvert pipe.
SP 9-11

▲ CAST IRON WATERMAIN— Pasco, Wash.

No bids received September 4 by City Council, City Hall, Pasco, for installation of 8" and 12" cast iron watermain, fire hydrant and water meter on Road 20 from the junior college site at Court St., and jacking under a state highway.
SP 9-8. Previous report 8-30

● TRANSMISSION LINE—
Port Angeles, Wash.

Bids to be opened 8 p. m., P.S.T., September 25, by PUD No. 1, Clallam County, in the district office in Port Angeles for construction of the Sekiu-Neah Bay transmission line. Plans with district office. $25 deposit. Certified check or bid bond 5%.

Materials to be furnished by the district. Project involves construction of about 17 mile of 69 kv. transmission line and 8 mile of distribution underbuild. Right of way clearing will be on another contract.
DC 9-11

▲ROAD CONSTRUCTION— Port Townsend, Wash.

Bid received by Jefferson County Commissioners, Courthouse, Port Townsend, for construction of type I-1 asphaltic concrete pavement, class B, on 6.8 mile Quilcene Center Road, Jefferson County, Wash.; CR No. 27. Bid opened September 7. ONLY BID: Asphalt Paving & Engineering Co., Box 356, Tacoma, $70,772.
SP 9-12. Previous report 8-30

★SEWERS— Pullman, Wash.

Award announced by City Council, City Hall, Pullman, for construction of storm and sanitary sewers for three Local Improvement Districts on various streets on Military and College Hill in Pullman. Bids opened September 4. AWARD: George Meecham & Son, 2103 12th Ave., Lewiston, Idaho, $17,566. 2ND LOW: Grendahl & Younkindo, Box 746, Parkwater Station, Spokane, $18,184. 3RD LOW: Stagman & Roberts, N. 1102 Pierce, Spokane, $18,154.
MH 9-12. Previous report 8-23

★REARING PONDS— Raymond, Sequim, Wash.

Award by State Department of Fisheries, Robert Schoettler, director, Foot of Washington, Olympia, for construction of rearing ponds at the Willapa and Dungeness salmon hatcheries. No bids were received on Willapa approximately 12 mi. east of Raymond, but decision will be made within 15 days as to whether project will be readvertised or completed by fore account. DUNGENESS, approximately 6 mi. south of Sequim—AWARD: Winterburn Construction Co., 314 Polk, Port Townsend, $22,637.
GW 9-12. Previous report 9-1

●CONCRETE GIRDER BRIDGES— Randle-Yakima Highway, Wash.

Bids to be opened 10 a.m., September 21 by Bureau of Public Roads, 753 Morgan Bldg., Portland for constructing one 170' and one 85' concrete girder bridge, Washington FHP 13-A1, B1, D2, Unit 1, Randle-Yakima Highway, Silver Creek and Davis Creek bridges, Gifford Pinchot National Forest, Lewis County, Wash. Specifications with F. E. Andrews, division engineer, Box 3900 Portland.

Quantities: 565 c.y. structure excavation; 783 c.y. concrete; 154,500 lb. reinforcing steel; 476' metal hand rail.
DM 9-8

▲ACID FEED FACILITIES—Richland, Wash.

Bids received by Atomic Energy Commission, engineering and construction division, Bldg. 703, Richland, for installation of acid feed facilities in two water treatment plants on the project at Hanford plant area. Bids opened September 6. LOW BIDS: Hoffman Construction Co., 715 S.W. Columbia, Portland, $143,600; George A. Grant, Box 764, Pasco, $147,645; W. G. Clark, 408 Aurora Ave., Seattle, $153,000. Fair cost estimate, $146,000.
SP 9-7. Previous report 8-16

▲FENCE— Seattle, Wash.

Bids received by City Council, County-City Bldg., Seattle, for furnishing and installing 2,346' of 7" chain link fence. LOW BIDS: Colorado Fuel & Iron Corp, Pacific Coast Division, 3434 2nd Ave. S., $9,932; Seattle Fence Division, San Jose Steel Co., Inc., 7034 15th Ave. N.W., $10,120; Cyclone Fence Department, American Steel and Wire Division-U. S. Steel Corp., 1150 Fairview Ave. N., $10,125. All of Seattle. Bids were opened September 6.
GW 9-7. Previous report 8-25

▲TANK REPAIR— Seattle, Wash.

Bids received by 13th Naval District, Public Works Office, room 100, Building 232, U. S. Naval Station, Seattle, for replacement of steel bottom in diesel oil tank No. 99, at U. S. Naval Supply Depot, Seattle; NBy-6554; Spec. No. 6554/56. LOW BIDS: Hydraulic Supply Manufacturing Co., 7500 8th Ave. S., $5,162; Ryan & Haworth Co., 320 W. 81st, $5,400; Arrow Iron and Machine Works, 1327 Weller, $5,668. All bidders of Seattle. Bids were opened September 5.
GW 9-7. Previous report 8-15

SEWAGE TREATMENT PLANT, SECOND UNIT— Seattle, Wash.

Bids will be called soon by City Council, according to W. E. Parker, city engineer, County City Bldg., Seattle for a portion of the second unit of the Lake City sewage treatment plant. The original portion was built by Lake City Sewer District but is now taxed beyond capacity. The city, under an agreement with the district, will build additional facilities and finance them from sewer service charges. Parker has asked the Council to appropriate $650,000 for the addition. The work on which bids will be called shortly approximates $100,000 and will involve a combined shop-garage and pumphouse building; high pressure sludge pumping facilities; high pressure sludge main; underground pump station building. Carey & Kramer, consulting engineers, 1917 1st, Seattle are designing the addition.
DM 9-8

★ASPHALTIC CONCRETE PAVING— Seattle, Wash.

Award by Shoreline School District No. 412, King County, Myron Ernst, secretary, Administration Bldg., E. 158th and 20th Ave. N.E., Seattle, for asphaltic concrete paving of parking area and driveways at the high school and playgrounds at Hillwood elementary school. AWARD: Lake City Gravel and Materials Co., Inc., 10728 Bothell Way, Seatle, $13,700. Bids were opened and held under advisement August 10.
GW 9-8. Previous report 7-28

★SEWER CONNECTION— Seattle, Wash.

Award to Joe Coluccio, 1425 Hanford St., Seattle, $2,162, by Seattle School District No. 1, Frank M. Brock, secretary, 815 4th Ave. N., Seattle, for sewer connection at Oak Lake Elementary School, 100th Ave., at Aurora, Seattle.
GW 9-11. Previous report 9-5

●DRAINAGE SYSTEM— Seattle, Wash.

Bids to be opened 11 a. m., September 18, by Seattle School District No. 1, Frank M. Brock, secretary, 815 4th Ave. N., Seattle, for drainage system at Northgate Elementary School, E. 120th and 1st Ave. N.E., Seattle. Specifications with purchasing department, above address. Certified check, cashier's check or bid bond 5%.
GW 9-11

●STORM SEWERS, TEST BORINGS— Seattle, Wash.

Bids to be opened 2 p. m., September 19, by Board of Public Works, E. G. Henry, secretary, room 512, County-City Bldg., Seattle, for construction of storm sewers and test borings in Seattle. Plans with William E. Parker, city engineer, 404 County-City Bldg., Seattle. STORM SEWERS: Paisley Drive, Inverness Drive, 53rd Ave. N.E. and intervening streets; LID No. 6137; Ord. No. 85377. TEST BORINGS: 15th Ave. W., south approaches to Ballard Bridge, grade separation by test borings, Ord. No. 84951.

Storm sewer quantities: concrete pipe sewer, 1,285' of 10", 980' of 12", 220' of 15", 210' of 24", 275' of 24" with rubber joint; cast iron pipe, 480' of 10", 395', of 12"; 33 manholes; 285' of 18" pipe culvert; 10 c.y. classified concrete in headers; 27 combination inlets.
GW 9-11

●TANK PAINTING— Seattle, Wash.

Bids to be opened 2 p. m., September 19, by Board of Public Works, E. G. Henry, secretary, room 512 County-City Bldg., Seattle, for tank painting. Plans with Water Department, room 323, County-City Bldg., Seattle. $10 deposit. Certified check, cashier's check or bid bond 5%. Work involves cleaning and painting interior and exterior surfaces of Landsburg elevated tank, painting interior surface of the control works elevated tank; Ord. No. 84050.
GW 9-12

●DITCH RELOCATION, LINING— Selah, Wash.

Bids will be opened 8 p. m., September 18, by Selah School District No. 119, Elmo Steinke, superintendent, Sunrise Place, Selah, for relocating, covering and lining the Taylor Ditch at Selah. Plans with Walter H. Rothe, architect, 807 W. Yakima Ave., Yakima. $25 deposit.
IG 9-11

●BRIDGE REPAIR— Skykomish, Wash.

Bids will be opened 3 p. m., September 18, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for repair of log bridge across Skykomish River, approximately five miles east of Skykomish, Snohomish County, Wash.; Inv. No. 8148. Specifications with above office. Bid bond 25%. Completion time 45 calendar days.

Quantities: 300' drive piling; 300 c.y. fill, approaches; 500' riprap stone; raising stringers and adding log cribbing; dolphin construction.
SP 9-11

▲HATCHERY FACILITIES— South Bend, Wash.

Bids received by State Department of Fisheries, Robert J. Schoettler, director, Foot of Washington, Olympia, for construction of a hatchery building addition at Nemah Bay, about 18 mi. south of South Bend, Wash. ONLY BID: R. A. Duuos, Box 22, Astoria, $62,694. Bids were opened September 6.
GW 9-7. Previous report 8-29

▲SUBSTATION EQUIPMENT— Tacoma, Wash.

Bids received by Board of Contracts and awards, room 404 City Hall, Tacoma, for furnishing structural steel bus structures, switch towers and appurtenances for Cowlitz substation (Bank No. 7 and BPA line No. 2 Addition. BIDS: Isaacson Iron Works, 8531 E. Marginal Way, Seattle, $58,240; Bethlehem Pacific Steel Corp., 3631 E. Marginal Way, Seattle, $59,750; Marine Iron Works, Inc., 1120 E. "D," Tacoma, $77,683. Bids were opened September 10.
GW 9-11. Previous report 8-14

★UNDERGROUND VAULTS— Tacoma, Wash.

Awards by Board of Contracts and Awards, room 404, City Hall, Tacoma, for construction of reinforced concrete underground vault No. 2, in Highland Hill Development, 6th Ave. and Pearl St., Tacoma, and for three vaults in Villa Plaza, Lakewood area, south of Tacoma. AWARDS—HIGHLAND HILL: Concrete Construction Co., 3101 S. Lawrence, Tacoma, $5,044. VILLA PLAZA: Concrete Construction Co., $13,755.
GW 9-11. Previous report 8-14

▲STATE HIGHWAY PROJECT— Tumwater, Wash.

Bids received by J. C. Claypool, district engineer for Washington State Highway Commission, at the district office in Tumwater, for highway construction. Bids opened September 6.

LILLIWAUP SOUTHERLY — Construction of reinforced concrete cribbing on PSH No. 9 in Mason County; a State Project. LOW BIDS: Kendall Construction Co., 3211 Center St., Tacoma, $13,334; Louis Elterich Co., Box 868, Port Angeles, $18,219; MacRae Bros., 5900 1st Ave. S., Seattle, $18,959.
SP 9-11. Previous report 8-21

▲PAVING— Vancouver, Wash.

Bids opened by Vancouver Housing Authority, McLoughlin Heights, Vancouver, for furnishing approximately 3,800 tons base course, Andresen Highlands-1, McLoughlin Heights, Vancouver. BIDDERS: Levanen & Karvonen, R.F.D. 7, $6,080; Pacific Building Materials Co., 101 E. 1st, $7,600; Klineline Sand & Gravel Co., R.F.D. 7, $7,980; Smithrock Quarry, 3807 4th Plain Road, $8,930. Of Vancouver. Award to be made to low bidder if pit is satisfactory. Bids opened September 5.
WB 9-8. Previous report 8-28

●TELEMETERING EQUIPMENT— Vancouver, Wash.

Bids will be opened 2 p. m., September 20, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for furnishing and delivering fob. Eavan Spur, Vancouver, 29 pieces of telemetering equipment; Inv. No. 8146. Specifications with above office. Delivery time 180 calendar days.
SP 9-8

●STATE HIGHWAY PROJECT— **Vancouver, Wash.**

Bids will be opened 10 a. m., September 27, by Washington State Highway Commission, at the office of W. A. Bailey, district engineer, 4200 Main St., Vancouver, for a highway construction project. Specifications with above office. $2 deposit. Certified check, cashier's check or bid bond 5%.

RIDGEFIELD JUNCTION-WOODLAND—Cutting and sealing joints in the existing portland cement concrete pavement on PSH No. 1 between Ridgefield Junction and Woodland, Clark and Cowlitz Counties, Wash., involving 26,000' sealing and 4.6 ton joint sealing compound. SP 9-11

▲STREET IMPROVEMENTS— **Vancouver, Wash.**

Bids opened by city purchasing agent, Robert Moisant, 712 Washington St., Vancouver, for improvement of W. 26th St. BIDDERS: K. F. Jacobsen & Co., Inc., 1211 N. Loring St., $4,103; United Contracting Co., 9898 N.E. Hancock Drive, $4,125. Of Portland. Bids opened September 10. WB 9-12. Prevoius report 9-8

▲STREET IMPROVEMENTS— **Vancouver, Wash.**

Bids opened by city purchasing agent, Robert Moisant, 712 Washington St., Vancouver, for six-year plan street improvements, including 22nd St., 11th St., Columbia St., 8th St. and Port Way. BIDDERS: Portland Road & Driveway Co., 7295 S.E. King Road, $27,842; United Contracting Co., 9898 N.E. Hancock Drive, $28,105; K. F. Jacobsen & Co., Inc., 1211 N. Loring St., $28,604. Of Portland. Bids opened September 10. WB 9-12. Previous report 8-14

●STATE HIGHWAY PROJECT— **Yakima, Wash.**

Bids will be opened 10 a.m., September 27, by T. P. Doyle, district engineer for Washington State Highway Commission, at the district office in Yakima, for a highway construction project. Specifications with above office. $2 deposit. Certified check, cashier's check or bid bond 5%.

SELAH-MOXEE CANAL BRIDGE—Widening of existing concrete slab bridge on PSH No. 3, Yakima to Ellensburg section, Yakima County; a State Project. SP 9-11

IDAHO

●STATE HIGHWAY PROJECTS— **Boise, Idaho**

Bids will be opened 2 p. m., September 18, by Department of Highways, 603 Main St., Boise, for highway construction projects. Specifications with above office. $5 deposit. Certified check, cashier's check or bid bond 5%. Completion time August 1, 1957.

WOODVILLE NORTH—Construction of surface and a bituminous treatment on 3.581 mile road in Bingham and Bonneville Counties; FAP No. S-6726(1).

Quantities: 1,000 c.y. borrow; 18,200 ton crushed gravel base; 37,600 gal. asphalt road material; 1,620 ton cover coat material.

NITER-GRACE, SODA SPRINGS-EAST, CANCROFT-SODA SPRINGS—Seal coating 5.854 mile SH No. 34, 11.209 mile U.S. Highway 30 N, and 14.939 mile U. S. Highway 30 N, respectively; furnishing crushed gravel and cover coat material in stockpiles near Soda Springs and Grace, Caribou and Bear Lake Counties; FAP Nos. S01778(4) and F-1481(5), State Project No. ST-M-1481(508) and Stockpile No. 173.

Quantities: 152,000 gal. asphalt road material; 12,330 ton cover coat material; 7,500 ton crushed gravel. SP 9-7

▲STATE HIGHWAY PROJECTS— **Boise, Idaho**

Low bids announced by Department of Highways, 603 Main St., Boise, for highway construction on which bids opened September 4.

TETON RIVER BRIDGE—Construction of 105' concrete bridge over the Teton River on Cache-Richvale Road, Teton County; FAP No. S-6822(1). Completion date December 15, 1956.

LOW BID: Aiman Construction Co., Box 913, Idaho Falls, $20,300. ONLY OTHER BID: Neilsen & Smith, Box 452, Boise, $22,406.

BIG WOOD RIVER BRIDGE AND CARMEN BRIDGE — Repairing Wood River Bridge approximately 3 mi. south of Ketchum and the Carmen Bridge approximately 4 mi. north of Salmon City, on U. S. Highway No. 93, Blaine and Lemhi Counties; State Proj. Nos. ST-2392(503, ST-M-6354(505). Completion date November 1, 1956.

ONLY BID: Neilsen & Smith, Boise, $9,800.

JCT. EMMET - BLACK CANYON DAM HIGHWAY-WEST—Seal coating 6.50 mile SH No. 52, extension, Gem County; State Proj. No. ST-M-3261(503). Cimpletion date September 15, 1956.

ONLY BID: Quinn Bros. & Robbins, 703 S. 16th, Boise, $6,900.

BONNERS FERRY BRIDGE, PEND OREILLE RIVER BRIDGE—Repairing the Bonners Ferry bridge on U.S. Highway No. 95 and revising portals on Pend Oreille River bridge on U. S. Highway No. 2, at Old Town, Boundary and Bonners Counties; State Proj. Nos. ST-M-5116(513), ST-5121(506). Completion date November 1, 1956.

LOW BID: Henry Hagman, Box 1801, Spokane, Wash., $3,711. ONLY OTHER BID: Northwest Erectors, Inc., Box 4223, Station B, Spokane, $6,320. SP 9-7. Previous report 8-24

★PAVING— **Boise, Idaho**

Award to Asphalt Paving & Construction Co., 3206 Pleasanton Ave., Boise, $7,713, by R. E. Edlefson, city purchasing agent, City Hall, Boise, for paving Cassia St., LID No. 56-C. SP 9-8. Previous report 9-1

★STATE HIGHWAY PROJECTS— **Boise, Idaho**

Awards announced by Department of Highways, 603 Main St., Boise, for two highway construction projects on which bids opened August 28.

GEORGETOWN - NOUNAN ROAD — Construction of base and roadmix bituminous surface on 6.402 mile road in Bear Lake County; FAP No. S-1817(3).

AWARD: Olof Nelson Construction Co., Logan, Utah, $54,473.

PARADISE, PASADENA VALLEY ROADS —Construction of roadway and roadmix bituminous surfacing on 3.544 mile Paradise Valley Road; grading, draining 1.260 mile Pasadena Valley Road, Elmore County; FAP Nos. S-39-3(2), S-3810(2).

AWARD: Carl Woodall, 2114 Pond St., Boise, $86,810. SP 9-8. Previous report 8-31

★STATE HIGHWAY PROJECTS— **Boise, Idaho**

Awards announced by Department of Highways, 603 Main St., Boise, for highway construction on which bids opened August 21.

BANKS-CROUCH—Install two pipe culverts, restore roadway on SH No. 17, Boise County; FAP No. ER-26(1).

AWARD: Eagle Construction Co., Inc., Box 1496, Boise, $24,992.

COUNCIL - MESA — Furnish crushed rock and cover coat material in stockpiles adjacent to U. S. Highway No. 95 at Council maintenance yard and north of Mesa, Adams County; Stockpile Proj. No. 130.

AWARD: Richard Beshey, Parma, $42,345.

IDAHO FALLS-RIGBY —Roadbed widening, plantmix bituminous surfacing on 0.423 mile U. S. Highways 20 and 191 at two railroad crossing 1½ mile northeasterly of Idaho Falls and ½ mile northeasterly of Rigby, Bonneville and Jefferson counties; FAP No. F-6471(7).

AWARD: Carl E. Nelson Construction Co., Inc., Box 397, Logan, Utah, $32,580.

SHOSHONE HIGHWAY YARD—Furnishing 10,000 ton crushed gravel surfacing, 2,000 ton cover coat material in stockpiles in state highway yard at Shoshone, Lincoln County; Stockpile Project No. 161.

AWARD: A. D. Stanley, 1206 N. 24th, Boise, $15,900. SP 9-8. Previous report 8-25

●BRIDGE— **Boise, Idaho**

Bids will be opened 2 p. m., September 19, by U. S. Forest Service, Forest Supervisor's office, 210 Main St., Boise, for replacing an existing bridge over Deadwood River about ⅛ mile above Deadwood Reservoir, Deadwood River bridge No. 3, Boise National Forest, Valley County, Idaho; FSP No. 150. Specifications with Regional Supply Officer at above address. Cashier's check or bid bond 5%. Completion time 60 calendar days.

Quantities: 85 c.y. structure excavation; 48.8 c.y. concrete; 2,565 lb. reinforcing steel; 90 c.y. loose rock riprap, rock fill. SP 9-11

★STRUCTURAL STEEL— **Boise, Idaho**

Award to Baxter's Foundry & Machine Works, 1501 S. Capitol Blvd., Boise, $5,344, by Ted Cramer, state purchasing agent, State House, Boise, for furnishing fabricated structural steel at Murtaugh for the state highway department. SP 9-12. Previous report 9-5

●CORRUGATED METAL PIPE— **Boise, Idaho**

Bids will be opened 11 a. m., September 19, by Ted Cramer, state purchasing agent, 225 State House, Boise, for corrugated metal pipe for the highway department. Specifications with above office. SC 9-12

▲CONCRETE, ROAD AGGREGATE STOCKPILES— **Idaho Falls, Idaho**

Bids received by Atomic Energy Commission, Box 1221, Idaho Falls, for production of concrete and road aggregate stockpiles at the National Reactor Testing Station in Idaho; Inv. No. AT(10-1)-863. Bids opened September 5. LOW BIDS—ANP AREA: Idaho Rock, Inc., Twin Falls, $80,800; Morrison-Knudsen Co., Box 450, Boise, $100,240. CENTRAL FACILITIES AREA: Morrison-Knudsen Co., Boise, $37,200; Idaho Rock, Inc., Twin Falls, $40,500; Ford-Fielding, Inc., 893 N. Starr Ave., Provo, Utah, $40,500. SP 9-11. Previous report 8-25

▲WELL, PUMP— **Idaho Falls, Idaho**

Bids received by Atomic Energy Commission, Box 1121, Idaho Falls, for drilling, casing and testing production well and installing pump at the Army Reactor Area at National Reactor Testing Station in Idaho; Inv. No. A8(10-1)-846. Bids opened September 5. LOW BIDS: R. J. Strasser Drilling Co., 8110 S.E. Sunset Lane, Portland, Ore., $26,783; Andrew Well Drilling Contractors, 1360 E. 17th, Idaho Falls, $31,950; Cope Drilling & Pump Co., Airport Road, Idaho Falls, $35,287. SP 9-11. Previous report 8-23

★LEVEE REPAIR— **Kootenai River, Idaho**

Awards by Corps of Engineers, Seattle District, 4735 E. Marginal Way, Seattle, for Levee repair, districts 4, 9, 12, 16, and Casey and Kerr Tracts, Kootenai River, Idaho. CIVENG-45-108-57-7. AWARDS—Sched. A: Cherf Bros Inc., and Sandkay Contractors Inc., Box 938, Ephrata, $244,166. Sched. B: Zook Bros., Troy, Mont., $10,922. Sched. A: consists of districts 9, 12 and Kerr tract; Sched. B: district 4, 16 and Casey Tract. GW 9-11. Previous report 9-6

SEWAGE TREATMENT PLANT, SEWERS— **Lewiston, Idaho**

(Estimated cost $700,000)

Special election will be held soon for funds to finance construction of 30 miles general sewers and construction of a sewage treatment plant in Lewiston Orchards, Lewiston, for Lewiston Orchards Sewer District No. 1, Clarence Nordy, secretary, Lewiston. Plans underway by Walter L. Woodward, consulting engineers, 206 Empire State Bldg., Spokane. Estimated cost includes $150,000 for treatment plant and $550,000 for sewers. CE 9-8

★METAL CULVERT PIPE—Lewiston, Idaho

Award announced by Ted Cramer, state purchasing agent, 225 State House, Boise, for metal culvert pipe for the highways at Lewiston. Bids opened September 6. AWARD: Armco Drainage & Metal Products, Inc., 2215 Main, Boise, $1,292. 2ND LOW: Spokane Culvert & Fabricating Co., E. Trent and Hamilton, Spokane, Wash., $1,388. 3RD LOW: Beall Pipe & Tank Co., 225 Broadway Ave., Boise, $1,312. SP 9-11. Previous report 8-30

★BRIDGE— Riggins, Idaho

Award to W. R. Cahoon Construction Co., Box 449, Pocatello, $137,019, by U. S. Forest Service, Supervisor's Office, Forest Service Bldg., McCall, for construction of Partridge Creek Bridge, about 13 mi. east of Riggins, Payette National Forest, Idaho County, Idaho; FSP No. 90.

SP 9-12. Previous report 9-5

MONTANA

DRAINAGE, STREET IMPROVEMENTS— Dillon, Mont.

Neil Sullivan, civil engineer, Butte, has been retained by City Council, City Hall, Dillon, to survey and map a master plan for drainage and present and future street improvements, and to make plans and specifications for paving in special improvement district embracing parts of Idaho St. and all of Washington and Pacific Streets on east side of Dillon. Completion set for February 1, 1957.

SC 9-7

★WATER MAIN PIPE— Dillon, Mont.

Award to Hugulet & Pierce, Dillon, $1.69 per foot, by City Council, City Hall, Dillon, for replacing 1,900' of wooden pipe with 12" cast iron pipe in the city's main water line, a sector at Norman Nelson Ranch southwest of Dillon.

SC 9-7

★WELL— Galen, Mont.

Award to Layne-Minnesota Co., Minneapolis, Minn., and Billings, $19,500, by State Board of Examiners, G. L. Bryant, secretary, State Capitol, Helena, for a new water well to serve the State Tuberculosis Sanitarium at Galen.

SC 9-12

●STATE HIGHWAY PROJECTS— Helena, Mont.

Bids to be opened 9:30 a. m., September 27, by Montana State Highway Commission, Scott P. Hart, highway engineer, Helena, for ten construction projects. Specifications with Helena office. Certified check, cashier's check or bid bond 5%.

GALLATIN GATEWAY-SOUTH ROAD — Grading, gravel surfacing, bituminous surface treatment, drainage structures on 4.997 mile in Galatin County, Mont., and in Park County, Wyo.; F 76(5)U2.

Quantities: 468,188 c.y. excavation; 916 c.y. gravel backfill; 66,040 mi. yd. overhaul; 91,914 ton crushed gravel; 37,762 gal. liquid asphalt; 37,762 gal. emulsified asphalt; 8,812 M gal. watering; 2,774' corrugated metal pipe culverts; 818' structural plate pipe culverts; 198 c.y. random riprap.

PORTER'S CORNER SECTION—Grading, gravel surfacing, bituminous surface treatment, drainage structures on 3.546 mile Philipsburg-Anaconda road in Granite County; F 164(8).

Qauntities: 116 c.y. gravel backfill; 11,670 mi. yd. overhaul; 164,335 c.y. excavation; 59,469 ton crushed gravel; 23,605 gal. liquid asphalt; 23,605 gal. emulsified asphalt; 1,128' reinforced concrete pipe culverts; 72' reinforced concrete stockpass; 288' corrugated metal pipe culverts; 7,982 lb. reinforcing steel; 43.69 c.y. concrete.

PHILIPSBURG-SOUTH ROAD — Grading, gravel surfacing, bituminous surface treatment, drainage structures, widening of one 63.4' steel and concrete bridge on 4.157 mile in Granite County; F 175(4).

Quantities: 179,354 c.y. excavation; 88 c.y. gravel backfill; 77,710 mi. yd. overhaul; 91,508 ton crushed gravel; 30,120 gal. liquid asphalt; 30,193 gal. emulsified asphalt; 4,500 M gal. watering; 1,760' reinforced concrete pipe culverts; 226' corrugated metal pipe culverts; 13,652 lb. reinforcing steel; 22 c.y. class A concrete; 51.30 c.y. class AD concrete; 66.17' concrete curb, rail.

BROWING EAST AND WEST ROAD — Grading, gravel surfacing roadmix oiling, drainage structures, two 38' treated timber bridges on 1.050 mile in Glacier County; F 196(5).

Quantities: 72,670 c.y. excavation; 28,539 mi. yd. overhaul; 17,445 ton crushed gravel; 30,172 gal. liquid asphalt; 1,430 M gal. watering; 1.050 mi. processing; 258' corrugated metal pipe culverts.

YELLOWSTONE RIVER BRIDGE — Construct one 1317.5' steel and concrete bridge over Yellowstone River on Yellowstone River Bridge-Glendive Road at Glendive in Dawson County; F 213(3).

Quantities: 225,395 lb. reinforcing steel; 4,416.7 c.y. concrete; 2,638' steel bridge rail; 47,700 lb. furnish steel bearing piles; 864' drive steel bearing piles; 56 floor drains; 5,675 c.y. structure excavation; lump sum shoring and cribs.

GLENDIVE - SIDNEY ROAD — Construct structural plate pipe arch culvert and grading, gravel surfacing, bituminous surface treatment, drainage structures on 0.706 mile in Richland County; F 245(10), F 245(11).

Quantities: 64,729 c.y. excavation; 451 c.y. gravel backfill; 9,438 c.y. designated borrow; 2,140 mi. yd. overhaul; 101 mi. yd. overhaul; 3,632 ton crushed gravel; 5,933 gal. liquid asphalt; 5,933 gal. emulsified asphalt; 1,300 M gal. watering; 1,070' corrugated metal pipe culverts; 328' haul, erect state furnished structural plate pipe culvert.

BOZEMAN - WILSALL ROAD — Grading, gravel surfacing, seal coat oiling, plantmix oiling, drainage structures on 0.782 mile of North Rouse Avenue-Bozeman section of Bozeman-Wilsall road and graveling surfacing, seal coat oiling and plantmix oiling on 2.890 mile of another section of same road, Gallatin County; U. S. 370(8), S 370(10).

Quantities: 7,331 c.y. excavation; 8,539 ton plantmix; 44,788 ton crushed gravel; 126,903 gal. asphalt cement; 30,551 gal. liquid asphalt; 1,365 M gal. watering; 546' corrugated metal pipe culverts; 337.5' steel guard rail; 2,201 sq. ft. galvanized metal bin type retaining wall; 400 c.y. gravel backfill.

IN THE CITY OF HARLEM—Construction of one 88' treated timber pile bridge, approaches over Thirty Mile Creek on Smith Avenue between Water and Park Streets on Harlem-Turner-Canadian Line Road, Blaine County; S 12(8).

Quantities: 530 c.y. excavation; 3,227 c.y. designated borrow; 8,867 mi. yd. overhaul; 48 M gal. watering; 192' corrugated metal pipe culverts.

RAYNESFORD-SOUTH ROAD — Grading, gravel surfacing, one 38' treated timber bridge over Big Otter Creek and one small drainage structure on 7.073 mile in Judith Basin County; S 183(1).

Quantities: 379,059 c.y. excavation; 489 c.y. backfill; 5,358 mi. yd. overhaul; 963 c.y. binder; 1,926 mi. yd. overhaul; 42,352 ton crushed gravel; 6,449 M gal. watering; 3,744' reinforced concrete pipe culverts; 372' structural plate pipe stockpass.

GLASGOW - OPHEIM - CANADIAN LINE ROAD—Grading, gravel surfacing, drainage structures on 10.437 mile in Valley County; S 286(4).

Quantities: 521,237 c.y. excavation; 487 c.y. gravel backfill; 52,960 mi. yd. overhaul; 12,543 ton selected borrow base course uncrushed; 66,191 ton crushed gravel; 1,566 c.y. binder; 3,132 mi. yd. overhaul; 8,593 M gal. watering; 3,618' corrugated metal pipe culverts; 359' structural plate pipe culverts.

SMP 0299—Crushing, stockpiling 132,500 ton of ⅝" crushed gravel surfacing and 55,000 ton ½" crushed gravel surfacing from 12 crusher set-ups in Big Horn, Carbon, Stillwater, Sweetgrass, Yellowstone counties.

SMP 2110-03—Construct one 38' untreated timber bridge over Beaver Creek about four miles west of Havre on Gilford-Havre-East Road, Hill County.

Quantities: 18,639 mbm untreated timber; 690' untreated timber piles; 305 c.y. unclassified excavation.

DM 9-11

▲WATER TANK FOUNDATIONS— Kalispell, Mont.

Bid received by H. J. Hunt, city clerk, City Hall, Kalispell, for construction of concrete foundations, center pier and valve box for the 100,000-gallon elevated water tank for which a contract was recently awarded to Pittsburgh-Des Moines Steel Co. Specifications by Morrison-Maierle, consulting engineers, 910 Helena Ave., Helena. Bid opened September 4. ONLY BID: Gyrion Construction Co., 94 5th Ave. W., Kalispell, $4,385.

RB 9-12. Previous report 8-23

Legal advertisements published in our columns are read throughout the Pacific Northwest and Alaska.

★SWEEPER— Kalispell, Mont.

Award to Western Construction Equipment Co., 2222 River Drive, Great Falls, $12,790, less trade-in of $4,100 on old sweeper, by H. J. Hunt, city clerk, City Hall, Kalispell, for a new motor-driven street sweeper of not less than 4 c.y. capacity; 2 c.y. Austin Western sweeper trade-in or separate offer for purchase. Bids opened September 4.

SP 9-12. Previous report 8-23

★GRADING, SURFACING—Missoula, Mont.

Award recommended to Goodfellow Bros., Wenatchee, $497,645, by Bureau of Public Roads, Missoula, for grading and surfacing 3.715 mile Yellowstone Trail Highway, between Cyr Bridge and Alberton, Interstate Highway, U. S. Route 10, Lolo National Forest, Mineral County, Western Mont.; FHI No. 8-A7.

SP 9-7. Previous report 9-1

▲BRIDGE RAILS, CURBS—Missoula, Mont.

Bids opened by Bureau of Public Roads, Federal Bldg., Missoula, for repair of bridge rails and curbs on Clark Fork River Bridge and Kootenai Bridge, Yellowstone Trail Highway and Libby-State Line Highway, Cabinet, Lolo and Kootenai National Forests, Mineral, Missoula and Lincoln counties, Mont.; Montana FHI 8-01 and FHP 1-E1. BIDDERS: Colonial Construction Co., N. 615 Mansfield Ave., Spokane, $19,410; Larson-Bradshaw, Inc., Spokane, $20,889; H. Flechsing & Sons, 1637 S. Higgins, Missoula, $21,496. Bids opened September 7.

WB 9-11. Previous report 8-23

▲DRIVEWAY AND MISCELLANEOUS IMPROVEMENTS— Sweetgrass, Mont.

Bids received by General Services Administration, room 126, Federal Office Bldg., Seattle, Wash., for driveway and miscellaneous improvements at U. S. Border Station, U. S. Highway No. 91, Sweetgrass; Project No. CR-10-424. LOW BID: Palmer Shops, 538 N. 78th, Seattle, Wash., $16,896. ONLY OTHER BID: Vogl Construction Co., Lewistown, $23,000. Bids were opened September 7.

GW 9-11. Previous report 8-21

UTAH

★GRADING, SURFACING— Ogden, Utah

Award recommended by Bureau of Public Roads, Denver Federal Center, Denver, Colo., for grading and bituminous surfacing on 9.266 mile Provo River-Haydens Fork Road, Summit, Wasatch and Duchesne Counties, Wasatch National Forest, Utah; Proj. No. 34-D1, E1, F1. Bids opened September 5. AWARD RECOMMMENDATION: Olof Nelson Construction Co., Logan, $146,556. 2ND LOW: Thorn Construction Co., Inc., Springville, $152,346. 3RD LOW: W. W. Clyde & Co., Springville, $154,009.

SP 9-12

★STATE HIGHWAY PROJECT— Salt Lake City, Utah

Award announced by Utah State Road Commission, State Capitol, Salt Lake City, for highway construction on which bids opened August 21.

TWIN ROCKS-FRUITA — Construction of 2½" roadmix bituminous surfacing on 5.175 mile State Road No. 24 in Wayne County; FAS No. S-0371(1) 1st Contract.

AWARD: Wangsgaard Construction Co., Box 286, Logan, $302,318.

SP 9-12. Previous report 8-28

■ SEWER EXTENSION— Salt Lake City, Utah

Planholders announced for construction of sewer extension No. 774 on 4th W. from 9th to 13th S. and on Montague Ave. between 3rd and 4th W. streets in Salt Lake City. Bids will be opened 10:30 a. m., September 18, by Salt Lake City Corporation, Roy W. McLeese, city engineer, City-County Bldg., Salt Lake City.

Planholders: Tiago Construction Co., 3399 S. 2nd West, Salt Lake City; Huber & Roland, 947 W.S. Temple, Salt Lake City; Huber & Hewman, 424 Kensington Ave., Salt Lake City; Statewide Plumbing & Heating Co., Box 266, Murray.

GH 9-8. Previous report 8-30

★**CURBS, GUTTERS—Salt Lake City, Utah**

Award to Richard C. Bradshaw, 4610 Atwood Blvd., Murray, $29,436, by Salt Lake City Corporation, Roy W. McLeese, city engineer, 401 City-County Bldg., Salt Lake City, for construction of curbs and gutters on 11th East from 7th to 9th South in Salt Lake City. GH 9-8. Previous report 9-5

●**STATE HIGHWAY PROJECTS— Salt Lake City, Utah**

Bids will be opened 2 p. m., September 25, by Utah State Road Commission, State Capitol, Salt Lake City, for highway construction. Specifications with above office. $2 deposit. Certified check, cashier's check or bid bond 5%.

STATE ROAD No. 48—Construction of 2½" plantmix bituminous surfacing on 0.671 mi. Midvale Center Street between the Union Pacific railroad tracks and the Denver and Rio Grande Western railroad tracks, Salt Lake County; State Proj. No. 1580.

Quantities: 4,000 ton plantmix bituminous surface; 273 ton bituminous material; 4,200 ton gravel.

U. S. 160, STATE ROAD No. 47—Construction of 3" roadmix bituminous surfacing on 5.467 mi. Monticello Main St. and State Road No. 47, from Blanding Southerly to the Jct. of State Road 47, San Juan County; State Proj. Nos. 1577 and 1578.

Quantities: 963 ton bituminous material; 56,900 ton gravel; 53,300 c.y. roadway excavation.

FAS ROUTE No. 250—Construction of one concrete bridge over the Provo River between Midway and the Jct. of U. S. 40 north of Heber, Wasatch County; FAS No. S-0250(1).

Quantities: 353 c.y. concrete; 46,050 lb. reinforcing steel. SP 9-11

ALASKA

SEWER LINE— Anchorage, Alaska

Contract approved by City Council, City Hall, Anchorage, for city use of the outfall line from the Air Force Hospital to Knik Arm, saving the city about $200,000. Cost to the city will be $95,588 for thirty years; city will also pay one-third of maintenance costs, not to exceed $60,000. The sanitary sewer serves residents of west Government Hill and all Mountain View north of the Glenn Highway, for which the city would pay $360,000 over a period of 30 years under the previous arrangement. SC 9-8

Bureau of Reclamation Lists 31 Major Projects . . .

. . . Scheduled for Bid Call Within Next Three Months

Thirty-one major construction projects will be among bid invitations issued by the Bureau of Reclamation during September, October and November. Bids will be called in September on alternate proposals for an earthfill dam or a concrete arch dam on the South Fork of Owl Creek about 35 miles west of Thermopolis, Wyo. Also planned for September bid calls are the earth and rockfill dam on Beaver Creek about 27 miles east of Ashland, Ore.; the horseshoe tunnel east of Helena, Mont. adjacent to Canyon Ferry Dam; and the Wanship and Gateway power plants in Utah. For further information, write to L. N. McClellan, chief engineer, Denver Federal Center, Denver, Colo., referring to the project by title and number.

BID CALLS EXPECTED IN SEPTEMBER

DAM, Anchor (9-1), Missouri River Basin Project, Wyo. On South Fork of Owl Creek about 35 miles west of Thermopolis, Wyo. Bids will be received on the two following alternate proposals: 1 — Constructing an earthfill dam with crest of 175' above streambed and 460' in length, a spillway with approach channel, concrete inlet structure, concrete lined tunnel, concrete conduit and stilling basin, riprap lined outlet channel, outlet works with concrete intake structure, lined tunnel, gate chamber, adit and access shaft, shaft house, ventilating system and one mile of access road with drainage structures. 2—Constructing a 66,000 cu. yd. concrete arch dam 200' high and 550' long and constructing one mile of access road with drainage structures.

Quantities: Earthfill Dam—59,000 c.y. excavation, overburden in open cut, 12,000 c.y. bedrock excavation in open cut; 7,000 c.y. excavation in tunnels and shafts; 641,000 c.y. excavation from borrow; 22,000 c.y. pervious backfill; 544,000 c.y. earthfill in dam embankment; 8,600 sacks pressure grouting; 800,000 lb. reinforcing steel; 2,750 lb. piping; 58,000 lb. metalwork, equipment. Concrete Arch Dam—diversion and care of river; 44,000 c.y. overburden excavation; 20,000 c.y. bedrock excavation; 26,000 c.y. roadway excavation; 5,000' grout holes; 5,000 sacks grouting; 66,000 c.y. concrete; 31,000 lb. mechanical equipment; 83,000 lb. metal work.

Completion time 900 days.

Bids will be called by the chief engineer, Denver, Colo. late in September.

DAM, Howard Prairie (9-2)—Rogue River Basin Project, Ore. On Beaver Creek about 27 miles east of Ashland, Ore. Constructing an 86' high, 990' long earth and rockfill dam; a spillway with approach channel, concrete crest structure, chute and stilling basin; an outlet works with concrete intake structure, fish screen structure, conduit, gate chamber, control house and stilling basin.

Quantities: 34,000 c.y. common excavation for dam; 825 c.y. rock excavation for dam; 367,000 c.y. excavation from borrow; 400,000 c.y. fill in dam embankment; 26,000 c.y. excavation for structures; 2,000 c.y. concrete in structures; 13,000 c.y. pressure grouting; 250,000 lb. reinforcing steel; 5,000 lb. metalwork; 41,000 lb. government furnished metalwork, equipment; 16,000 lb. outlet pipe.

Completion time 750 days.

Bids will be called by the chief engineer, Denver, late in September.

TUNNEL—Helena Valley (9-3) — Missouri River Basin Project, Mont. Fifteen miles east of Helena adjacent to Canyon Ferry Dam, Mont. Constructing a seven foot diameter horseshoe tunnel about 2.6 miles long.

Quantities: 31,000 c.y. excavation in tunnel; 10,000 c.y. concrete in tunnel lining; 100 c.y. concrete in structures; 600,000 lb. steel supports; 14,000' roof bolt supports; 50,000 lb. tunnel liner plate; 200 mbm permanent timbering.

Completion time 800 days.

Bids to be called late in September by the chief engineer, Denver.

POWER PLANTS—Wanship and Gateway (9-4)—Weber Basin Project, Utah.

Wanship Power Plant, south of Wanship, Utah—Constructing a reinforced concrete, outdoor type power plant including steel penstock, concrete tailrace structure and channel, installing one 2,000 hp. turbine, one 1,400 kw generator, one 54" butterfly valve, one gate shaft type governor, furnishing and installing one bulkhead gate and a package type substation, construction a wood pole transmission line 1,700' long. Quantities: 3,800 c.y. common excavation; 20 c.y. rock excavation; 390 c.y. concrete; 50,000 lb. reinforcing steel; 50,000 lb. of 54" steel penstock; 3,560 lb bulkhead gate.

Gateway Power Plant, ten miles southwest of Ogden, Utah on the south bank of the Weber River—Constructing a reinforced concrete, outdoor type power plant including steel penstock and concrete penstock anchor, concrete tailrace structure and channel, installing two 2,900 hp turbines, two 2,000 kw generators, two 54" butterfly valves, two gate shaft type governors and furnishing and installing bulkhead gate, one radial gate and a package type substation. Project also includes construction of timber bridge across existing wasteway structure and an access road 1,000' long. Quantities: 29,000 c.y. common excavation; 1,000 c.y. rock excavation; 1,600 c.y. concrete; 170,000 lb. reinforcing steel; 400,000 lb. 54" steel penstock; 4,165 lb. bulkhead gate.

Completion time 520 days.

Bids to be called soon by chief engineer, Denver.

PUMPING PLANT, Helena Valley (9-5)—Missouri River Basin Project, Mont. Near Helena, Mont. Constructing an outdoor type pumping plant of reinforced concrete with a structural steel crane runway and overhead traveling crane and an approach bridge. Work includes installing two 150 cfs, hydraulic turbine driven pumps and other government furnished equipment. Water for both pumps and turbines will come from Canyon Ferry Reservoir about 500' upstream.

QUANTITIES: 10,000 c.y. excavation; 6,300 c.y. concrete; 136,000 lb. structural steel; 80,000 lb. reinforcing steel; 670,000 lb. government furnished reinforcing steel; 500,000 lb. government furnished penstock, discharge pipe and manifolds; 225,000 lb. government furnished gates and valves; 171,000 lb. miscellaneous metalwork including trashracks.

Completion time 750 days.

Bids to be called by the chief engineer, Denver, late in September.

PUMPING PLANT, White Bluffs (9-6)—Columbia Basin Project, Wash. Near Othello, Wash. Constructing an indoor type pumping plant with four electrically driven, horizontal pumping units of 178 cfs total capacity. The substructure is to be reinforced concrete, the superstructure a structural steel frame with uninsulated metal panel siding, and the framing to carry a crane runway for a six ton, hand operated traveling crane. Also included is construction of the inlet transition, pump discharge line, outlet structure and switchyard and installation of pumping units and electrical equipment.

Quantities: 56,000 c.y. lateral excavation; 22,000 c.y. excavation for structures and discharge line; 10,000 c.y. backfill; 700 c.y. concrete; 60,000 lb. structural steel;48,000 lb. steel pipes and manifold; 1,650' of 21" and 66" concrete pipe.

Completion time 650 days.

Bids to be called late in September by the chief engineer, Denver.

LATERALS, North Side Pumping Division (9-9)—Minidoka Project, Idaho. Near Rupter, Idaho. Earthwork and structures for open laterals from 25 wells with bottom widths of from 4' to 2' and for six relift pumping plants and discharge lines.

Quantities: 260,000 c.y. lateral excavation; 20,000 mi. c.y. overhaul; 6,000 c.y. structure excavation; 530 c.y. concrete in structures; 9,000' of 15" to 30" precast concrete pipe.

CANAL STABILIZATION (9-11) — Shoshone Project, Wyo. About 20 miles north of Cody, Wyo. Constructing berms on canal above Buck Springs Creek siphon. Project involves 25,000 c.y. excavation, removal of wood culverts and replacement with corrugated metal pipe culvert.

Completion time 75 days.

Bids to be called by project manager, Cody.

DRAINS (9-14)—Shoshone Project, Wyo. Near Powell, Wyo. Constructing 3.5 mile of closed drain, 1.1 mile of open drains, converting about 1.6 mile of open and closed drains.

Completion time 250 days.

Bids to be called by project manager, Cody, Wyo.

DRAINS (9-15)—Riverton Project, Wyo. About 25 miles north and west of Riverton, Wyo. Constructin 3.5 mile of 6" and 8" closed drains, 0.25 mile of open drains.

Completion time 210 days.

Bids to be called by project manager, Riverton, Wyo.

DEEPENING DRAINS, Block 43 (9-16)—Columbia Basin Project, Wash. Near Warden, Wash. Deepening drains, constructing about 14 miles of new drains including culverts and drain inlets.

Completion time to be determined.

Bids to be called by project manager, Ephrata, Wash.

BRIDGE (9-21) — Provo River Project, Utah. Near Hailstone, Utah. Clearing river channel, constructing a timber bridge and two heavy riprap overflow controls.

Quantities: 3,500 c.y. constructing embankments; 11,000 ton riprap; 300 c.y. structure excavation; 25 c.y. concrete; 36,000 fbm timber in structures.

Completion time 150 days.

Bids to be called by regional director, Salt Lake City, Utah.

HOUSING (9-30) — Michaud Flats Project, Idaho. Near American Falls, Idaho. Constructing two two-bedroom residences. Completion time 230 days.

Bids to be called late in September by regional director, Boise.

BID CALLS EXPECTED IN OCTOBER AND NOVEMBER

DAM MODIFICATIONS (9-33)—Shoshone Project, Wyo. Replacing upstream portion of the lower outlet works with a new intake shaft and tunnel equipped with bulkhead Plugging the existing intake tunnel under gate and hoist and trashrack structure. water. Rehabilitating the existing slide gates and replacing one existing 57" balanced valve with an 84" needle valve. Replacing trashracks on the penstock intakes with new metal intake wells with cylindrical trashracks. At Buffalo Bill Dam six miles west of Cody. Chief engineer, Denver, to issue invitations.

CANAL, DIVERSION DAM (9-35)—Rogue River Basin Project, Ore. Constructing 10.3 miles of open canal including 2.3 mile of 6'x3.75' rectangular reinforced concrete flume section, 7.5 miles of 2.2' bottom width canal line with unreinforced concrete and 0.5 mile of 48" precast concrete pipe siphon; constructing a small rockfill type diversion dam with reinforced concrete core wall, sluiceway and canal headworks and 1.65 miles of 24" bottom width canal lined with unreinforced concrete. Fifteen mies east of Ashland. Chief engineer, Denver to issue invitations.

PIPE LINES (9-38)—Weber Basin Project, Utah. Furnishing, laying about 21,000' of 24", 27", 30" precast concrete pressure pipe part of which will be steel cylinder type pipe with pretensioned reinforcement and constructing one concrete lined equalizing reservoir for Davis Aqueduct trunk lines. About 10 miles north of Salt Lake City. Chief engineer, Denver, will issue invitations.

LATERALS (9-39)—Columbia Basin Project, Wash. Earthwork, structures for about 50 miles of unlined open laterals, wasteways, drains with bottom widths varying from 12' to 2". Block 85, about five miles north of Smyrna. Chief engineer, Denver, to call bids.

LATERALS (9-40)—Columbia Basin Project, Wash. Constructing irrigation facilities to serve eight new farm units in Block 74 near Quincy. Project manager, Ephrata to issue invitations.

LATERAL TURNOUTS (9-42)—Columbia Basin Project, Wash. Constructing two CHO turnouts and one concrete check for farm units 30, 31, 40 in Block 15. Near Ephrata. Project manager, Ephrata will issue invitations.

CANAL, LATERAL LINING (9-44)—Riverton Project, Wyo. Furnishing and applying asphalt lining to several reaches of canals and laterals. Near Riverton. Project manager, Riverton, to issue invitations.

DRAINS (9-45)—Yakima Project, Wash. Constructing about 12 miles of surface drains near Kennewick. Regional director, Boise, Idaho to issue invitations.

DEEPENING DRAIN, WASTEWAY (9-47)—Columbia Basin Project, Wash. Deepening about 2.5 miles of DE 229 drain, extending two culverts, reconstructing about 12 drain inlets, deepening about one mile of EL31 wasteway, removing and reconstructing a county road bridge in Block 42, near Warden. Project manager, Ephrata, to issue invitations.

DEEPENING DRAINS (9-48)—Columbia Basin Project, Wash. Deepening 11 drains in Blocks 41 and 42, near Moses Lake. Project manager, Ephrata to isue invitations.

WELL (9-49)—Pine River Project, Utah. Drilling, casing 6" diameter domestic water well to depth of about 200'. Twenty miles northeast of Durango, Colo. Regional director, Salt Lake City, Utah to issue invitations.

POWER PLANT (9-50)—Missouri River Project, Wyo. Constructing Fremont Canyon Power Plant will include an indoor type reinforced concrete structure with a structural steel superstructure frame and concrete walls housing two 33,500 hp turbines and two generators. Also included will be three miles of lined tunnel, 18' in diameter with an inlet gate shaft, hoist house, trashracks and a surge tank near power plant with two steel penstock tunnels. About 35 miles southwest of Casper. Chief engineer, Denver to isue invitations.

PUMPING PLANTS (9-51)—Chief Joseph Dam Project, Wash. Constructing the three Brewster Pumping Plants will include one outdoor pier type plant with an approach single span bridge and with fish protection facilities which is to be located on the Columbia River and is to pump 50 cfs to the second plant, a booster plant, which is to be an indoor type plant with a reinforced concrete slab and a structural steel superstructure with metal roofing and siding and a traveling crane. The third plant, a relift plant, is to be an outdoor type plant with a reinforced concrete floor slab. Work will also include steel pipe discharge lines and a steel tank reservoir. Near Brewster. Chief engineer, Denver, to issue invitations.

PUMPING PLANT (9-25)—Weber Basin Project, Utah. Constructing the P2.8R Pumping Plant which is to have four outdoor horizontal booster units, two units having a total head of 225' and 9 cfs discharge and two units having a total head of 365' and 8 cfs discharge. The pumps are to be installed on a reinforced concrete slab. Southeast of Ogden. Chief engineer, Denver, to issue invitations.

ACCESS ROAD (9-56)—Missouri River Basin Project, Wyo. Constructing five miles of road including a 140' truss bridge for access to Fremont Canyon Power Plant on North Platte River, 40 miles southwest of Casper. Chief engineer, Denver, to issue invitations.

ROAD RELOCATION (9-57)—Deschutes Project, Ore. Relocating Haystack Reservoir county road. Regional director, Boise, Idaho, to isue invitations.

HOUSING (9-59)—Columbia Basin Project, Wash. Constructing one two-bedroom frame residence with full basement and garage complete with water and sewage facilities. Near Ringold Relift Pumping Plant in Block 19. Project manager, Ephrata to issue invitations.

Advertisements for Bids

Advertisements reaching us not later than Wednesday noon will appear the same week.

THE RATE for Advertisements for Bids is 35 cents per line for the first insertion; 25 cents per line for each insertion thereafter.

STATE HIGHWAY PROJECTS
BIDS CLOSE 9:30 A.M., SEPTEMBER 27
Helena, Montana
NOTICE TO CONTRACTORS

Sealed bids on the following projects will be received by the Montana Highway Commission at the offices of said Commission in the City of Helena until 9:30 A.M. on September 27, 1956. The proposals will be publicly opened and read immediately thereafter.

1. **F 76(5)U2**—Grade, gravel surfacing, bituminous surface treatment and construction of small drainage structures on 4.997 miles of the Gallatin Gateway-South Road in Gallatin County, Montana and Park County, Wyoming involving about; 468,188 cu. yds. excavation; 916 cu. yds. gravel backfill; 66,040 mi. yds. overhaul; 91,914 tons crushed gravel; 37,762 gals. liquid asphalt; 37,762 gals. emulsified asphalt; 8,812 M gals. watering; 1,537 units rolling; 2,774 lin. ft. corrugated metal pipe culverts; 818 lin. ft. structural plate pipe culverts; 240 hours blading work; 130 hours scraping work; 198 cu. yds. random riprap; and other items. Project to be completed in 300 calendar days.

2. **F 164(8)**—Grade, gravel surface, bituminous surface treatment and the construction of small drainage structures on 3.546 miles of the Porter's Corner Section of the Philipsburg-Anaconda Road in Granite County involving about 164,335 cu. yds. excavation; 116 cu. yds. gravel backfill; 11,670 mi. yds. overhaul; 59,469 tons crushed gravel; 23,605 gals. liquid asphalt; 23,605 gals. emulsified asphalt; 3,638 M gals. watering; 688 units rolling; 1,128 lin. ft. reinforced pipe culverts; 72 lin. ft. reinforced concrete stockpass; 288 lin. ft. corrugated metal pipe culverts; 7,982 lbs. reinforcing steel; 43.69 cu. yds. concrete; 650 MBM Headgate lumber; and other items. Project to be completed in 130 calendar days.

3. **F 175(4)**—Grade, gravel surface, bituminous surface treatment, construction of small drainage structures and the widening of one 63.4' steel and concrete bridge on 4.157 miles of the Philipsburg-South Road in Granite County involving about 179,354 cu. yds. excavation; 88 cu. yds gravel backfill; 77,710 mi. yds. overhaul; 91,508 tons crushed gravel; 30,129 gals. liquid asphalt; 30,193 gals. emulsified asphalt; 4,500 M gals. watering; 881 units rolling 1,760 lin. ft. reinforced concrete pipe culverts; 226 lin. ft. corrugated metal pipe culverts; 13,652 lbs. reinforcing steel; 22 cu. yds. class "A" concrete; 51.30 cu. yds. class "AD" concrete; 66.17 lin. ft. concrete curb and rail; all lump sum revision of existing structure and maintain traffic and other items. Project to be completed in 180 calendar days.

4. **F 196(5)**—Grade, gravel surfacing, road mix oiling, construction of small drainage structures and construction of two 38.0' treated timber bridges on 1.050 miles of the Browning East and West Road in Glacier County involving about 72,670 cu. yds. excavation; 28,539 mi. yds. overhaul; 17,445 tons crushed gravel; 30,712 gals. liquid asphalt; 1,403 M gals. watering; 240 units rolling; 1.050 miles processing; 258 lin. ft. corrugated metal pipe culverts; lump sum remove existing structures and maintain traffic; 45.400 MBM treated timber; 1.214 MBM untreated timber; 1,445 lin. ft. treated timber piles; and other items. Project to be completed by September 15, 1957.

5. **F 213(3)**—Construction of one 1317.5' steel and concrete bridge over the Yellowstone River on the Yellowstone River Bridge-Glendive Road at Glendive in Dawson County involving about all lump sum structural steel; 225,395 lbs. reinforcing steel;

4,416.7 cu. yds. concrete; 2,638.0 lin. ft. steel bridge rail; 47,700 lbs. furnishing steel bearing piles; 864 lin. ft. driving steel bearing piles; all lump sum test piles; 56 each floor-drains; all lump sum shoring and cribs; 5,675 cu. yds. structure excavation. Project to be completed by November 30, 1958.

6. F 245(10) and F 245(11)—Construction of a structural plate pipe arch culvert on the Glendive-Sidney Road, and grade, gravel surfacing, bituminous surface treatment and the construction of small drainage structures on 0.706 miles of the Glendive-Sidney Road in Richland County involving about 64,729 cu. yds. excavation; 451 cu. yds. gravel backfill; 9,438 cu. yds. designated borrow; 2,140 mi. yds. overhaul on designated borrow; 101 mi. yds. overhaul; 3,632 tons crushed gravel; 5,933 gals. liquid asphalt; 5,933 gals. emulsified asphalt; 1,300 M gals. watering; 225 units rolling; 1,070 lin. ft. corrugated metal pipe culverts; 328 lin. ft. haul and erect State furnished structural plate pipe culvert; and other items. Project to be completed by July 31, 1957.

7. US 370(8) and S-370(10)—Grade, gravel surfacing, seal coat oiling, plant mix oiling, and the construction of small drainage structures on 0.782 miles of the North Rouse Avenue—Bozeman section of the Bozeman-Wilsall Road in Gallatin County and the gravel surfacing, seal coat oiling and plant mix oiling on 2.890 miles of the Bozeman-Wilsall Road in Gallatin County involving about 7,331 cu. yds. excavation; 8,539 tons plant mix; 44,788 tons crushed gravel; 126,903 gals. asphalt cement; 30,551 gals. liquid asphalt; 1,365 M gals. watering; 380 units rolling; 546 lin. ft. corrugated metal pipe culverts; 337.5 lin. ft. steel guard rail; 11 each adjust manholes to grade; 2,201.1 sq. ft. galvanized metal bin type retaining wall; 400 cu. yds. gravel backfill; 50 hours mechanical tamping; 105 hours blading work; 75 hours scraping work; and other items. Project to be completed by September 15, 1957.

8. S 12(8)—Construction of one 88.0' treated timber pile bridge and approaches over Thirty Mile Creek on Smith Avenue between Water Street and Park Street within the City of Harlem on the Harlem-Turner-Canadian Line Road in Blaine County involving about 530 cu. yds. excavation; 3,227 cu. yds. designated borrow; 8,867 mi. yds. overhaul on designated borrow; 48 M gal. watering; all lump sum furnish and maintain facilities for watering; 192 lin. ft. corrugated metal pipe culverts; all lump sum remove existing structure and maintain traffic; 33.064 MBM treated timber; 1.315 MBM untreated timber; 1,320 lin. ft. treated timber piles; and other items. Project to be completed by June 30, 1957.

9. S 183(1)—Grade, gravel surfacing, one 38.0' treated timber bridge over Big Otter Creek and construction of small drainage structures on 7.073 miles of the Raynesford-South Road in Judith Basin County involving about 379,059 cu. yds. excavation; 489 cu. yds. backfill; 5,358 mi. yds. overhaul; 963 cu. yds. binder; 1,926 mi. yds. overhaul on binder; 42,352 tons crushed gravel; 6,449 M gal. watering; 205 units rolling; 3,744 lin. ft. reinforced concrete pipe culverts; 372 lin. ft. structural plate pipe stockpass; 16.264 MBM treated timber; 0.607 MBM untreated timber; 505 lin. ft. treated timber piles; and other items. Project to be completed in 200 calendar days.

10. S 286(4)—Grade, gravel surfacing and construction of small drainage structures on 10.437 miles of the Glasgow-Ophiem-Canadian Line Road in Valley County involving about 521,237 cu. yds. excavation; 487 cu. yds. gravel backfill; 52,960 mi. yds. overhaul; 12,543 tons selected borrow base course uncrushed; 66,191 tons crushed gravel; 1,566 cu. yds. binder; 3,132 mi. yds. overhaul on binder; 8,593 M gals. watering; 380 units rolling; 3,618 lin. ft. corrugated metal pipe culverts; 359 lin. ft. structural plate pipe culverts; and other items. Project to be completed in 180 calendar days.

The above listed quantities are approximate only.

All bid proposals shall be accompanied by a certified or cashier's check, cash, postal money order, bank money order, or bid bond in the amount of at least 5% of the bid. Should the successful bidder fail to enter into his contract and furnish a satisfactory performance bond within the time stated in his proposal, the bid deposit shall be forfeited to the State Highway Commission of Montana.

Prequalification of bidders at least 72 hours prior to the opening of bids is required.

Plans, specifications, forms of contract and bond, proposal blanks, and full instructions are on file for examination and may be obtained at the offices of the State Highway Commission in Helena, Montana. Plans and specifications for all Federal Aid Projects are also on file and may be examined in the office of the Bureau of Public Roads at Missoula.

Frank G. Connelly, Chairman
Scott P. Hart, State Highway Engineer
5617—9-15, 22

ELEMENTARY SCHOOL
BIDS CLOSE 8 P.M., SEPTEMBER 26
Seattle, Washington
NOTICE TO CONTRACTORS

Separate sealed proposals will be received by Shoreline School District No. 412, King County, Washington, at the Shoreline School District Office, East 158th Street and 20th Avenue N.E., Seattle 55, Washington, until 8:00 P.M., September 26, 1956, for the General, Mechanical, and Electrical contracts (separate contracts), for the construction of a new Echo Lake Elementary School, and the said proposals will then and there be publicly opened and read aloud. Bids received after the time set for opening cannot be considered.

Specifications and drawings may be examined at the office of the Architects, Jones and Bindon, 715 Hoge Building, Seattle 4, Washington, at the Seattle Chapter, Associated General Contractors of America, 215 West Harrison Street, Seattle, and at the Plan Bureau, 2413 Western Avenue, Seattle, and may be obtained at the Architects' office upon deposit of $25.00 for each set of general drawings and specifications and $15.00 for each set of mechanical or electrical drawings and specifications.

The full amount of deposit for one set of documents will be refunded to actual prime contract bidders, upon return of the docu-

When You Want Bids —

Architects and public officials charged with responsibility of getting competitive bids on construction projects have found for 53 years that our **CONSTRUCTION NEWS** publications provide the most effective and economical way through which to advertise for bids.

Year after year, more projects are advertised in CONSTRUCTION NEWS BULLETIN, in PACIFIC ARCHITECT AND BUILDER, and in PACIFIC BUILDER AND ENGINEER than in any other Northwest publications.

Rates are thirty-five cents per line for the first insertion; twenty-five cents per line for subsequent insertions. Copy received up to Wednesday noon reaches our readers the following Saturday.

PACIFIC ARCHITECT AND BUILDER
3rd Saturday of Each Month

PACIFIC BUILDER & ENGINEER
First Saturday of Each Month

CONSTRUCTION NEWS BULLETIN
2nd, 4th and 5th Saturdays

PACIFIC BUILDER & ENGINEER, INC., (MAin 0285) 2418 3RD AVENUE, SEATTLE 1, WASH.

ments, unmutilated and without marks or annotations, within one week after the date of the bid opening. Prime contract bidders requiring more than one set of documents and subcontract bidders desiring prints of drawings for their own use may obtain same by paying the actual cost of printing, which amount will not be refunded.

Each bid must be accompanied by a certified or bank cashier's check, or by a bid bond, each in an amount not less than 5% of the Base Bid, made payable to Shoreline School District No. 412, King County, Washington, bid bond must be furnished in the form set forth in the specifications with a State-licensed surety company as surety.

Attention of bidders is directed to State laws concerning wages, working hours, and other conditions of employment.

The Board of Directors reserves the right to reject any or all bids, and to waive informalities. No bidder may withdraw his bid after the hour set for the opening thereof, unless and until the award of contract has been delayed for a period exceeding forty-five (45) days.

By MYRON ERNST, Secretary,
Shoreline School District No. 412,
East 158th Street and 20th Ave. N.E.,
Seattle 55, Washington.

5610—9-6, 13, 20

STATE HIGHWAY PROJECTS

BIDS CLOSE 9 A.M., SEPTEMBER 27 and SEPTEMBER 28

Portland, Oregon

NOTICE TO CONTRACTORS

Sealed bids on the following projects will be received by the Oregon State Highway Commission in the Queens Room of the Imperial Hotel in Portland, Oregon, at 9:00 a.m. on Thursday, September 27, and at 9:00 a.m. on Friday, September 28, 1956.

BIDS TO BE OPENED AT 9:00 A.M. ON THURSDAY, SEPTEMBER 27, 1956

COLUMBIA COUNTY: North Fork Scappoose Creek Bridge on the Pittsburg-Scappoose Highway, 1.3 mi. north of Scappose. FAP No. S-77(6). Construct a 100' reinforced concrete deck girder bridge over the North Fork of Scappoose Creek Requires approx. 200 cu. yds. struc. excavation; 174 cu. yds. Class "A" concrete; 44,000 lbs. metal reinforcement; and 72 lin. ft. 8" metal drain pipe.

DESCHUTES COUNTY: East Unit, Fort Rock Road-Brothers Section of the Central Oregon Highway, about 28 mi. southeast of Bend. FAP No. F-147(12). 11.97 mi grading and paving. Requires approx. 49,400 cu. yds. borrow excavation; grading on equipment rental basis; 900 lin. ft. guardrail; 26,300 cu. yds. crushed base materials; 30,600 tons asphaltic concrete mixture; 1,840 tons 85-100 asphalt; 154 tons RS-1 asphalt; 140 tons RS-2 asphalt; and 106 tons 150-200 asphalt.

DOUGLAS COUNTY: Fords Bridge Unit, Myrtle Creek-Canyonville Section of the Pacific Highway, about 6 mi. south of Myrtle Creek. Federal Interstate Project No. I-78 (33). 1.23 mi. of paving. Requires approx. 372 cu. yds. concrete in islands and curbs; 8,700 lin. ft. guardrail; 3,200 lin. ft. median barrier; 29,000 cu. yds. crushed base materials; 80 tons RC-3 asphalt; 14,000 tons asphaltic concrete mixture; 840 tons 85-100 asphalt; 32 tons RS-1 asphalt; 60 tons RS-2 asphalt; 40 tons 150-200 asphalt; 800 rods Type 2 fence; and 35 rods median fence. This project may be bid in combination with the Fords Bridge-Canyonville Grading and Paving Project in Douglas County.

DOUGLAS COUNTY: Fords Bridge-Canyonville Unit, Myrtle Creek-Canyonville Section of the Pacific Highway, north from Canyonville. Federal Interstate Project No. I-78(32). 1.79 mi. grading and paving. Requires approx. 470,000 cu. yds. excavation; 1,125 cu. yds. concrete in box culverts, curbs and islands; 80,000 lbs. metal reinforcing; 10,500 lin. ft. guardrail; 61,000 cu. yds. crushed base materails; 140 tons RC-3 asphalt; 17,100 tons asphaltic concrete mixture; 1,000 tons 85-100 asphalt; 62 tons RS-1 asphalt; 80 tons RS-2 asphalt; 130 tons 150-200 asphalt; 800 rods Type 2 fence; and 820 rods Type 3 fence. This project may be bid in combination with the Fords Bridge Paving Project in Douglas County.

DOUGLAS COUNTY: Weaver Road Structures on the relocated section of Weaver Road near Myrtle Creek. Federal Interstate Projct No. I-78(31). Construct a 228' reinf. concrete deck girder grade separation structure over the relocated Pacific Highway and a 130' reinf. concrete deck girder grade separation structure over the S. P. Railroad tracks. Requires approx. 80 cu. yds. struc. excavation; 3,920 lin. ft. treated timber piling; furnish 1,000 lin. ft. steel pile shells; drive 20 steel pile shells; 700 cu. yds. Class "A" concrete; 160,000 lbs. metal reinf.; and 180 lin. ft. 8" metal drain pipe.

GRANT COUNTY: John Day Rock Production Project on the John Day and John Day-Burns Highways, near John Day. State Project. Requires approx. 7,000 cu. yds. crushed material in stock piles.

HOOD RIVER COUNTY: Viento State Park, 7.5 mi. west of Hood River. State Project. Construct two small latrines including septic tanks, sewer lines and disposal fields.

MARION COUNTY: Salem Storage Building. State Project. Construct a 36'x288' reinf. concrete storage building on State Highway Commission property at Salem.

MULTNOMAH COUNTY: Illumination Installation, N. E. 42nd Avenue-Troutdale Section of the T. H. Banfield Expressway in Portland. State Project. Requires approx. 115 steel street light poles; 121 mercury vapor luminaires; 20,000 lin. ft. of burial cable; and 121 mast arms.

UMATILLA COUNTY: Emigrant Hill-Deadmans Pass Section of the Old Oregon Trail Highway, about 15 mi. southeast of Pendleton. Federal Interstate Project No. I-62(10). 3.06 mi. of grading. Requires approx. 1,290,000 cu. yds. excavation; 340 cu. yds. concrete in box culverts; 68,000 lbs. metal reinf.; and 2,300 rods Type 1 fence.

UMATILLA COUNTY: Umatilla River Bridge on the Hinkle-Bucks Corner Section of the Hermiston Secondary Highway. FAP No. S-86(2). Construct a 310' reinf. concrete bridge over the Umatilla River. Requires approx. 470 cu. yds. struc. excavation; 3,300 lin. ft. untreated timber piling; 630 lin. ft. treated timber piling; 757 cu. yds. Class "A" concrete; 172,000 lbs. metal reinf.; and 30 lin. ft. 8" metal drain pipe.

WHEELER COUNTY: Parish Creek Unit, Spray-Waterman Section of the Spray-Waterman County Road, about 5 mi. south of Spray. FAP No. S-175(2). 3.12 mi. of grading. Requires approx. 73,000 cu. yds. excavation.

YAMHILL COUNTY: Whiteson Section of the Pacific Highway West, about 4 mi. south of McMinnville. FAP No. F-58(2). 0.50 mi. grading and paving; also construct 275' concrete and timber bridge. Requires approx. 24,000 cu. yds. excavation; 11,200 cu. yds. crushed base materials; 12 tons RC-3 asphalt; 1,800 tons asphaltic concrete pavement; 16 tons RS-2 asphalt; 16 tons 150-200 asphalt; 4,200 lin. ft. treated timber piling; 380 cu. yds. concrete; 120,000 lbs. metal reinforcing; and 40 M-FBM treated timber.

BIDS TO BE OPENED AT 9:00 A.M. ON FRIDAY, SEPTEMBER 28, 1956

CLACKAMAS COUNTY: Zigzag River Bridge on Clackamas County Road No. 820, approx. 2 mi. from Rhododendron. County Project. Bids for this project are being received on behalf of the county. Construct a 180' reinf. concrete bridge. Requires approx. 55 cu. yds. struct. excavation; 350 cu. yds. Class "A" concrete; and 100,000 lbs. metal reinforcement.

DOUGLAS COUNTY: Missouri Bottom-Canyonville Structures on the Myrtle Creek-Canyonville Section of the relocated Pacific Highway in Douglas County. Federal Interstate Project No. I(31) and I(32). Construct twin 144' reinf. concrete overcrossings of Irwin Road; a 234' reinf. concrete undercrossing of Chadwick Lane; a 241' reinf. concrete undercrossing of Riddle Road; and twin 588' reinf. concrete and steel bridges over the South Umpqua River at Missouri Bottom. Requires approx. 1,600 cu. yds. struct. excavation; 1,470 lin. ft. steel pile shell; 3,447 cu. yds. Class "A" concrete; 762,000 lbs. metal reinf.; 967,000 lbs. structural steel; and 360 lin. ft. 8" metal drain pipe.

DOUGLAS COUNTY: Tiller Maintenance Building State Project. Construct a 32'x82' masonry block building on State Highway Commission property at Tiller.

JACKSON COUNTY: Bybee Bridge (Rogue River) Section of the Table Rock Road, about 6 mi. northwest of Central Point. FAP No. ER-32(1). 0.19 mi. of embankment repair. Requires approx. 1,080 cu. yds. of rock riprap on roadbed slopes.

JOSEPHINE COUNTY: East and West Forks Illinois River Bridge Sections of the Redwood Highway, south from Cave Junction. FAP No. F-127(6). 2.26 mi. grading and paving. Requires approx. 210,000 cu. yds. excavation; 46 cu. yds. concrete in box culverts; 5,400 lbs. metal reinf.; 1,900 lin. ft. guardrail; 670 cu. yds. sacked aggregate-cement riprap; 27,500 cu. yds. crushed base materials; 66 tons RC-3 asphalt; 8,200 tons asphaltic concrete mixture; 490 tons 85-100 asphalt; 30 tons RS-1 asphalt; 30 tons RS-2 asphalt; and 60 tons 150-200 asphalt.

MARION COUNTY: Illahee-North Jefferson Junction Section of the Pacific Highway East, about 5 mi. south of Salem. Federal Interstate Project No. I-176(12). 2.33 mi. grading and paving. Requires approx. 227,000 cu. yds. excavation; 1,100 cu. yds. concrete in curbs, islands and box culverts; 113,400 lbs. metal reinf.; 60,700 cu. yds. crushed base materials; 130 tons RC-3 asphalt; 20,500 tons asphaltic concrete mixture; 1,230 tons 85-100 asphalt; 80 tons RS-2 asphalt; 300 tons 150-200 asphalt; 125 tons RS-1 asphalt; 1,400 rods Type 2 fence; and 6,200 lin. ft. median guardrail.

MULTNOMAH COUNTY: Structure, grading and stone base on the 37th Avenue-42nd Avenue Section of the T. H. Banfield Expressway in Portland. Federal Interstate Project No. I-323(20). Construct 0.36 mi. of roadway including stone base; also construct a 125' reinf. concrete box girder extension to existing Sandy Blvd. Viaduct; and a 450-foot "on-ramp" to the Banfield Expressway. Requires approx. 2,400 cu. yds. drainage excavation; 72,000 cu. yds. general excavation; disposal of 66,000 cu. yds. excess material; 4,700 lin. ft. various sizes of sewer pipe; 15,000 cu. yds. coarse crushed material in base; 350 tons Class "B" asphaltic concrete; 2,000 cu. yds. struct. excavation; 2,550 cu. yds. Class "A" concrete; 145 cu. yds. Class "A-A" concrete; 465,000 lbs. metal reinf.; all prestressing reinforcement and prestressing required; and 1,525 lin. ft. metal rail.

UMATILLA COUNTY: DELETED.

YAMHILL COUNTY: Structure, grading and stone base on the Yamhill River (Lafayette) Bridge Section of the Lafayette-South Road in Yamhill County. FAP No. S-329(1). Construct 0.17 mi. of roadbed, including stone base, and a 378' reinf. concrete and steel girder bridge across the Yamhill River. Requires approx. 39,700 cu. yds. loose riprap; 860 cu. yds. coarse crushed material in base; 450 cu. yds. structural excavation; 1,134 lin. ft. steel pile shells; 790 cu. yds. Class "A" concrete; 150,000 lbs. metal reinf.; 145,000 lbs. struct. steel; and 780 lin. ft. metal rail.

THE MINIMUM HOURLY WAGE PAID TO LABOR EMPLOYED ON FEDERAL INTERSTATE PROJECTS SHALL BE AS SET FORTH IN THE SPECIAL PROVISIONS APPLICABLE TO THOSE RESPECTIVE PROJECTS. THE MINIMUM HOURLY WAGE PAID TO LABOR EMPLOYED ON OTHER FEDERAL-AID PROJECTS SHALL BE AS FOLLOWS: SKILLED LABOR, $2.25 PER HOUR; INTERMEDIATE LABOR, $2.00 PER HOUR; UNSKILLED LABOR, $1.75 PER HOUR.

Prequalification of bidders will be required in accordance with the provisions of ORS 279.010 to 279.024, inclusive. Full information for bidders may be obtained at the office of the Oregon State Highway Commission, State Highway Building, Salem, Oregon. Plans and specifications may be inspected at the same place and may be obtained by eligible bidders upon payment of $2.00 for each set.

Plans and specifications may also be inspected at the office of the Associated General Contractors in Portland, Seattle, Spokane, and Boise; and at the Builders Exchange Cooperative, Portland.

The right is reserved to reject any and all proposals or to accept the proposal deemed best for the State of Oregon.

OREGON STATE HIGHWAY COMMISSION
by H. B. Glaisyer, Secrtary

5618—9-13



CONCRETE GIRDER BRIDGES

BIDS CLOSE 10 A. M., SEPTEMBER 21

Portland, Oregon

NOTICE TO CONTRACTORS

DEPARTMENT OF COMMERCE, BUREAU OF PUBLIC ROADS, September 7, 1956. SEALED BIDS will be received at the office of the Bureau of Public Roads, 753 Morgan Building, Portland, Oregon, mail address P. O. Box 3900, Portland, Oregon, until 10:00 o'clock A. M. on September 21, 1956, for furnishing the material and performing the work for constructing one 170-ft. and one 85-ft. Concrete Girder Bridges, Washington Forest Highway Project 13-A1, B1, D2, Unit 1, Randle-Yakima Highway, Silver Creek and Davis Creek Bridges, Gifford Pinchot National Forest, Lewis County, Washington, involving 565 Cu. Yds. Structure Excavation; 783 Cu. Yds. Concrete; 154,500 Lbs. Reinforcing Steel; and 476 Lin. Ft. Metal Hand Rail. Plans, specifications and proposals may be obtained at the office of the Bureau of Public Roads, 753 Morgan Building, Portland, Oregon. F. E. ANDREWS, Division Engineer. 5612—9-7, 8, 11

STATE HIGHWAY PROJECTS

BIDS CLOSE 10 A. M., SEPTEMBER 25

Olympia, Washington

NOTICE TO CONTRACTORS

Sealed bids will be received by the Washington State Highway Commission at Olympia, Washington, on Tuesday, September 25, 1956, until 10:00 A. M., for the construction of the following improvements and will then and there be opened and publicly read:

Bids for the following projects will be opened in the Conference room on the first floor of the General Administration Building located at Eleventh and Columbia Streets on the North edge of the capitol group, instead of in the board room of the Public Service Commission where bid openings are usually held.

1. Clearing, Draining, Grading and Constructing Two Reinforced Concrete Bridges on 0.857 mile of Primary State Highway No. 1 in Thurston County, CAPITOL LAKE BRIDGE TO BOUNDARY STREET, FAP No. I-001-2(36), involving about 45 acres of Clearing, 650,500 cubic yards of Common Excavation, 75,380 units of Overhaul, 96,170 cubic yards of Excavation of Unsuitable Foundation Material, 2,846 linear feet of Concrete Pipe, 4,327 linear feet of Corrugated Metal Pipe, 2,218 cubic yards of Concrete, 392,400 pounds of Steel Reinforcing Bars, 18,200 linear feet of Treated Timber Piling and other items. Minimum Wage Rates for this project have been predetermined as required by law and are set forth in the bid proposal.
2. Draining, Grading, Surfacing with Light Bituminous Surface Treatment and Constructing a Reinforced Concrete Slab Bridge on 6.028 miles of Primary State Highway No. 10 in Okanogan County, JANIS TO TONASKET, FAP No. F-029-2 (12) involving about 296,640 cubic yards of Common Excavation, 2,810 cubic yards of Solid Rock Excavation, 12,530 units of Overhaul, 57,750 tons of Selected Roadway Borrow, 37,960 tons of Crushed Stone Surfacing, Crushed Cover Stone and Crushed Screenings, 320 tons of Asphalt Cement, 878 linear feet of Precast Traffic Curb, 388 cubic yards of Concrete, 56,280 pounds of Steel Reinforcing Bars, 3,063 linear feet of Concrete Pipe, 259 linear feet of Corrugated Metal Pipe, 877 linear feet of Welded Steel Pipe, 1,346 linear feet of Beam Guard Rail, 77 Guide Posts, 1,900 cubic yards of Loose Riprap, a lump sum bid for Illuminated Terminal Nosing Assemblies and other items.
3. Draining, Grading and Surfacing with Light Bituminous Surface Treatment on 1.831 miles of Primary State Highway No. 10 in Okanogan County, RIVERSIDE VICINITY, FAP No. F-029-2(7), involving about 113,450 cubic yards of Common Excavation, 2,660 units of Overhaul, 20,115 tons of Crushed Stone Surfacing, Ballast and Crushed Cover Stone, 89 tons of Asphalt Cement, 1,470 linear feet of Concrete Pipe, 397 linear feet of Corrugated Metal Pipe and Pipe-Arch, 400 linear feet of Beam Guard Rail and other items.
4. Constructing Two Reinforced Concrete Box Girder Bridges on 0.071 mile of Primary State Highway No. 9 in Thurston County, N. P. RY. AND PERCIVAL CREEK OVERCROSSING, FAP No. F-FG-007-5(4), involving about 1,815 cubic yards of Structure Excavatiin, 2,277 cubic yards of Concrete, 1,498 linear feet of Reinforced Concrete Bridge Railing, 640,-000 pounds of Steel Reinforcing Bars, 36,000 pounds of Strurtural Steel and other items.
5. Constructing a Plate Girder Railway Bridge and Shoofly on Primary State Highway No. 1 in Thurston County, WEYERHAEUSER RAILWAY UNDERCROSSING, FAP No. IG-001-2(37), involving about 4 acres of Clearing, 16,430 cubic yards of Common Excavation, 500 cubic yards of Selected Roadway Borrow, a lump sum bid for Shoofly Trestle, 1,350 cubic yards of Structure Excavation, 610 cubic yards of Concrete, a lump sum bid for Structural Steel, 28,000 pounds of Steel Reinforcing Bars, 10.5 MBM of Treated Timber and Lumber and other items. Minimum Wage Rates for this project have been predetermined as required by law and are set forth in the bid proposal.
6. Constructing a Reinforced Concrete Box Girder and Slab Bridge on 0.125 mile on Primary State Highway No. 10 in Okanogan County, OKANOGAN RIVER BRIDGE, FAP No. F-FG-029-2(10), involving about 2,000 cubic yards of Structure Excavation, 2,300 cubic yards of Concrete, 505,000 pounds of Steel Reinforcing Bars, 6,400 pounds of Structural Steel, 6,600 linear feet of Timber Piling, 560 linear feet of Concrete Piling and other items.
7. Draining, Grading, Sprfacing with Light Bituminous Surface Treatment and Paving with Type I-1 Asphaltic Concrete on 1.483 miles of Primary State Highway No. 7 in Grant County, CITIES OF EPHRATA AND SOAP LAKE, FAP No. F-031-1(5), involving about 15,535 cubic yards of Common Excavation, 2,370 tons of Sand Filler, 26,490 tons of Crushed Stone Surfacing, Ballast, Crushed Cover Stone and Mineral Aggregate, 121 tons of Asphalt Cement, 7,845 tons of Asphaltic Concrete, 3,441 linear feet of Concrete Pipe, 88 linear feet of Corrugated Metal Pipe, 8,825 linear feet of Cement Concrete Curb, 6,417 linear feet of Precast Traffic Curb and other items.
8. Draining, Grading, Surfacing with Crushed Stone and Constructing a Reinforced Concrete Girder Bridge on 0.189 mile of Kittitas County Road, TANEUM CREEK BRIDGE, FAS No. S-0563(1), involving about 4,300 cubic yards of Unclassified Excavation, 750 cubic yards Crushed Stone Surfacing, 200 cubic yards of Loose Riprap, 153 cubic yards of Concrete, 42,000 pounds of Steel Reinforcing Bars and other items.
9. Removing an obstruction from the Columbia River ship channel on Primary State Highway No. 12 in Wahkiakum County, NASSA POINT VICINITY, a State Project, involving about 20,000 tons of Dredge Excavation.
10. Removing existing Duwamish River Bridge No. 1-K/3 on Secondary State Highway No. 1-K in King County, FIRST AVENUE SOUTH BRIDGE REMOVAL, a State Project, involving a lump sum bid for Removing Existing Steel Movable Span Bridge and Timber Approaches.
11. Jacking and Leveling Existing Slab Bridge Deck on Primary State Highway No. 1 in Cowlitz County, OWL CREEK BRIDGE No. 1/712, a State Project, involving a lump sum bid for Leveling Existing Bridge, 30 cubic yards of Crushed Stone Surfacing, 150 tons of Type I-1 Asphaltic Concrete and other items.
12. Constructing a Reinforced Concrete Slab Half Bridge on 0.014 mile of Primary State Highway No. 9 in Jefferson County EAGLEMOUNT HALF BRIDGE, a State Project, involving about 100 cubic yards of Structure Excavation, 57 cubic yards of Concrete, 73 linear feet of Beam Guard Rail, 13,750 pounds of Steel Reinforcing Bars, a lump sum bid for Loading and Hauling Steel Piling and other items.

Federal funds have been allocated for items Nos. 1 to 8 inclusive.

All bid proposals shall be accompanied by a bid proposal deposit in cash, certified check, cashier's check or surety bond in an amount equal to five per cent (5%) of the amount of such bid proposal. Should the successful bidder fail to enter into such contract and furnish satisfactory performance bond within the time stated in the specifications, the bid proposal deposit shall be forfeited to the State of Washington.

Prequalificaion of bidders is required. Maps, plans and specifications may be obtained from this office upon writtten request therefor and payment to the Director of Highways by cash, certified check, cashier's check or money order in the sum of two dollars ($2.00) for each copy of such maps, plans and specifications as a rental for the use of them. Plans will be forwarded by First Class Mail.

Informationl copies of maps, plans and specifications are on file in the office of the County Engineer of the County in which the work is situated, the Chapter offices of the Associated General Contractors of America in Seattle, Spokane, Tacoma and Portland and the offices of the District Engineers of the Department of Highways where they may be inspected.

E. C. HUNTLEY, Chairman
W. A. BUGGE, Director of Highways
5611—9-8, 15

TURBINE, GOVERNOR, INLET PIPE

BIDS CLOSE OCTOBER 25

Denver, Colorado

NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Invitation No. DS-4760) will be received at Denver, Colorado, until October 25, 1956, for furnishing one 23,500-horsepower, 600-rpm, vertical-shaft, multiple-jet, single-runner, impulse-type hydraulic turbine; one turbine governor; and one guard valve and inlet pipe for Green Springs Power Plant, Talent Division, Rogue River Basin Project, Oregon. Delivery is desired within 450 days. For particulars, address Bureau of Reclamation, Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner. 5606—9-15

PREFLIGHT FACILITIES MODERNIZATION

BIDS CLOSE 2 P. M., SEPTEMBER 27

Renton, Washington

NOTICE TO CONTRACTORS

Bids are hereby invited for installation and construction work for Phase II Preflight Modernization at Renton Field, Renton, Washington.

The work consists principally of mechanical and electrical utilities, including water, aircraft fuel, sewer, drainage, and electrical utilities, as well as earthwork, concrete and asphaltic paving, building and pavement demolition and new building construction work.

Bid, performance and payment bonds will be required. Further, unless the bidder has performed work for Boeing within the past two years, a duly certified current, (or latest available), financial statement will also be required. If the bidder has done no work for Boeing within the past four years a statement of experience will also be required in addition to the other documents specified above.

Bid documents are available for inspection at the Associated General Contractors of America, 215 West Harrison, Seattle, and 452 St. Helens Street, Tacoma; as well as at the Plan Bureau, 2413 Western Avenue, Seattle; and also at the issuing office listed below.

Request for copies of bid documents, by firms proposing to enter a prime bid or a major subcontract bid, should be directed to the office of Bouillon and Griffith, Professional Engineers, 1411 Fourth Avenue Building, Seattle, Washington. A $75 deposit will be required for each set of bid documents.

Bids will be received by Mr. C. L. Bisbee, Transport Division, Box 707, Renton, Washington, until 2:00 P. M., September 27, 1956. For site inspection, contact the Construction Engineer, Boeing Airplane Co., telephone Olive 3414, Extension 1807.

Bids will be opened privately. Each bid shall be deemed a firm offer for 30 days

after the date bids are opened and thereafter until withdrawn by a written notice received by Boeing. Boeing reserves the right to ward the contract to whomever it chooses, and may elect to reject any and all bids.

BOEING AIRPLANE COMPANY.
5609—9-6, 7, 8

STEAM HEATING PLANT ALTERATIONS
BIDS CLOSE 3 P.M., P.S.T., SEPTEMBER 18
Olympia, Washington
NOTICE TO CONTRACTORS

Sealed proposals will be received by the Director, Department of General Administration, General Administration Building, Room 218, Olympia, Washington, until 3:00 P.M., P.S.T., Tuesday, September 18, 1956, for Additions and Alterations to the Steam Heating Plants at Eastern State Hospital and at Lakeland Village, Medical Lake, Washington.

Drawings and specifications may be obtained from the office of H. Jack Reeves, Professional Engineer, Symons Building, Spokane, Washington.

The drawings, specifications and forms of contract documents, may be examined at the office of the Director, Department of General Administration, General Administration Building, Olympia, Washington, and at the office of H. Jack Reeves, Professional Engineer, Symons Building, Spokane, Washington.

A deposit of Twenty-Five Dollars ($25.00) per set for plans and specifications will be required from each bidder. This deposit will be returned to him upon the return of the drawings and specifications, in good condition, to the Engineer's office. The deposit check should be made payable to H. Jack Reeves.

The Director, Department of General Administration, reserves the right to reject any and all proposals and to waive informalities.

H. D. VAN EATON, Director
Department of General Administration
Olympia, Washington
5599—8-22, 29

BRIDGES, PAVING, ILLUMINATION SYSTEMS
BIDS CLOSE 10 A.M., OCTOBER 9
Olympia, Washington
NOTICE TO CONTRACTORS

Sealed bids will be received by the Washington State Highway Commission at Olympia, Washington, on Tuesday, October 9, 1956, until 10:00 A.M., for the construction of the following improvement and will then and there be opened and publicly read:

1. Clearing, Draining, Grading, Surfacing, Constructing a Cement Treated Base, Paving with Type I-1 Asphaltic Concrete, Relocating Government Installations, Installing Two Illumination Systems and Constructing Three Reinforced Concrete Rigid Frame Slab Bridges and a Steel Plate Girder Railway Bridge on 3.523 miles of Primary State Highway No. 1 in Pierce County, NISQUALLY TO NORTH FORT LEWIS, FAP No. IN-I-ING-001-3(14) Unit 2, involving about 86 acres of Clearing, 746,250 cubic yards of Common Excavation and Borrow, 43,650 cubic yards of Excavation of Unsuitable Material, 237,000 units of Overhaul, 52,500 tons of Gravel Surfacing, 24,850 tons of Ballast and Crushed Stone Surfacing, 404 tons of Asphalt Cement, 2,250 cubic yards of Crushed Cover Stone and Mineral Aggregate, 38,050 tons of Asphaltic Concrete, 7,170 barrels of Portland Cement, 46,100 tons of CTB Aggregate, 3,800 square yards of Cement Concrete Pavement, 9,547 linear feet of Asphaltic Shoulder Curb, 2,630 linear feet of Cement Concrete Gutter, 5,514 linear feet of Cement Concrete Curb and Gutter, 788 linear feet of Cement Concrete Curb, 6,209 linear feet of Concrete Pipe, 2,258 linear feet of Corrugated Metal Pipe, 3,979 linear feet of Sewer Pipe, 1,938 linear feet of Water Pipe, 2,578 linear feet of Beam Guard Rail, 154 Guide Posts, 1,700 square yards of Cement Concrete Sidewalk, 205 square yards of Asphaltic Concrete Sidewalk, 726 rods of Barbed Wire Fence, 8,636 linear feet of Chain Link Fence, 2 lump sum bids for Installation of Illumination Systems, a lump sum bid for Removing and Relocating Government Buildings, 2,108 cubic yards of Concrete, 307,220 pounds of Steel Reinforcing Bars, 642 linear feet of Aluminum Bridge Railing, a lump sum bid for Structural Steel and other items. Minimum Wage Rates for this project have been predetermined as required by law and are set forth in the bid proposal.

Federal funds have been allocated for item No. 1.

All bid proposals shall be accompanied by a bid proposal deposit in cash, certified check, cashier's check or surety bond in an amount equal to five per cent (5%) of the amount of such bid proposal. Should the successful bidder fail to enter into such contract and furnish satisfactory performance bond within the time stated in the specifications, the bid proposal deposit shall be forfeited to the State of Washington.

Prequalifications of bidders is required. Maps, plans and specifications may be obtained from this office upon written request therefor and payment to the Director of Highways by cash, certified check, cashier's check or money order in the sum of two dollars ($2.00) for each copy of such maps, plans and specifications as a rental for the use of them. Plans will be forwarded by First Class Mail.

Informational copies of maps, plans and specifications are on file in the office of the County Engineer of the County in which the work is situated, the Chapter offices of the Associated General Contractors of America in Seattle, Spokane, Tacoma and Portland and the offices of the District Engineers of the Department of Highways where they may be inspected.

E. C. HUNTLEY, Chairman
W. A. BUGGE, Director of Highways
5619—9-15, 22, 29

GRADING, FLOOD REPAIR
BIDS CLOSE 10 A.M., SEPTEMBER 20
Portland, Oregon
NOTICE TO CONTRACTORS

DEPARTMENT OF COMMERCE, BUREAU OF PUBLIC ROADS, September 6, 1956. SEALED BIDS will be received at the office of the Bureau of Public Roads 753 Morgan Building, Portland, Oregon, mail address P.O. Box 3900, Portland, Oregon, until 10:00 o'clock A.M. on September 20, 1956, for furnishing the material and performing the work for constructing 7.887 Miles Grading and 9.756 Miles Flood Repair, Oregon Timber Access Road Project BLM 83-A1,B, Galice Creek Road, Bureau of Land Management-Medford District, Josephine County, Oregon, involving 78 Acres Clearing; 53 Acres Grubbing; 519,250 Cu. Yds. Unclassified Excavation; 348,000 Sta. Yds. Overhaul; 4,610 Lin. Ft. Culvert Pipe, and other small items of work. Plans, specifications and proposals may be obtained at the office of the Bureau of Public Roads, 753 Morgan Building, Portland, Oregon. F. E. ANDREWS, Division Engineer.
5608—9-8

EARTHWORK, STRUCTURES
BIDS CLOSE OCTOBER 9
Ephrata, Washington
NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-4758) will be received at Ephrata, Washington, until October 9, 1956, for furnishing labor and materials for Earthwork and Structures for Block 79 Laterals and Wasteways, West Canal Laterals, Columbia Basin Project, Washington. Location near Quincy, Washington. Principal items are 325,000 cu. yds. excavation; 550 cu. yds. concrete in structures; 15,900 lin. ft. concrete pipe, 15- to 54-inch; 155 metal slide gates; and other work. To be completed by March 1, 1958. For particulars, address Bureau of Reclamation, P.O. Box 368, Ephrata, Washington; or Building 53, Denver Federal Center Denver 2, Colorado. W. A. Dexheimer, Commissioner.
5607—9-8

STEEL PIPE
BIDS CLOSE OCTOBER 9
Denver, Colorado
NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Invitation No. DS-4753) will be received at Denver, Colorado, until October 9, 1956, for furnishing one 51-inch steel outlet pipe; one 48-inch steel intake pipe; and other steel pipe, sizes 3-inch to 14-inch inclusive, for Casitas Dam, Ventura River Project, California. Delivery is desired within 360 days. For particulars, address Bureau of Reclamation, Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.
5602—9-8

CENTRIFUGAL PUMP
BIDS CLOSE OCTOBER 2
Denver, Colorado
NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Invitation No. DS-4755) will be received at Denver, Colorado, until October 2, 1956, for furnishing one vertical-shaft, double volute, centrifugal pump with regulating valve and connection piece, having an initial capacity of 75 cfs under 92 foot head, at a speed of 400 rpm, suitable for ultimate capacity of 100 cfs by replacing the impeller, for "C" Line Canal Pumping Plant Extension, Boise Project, Idaho. Delivery is desired within 200 days. For particulars, address Bureau of Reclamation, Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.
5603—9-8

BRIDGE SUPERSTRUCTURE, ROAD RELOCATION
BIDS CLOSE OCTOBER 2
Weaverville, California
NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-4751) will be received at Weaverville, California, until October 2 ,1956, for furnishing labor and materials for Trinity River Bridge Superstructure and County Road Relocation, Station 5#55 to Station 8#50 for Trinity Dam, Central Valley Project, California. Location near Lewiston, California, in Trinity County. Principal items are 235,000 lbs. furnishing and erecting structural steel; 290 cu. yds. concrete in bridge slab; and other work. Completion time 330 days. For particulars, address Bureau of Reclamation, Weaverville, California; or Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.
5593—8-25

DRAIN EXTENSIONS
BIDS CLOSE 10 A.M., P.S.T., SEPT. 18
Ephrata, Washington
NOTICE TO CONTRACTORS

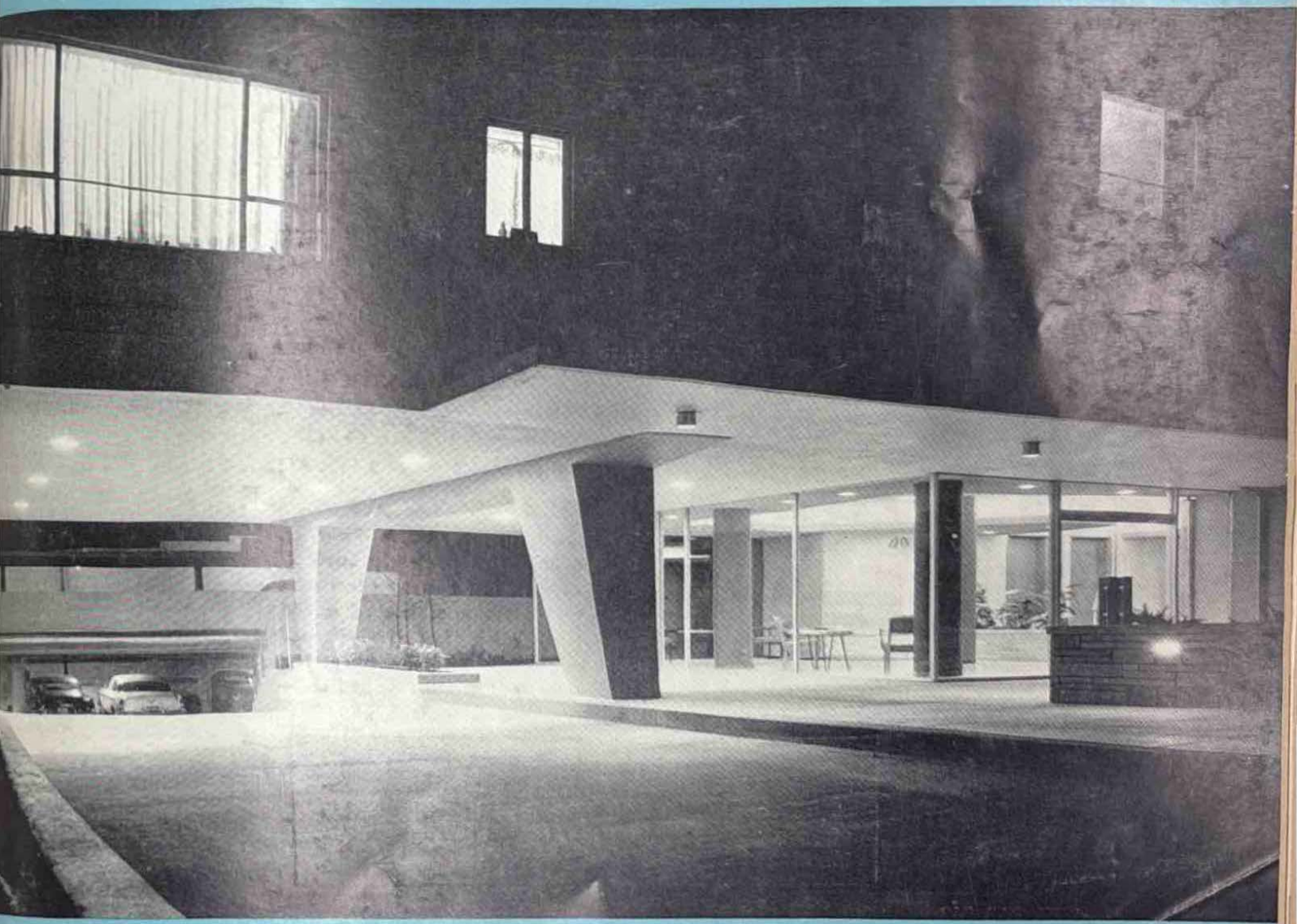
UNITED STATES DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids, in single (Specifications No. 117C-389) will be received at the office of the Project Manager, Bureau of Reclamation, Project Office Building, Division and "C" Streets N.W., Ephrata, Washington, until 10:00 a.m., Pacific Standard Time, September 18, 1956, and then publicly opened for furnishing labor and materials and performing all work for construction of Deep Drain Extension Block 49. This work will include earthwork for approximately 2.6 miles of open drains and for approximately 0.6 mile of deepening existing wasteways; bottom width of sections vary from 2 to 4 feet; earthwork for and construction of structures along wasteways and drains, including road crossings and control drop; earthwork for and modification of an existing concrete drop structure; riprap and gravel bedding for cascade drop and gravel protection at the inlet and outlet ends of structures. Time allowed for completion will be 150 calendar days. For particulars address the Bureau of Reclamation, P. R. Nalder, Project Manager, Box 368, Ephrata, Washington.
5588—8-18

Pacific Architect and Builder

NOVEMBER BPA 1956

50¢

WITH CONSTRUCTION NEWS BULLETIN



In this issue

Two award-winning apartment buildings
Country's first underground CD control center
Report on the California architects' Yosemite sessions

WERE THE STRUCTURAL DESIGNERS AND CONTRACTORS SEEKING A BETTER, MORE ECONOMICAL FRAMING UNIT?

THEY ALWAYS ARE

and the MACOMBER V-BEAM

PATENTED



AMERICAN INSTITUTE OF STEEL CONSTRUCTION INC. AISC FOUNDED 1921

SEND FOR YOUR V-BEAM CATALOG

— PROVED TO BE THE PERFECT ANSWER

When a framing member is lighter and stronger and costs less than other steel framing members for floors and roofs, it DOES get the immediate acceptance—NATION-WIDE—heaped upon the V-BEAM.

One trial is so convincing to architects, so successful for the General Contractor—repeat orders follow.

Send for the V-BEAM Catalog. Consult the Loading Table. Then contact your Macomber Representative and you will be convinced—as others have—that V-BEAMS have no equal as steel framing members.

STANDARDIZED STEEL BUILDING PRODUCTS

MACOMBER INCORPORATED

CANTON 1, OHIO

• ENGINEERING • FABRICATING AND ERECTING •

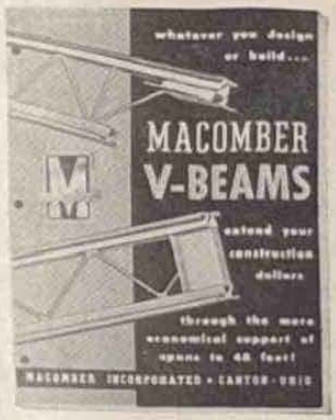
NAILABLE STEEL JOISTS • LONGSPANS • BOWSTRING ROOF TRUSSES • METAL DECK • V-LOK STEEL FRAMING • STRUCTURALS

WERE THE STRUCTURAL DESIGNERS AND CONTRACTORS SEEKING A BETTER, MORE ECONOMICAL FRAMING UNIT?

THEY ALWAYS ARE

and the MACOMBER V-BEAM

PATENTED



SEND FOR YOUR V-BEAM CATALOG

— PROVED TO BE THE PERFECT ANSWER

When a framing member is lighter and stronger and costs less than other steel framing members for floors and roofs, it DOES get the immediate acceptance—NATION-WIDE—heaped upon the V-BEAM.

One trial is so convincing to architects, so successful for the General Contractor—repeat orders follow.

Send for the V-BEAM Catalog. Consult the Loading Table. Then contact your Macomber Representative and you will be convinced—as others have—that V-BEAMS have no equal as steel framing members.

STANDARDIZED STEEL BUILDING PRODUCTS

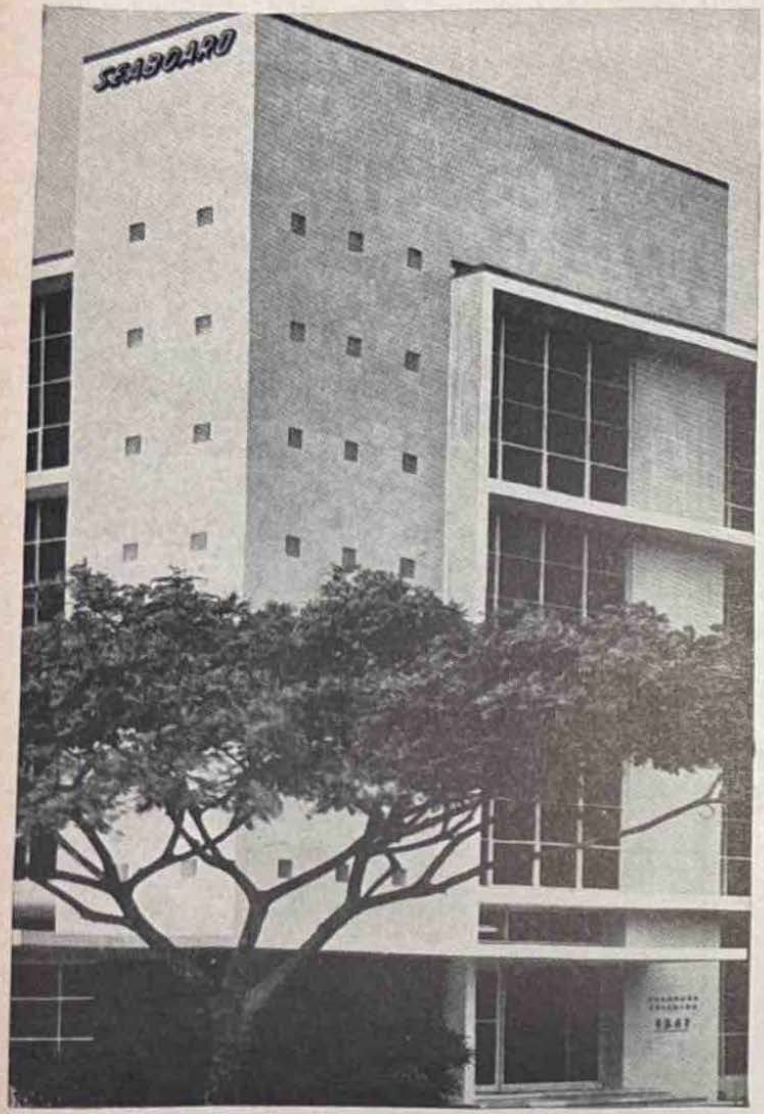
MACOMBER INCORPORATED

CANTON 1, OHIO

• ENGINEERING • FABRICATING AND ERECTING •

NAILABLE STEEL JOISTS
•
LONGSPANS
•
BOWSTRING ROOF TRUSSES
•
METAL DECK
•
V-LOK STEEL FRAMING
•
STRUCTURALS

Seaboard Finance Co., Honolulu, T.H. Merrill, Simms & Roehrig, Architects



Commanding Architectural Expression executed in

KRAFTILE VENEER

with 60% Savings in Space and Weight

Glazed ceramic veneer panels of 3/8" thickness, weighing only 4 lbs. per sq. ft. offer construction economies, permanent beauty and ease of maintenance. For modernization or new construction, Kraftile Veneer permits much faster handling, on-the-job cutting, and reduced structural support. Install over wood, steel or concrete by common adhesion method. Select color range. Write for Fact File of shapes, specifications and installation examples.

KRAFTILE VENEER

Niles, California

About FLW and his 'awesome needle'

LAST MONTH we attended an exhibit of the work of Frank Lloyd Wright in the famous Bal Tabarin in Chicago's Sherman Hotel. We attended not so much to see the exhibit—which we have seen before—as to study the people who were so patently interested in architecture as to pay a fee and ascend to the sixth floor of the hotel in the heart of a busy city.

There were the usual students and artists and architects, of course, but also a strong segment of the curious laymen, displaying what seemed to us a resurgent interest in architecture. Not all understood what they saw but they did seem to appreciate that here was displayed a profound greatness that needed understanding.

The major attraction, naturally, was a display promoting the Illinois Building, Wright's proposed mile-high structure to be built on the shores of Lake Michigan.

Undoubtedly that attracted the crowds but they stayed to spend much time studying the remarkable diversity of architecture which spanned half a century. They studied the 1940 Martin Pence House built in Hilo, Hawaii, the first house having no interior corridors; they studied murals of the famous Imperial Hotel in Tokyo and models of the Monona Terrace Civic Center now being built in Madison, Wisconsin's capital city not far from Taliesin.

They saw graphically the benefits of architectural design when they viewed photographs of the Frederick Robie House built in Chicago in 1909—almost as modern as today—exhibiting the first use of space with the exterior as a natural result.

And from homes they turned to a model that will be built next year on Fifth Avenue in New York, of the Solomon R. Guggenheim Museum which solves for the first time the problem of circulation by taking people to the roof in elevators and allowing them to descend spiral ramps which pass all exhibits.

If this signifies an intensification of interest in architecture on the part of the average man, it is an item worth the interest of every architect.

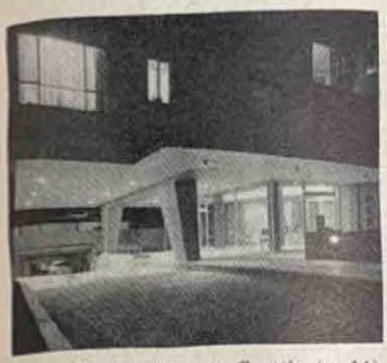
The people came to see the design of the Illinois Building but they stayed to study structures of more commonplace importance to them. The impact of the Illinois Building was almost too much to absorb. The perspective hanging on the wall of the Bal Tabarin was itself some 30 ft. high and yet the building, stretching for that height, was no more than 18 in. at its widest in the drawing. The Illinois Building will be a 58-story cantilevered structure, 5,280 ft. high with an additional 480 ft. of aerial at its top. It is a central pylon with a taproot foundation, carrying cantilevered floor slabs with screen walls of glass and metal—an awesome needle into the sky.

Pacific Architect and Builder

NOVEMBER EPA 1956

WITH CONSTRUCTION NEWS BULLETIN

VOLUME 62 NUMBER 11



Cover: Skyline House, Seattle (p. 14). Durham, Anderson & Freed, architects; Art Hupy photo.

Perspectives 6

Highlights–Trends–Views 7

Building Permit Tabulation 30

Materials, Products, Tools and Latest Literature 32

T-square Talk 34

Builders and Suppliers 35

Construction News 41

WHAT AMERICAN WOMEN WANT IN HOUSING–Highlights of the 82-page final report of the Housing and Home Finance Agency covering it's Women's Congress on Housing 8

CCA CONVENTION DRAWS 700 TO YOSEMITE–A philosopher's appraisal of architects keynotes sessions at 11th annual meeting–by KENNETH R. MacDONALD 10

TWO AWARD-WINNING APARTMENT BUILDINGS

An 85-unit luxury project in Seattle 14

A five-unit economy project in Los Angeles 16

ARCHITECTURE UNLIMITED–An engineer's provocative statement about the design profession that is must reading for every architect–by EDGARDO CONTINI 18

UNDERGROUND CIVILIAN CONTROL CENTER–A methods report by the designing engineer of Portland's civil defense communications hub, the first such project in the country–by R. EVAN KENNEDY 24

CERAMIC MOSAICS PUT ON A GOOD FRONT–California gets original impetus but the trend gains momentum in the East 28

Covering California, Oregon, Washington, Idaho, Montana, Alaska and Hawaii–a $4 billion building market

SUBSCRIPTION RATES: Payable in advance. In U. S. and possessions, $4 for one year; Canadian, $5 for one year; Foreign, $6 for one year. Single copies, 50¢. Business news services also available are Pacific Construction Daily, Construction News Bulletin and Pacific Builder and Engineer.

PACIFIC ARCHITECT AND BUILDER is published monthly by Pacific Builder and Engineer, Inc., 2418 Third Ave., Seattle 1, Wash., and is mailed on the third Saturday of each month. Price: $4 per year. Acceptance under P.L.&R. 34.64 authorized.

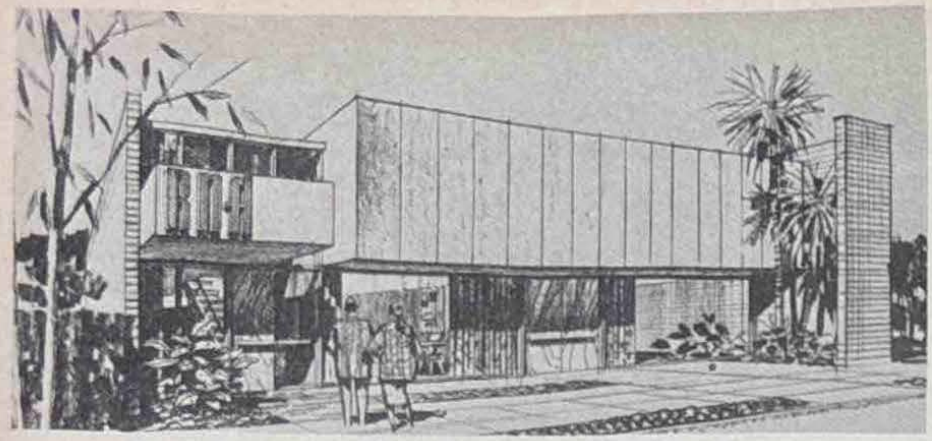
Published by

Pacific Builder and Engineer, Inc. 2418 Third Ave., Seattle 1, Wash. Phone: MAin 0285

N. B. CHAPIN, President ROSCOE E. LAING, Manager

EDITORIAL STAFF: **Robert E. Koehler**, editor; **D. F. McCormick**, construction news editor; **Anne Hecker**, editorial assistant; **Joan Storey**, research assistant; **Win Romtvedt** (503 McKay Building, Portland 4, Ore., CApitol 3-1229), **Kenneth R. MacDonald** (24 White St., San Francisco 9, Calif., GRaystone 4-8532), contributing editors.

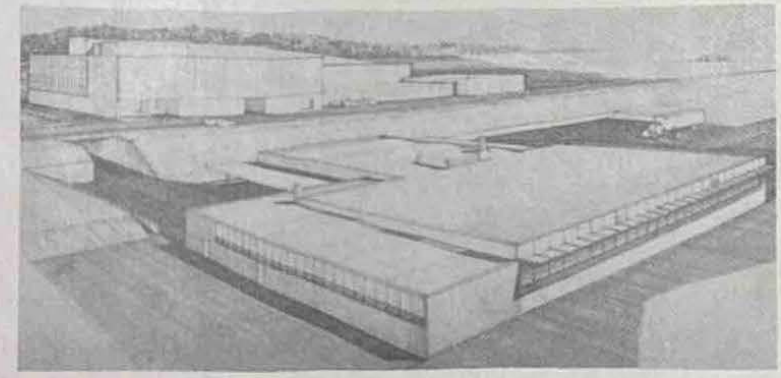
BUSINESS STAFF: **L. C. McDowell, Paul N. Swanson**, advertising; **Phyllis Forth**, production supervisor; **Robert G. Hitchens**, director of business services and circulation; **F. S. Eggan**, circulation manager; **Alice Malloy**, assistant circulation manager.



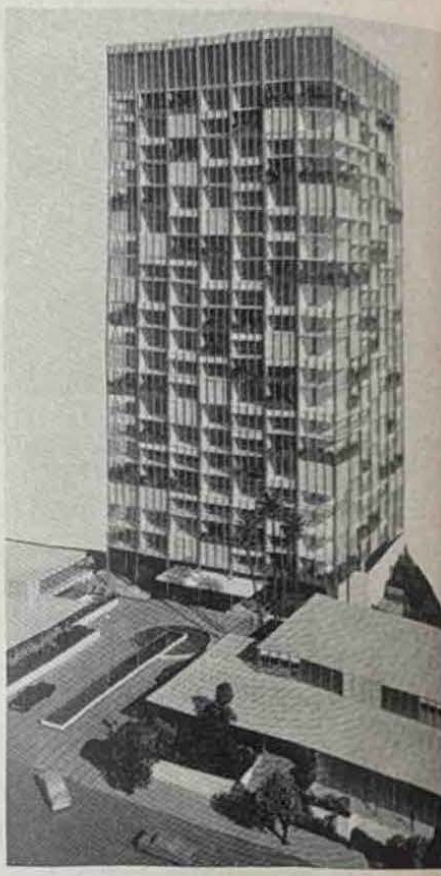
ONE OF THE FIRST BUILDINGS to be constructed by Royal Neighbors of America, Inc., will be concrete block, frame and plaster structure in San Diego. For additional revenue two smaller offices on street level are incorporated in design, in addition to two meeting halls which will be available to public. Architect: Henry H. Hester, AIA.

PERSPECTIVES

by Pacific architects



OVERSEAS-AIRMAIL POST OFFICE, shown in foreground, will be built at Seattle-Tacoma International Airport by Port of Seattle. To cost about $400,000, one-story steel frame building will have brick curtain wall. Conveyor tunnel will provide direct access from post office to airplane loading apron. Architects-engineers: Young, Richardson, Carleton & Detlie.



MODEL OF BEVERLY TOWER, 22-story, $10 million cooperative apartment building which will soon be under construction at edge of Beverly Hills. Unique terrace design will permit housing of 102 units, varying in size and price. Among luxury features will be swimming pool, cabanas, private gardens and health club. Owner-tenants also will be entitled to membership in Sky Club, to be housed on roof, with such facilities as men's grill, dining room, lounge and private party-dancing room. Slope of side street will allow three-level garage under tower, each with separate entrance direct from street. Architects-engineers: Pereira & Luckman.



WALDO JUNIOR HIGH SCHOOL, with 100,000 sq. ft. will be constructed in Salem, Ore., for an estimated $1,200,000. It will have brick and concrete exterior walls, aluminum windows and roofing, brick structural facing tile interior walls and plastic skylights full length of classrooms. Architect: William I. Williams, AIA.

Building News - Trends - Views

SOLAR BATTERIES INSTALLED ON ROOFTOPS may heat, cool and light houses of the future. Norman F. Barnes, General Electric engineering expert, points out that fossil fuels and even uranium fuels will eventually be exhausted and man will have to turn to the sun as his chief source of energy. A solar reflector 33 ft. in diameter, he explains, could be used as a steam generator to produce as much as 100 lb. of steam an hour at 100 lb. per square inch pressure.

Meanwhile, Eugene C. Starr, chief engineer of the Bonneville Power Administration, told members of the BPA advisory board that atomic power won't be a factor in the Pacific Northwest before the 1970-75 period. He said that future energy needs of this region would be met first by new hydroelectric plants and by blended steam and hydro power before nuclear plants are feasible.

HAWAII'S BUILDING INDUSTRY, spurred on by shorter travel time which will soon be cut in half by jet-plane transportation from the mainland, is reported to be virtually the second largest on the islands today. While Honolulu is planning toward convention hotels, the outer islands also are preparing accommodations for tourists who want to visit each separate island.

THE SOUTHERN PACIFIC RAILROAD plans to build a multimillion dollar addition to its San Francisco headquarters building near the foot of Market Street. Plans call for an annex two-thirds the size of the present structure which occupies the entire front of the block. The addition will be sited on part of a present parking lot to the rear of the main building.

THE BEAUX-ARTS INSTITUTE OF DESIGN has changed the name of its corporate title to the National Institute for Architectural Education. The new name of the New York institute says Alonzo W. Clark, 3rd, board chairman, "reflects more correctly than the old one the current and contemplated functions and activities of the organization" which for decades has provided a strong link between faculty and students of architecture and the practicing profession.

NATIONAL HOUSING CENTER in Washington, D.C., has named Bernard E. Loshbough, deputy representative for India for the Ford Foundation, as general manager. Sydney H. Kasper, former director of publications for the Housing and Home Finance Agency, is public relations director.

REYNOLDS METALS CO. STEALS BUILDING INDUSTRY SPOTLIGHT

Three West Coast cities were the scenes of gayla gatherings November 12 as Reynolds Metals Co. nationally marked the publication of a two-volume work "Aluminum in Modern Architecture" and announced an annual $25,000 architectural award.

While a formal crowd of architects, engineers and businessmen dined in the Grand Ballroom of the Waldorf-Astoria Hotel, where an hour-long closed circuit television broadcast emanated, more informal get-togethers were held in Portland, San Francisco and Los Angeles, plus 12 other cities across the country. The Portland affair was actually a three-city celebration, for Operation Airlift brought 135 visitors from Seattle and Tacoma, including the mayors of both cities and chamber of commerce officials.

In New York City, Richard S. Reynolds Jr., president of the sponsoring aluminum firm, revealed the $25,000 award, in honor of his late father, founder of Reynolds Metals. The award will be given each year to an architect who, in the judgment of a committee representing the profession, has made a most significent contribution to the use of aluminum, aesthetically or structurally, in the building field.

The R. S. Reynolds Memorial Award will be international in scope. It may be conferred upon an architect of any nationality for work done in any country. "Prime consideration," the announcement said, "will be given to the creative value of the contribution and its potential influence on the architecture of our times rather than to the size or type of structure. Preference will be given to work completed during the 12 months preceding the award but the judges, if they wish to do so, may acknowledge earlier work in selecting award recipients."

The telecast included a 13-minute preview of a new public service motion picture on modern architecture, which surveys new developments in the field both in the United States and abroad. It will be available for public showing.

Principal speaker was Dr. Gaylord P. Harnwell, president of the University of Pennsylvania, who called establishment of the award "a torch which is handed by industry to genius. The award indirectly benefits us all," he said, "for architecture has always been a social art."

Douglas Haskell, editor of Architectural Forum, hailed the appearance in architecture of "a light metal which, naked, could stand up 'for keeps'" and which "opened flood gates of imagination."

Authors of "Aluminum In Modern Architecture" are John Peter, a consulting editor of Look and a former editor of Life magazine, and Paul Weidlinger, well known in this country, Europe and South America as a building engineer.

Volume I pictures aluminum in 101 important buildings throughout the world. Designed for the architect, the engineer, the builder and the client, it shows how aluminum looks in its many uses and tells exactly where and why aluminum was selected in each building. Tape-recorded conversations of 26 leading architects like Mies van der Rohe, Walter Gropius, Richard Neutra and Eero Saarinen offer thoughts about the future of aluminum in modern architecture.

Volume II is a technical handbook of aluminum engineering, design and detail. It represents the organization and editing of architectural aluminum data from all the important aluminum producers and fabricators in this country and abroad, including the standards adopted by the industry associations. It also translates the advanced aluminum construction developments in the aeronautical engineering field into architectural engineering terms.

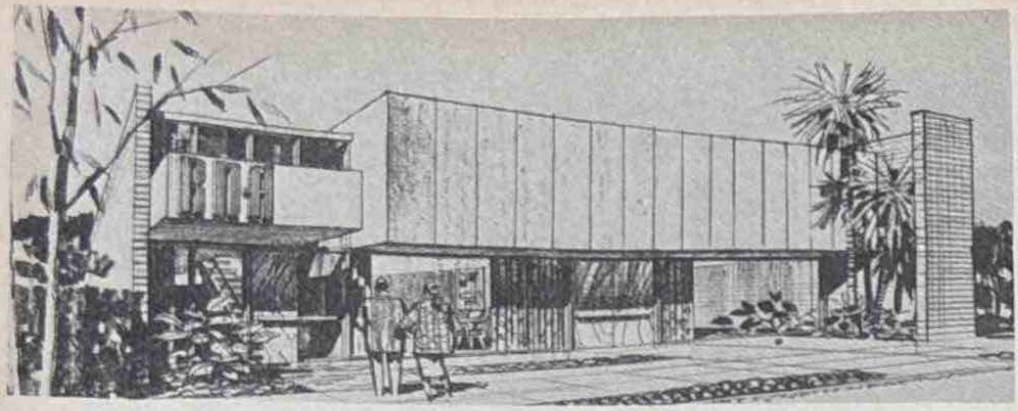
Describing the need for such volumes on architectural applications of aluminum, Peter said:

"Lack of organized information was seriously hampering use of the material. Reynolds Metals Co. saw the need and, let's be frank about it, the opportunity. They did the job in a characteristically all-out way.

"We were given a completely free editorial assignment.

"They (architects) gave us a view of aluminum and a glimpse of the future that should make really significant and inspiring reading."

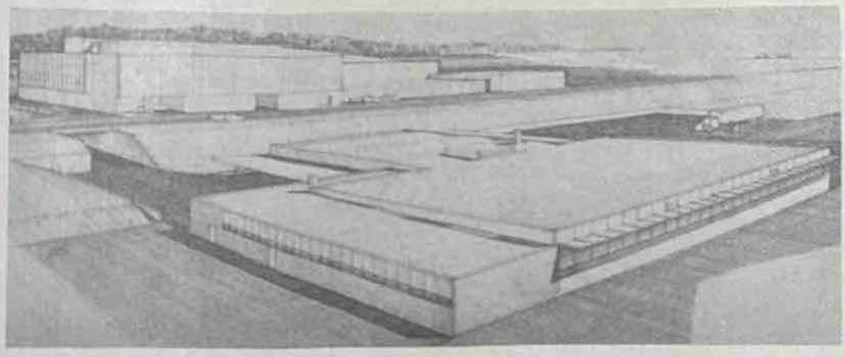
These views were echoed by Weidlinger, author of Volume II.



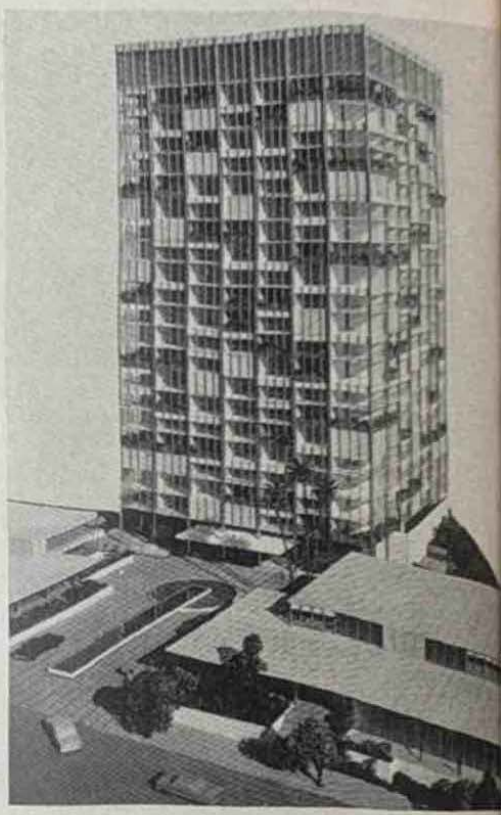
ONE OF THE FIRST BUILDINGS to be constructed by Royal Neighbors of America, Inc., will be concrete block, frame and plaster structure in San Diego. For additional revenue two smaller offices on street level are incorporated in design, in addition to two meeting halls which will be available to public. Architect: Henry H. Hester, AIA.

PERSPECTIVES

by Pacific architects



OVERSEAS-AIRMAIL POST OFFICE, shown in foreground, will be built at Seattle-Tacoma International Airport by Port of Seattle. To cost about $400,000, one-story steel frame building will have brick curtain wall. Conveyor tunnel will provide direct access from post office to airplane loading apron. Architects-engineers: Young, Richardson, Carleton & Detlie.



MODEL OF BEVERLY TOWER, 22-story, $10 million cooperative apartment building which will soon be under construction at edge of Beverly Hills. Unique terrace design will permit housing of 102 units, varying in size and price. Among luxury features will be swimming pool, cabanas, private gardens and health club. Owner-tenants also will be entitled to membership in Sky Club, to be housed on roof, with such facilities as men's grill, dining room, lounge and private party-dancing room. Slope of side street will allow three-level garage under tower, each with separate entrance direct from street. Architects-engineers: Pereira & Luckman.



WALDO JUNIOR HIGH SCHOOL, with 100,000 sq. ft. will be constructed in Salem, Ore., for an estimated $1,200,000. It will have brick and concrete exterior walls, aluminum windows and roofing, brick structural facing tile interior walls and plastic skylights full length of classrooms. Architect: William I. Williams, AIA.

Building News - Trends - Views

SOLAR BATTERIES INSTALLED ON ROOFTOPS may heat, cool and light houses of the future. Norman F. Barnes, General Electric engineering expert, points out that fossil fuels and even uranium fuels will eventually be exhausted and man will have to turn to the sun as his chief source of energy. A solar reflector 33 ft. in diameter, he explains, could be used as a steam generator to produce as much as 100 lb. of steam an hour at 100 lb. per square inch pressure.

Meanwhile, Eugene C. Starr, chief engineer of the Bonneville Power Administration, told members of the BPA advisory board that atomic power won't be a factor in the Pacific Northwest before the 1970-75 period. He said that future energy needs of this region would be met first by new hydroelectric plants and by blended steam and hydro power before nuclear plants are feasible.

HAWAII'S BUILDING INDUSTRY, spurred on by shorter travel time which will soon be cut in half by jet-plane transportation from the mainland, is reported to be virtually the second largest on the islands today. While Honolulu is planning toward convention hotels, the outer islands also are preparing accommodations for tourists who want to visit each separate island.

THE SOUTHERN PACIFIC RAILROAD plans to build a multimillion dollar addition to its San Francisco headquarters building near the foot of Market Street. Plans call for an annex two-thirds the size of the present structure which occupies the entire front of the block. The addition will be sited on part of a present parking lot to the rear of the main building.

THE BEAUX-ARTS INSTITUTE OF DESIGN has changed the name of its corporate title to the National Institute for Architectural Education. The new name of the New York institute says Alonzo W. Clark, 3rd, board chairman, "reflects more correctly than the old one the current and contemplated functions and activities of the organization" which for decades has provided a strong link between faculty and students of architecture and the practicing profession.

NATIONAL HOUSING CENTER in Washington, D.C., has named Bernard E. Loshbough, deputy representative for India for the Ford Foundation, as general manager. Sydney H. Kasper, former director of publications for the Housing and Home Finance Agency, is public relations director.

REYNOLDS METALS CO. STEALS BUILDING INDUSTRY SPOTLIGHT

Three West Coast cities were the scenes of gayla gatherings November 12 as Reynolds Metals Co. nationally marked the publication of a two-volume work "Aluminum in Modern Architecture" and announced an annual $25,000 architectural award.

While a formal crowd of architects, engineers and businessmen dined in the Grand Ballroom of the Waldorf-Astoria Hotel, where an hour-long closed circuit television broadcast emanated, more informal get-togethers were held in Portland, San Francisco and Los Angeles, plus 12 other cities across the country. The Portland affair was actually a three-city celebration, for Operation Airlift brought 135 visitors from Seattle and Tacoma, including the mayors of both cities and chamber of commerce officials.

In New York City, Richard S. Reynolds Jr., president of the sponsoring aluminum firm, revealed the $25,000 award, in honor of his late father, founder of Reynolds Metals. The award will be given each year to an architect who, in the judgment of a committee representing the profession, has made a most significent contribution to the use of aluminum, aesthetically or structurally, in the building field.

The R. S. Reynolds Memorial Award will be international in scope. It may be conferred upon an architect of any nationality for work done in any country. "Prime consideration," the announcement said, "will be given to the creative value of the contribution and its potential influence on the architecture of our times rather than to the size or type of structure. Preference will be given to work completed during the 12 months preceding the award but the judges, if they wish to do so, may acknowledge earlier work in selecting award recipients."

The telecast included a 13-minute preview of a new public service motion picture on modern architecture, which surveys new developments in the field both in the United States and abroad. It will be available for public showing.

Principal speaker was Dr. Gaylord P. Harnwell, president of the University of Pennsylvania, who called establishment of the award "a torch which is handed by industry to genius. The award indirectly benefits us all," he said, "for architecture has always been a social art."

Douglas Haskell, editor of Architectural Forum, hailed the appearance in architecture of "a light metal which, naked, could stand up 'for keeps'" and which "opened flood gates of imagination."

Authors of "Aluminum In Modern Architecture" are John Peter, a consulting editor of Look and a former editor of Life magazine, and Paul Weidlinger, well known in this country, Europe and South America as a building engineer.

Volume I pictures aluminum in 101 important buildings throughout the world. Designed for the architect, the engineer, the builder and the client, it shows how aluminum looks in its many uses and tells exactly where and why aluminum was selected in each building. Tape-recorded conversations of 26 leading architects like Mies van der Rohe, Walter Gropius, Richard Neutra and Eero Saarinen offer thoughts about the future of aluminum in modern architecture.

Volume II is a technical handbook of aluminum engineering, design and detail. It represents the organization and editing of architectural aluminum data from all the important aluminum producers and fabricators in this country and abroad, including the standards adopted by the industry associations. It also translates the advanced aluminum construction developments in the aeronautical engineering field into architectural engineering terms.

Describing the need for such volumes on architectural applications of aluminum, Peter said:

"Lack of organized information was seriously hampering use of the material. Reynolds Metals Co. saw the need and, let's be frank about it, the opportunity. They did the job in a characteristically all-out way.

"We were given a completely free editorial assignment.

"They (architects) gave us a view of aluminum and a glimpse of the future that should make really significant and inspiring reading."

These views were echoed by Weidlinger, author of Volume II.

A report on what the nation's women want in housing

American women want individuality without uniformity in their houses, coupled with neighborhood compatibility and no extremes. Emphasis is on good design in terms of contemporary living and on appropriateness.

The "no extremes" is expressed in the absence of a clear-cut acceptance of traditional or contemporary. The request is for a blending of the two, retaining what is good in each. They do not like contemporary housing as such but would prefer some modification, leaning toward the traditional.

This is the consensus of the 103 delegates to the Women's Congress on Housing held last April, a complete report of which has just been released by the sponsor, the Housing and Home Finance Agency. (Copies of the 82-page report may be obtained at 60c per copy from the U.S. Government Printing Office, Washington, D.C.)

The delegates, the majority chosen on the basis of letters written to the HHFA expressing their views on the modern home, were arranged in groups representative of similar climatic and geographic areas, each with an architectural adviser. What they did was to discuss family needs for living and how those needs could be met. The report has assembled their thinking in three parts.

The first is a comprehensive study on the results of the 2½ days of roundtable discussions covering all aspects of home planning and design. In the second part the report undertakes to identify the things all of a majority of the groups have in common—that is, the basic essentials of a house, whether it be in Maine or California and regardless of architectural style or type of structure. For example, a majority of the groups agreed on the following as constituting a minimum combination of components for a middle-income family with children:

> A kitchen-family room with space for table and six chairs; separate laundry-utility room on the first floor; rear entry into laundry-utility room; half-bath adjacent to rear entry; parlor type living room; enclosed front foyer; guest coat closet; parents' bedroom with two closets; two other bedrooms, with one closet each; main bath with single lavatory; linen and broom closets; one-car garage with storage in the North, single carport in the South; a basement for homes in the northern part of the country.

Along with the text the second part of the report also contains a series of diagrammatic layouts of sketches which are intended to show the overall planning proposals of the women delegates in an easy-to-understand graphic form.

Of particular interest to the architect and builder is the third part which presents the reasons why women want certain specific things in a house arranged in certain ways. The high points of that section are summarized below:

Kitchen Work Area: The kitchen located at the rear, with other rooms and spaces properly arranged around it, permits a coordination of housekeeping tasks with child supervision and training. They want a window overlooking the rear yard so as to be able to supervise the children at out-of-doors play. Indoors the children may be nearby in the dining or family area. These areas may be separated from the work area in varying degrees or remain open to form a single area. They prefer the work area to face in a southerly direction. They want the kitchen equipment arranged in a compact, logical working sequence. Space between equipment should be large enough for two persons to work conveniently. They do not want traffic through the work area. Strip and L-shaped arrangements are acceptable but a majority seem to prefer a U-shaped layout.

Informal Dining or Family Area: It also should preferably overlook the rear yard. Space should be provided for a table and six chairs for informal dining and possibly formal dining. There should be space for a sofa or sofa type bed and easy chairs. Shelves or storage cabinets for games, toys, etc., should be provided along the walls. Some groups propose using the family room for guest sleeping. In general, it is to be used for informal activities, either by parents or children, according to agreement or choice at specific times.

Laundry-Utility: The women do not want to do laundering in the kitchen but the equipment should be adjacent to the kitchen for convenience in combining work activities. It should provide space where an ironing board and the clothes to be ironed may be left out for working on at intervals. This applies to sewing and mending. The laundry also should be located near the drying yard since certain types of clothing must be, or are better, dried in the open air.

Rear entrance: This access to the rear yard from the laundry also serves as the family entry to the house. The women advocate that this importance be recognized in design. They would like it to be made attractive, emphasizing its friendly character. From a functional point of view, some women would prefer a small foyer, giving access to the half-bath, the basement stairs, the laundry and through it to the kitchen. However planned, they do not want direct entry into the kitchen.

Half-bath: Adjacent to the rear entry they want a half-bath. It allows the children to get those innumerable drinks of water or use the bathroom without entering the rest of the house; it provides father with a place to remove the dirt of maintenance jobs; it simplifies the job of taking care of baby or small children requiring help at the toilet; it provides a convenience for guests when the family room is used for guest sleeping.

Basement Stairs: These should be convenient to the rear entry and to the kitchen. In two-story houses, basement stairs should be placed under the stairs to the second floor.

Basement: There is still a widespread interest in and a desire for basements. In this discussion the advantages outweighed the disadvantages. The women hold that basements provide space for the lowest dollar cost. If money was not a consideration, the majority on a national basis would prefer a one-story house without a basement. However, they conclude that if they are to have the space they need at prices they can afford, they must accept the inconvenience of a basement.

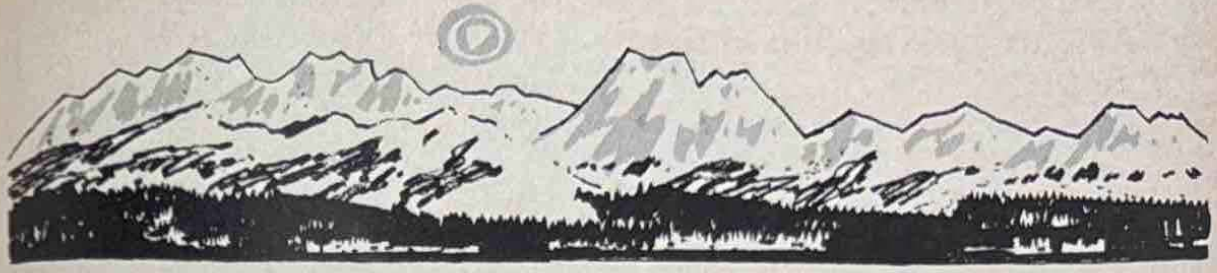
Basement Influences Choice of Components: It is the inclusion or rejection of a basement which influences, directly or indirectly, the range of choices that the women made as they moved from desirable arrangements to acceptable compromises between cost and convenience. The diagrammatic layouts illustrate how economy is sought by reduction of the first floor area through removal to the basement of functions for which it would be desirable to have space on the first floor, if money was available. The family room, laundry-utility room, mud room and half-bath successively are relocated in the basement, as lower costs are sought. The attic, the garage or carport and out-

Continued on page 36

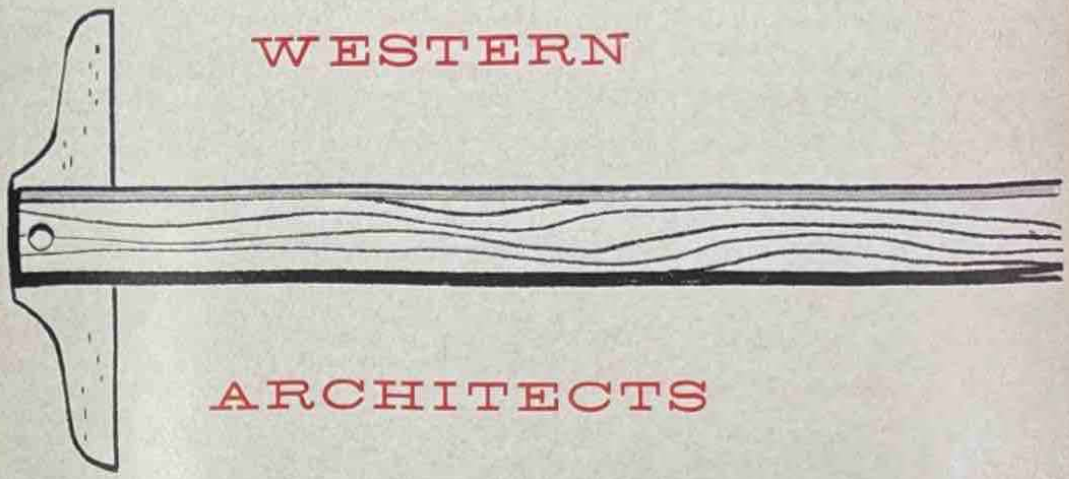
WEST COAST DELEGATES

Among the 103 delegates to the Women's Congress on Housing were the following seven from the territory covered by PA&B:

Mrs. R. H. Bell, Seattle
Mrs. H. W. Furchner, Blackfoot, Idaho
Mrs. Lillian Gaines, San Francisco
Mrs. Grant Hess, Boise
Mrs. Raymond D. Hull, Eureka, Calif.
Mrs. Mason D. McQuiston, Salem, Ore.
Mrs. Evelyn Walworth, Downey, Calif.



WESTERN



ARCHITECTS



ARE SPECIFYING

KAISER GYPSUM PRODUCTS

KAISER GYPSUM
COMPANY, INC.
LONG BEACH · OAKLAND · ANTIOCH · SEATTLE

FOR ROOFS — Poured gypsum concrete roof decks, with Kaiser structural gypsum and architects preference of gypsum or Fiberglas insulating formboard undersurfaces.

FOR INTERIOR WALLS — Kaiser Red-E-Mix gypsum hardwall plaster, mill mixed with lightweight aggregate.*
Kaiser Gypsum NULL-A-FIRE 5/8" gypsum wallboard with 1-hour fire rating.

FOR PARTITIONS — Kaiser SPEE-DEE CLIP lath and plaster partition system for non-load bearing partitions. Complies with fire ratings for Class A dividing partitions.

FOR DETAILED INFORMATION REGARDING THESE OR OTHER KAISER GYPSUM PRODUCTS, REFER TO YOUR A.I.A. FILES, *or write to Kaiser Gypsum Co., Inc., 1924 Broadway, Oakland, California*

** Currently available only in the Pacific Northwest.*

Yosemite plays host to 700 plus as CCA holds 11th convention

Philosopher's appraisal of architects keynotes sessions

by KENNETH R. MacDONALD, Contributing Editor

FACED WITH an assortment of problems ranging from the perennial public relations to vital legislation, more than 700 delegates to the 11th annual convention of the California Council of Architects met October 10-15 at Yosemite National Park in settings of natural architecture any one of them would have been glad to have designed.

The tone of the entire meeting was set by Dr. Stephen C. Pepper, chairman of the University of California's department of philosophy at Berkeley, and the convention's major panel discussion on "Population Pressures and Architecture" moderated by Cornelius M. Deasy (Southern California). Each of the five speakers who addressed specific sessions of the meeting participated in this panel discussion.

The new Yosemite Lodge, designed by E. T. Spencer, FAIA, San Francisco, served as headquarters for the meetings, with delegates, wives, Producers' Council members, and guests shuttling back and forth between Camp Curry and the Ahwahnee Hotel.

Delegates paid a remarkable degree of attention to the business at hand, despite fine weather and the natural attractions of Yosemite. All sessions, including those directed to routine council affairs, were open and well attended, with seminars devoted to school building, the home building industry, hospital design, public relations and the problem of population growth.

The Producers' Council was present, with 55 firms exhibiting their products in the old Yosemite Lodge converted for this occasion into a display center.

Council president John Lyon Reid (Northern California) presided over the convention which was arranged this year by a convention advisory committee under chairman William Corlett (Northern California). While last year's meeting at Santa Barbara had a preponderance of architects on the program, the emphasis at the Yosemite gathering was on speakers from outside the profession, chosen for the contribution they could make in stimulating architects to new thought and new action.

Also new at Yosemite was an exhibit of photographs and models of distinguished California architecture, selected by local AIA chapters and arranged by building types by architectural students under direction of George Hasslein, head of the department of architectural engineering at California State Polytechnic College.

Speakers, in addition to Dr. Pepper who delivered the keynote address, included Joseph Eichler, Palo Alto builder of contemporary style tract homes designed by architects; Archibald Shaw, superintendent of schools at Scarsdale, N.Y.; Dr. Dwight Bentel, dean of the department of journalism at San Jose State College; Gordon Cumming, chief of the Bureau of Hospitals, California Department of Public Health. In addition, Robert E. Alexander, FAIA (Southern California), participated in the major population pressure panel.

The convention theme "Planning for a Decade of Growth" was set, according to president Reid and chairman Corlett, "because architects face a tremendous challenge in expanding California's already jammed facilities to care for an additional 4½ million people expected by 1966."

Both speakers and architects agreed that California's population probably will exceed 18 million by this date, but there was not complete agreement on the extent of the problem or on methods by which the architects could meet it.



KEYNOTE SPEAKER Dr. Stephen C. Pepper, chairman of University of California's department of philosophy, whose long overdue appraisal of "The Architect as Artist" will be published in its entirety in next month's PA&B.

One point of agreement, however, came in the acceptance by architects present of a responsibility to the public in not only advancing the cause of good design, with high aesthetic values, but also in a very evident desire to develop programs of public relations intended to educate the general public into wanting good design.

Dr. Pepper warned in his keynote address and again during the panel discussion that the greatest dangers architects face in promoting good design are "the hard-headed man" and the "imitative man."

"The hard-headed man," Dr. Pepper asserted, "is the excessively practical man who is opposed to beauty or aesthetic appeal on the grounds that it is a waste of money, a thing which is impractical and effiminate and possibly suspect of being un-American.

"The imitative man," Dr. Pepper continued, "although likely to be a man of considerable cultivation, is aesthetically timid and unhappy in the highly experimental and exuberant architectural era. He wants the architecture of the present and the future to resemble the architecture of the past. This is the sort of man who has demanded conformity to his taste in many of our largest building programs."

In offering suggestions to guide California architects in planning for a decade of growth, Dr. Pepper struck the note of "public responsibility" reiterated by other speakers and supported articulately and positively by the architects.

These suggestions emphasized the following points:

1) **The architectural profession has a great social responsibility for the future character and personality of California.**

2) **Architects must see to it that there is an adequate number of architec-**



CONVENTION PANELISTS discuss "Population Pressures and Architecture" (l. to r.): Robert E. Alexander, FAIA; Joseph Eichler, builder; Dr. Dwight Bentel, dean of department of journalism, San Jose State College; moderator Cornelius Deasy, AIA; Dr. Stephen C. Pepper; Archibald Shaw, superintendent of schools, Scarsdale, N.Y.; and Gordon Cumming, chief of Bureau of Hospitals, California Department of Public Health.

REGIONAL COUNCIL MEETS

The California-Nevada-Hawaii Regional Council of the AIA, meeting concurrently with the California Council at Yosemite, held a special luncheon at the Friday convention session and elected two new members to its important judiciary committee.

The meeting, presided over by director Donald Beach Kirby (Northern California) selected Walter Zich (Las Vegas) to succeed Herman Light, (Southern California) for a three-year term on the committee.

Charles Fry (Southern California) was chosen as an alternate to succeed Keith Lockhard (Reno).

tural schools from which the profession can recruit its new members.

3) The architect has a responsibility in educating the public in the character of good architecture and in stimulating a public demand for high aesthetic values.

Deasy, during the panel discussion, commented that "architects have a deplorable tendency to talk to other architects rather than to the public" and pointed out that experts in the statistical field predict this public in California will number 21½ million by 1975.

Alexander explained that there should be 3,000 architects practicing in California by 1966 and that their greatest professional opportunities may come in providing well designed housing in the smaller towns and suburbs for the under 20- and the over 60-age group.

"The anticipated population increase," Alexander declared, "will demand 175,000 new homes a year for the next 10 years, plus new schools, garages, some 50,000 acres of new parking spaces for added automobiles and a minimum of nine million feet of new shopping areas."

Statistics such as these, Dr. Pepper warned, present the possibility of a chaos of building. He suggested that a need exists for planning and controls to avoid ugliness and to retain individuality.

Eichler, based on his experience in building and selling homes, took exception to the extent of the problem and cautioned that the population growth tends to be erratic geographically, with newcomers to the state concentrating in specific areas.

The size of the state's growth is not as important as the fact that all public facilities **must** be expanded," Cummings told the architects. "This expansion will require the combined skills of all of us."

Hospital construction in California, for example, has barely kept pace with growing needs in the past 10

continued on page 37

IN WALL PANELS

its the SURFACE that SELLS!

FINEWOOD®

means FINER SURFACES!



Quality construction is important—sure! But in wall panels, its the *Surface that Sells!* And FineWood means not only quality construction, but also the *finest, most beautiful surfaces of any Pre-Finished Hardwood Panels!* One wall or a room paneled with FineWood precedes all else in a perfect setting for future decor and furniture.

FINER CONSTRUCTION Even back and center veneers are specially selected to guarantee a permanent glue bond assuring a perfect face surface always.

SPECIAL PROCESS FINISH FineWood's exclusive finish contains basic ingredients that enhance the lustre and stability of the panels, making them resistant to moisture. In addition the natural color finish gives added beauty and prevents any change in color and texture.

GREATER VARIETY *Nine* select hardwoods—Birch, Maple, Mahogany, Red Oak, White Oak, Sycamore, Walnut, Cherry, and Limba. Other special woods available on request.



PRE-FINISHED GENUINE HARDWOOD PANELS
FINEWOOD
DULANEY PLYWOOD CORP., LOUISVILLE, KY.

ONLY GENUINE FINEWOOD PANELS BEAR THIS SEAL

DULANEY PLYWOOD CORPORATION
1401 SOUTH 12th ST.
LOUISVILLE 10, KENTUCKY



An Exclusive Gladding, McBean Product

EQUAL PERFECTION ON ALL FACES

The dry press process is used by Gladding, McBean & Co. to produce SCR brick for partition walls that have both sides exposed. No kiln marking on one face as found in brick made by the stiff-mud process.

ENDURING BEAUTY WITH STRENGTH

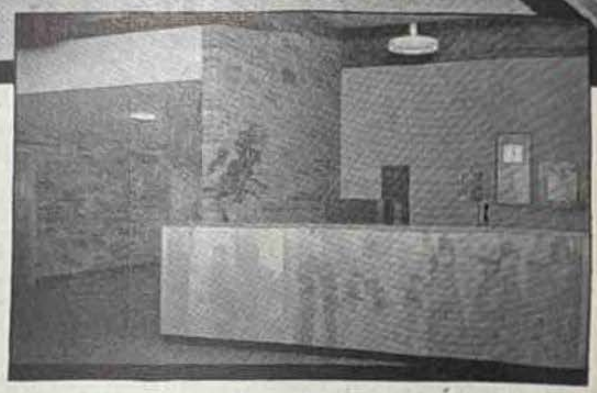
Partitions have the warm color of burned natural clay with pleasing variations in shading, and with strength to support roof beams.

EASE OF INSTALLATION

Gladding, McBean's SCR dry press units are cored with 5 holes large enough for ⅝ inch reinforcing rods, and electrical conduits. Voids around reinforcing steel are slushed full with grout.

LOW COST AND MAINTENANCE

Gladding, McBean's dry press SCR brick was installed in the McLoughlin Junior High School at "in-the-wall" costs competitive with non-masonry construction. Total cost of this school was $11.74 per sq. ft. of floor area. SCR requires no extra surfacing and offers the extremely low maintenance associated traditionally with the beauty of brick.



AT BENJAMIN FRANKLIN SCHOOL, Vancouver, Wash., architect, COBURN ACKLEY wisely made use of Gladding, McBean & Co.'s dry press SCR brick in corridors where faces were also exposed in classrooms. Partitions also serve as bearing walls. General Contractor: LARRY O. COLLINS, INC. Masonry Contractor: PAUL D. PARKER.

SCR

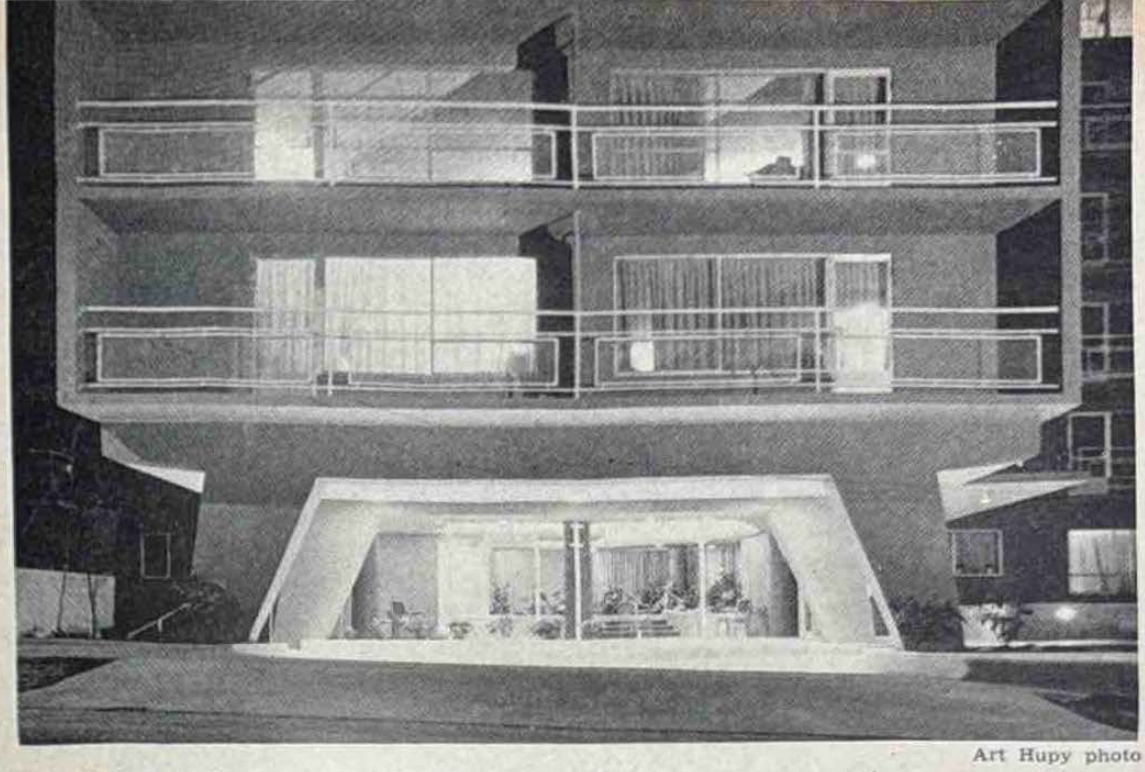
dry press brick

A PRODUCT OF

GLADDING, McBEAN & CO.

LOS ANGELES, SAN FRANCISCO, SEATTLE
PORTLAND, SPOKANE, PHOENIX

Since 1875—the West's oldest and largest creator of ceramic products



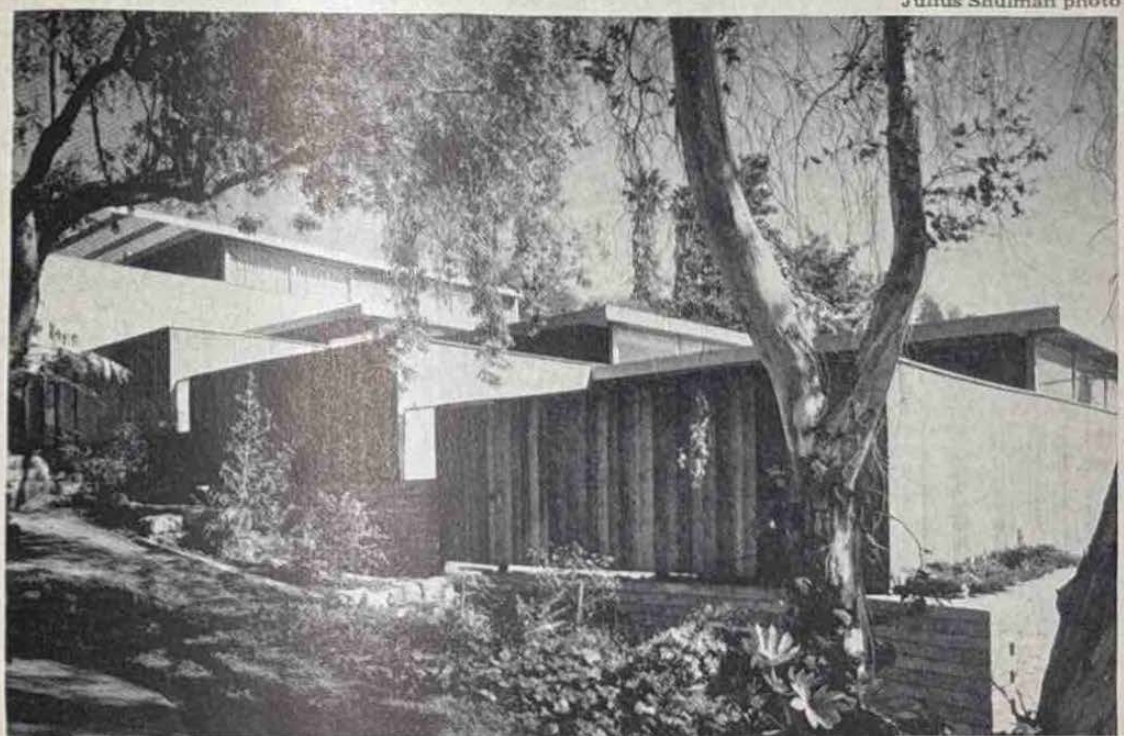
Art Hupy photo

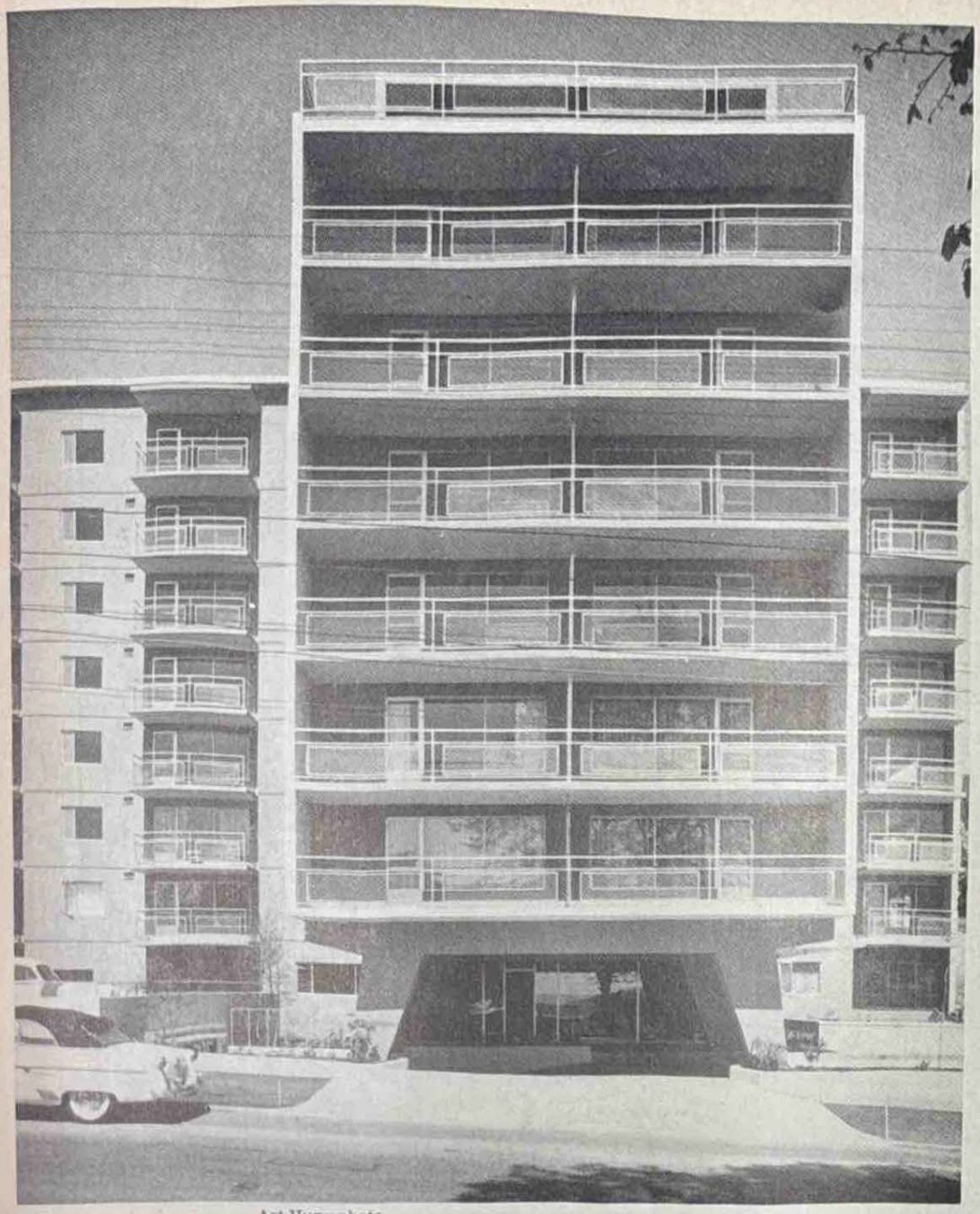
An 85-unit luxury project in Seattle: Honor Award, Washington State chapter, AIA, 1956 (p. 14).

Two award-winning apartment buildings

A five-unit economy project in Los Angeles: Award of Merit, AIA, 1955 (p. 16).

Julius Shulman photo



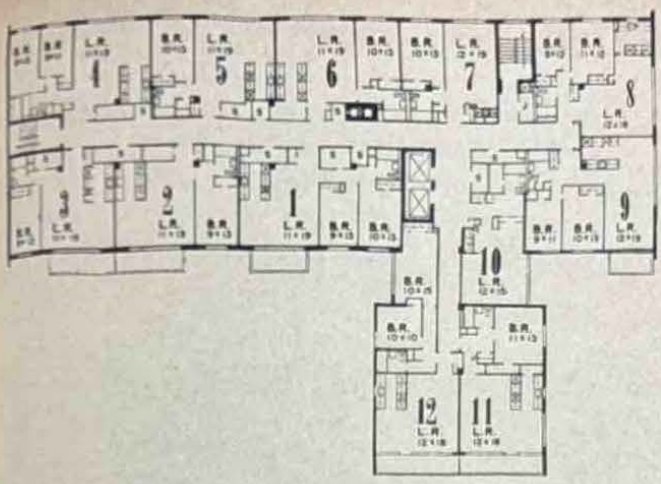


Art Hupy photo

EXTRA LARGE PICTURE WINDOWS and lanai decks which adjoin living rooms in most cases permit residents to enjoy mountain, marine and city view to its fullest.

85-unit luxury project in Seattle





DURHAM, ANDERSON & FREED, Architects

STEVENSON & RUEBENS, Structural Engineers

STERN & TOWNE, Mechanical Engineers

BEVERLY TRAVIS, Electrical Engineer

LOVELL CONSTRUCTION CO., General Contractor

OVERLOOKING SEATTLE high on Queen Anne Hill, Skyline House was conceived by the architects and the builder-owner as an answer to apartment house dwellers who wish to combine a pleasant, reasonably quiet neighborhood environment with the convenience of being close to the city center for work and for play.

The 156x125-ft. site, just across from Kinnear Park, has a grade differential of 31 ft. from front to rear. Every effort was made to take full advantage of the unsurpassed view: a panorama of snow-capped mountains, bustling harbor and Puget Sound, and the fairyland spectacle after dark. The T-shaped plan layout, besides providing an interesting approach and entrance reception area, produces the greatest number of vantage apartments.

The front projection of the reinforced concrete structure cantilevers over the driveway to form a porte-cochere which integrates the approach to the lower level garage facilities and the glass-enclosed reception area equipped with two automatic elevators. By placing the main approach to the lobby to the east, the code-regulated height limitations were fully exploited to add a floor encompassing 12 units.

The building comprises 85 luxury type units, the majority of which have individual projecting balconies with wire mesh railings painted in the primary colors. A typical floor plan includes 12 units—five two-bedroom apartments, six one-bedroom apartments and one bachelor apartment. All are served from an enclosed central corridor.

Among other features: radiant heating with individual apartment controls; an electric fan installation in every kitchen; a storage closet which is an integral part of every unit; and ceramic tiled baths with both showers and tubs.

OUTLINE SPECIFICATIONS

Type of Construction: Reinforced concrete.

Exterior Walls: Reinforced concrete with Zolotone finish.

Roof: Flat with fiberglass insulation.

Floors: Concrete slab covered with asphalt tile, rubber tile in lobby, ceramic tile in baths, carpeting in corridors.

Windows: Double-strength glass in aluminum frames.

Doors: Aluminum frame and glass, exterior; hollow metal, interior; folding in all bedrooms and closets.

Interior Walls and Partitions: Paint and Zolotone over 2-in. solid plaster and gypsum lath; corrugated plastic panels between kitchen and dining area.

Kitchen Cabinets: Japanese senwood.

Heating: Oil fired radiant hot water.

Ceilings: Plaster and acoustical.

Total Area: 88,300 sq. ft.

Total Cost: $1,350,000.

Date of Completion: April 1956.

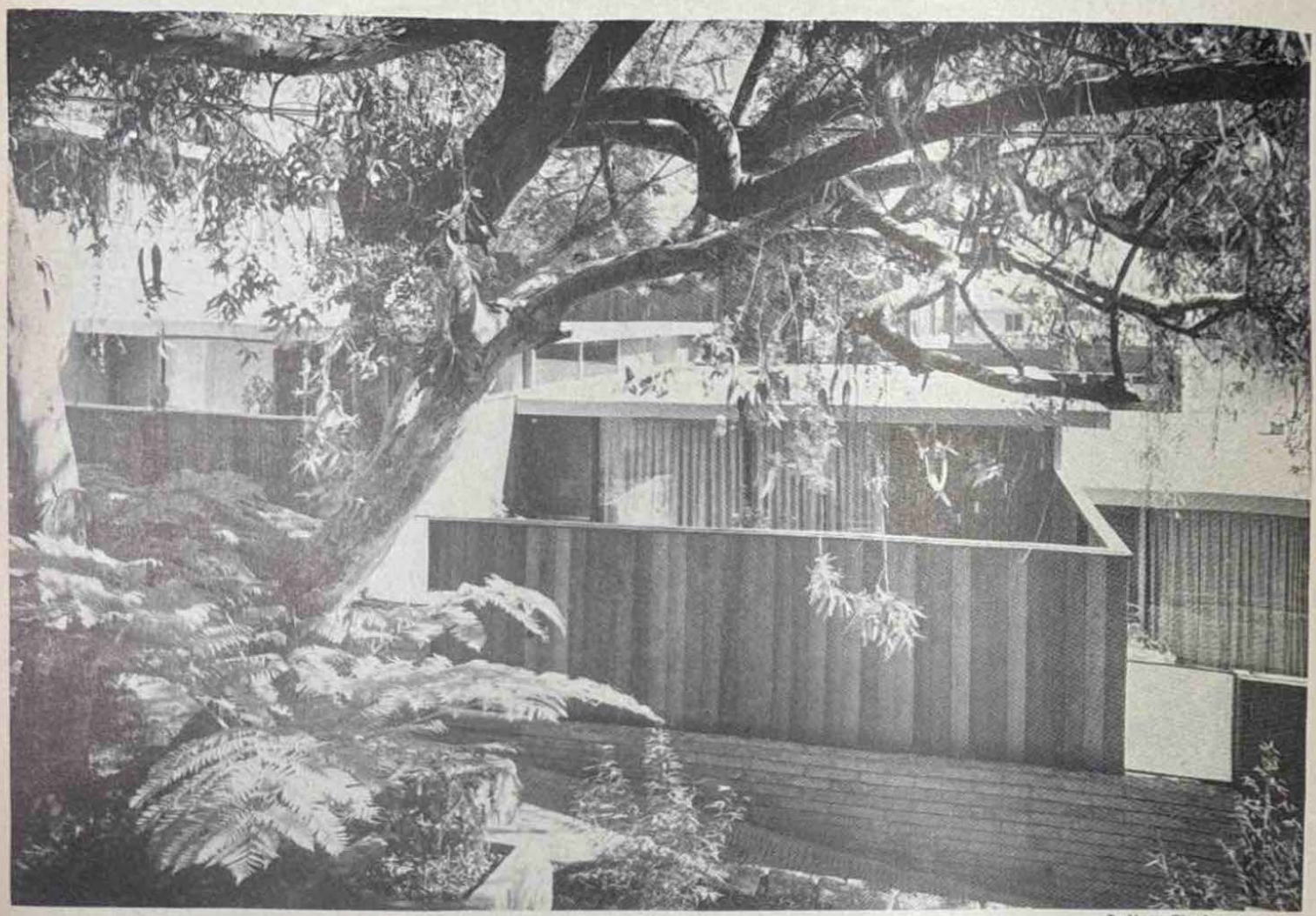


Art Hupy photo

BIRCH LOUVERED PANELS at left screen office from glass-enclosed lobby. Stairs lead to first floor corridor also separated from lobby by panels. Two automatic elevators are behind planting area.

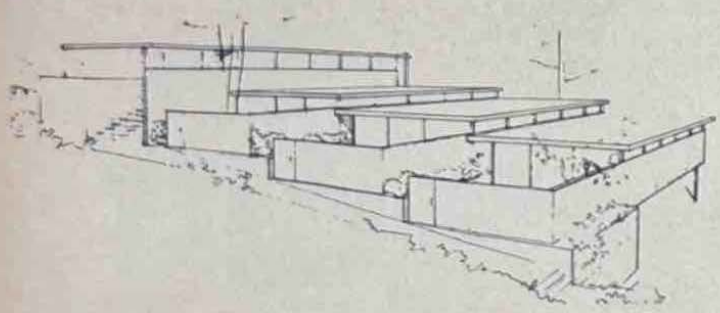
Five-unit economy project in Los Angeles

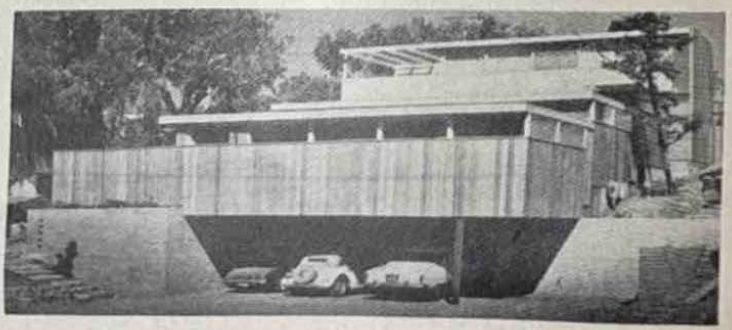
CARL LOUIS MASTON, AIA
Architect and Builder

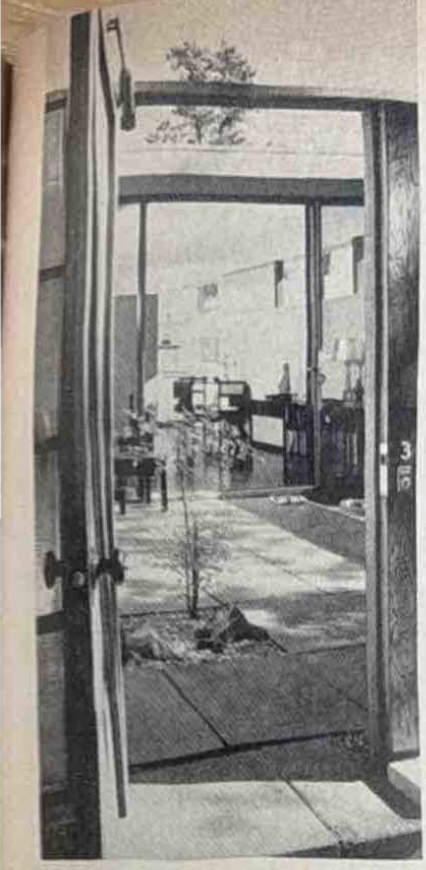


Julius Shulman photos

CALIFORNIA REDWOOD EXTERIOR and simple structural system complement wooded site. Each of four ground units is repetitive walled enclosure, roofed only for indoor living spaces; fifth (second floor) unit was included to justify land cost.

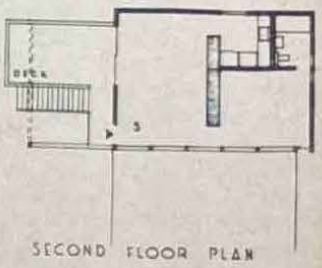




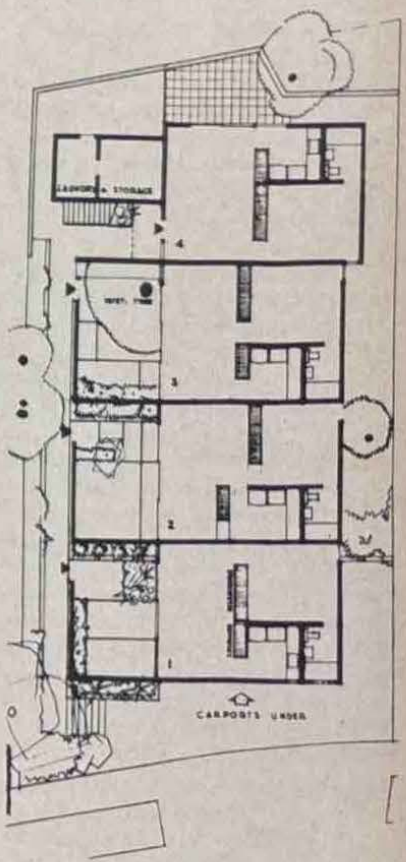




GARDEN ENCLOSURES ARE INTEGRAL PART of plan, giving unity to entire project. Interiors have gypsum board walls, drywall ceilings.



SECOND FLOOR PLAN



THE ARCHITECT who designed this five-unit apartment house in a rural-like site in Los Angeles also built the project and operates it as a landlord. While it may be somewhat unusual for a designer to get involved in such a three-way operation, his objective was to create an income-producing investment with a minimum of capital in a field where, because of his training, he perhaps was more expert than most.

Built at $9 per sq. ft. the 3,350-sq. ft. structure is sited on a fairly steep lot which is located in a geographic area frowned upon by most lending agencies. "In spite of the typical coolness on the part of the lenders," says the architect, "it was the appeal of the site's rural character that determined my choice.

"I think that the soundness of judgment was verified by the fact that all the apartments were leased prior to their completion, at a rental far above that which prevails for the area. This popularity undoubtedly was due in great measure to the private gardens which were integrally incorporated in each apartment."

Without basement, the structure was built on reinforced concrete and concrete block footings. With the exception of the second floor unit at the rear, included to economically justify the land cost, each of the apartment units was designed as an individual, repetitive walled enclosure, roofed only for indoor living spaces. This resulted in more unity for the project, both from within and without, than a building with garden enclosures simply "added on."

The architect utilized an orthodox frame structural system but with considerable emphasis on elemental simplicity in the overall structural shape and details.

OUTLINE SPECIFICATIONS

Type of Construction: Frame on reinforced concrete and concrete block footings.

Exterior Walls: 1x6 t&g California redwood.

Roof: Tar and gravel.

Floors: Cork and asphalt tile finish.

Windows: Louvered glass stopped in wood.

Doors: Slidemaster glass, exterior; U. S. Plywood hollow core slab, interior.

Interior Walls: ½-in. gypsum board on wood studs.

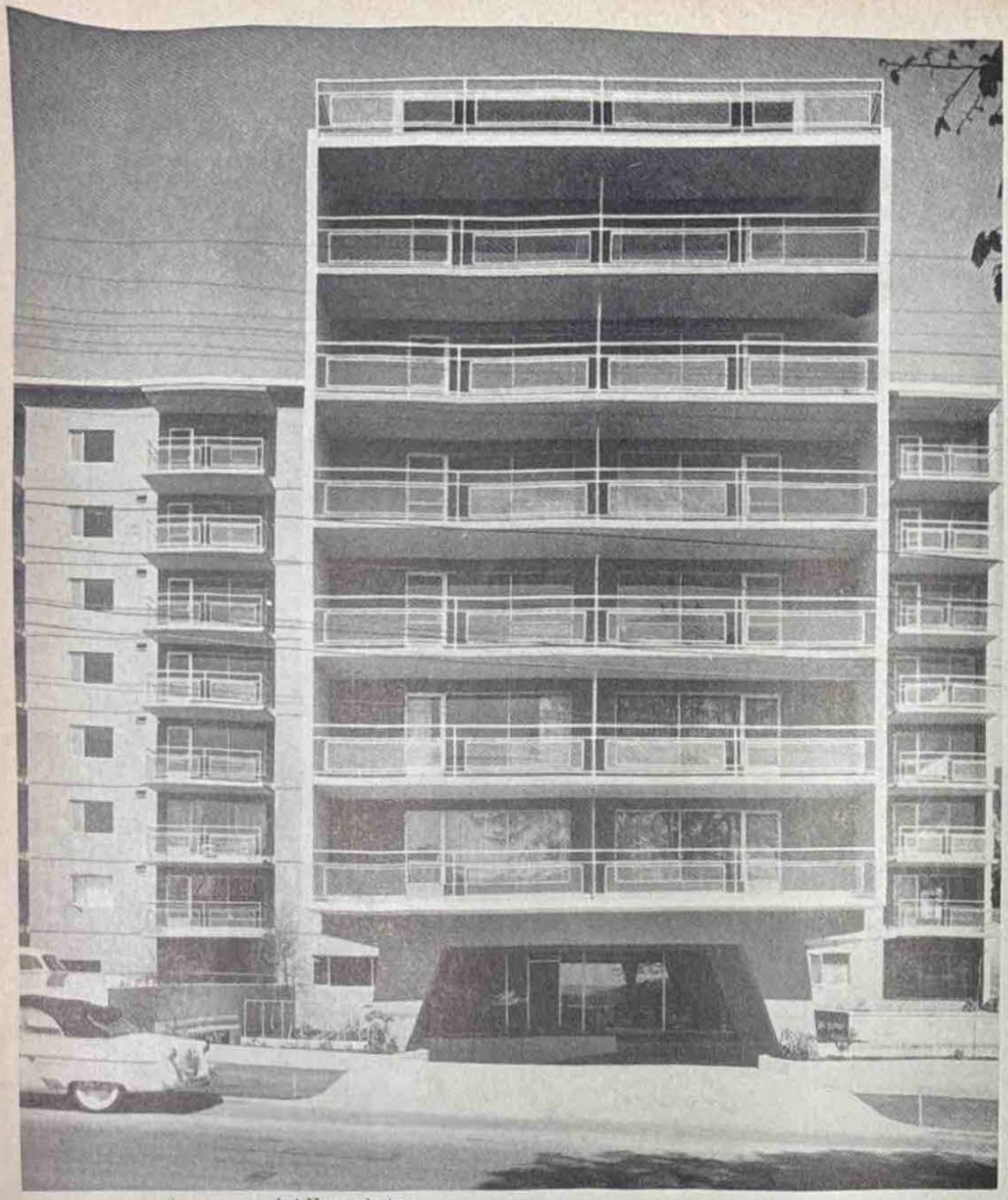
Ceilings: U. S. Gypsum drywall.

Heating: Thermador electric installation.

Total Area: 3,350 sq. ft.

Cost per Square Foot: $9.

Date of Completion: September 1954.

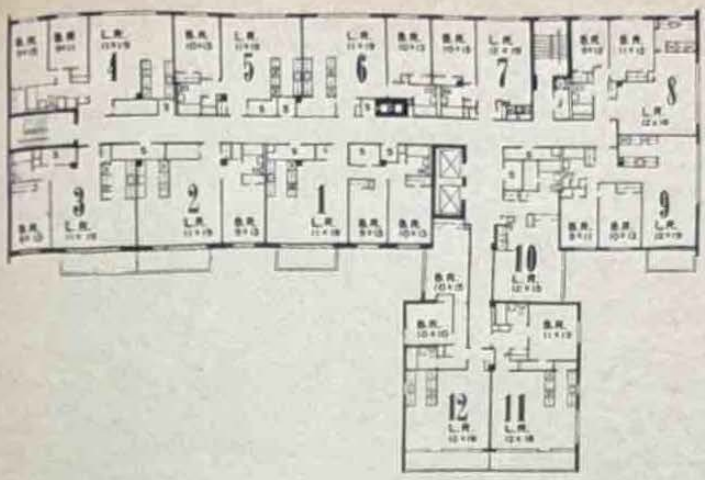


Art Hupy photo

EXTRA LARGE PICTURE WINDOWS and lanai decks which adjoin living rooms in most cases permit residents to enjoy mountain, marine and city view to its fullest.

85-unit luxury project in Seattle





DURHAM, ANDERSON & FREED, Architects

STEVENSON & RUEBENS, Structural Engineers

STERN & TOWNE, Mechanical Engineers

BEVERLY TRAVIS, Electrical Engineer

LOVELL CONSTRUCTION CO., General Contractor

OVERLOOKING SEATTLE high on Queen Anne Hill, Skyline House was conceived by the architects and the builder-owner as an answer to apartment house dwellers who wish to combine a pleasant, reasonably quiet neighborhood environment with the convenience of being close to the city center for work and for play.

The 156x125-ft. site, just across from Kinnear Park, has a grade differential of 31 ft. from front to rear. Every effort was made to take full advantage of the unsurpassed view: a panorama of snow-capped mountains, bustling harbor and Puget Sound, and the fairyland spectacle after dark. The T-shaped plan layout, besides providing an interesting approach and entrance reception area, produces the greatest number of vantage apartments.

The front projection of the reinforced concrete structure cantilevers over the driveway to form a port-cochere which integrates the approach to the lower level garage facilities and the glass-enclosed reception area equipped with two automatic elevators. By placing the main approach to the lobby to the east, the code-regulated height limitations were fully exploited to add a floor encompassing 12 units.

The building comprises 85 luxury type units, the majority of which have individual projecting balconies with wire mesh railings painted in the primary colors. A typical floor plan includes 12 units—five two-bedroom apartments, six one-bedroom apartments and one bachelor apartment. All are served from an enclosed central corridor.

Among other features: radiant heating with individual apartment controls; an electric fan installation in every kitchen; a storage closet which is an integral part of every unit; and ceramic tiled baths with both showers and tubs.

OUTLINE SPECIFICATIONS

Type of Construction: Reinforced concrete.

Exterior Walls: Reinforced concrete with Zolotone finish.

Roof: Flat with fiberglass insulation.

Floors: Concrete slab covered with asphalt tile, rubber tile in lobby, ceramic tile in baths, carpeting in corridors.

Windows: Double-strength glass in aluminum frames.

Doors: Aluminum frame and glass, exterior; hollow metal, interior; folding in all bedrooms and closets.

Interior Walls and Partitions: Paint and Zolotone over 2-in. solid plaster and gypsum lath; corrugated plastic panels between kitchen and dining area.

Kitchen Cabinets: Japanese senwood.

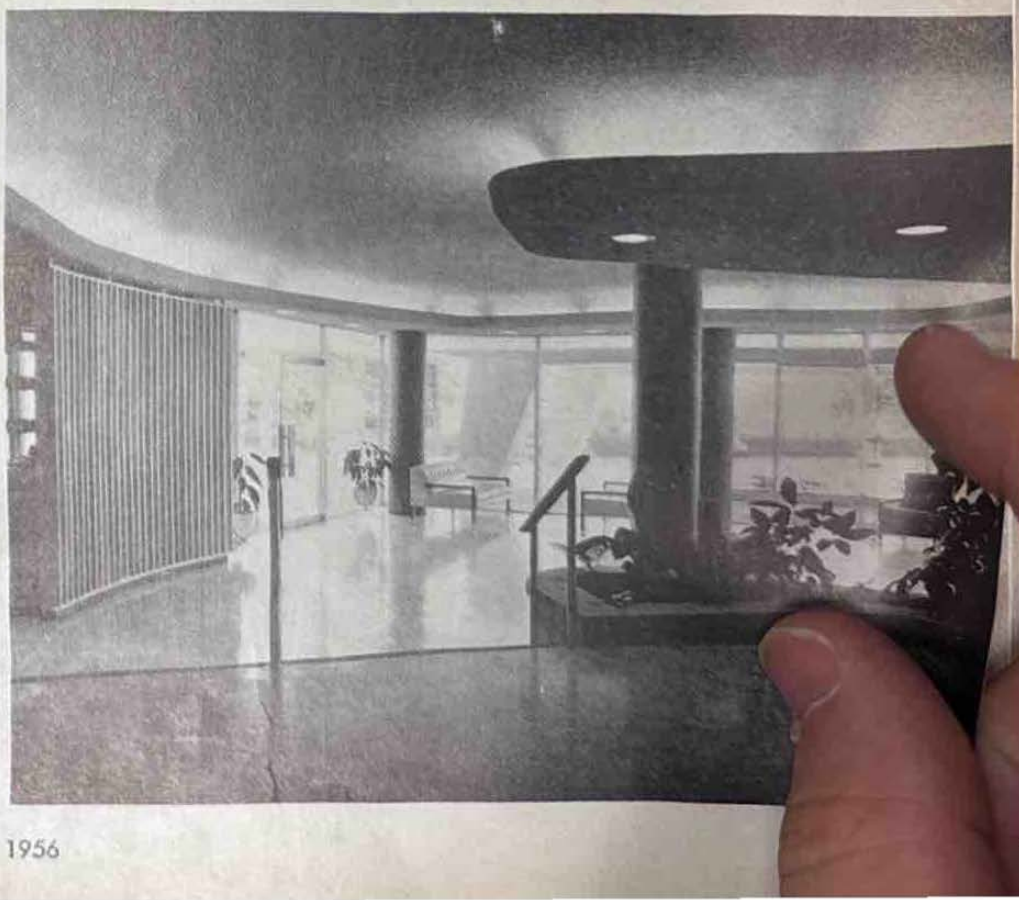
Heating: Oil fired radiant hot water.

Ceilings: Plaster and acoustical.

Total Area: 88,300 sq. ft.

Total Cost: $1,350,000.

Date of Completion: April 1956.



Art Hupy photo

BIRCH LOUVERED PANELS at left screen office from glass-enclosed lobby. Stairs lead to first floor corridor also separated from lobby by panels. Two automatic elevators are behind planting area.

An engineer's provocative statement about the design profession

ARCHITECTURE UNLIMITED

by EDGARDO CONTINI, ASCE, ACI

An address presented before the Northwest Regional Council, AIA

TO BE INVITED to speak not only on architecture but on architecture unlimited is a sobering honor and I think it would be a sobering honor for other than an engineer as well. The term "unlimited" brings to my mind, I am sorry to say, by association, the mushrooming, unmanageable FHA-approved, sanitary and uninspired tract housing expansion that surrounds and suffocates our largest cities. If architecture unlimited is to ride the coattails of expansion unlimited and prosperity unlimited, I believe that we will all reach the end of our professional life with well filled pocket books and empty souls. This is so because the function of architecture is to limit in the classical sense, to bring order, measure, scale and, indeed, pleasure.

It's fairly clear by now that by architecture I am not referring specifically to the business thereof but to its historical meaning: architecture of a country at a given time being the environment that it has created for its inhabitants. It is the result of creating genius, individual and communal will and culture. In this meaning, the architecture of the U.S.A. today is not the AIA, not Mr. Wright, not Levittown, not Architectural Forum nor the all-bronze, new ornament coming up in Park Avenue. It would perhaps be nice if it were the sum of all these items and more allied, but such is not the case.

Architecture today is represented by our cities as they are, by our suburbs as they are growing, by our garrish, measureless streets. There is where we must start from and if we start from there, we are forced to conclude that architecture in our country and our time has very little power of limiting and is indeed critically limited itself in the realization of its creative potentials. I believe that we must become well aware of the nature and significance of such limited influences if we are to succeed in the years to come in exercising more fully our professional confidence and our moral responsibility in the shaping of future environments of our land.

The main reason for the low level of the average architectural consciousness is probably very simple but unfortunately very serious. It is the general lack of interest in the civic environment, the lack of interest then in architecture. This is a strange and sad by-product of the growth of our standard of living. As people can afford a larger and better house, they transfer all interest, affection, monetary outlays and personal efforts to their own individual kingdoms and the community assets lose significance. To the citizen then, the city becomes no more than a maze of means of communication to go to work, to shop and to visit. The running water in every kitchen did away with the fountain. No fountain—no city square; no city square—no city green, etc. The inhabitant of the much-too-cramped Mediterranean apartments or New York's old tenements sits on the front steps to enjoy the sunshine or strolls up and down his street. Grandma in New England still rocks her chair on the front porch and watches the passersby on her street. But now ranch homes and packaged homes—our own doing I am afraid—complete the process of introversion and houses and inhabitants alike turn their backs to the street and their interest away from the community.

It has not always been so and in times past the interest in the shape of the city in the architectural things of the city has been high, indeed. The controversies between Bramante and Brunelleschi were in Florence a matter of public domain. They were a matter for great headlines in the paper and as recently as the time when I was a student in Rome when the station in Florence (the new station) was to be launched, the arguments, the discussion, the personal interest of all citizens in whether this new station should be built, whether modern architecture should live side by side with the church of Santa Maria Novella became as important an item as the latest murder case.

This phenomena of the retreat of interest from things civic is not so bad per se as for its consequences of disinterest and blindness to the shape of the community framework. This framework is then reduced to traffic and commercial function and is allowed to take any shape or misshape it wishes. If anyone should from his establishment emit obnoxious noises or odors, protests would be immediate and the law ready to protect the citizens' delicate noses and ears. But of the owner of the establishment decides to put up a garrish, blinking, bigger-than-yours sign over his facade, no law is usually there to prevent him because nobody asks for such a law because the citizens' eyes are no longer so sensitive; they are, in fact, blind. And the blind citizenry is not conducive to architecture unlimited. The real maker of the visual environment of our city is not you or us but Foster & Kleiser.

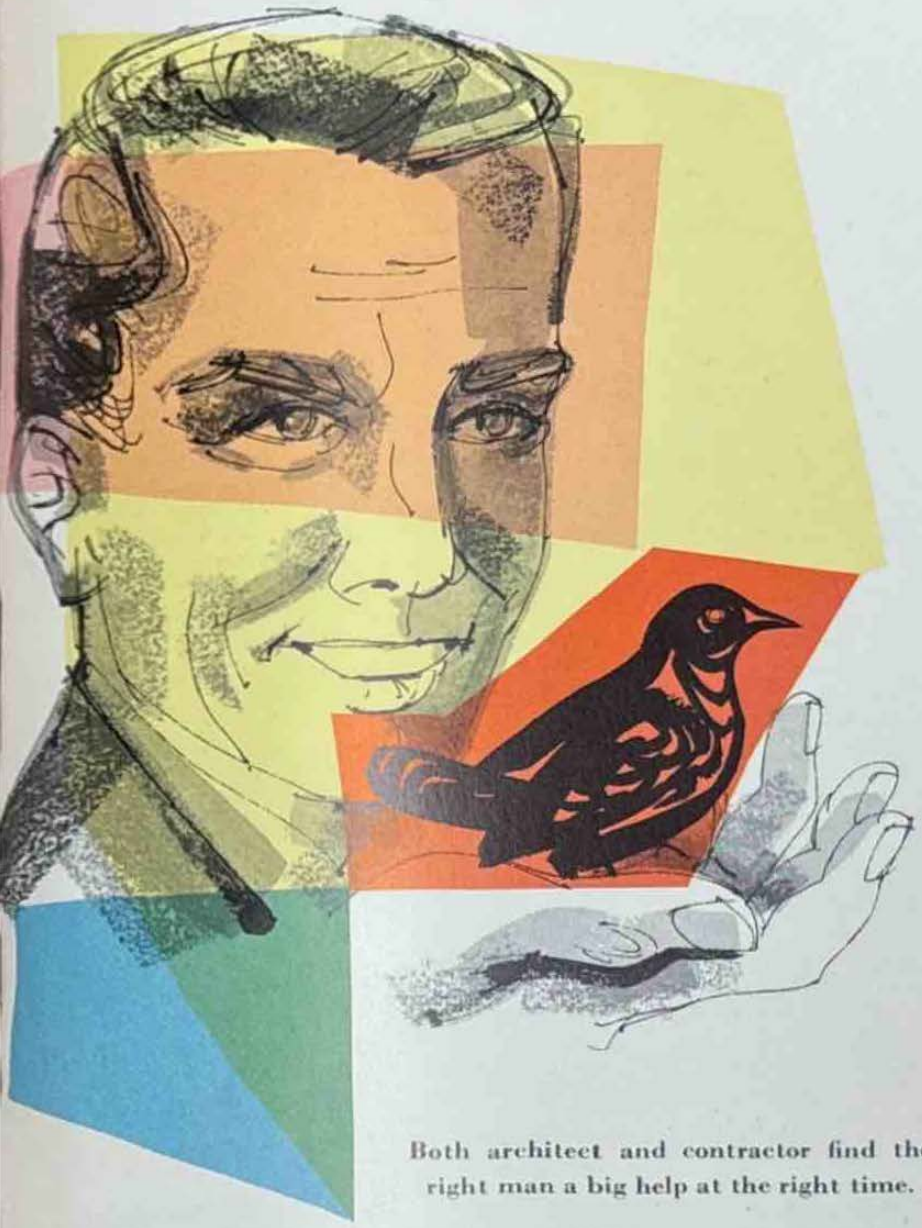
It is not long ago that the city council of a major city, which shall go unnamed, made a resolution: Whereas, all of the public buildings to be erected from now on should be designed for the maximum economy and efficiency. they should have no ornamentation, no sculpture, nothing that would not be justified by the absolute minimum requirements of economy—a proud commentary to a major city in the country with the highest standard of living. This culture of blindness is probably the greatest factor limiting architecture today.

Within its framework other factors have worked their way in. At first commercial pressures — community amenities are not mass producible, not mass marketable, not mass advertisable, but refrigerators, cars and motorized lawn mowers are. Thus advertising skill has convinced almost all of us into measuring the standard of living by quantity of goods

Continued on page 23

"Grandma in New England still rocks her chair on the front porch and watches the passerby on her street. But now ranch homes and package homes —our own doing I am afraid—complete the process of introversion, and houses and inhabitants alike turn their backs to the street and their interest away from the community."

A bird in the hand



Both architect and contractor find the right man a big help at the right time.

A feeling of well being came over the architect as he drove through the crisp Fall countryside.

He was on his way to make a final inspection of his school job.

Contractor had just telephoned to report he was ready to turn over the key.

Job looked pretty good he said. Almost exactly like the rendering.

The architect whistled soundlessly. One of those few times when everything looked right.

Should be right. He'd planned everything carefully and completely and then stuck firm on details of materials and equipment. Careful selection of suppliers paid off.

Like that time when he had been making his periodic inspection of the job and was told that some louvers for the Kawneer Aluminum Canopy had been damaged on the job. The Kawneer dealer had checked around the area for replacements. No luck—no louvers available.

Then a guy he thought he recognized drove up.

"Where have I seen him before?" he'd asked the contractor.

"Kawneer field sales engineer," the contractor answered. "Comes around to check their products and installation. Kawneer dealer called him on those louvers."

"Where's the phone?" the sales engineer asked.

"Won't do any good to call," the contractor observed. "Nobody around here has any."

"I guessed the dealer had already checked that possibility," said the Kawneer man. "I'm going to phone our warehouse."

The contractor flatly ruled. "We can't afford to wait until they get here from the plant!"

"I'm not calling headquarters," the Kawneer man pointed out. "I'm going to order replacements from one of our Factory Assembling Warehouses. We've got 'em spotted all over the country."

He turned to the phone, talked to the warehouse, describing requirements. Hanging up, he turned to the Kawneer dealer.

"That's it," he announced. "They'll be here in three to four hours."

Then he walked over to the job to go over the installation with the men.

When he was beyond earshot, the contractor turned to the architect.

"I guess a bird in the hand saves money and time at that," he cracked.

"Especially when you don't have to put salt on its tail to get service," the architect had agreed.

Driving up to the site of his finished school, the architect reflected further on the Kawneer incident. The cost of a product doesn't tell the whole story in this business, he thought.

"Installed cost is what really counts," he said through the windshield.

The gravel slithered under the tires as he pulled into the schoolyard.

He whistled again—this time out loud.

His new school building settled into the landscape as if it had grown there by itself. Just as a school should look—light, bright and cool. Spaciously inviting.

Good job, he thought.

With a big boost from modern, factory-engineered materials and first class service from the manufacturer, he amended.

Another one of those few times when everything, somehow, went right.

All because of a bird in the hand. The End



UNIT WALL FOR 1 & 2 STORY BUILDINGS—A new modular assembly with wide selection of color, unit types, sizes and proportions. See Kawneer, Sweet's Catalog $\frac{3d}{Ka}$ for details and description. *Branch Office & Warehouse, Upjohn Co., Washington, D.C., Engineers & builders: The Austin Co.*

METAL CURTAIN WALL—Kawneer will engineer your design to insure integrity of reproduction and will manufacture and install "shop-prefabricated" metal wall units. See Kawneer, Sweet's Catalog $\frac{3d}{Ka}$ for more information. *Mutual Benefit Life Insurance Co. Building, Newark, N. J. Architect: Eggers and Higgins. Contractor: George A. Fuller Co.*

STORE FRONTS—Kawneer sash is designed and engineered for safety and long life. The resiliency of the most popular assemblies permit the use of large glass areas. See Kawneer, Sweet's Catalog $\frac{21}{Kaw}$ for complete details. *Elm Farm Super Market, Dorchester, Mass. Architect: Sumner Schein, Boston. Contractor: J. J. Powers Co., Cambridge.*

ENTRANCES—Durability with lightweight and trim appearance describe the new Kawneer narrow-stile doors. These doors feature the new Kawneer interchangeable hardware, two types with identification push plates. See Sweet's Catalog $\frac{10a}{Kaw}$ *Palms Shopping Center, Houston. Architect: Irving R. Klein & Assoc. Contractor: Fisher Construction Company.*



A SINGLE SOURCE

—to save you hours of planning, detailing and estimating time.

Whether your project requires sun-deflecting louvers or one of six other product lines, Kawneer is prepared to work with you. Your design is our first consideration. Second, the installation. Third, your client satisfaction. Kawneer research, engineering, field service, estimating and detailing services are available to you. The Kawneer stock-line is strategically warehoused throughout the country. Custom assemblies are available from 3 plants. Your Kawneer district office is listed on the back of Kawneer Sweet's Catalogs.



KAWNEER TOUCH gives you *extra* confidence in your Kawneer specifications.

KAWNEER'S 7 complete architectural aluminum product lines

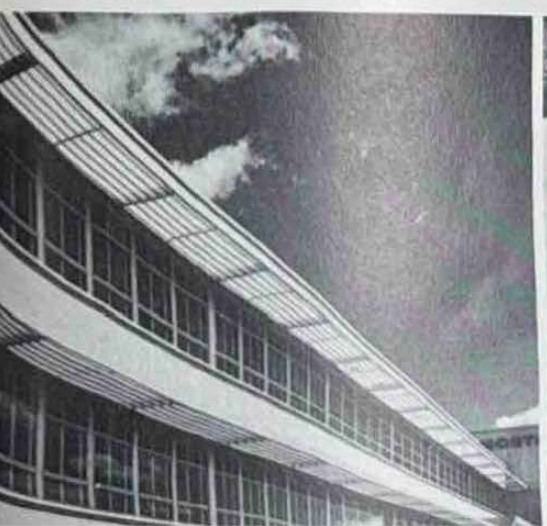
SASH, BARS, MOULDINGS				
Narrow reveal sash	Sweet's File		21 Kaw	page 6
Popular sloping faced sash	"	"	"	page 6
Deep reveal square faced sash	"	"	"	page 8
Curved face deep reveal sash	"	"	"	page 8
Rectangular extruded sash	"	"	"	page 10
Flush glazing	"	"	"	page 10
New color Sash	"	"	"	page 11
Bulkhead sash models	"	"	"	page 12
Division bars	"	"	"	page 14
Horizontal division bars	"	"	"	page 15
Corner bars	"	"	"	page 15
Filler and corner mouldings	"	"	"	page 16
Transom and marquee mouldings	"	"	"	page 17
Edge, snap-on and mirror mouldings	"	"	"	page 18
Showcase, poster case and bulletin board	"	"	"	page 19
ZOURITE FACING				
Narrow face, 2"	Sweet's File		6d Ka	
Bold face, 6"	"	"	"	
SUN, LIGHT AND GLARE CONTROL PRODUCTS				
K-Louvers, fixed and operating	Sweet's File		19e Ka	pages 4 & 5
Aluminum canopies	"	"	"	pages 6 & 7
CUSTOM CURTAIN WALL				
Kawneer metal wall	Sweet's File		3d Ka	
MODULAR UNIT WALL				
Kawneer unit wall	Sweet's File		3d Ka	
CURTAIN WALL WINDOWS				
Center pivot and vent windows	Sweet's File		17a Ka	
DOORS & ENTRANCES				
Interchangeable hardware	Sweet's File		16a Kaw	page 2
MS Security deadbolt	"	"	"	page 2
Stock entrance units narrow stile	"	"	"	page 5
Special entrance narrow stile	"	"	"	pages 6 & 7
Standard side lights	"	"	"	pages 8 & 9
Special entrances wide stile	"	"	"	page 12
Flush doors	"	"	"	page 13
Sliding glass doors	"	"	"	pages 14 & 15

THE KAWNEER TOUCH consists of those benefits that satisfy the three cost requirements of a specification: 1. Product Cost; 2. Installation Cost; 3. User Approval Cost. The Kawneer Touch comes from: Extensive Kawneer research and development facilities; 50 years' experience producing architectural metals; Close relationship with the architectural profession; Strategically located factories and warehouses; 1200 factory-trained installing dealers; Nationwide network of sales engineers and service specialists; Special architectural detailing and estimating services.

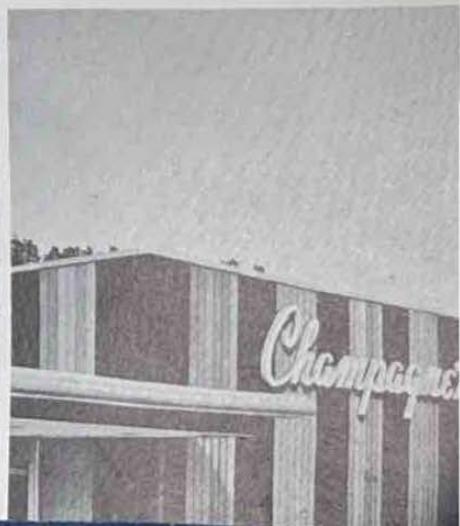
SUN CONTROL PRODUCTS—The Kawneer Canopy protects store fronts, walks and parking areas. Kawneer K-Louvers, fixed or operating, help solve sun and glare control problems. See Sweet's Catalog $\frac{19e}{Ka}$ for details. *Morton Salt Company, Woodstock, Ill. Architects and engineers: Elmer C. Carlson & Assoc., Chicago. Contractor: Sherman Olson, Inc.*

ALUMINUM WINDOWS FOR CURTAIN WALL JOBS—Pivoted or vent types with expansion, contraction and weather-tightness features. All-aluminum for corrosion resistance and light weight. See Sweet's Catalog $\frac{17a}{Ka}$ for details. *Territorial Headquarters, The Salvation Army, Chicago. Architect: Skadberg-Olson Co. Contractor: Paschen Contractors, Inc.*

ZOURITE FACING—Kawneer porcelain enamel and alumilited facing. The 2" narrow face in 10 colors and the 6" bold face in 4 colors. Combinations of colors and sizes provide individuality of design. See Kawneer, Sweet's Catalog $\frac{6d}{Ka}$ for details. *Champagne Supermarket, Manchester, N. H. Architect: Koehler & Isaak. Contractor: Davison Construction Company.*







"The Kawneer Unit Wall is a creative tool for the architect in developing outstanding exterior walls from modular panels"

"Yes, gentlemen, the new Kawneer Unit Wall is a system offering complete flexibility of design treatment through a wide selection of color, unit types, unit sizes and a choice of proportions within the units themselves. The system is completely modular with split mullions that interlock, providing for horizontal expansion and contraction. The glazing beads are recessed to be flush with the mullion, providing clean sight lines and unobstructed vision. This vinyl weatherstripping throughout reduces glazing time and assures long life. Notice the fasteners are concealed giving a clean, uninterrupted face. I could go on and on pointing out details that result from the 'Kawneer Touch.' Just a little more of your time is needed. A special meeting can be arranged with myself and your local Kawneer installing dealer, Just contact my office. See the back of Kawneer Sweet's Catalogs for the address and telephone number."

50TH ANNIVERSARY
Kawneer
General Offices NILES, MICHIGAN
ARCHITECTURAL PRODUCTS DIVISION
1906 – 1956

The Kawneer Company consists of a nationwide network of strategically located sales engineering offices, factories and warehouses: EXECUTIVE OFFICES — Niles, Mich.

FACTORIES — Berkeley, Calif., Lexington, Ky., Niles, Mich., Toronto, Ont., Kawneer de Cuba, Havana, Kawneer de Mexico, Mexico City., WAREHOUSES — Atlanta, Ga., Brooklyn, N.Y., Cambridge, Mass., Cleveland, Ohio, Chicago, Ill., Dallas, Tex., Los Angeles, Cal.

SALES ENGINEERING OFFICES:

Albany, N.Y.	Chicago, Ill.	Kansas City, Mo.	Philadelphia, Pa.	Sacramento, Cal.
Atlanta, Ga.	Cincinnati, O.	Los Angeles, Cal.	Phoenix, Ariz.	St. Louis, Mo.
Berkeley, Cal.	Cleveland, O.	Memphis, Tenn.	Portland, Ore.	Wichita, Kan.
Brooklyn, N.Y.	Dallas, Tex.	Minneapolis, Minn.	Pittsburg, Pa.	Toronto, Ont.
Buffalo, N.Y.	Denver, Colo.	New York, N.Y.	Richmond, Va.	Havana, Cuba
Cambridge, Mass.	Detroit, Mich.	Oakland, Cal.	Seattle, Wash.	Mexico City, Mex.



Architecture unlimited

(cont'd. from p. 18)

"When the opportunity for planning comes, as it is coming, it is not time for timidity."

rather than quality of environment.

Then financial patterns—the availability of easy and inexpensive financing is indeed one of the great factors of our well-being but to architecture unlimited it is a mixed blessing because it faces the architect with an invisible, illusive and unapproachable client—the real client, often enough the mortgage bank, is very likely to say "no" to the firm client, the one to whom, with a great deal of zeal and energy, you have convinced the validity of your forward-looking solution. We certainly have the pressure of technical progress which is again a reason of mixed blessings to the development of architecture. We have acquired technical abilities superior to those of our ancestors, but probably our ability to translate technical knowledge into mature expression is not more rapid than of our fathers several generations ago; and with new techniques, new materials, new products, we find ourselves forever tempted into experimenting rather than improving.

Thus our architecture is limited by the facts that so few opportunities for maturing our ideas are ever offered to it. We remain somewhat behind schedule. We still design our tall buildings under the delusion that the engineer has given us the ultimate answer because of the limitation of height and dimensions that the steel frame imposes. Nothing could be farther from the truth. Along the ultimate limits of technical—and I should not speak like this as an engineer—the ultimate limits were reached long ago with the Empire State Building. Today we don't build buildings up to the limit because other considerations and techniques force us to stay lower. These limits are a ratio of land values and elevator costs and they establish for each city pretty level tops to our construction—about 36 stories in New York, about 22 stories in downtown Los Angeles when they lift the limit. And within these limits technically we could do many more things that architecturally we are expressing today under the delusions that we are still giving the right response to the proper structure. This is an invitation to forget about the engineer, which you would not have heard a few years ago.

The parallel to this is the emphasis on technological and economic approach. For better or for worse, we are very little arbiters of the dimensions, proportions, shapes of the buildings that we are entrusted to design. As I mentioned, the height is more than anything likely to be determined by the alliance of the elevator experts with the real estate land brokers. The depth of the building is more than likely to establish at its optimum by the leasing agent who will tell you how much is needed for a doctor and you are quite fortunate if the client's public relations man will not put his say-so on type of finish and color of exterior.

A last limiting factor and a relatively recent one, implications of which are very hard to evaluate today in terms of their conflict with our cultural heritage, is the concept of forced obsolescence, which has sneaked in slowly and which will force a complete reevaluation of the values that we have given to architectural standards. By forced obsolescence I mean that there has been introduced a few years ago in the handkerchief business — Kleenex, which has its own forced obsolescence built in—one use. The next step has been the automobile. We are finding more and more rapidly that it pays to change your car rather than to fix it and we accept the fact that we don't keep a car as we kept our dear horse, up to its dying day! We change it. Its obsolescence is also built in. Fortunately most of the tract housing that is going up today has its own built-in obsolescence and for this we cannot but be grateful. When combined with a built-in obsolescence we have the additional factor of social shift from one region of the city to the other, we have rapid forced obsolescence which has created all of the slum areas in the region between our old downtown and the first ring of industrial development. These are now being cleared and made ready for a complete new development.

Now this is probably the first example of a pattern that will become prevalent in the future as the pace of technical advances in the construction of the home in particular and in construction of office buildings as well. I may mention another example of forced obsolescence: the wholesale demolition of perfectly sound buildings in New York, built about 35 to 40 years ago, to be substituted by buildings not any higher, oddly enough, but simply equipped with up-to-date air conditioning and up-to-date finishes, often enough, paradoxically, leaving the steel skelton in, the only thing that has not advanced in 35 years.

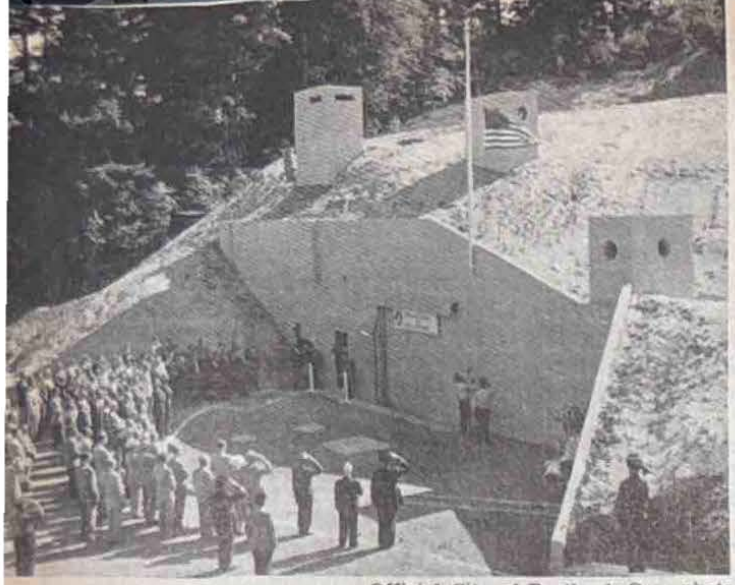
I cannot tell you what forced obsolescence means other than I am sure you realize it brings about an entirely new frame of reference in evaluating what we are designing and what we are building for. Now these are all limiting factors but they are not straight jackets and if they are understood and coped with, they may actually become active challenges. In fact, some of them have already become such. Cumulatively, they point to two main directions for the work to come. First, because of the fact of economics, the individual building, the isolated project, important as it may be to its individual creator or as a precedent, loses in architectural significance while the overall space-creating project acquires new importance. Second, there is a great deal that the architect can do to relieve the pressures of the limiting factors and to move toward architecture unlimited.

Of course, the architect is not supposed to be a reformer or a missionary—at least not any more than any other citizen—but more than any other he knows the direction in which we must move if we are to accomplish a better environment, a fuller expression of architecture for the days ahead. He cannot therefore afford to miss any opportunity of trying for the best. Occasionally an exceptional project, an exceptional client, comes forth which opens great new avenues and he may steal a page from Madison Avenue and promote and advertise the real values of plan environment and aggressively throw in the competition for the citizens' spare dollars and spare hours: urban redevelopment, parks, green belts, better zoning practices against Coca Cola, longer and bigger convertibles and chewing gum.

When the opportunity for planning comes, as it is coming, it is not time for timidity. Past are the days when admitting one's interest in plan development would bring forth a discrete inquiry from the FBI. Today you are more than likely to be invited by the Chamber of Commerce. Past are the days when aggressive solu-

Continued on page 31

"There are of course two main tasks ahead for us all. One is the renewal of the urban core and the other is the creation of the new suburban environment."



Official City of Portland, Ore., photo

DEDICATED IN SEPTEMBER, control center is complete, except for radio tower and antenna, to be enclosed by security fence. Top of building has been seeded to grass and will be landscaped for use as public park.

by R. EVAN KENNEDY

A methods report by the designing engineer of Portland's civil defense communications hub, being used as a model for projects in Phoenix, Salt Lake City, Boston and Tampa

Country's first underground CD control center

THE CITY OF PORTLAND is completing the construction of an underground control center for civil defense purposes which will be the nerve center of the entire metropolitan area for the direction of rehabilitation if and when a disaster occurs or an attack is made on the city. The control center will also be the emergency seat of the city government.

The $500,000 building is the result of more than three years of planning. It furnishes space for full activities of the city government and civil defense organization under emergency operations. This requires facilities for the police, fire, engineering, medical, welfare, warden and headquarter departments. There is also space for liaison with state and county authorities and with the military department. Provision is also made for press and emergency radio transmission.

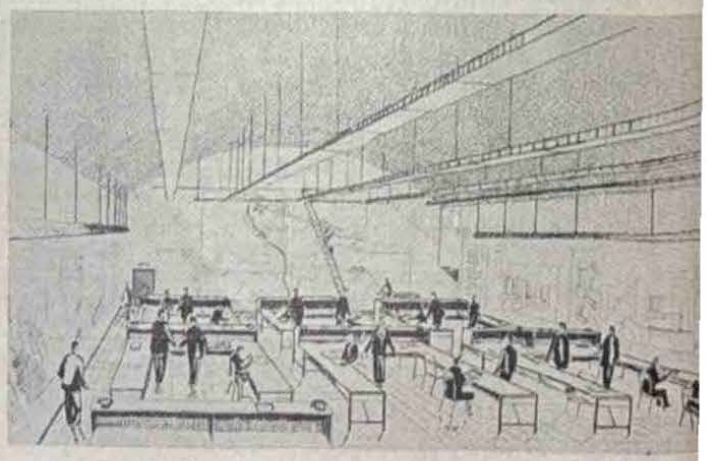
The building will be an entirely self-sufficient unit capable of housing 300 people for seven days without any of them leaving the quarters. The structure is a concrete arch more than 2 ft. thick, spanning 85 ft. and with a length of 140 ft. Within this concrete arch is a second floor occupying 85 ft. of the length and made of concrete slab on steel framing. This leaves 55 ft. of length as a large operations room with side walls and the end wall devoted to maps.

In addition to the shell there is an entrance structure that houses the fan room, personnel decontamination facilities and entrance security provisions.

Of considerable interest to engineers and architects is the design and construction of the structure. The two-hinged tied arch was the result of a great deal of planning that was required to get the facilities desired into the shape that could be covered by the concrete arch of this nature. A study was made of several possible positions on the site. Foundation analyses were made to assure sufficient soil-bearing capacity to enable an arch of this nature to be used, since extremely high reactions occur under each foundation wall. Final position placed the building in a draw on the side of a hill. The soil is a gravely sand with some clay. After being cleared of trees the site for the building was excavated, the structure built into position, backfilling carried on over the top and the contours adjusted to produce a desired loading on the arch.

In order to furnish information as to the true conditions occurring in the arch during the backfilling, strain gauges were installed at two points

OPERATIONS ROOM will feature wall maps to provide CD heads with last-minute details on damage and repairs in metropolitan area.



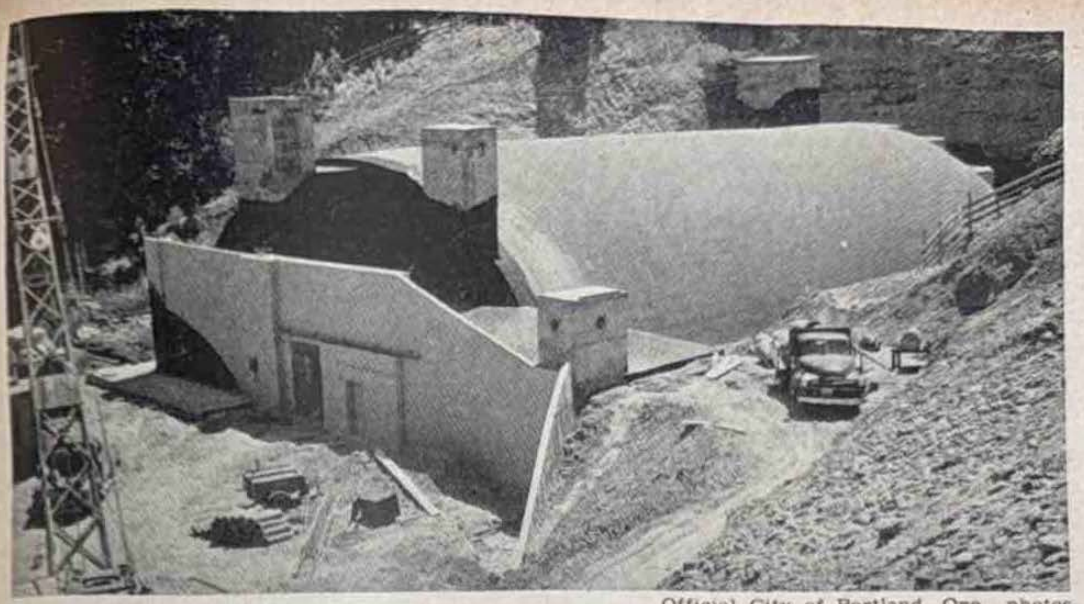
Communications and Control Center
Portland, Oregon

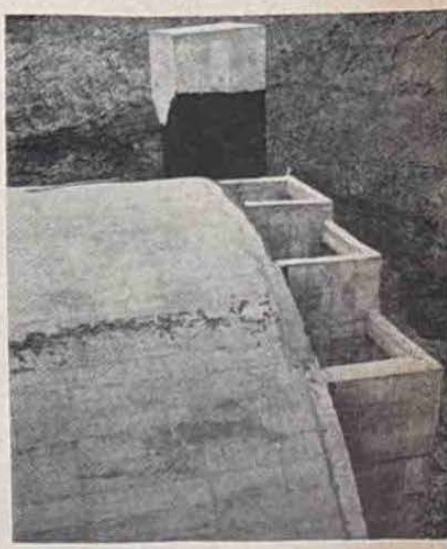
EDMUNDSON & KOCHENDOERFER, Architects—
KENNEDY, Engineer (R. Evan Kennedy in charge)

FRITZ KLAWA, Electrical Engineer

THOMAS E. TAYLOR, Mechanical Engineer

A. V. PETERSEN CO., General Contractor





Official City of Portland, Ore., photos

CONCRETE SHELL as project nears completion. Tower in center foreground is exhaust for ventilating system and diesel emergency generators; at left is antennae housing; at right is air intake. Photo at right shows emergency exit in rear, operated only from inside, and fins which help structure withstand pressure of earth.

in the arch and one point in the arch tie. These strain gauges were read frequently and this information used to slightly adjust the backfilling operations on the top. These strain gauges are now being read to watch the condition of the arch as the overburden settles the arch into its final permanent position.

Some deflection of the arch was expected as the overburden was replaced on the top. At this date the strain has not ceased but is proceeding at an extremely limited rate. The overburden has been on the top of the arch less than one month. It is expected that the strains will gradually decrease until at the end of 90 days of loading they will become so small as to be nearly impossible to detect. The shape of the arch is such that pure thrust is produced along the arch shape itself in the final loaded condition. The radius and the elevation of the top of the arch was adjusted until this condition was achieved. The shape of the arch and the loading diagram was carefully correlated so that the final condition produces very little bending but mostly compression in the shell itself.

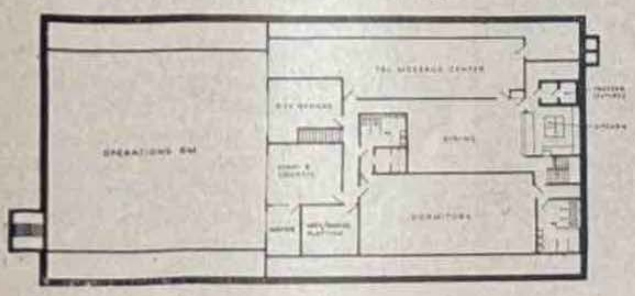
A uniform thickness shell was used in order to provide protection against penetration and to furnish an economical forming design. This shell was formed on prefabricated wood trusses which were supported on jacks of sand. These trusses were three-hinged plate connected trusses which supported joists, which in turn were covered by sheathing. The sheathing was covered by a material called Insulrock, a wood fiber impregnated with cement. This Insulrock was laid on the truss sheathing in 4x8-ft. panels, the edges sealed and then the reinforcing and concrete placed upon these. The result was an arch that is lined with Insulrock, which gives a high degree of acoustical correction and prevents the echoing sounds that would normally be expected in a concrete structure.

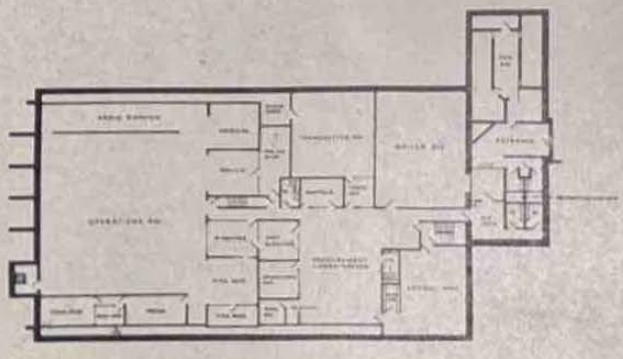
When the concrete in the arch had set up sufficiently to support its own weight, the trusses were lowered by pulling the sand out from underneath the truss support points and letting them down to rest upon wheels which in turn rolled on steel angles. The truss form work was then pulled outward to the next pouring position, jacked up to its true alignment and again supported on sand jacks.

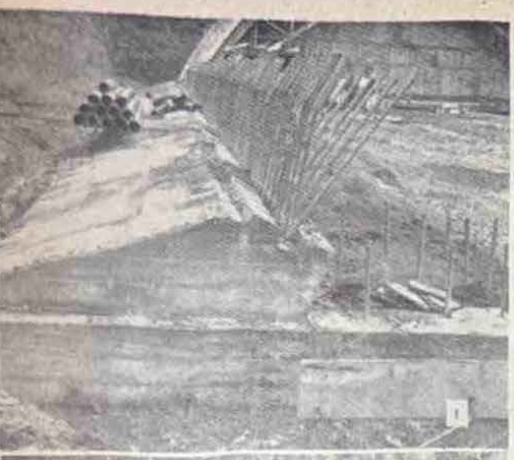
The alignment at the top of the arch was maintained within plus or minus 1 in. from the theoretical desired elevation by the careful positioning of the trusses. Since the trusses were loaded by the wet concrete at the sides, for the concrete was poured by placing it on one side of the arch and then the other and thus gradually built up to the top, the top of the arch was placed only slightly above its final position. The load of the wet concrete produced an expected deflection bringing the crown down to the desired elevation at the end of the pour.

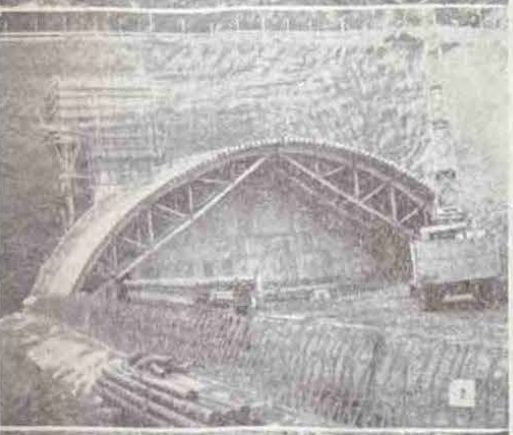
Considerable design attention was given to the ventilation of this building. Since this facility will house a large number of people, a fresh, highly usable air supply is very important. Air is drawn into the building through a shaft that extends a short distance above the ground and has protected openings. The air coming down the intake shaft is taken into the fan

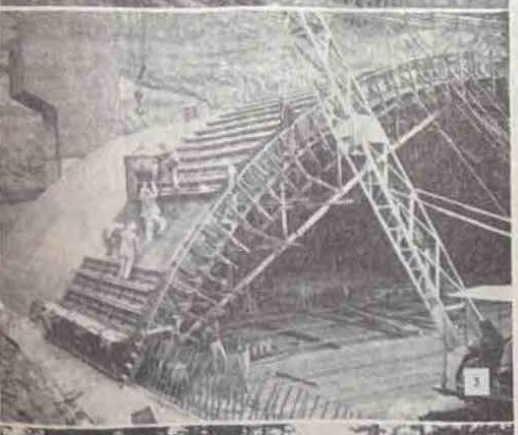
UPPER FLOOR, below; **LOWER FLOOR**, right.













No. 1: Footings and dowels, designed as hinged support. No. 2: Timber Structures wood trusses in position for first pour. No. 3: Concrete of arch is placed by bucket on alternate sides. No. 4: Entrance and air structure also houses water well. Right: Truss reaction is on steel box filled with sand. Box side is removed to remove sand and lower truss to rollers.

room where it can be distributed through two different systems. One system, to be used when the air is not contaminated in any way, diverts the air through standard dust filters and then through cooling and heating coils after which it is distributed through the building by ducts. The other system, which has to be used if the air is suspected of being contaminated, passes the air through a filter that removes radioactive particles and then distributes it to the building.

If conditions are such that outside air cannot be used at all, then the entire building can be sealed off and all air recirculated. In that case, used air is passed through activated carbon filters, freshened by the addition of oxygen, cooled, and redistributed into the building. This recirculated air can be mixed in any desired ratio with outside air so that a very small quantity of outside air may occasionally be drawn to improve the quality of the inside air being reused.

The building is under pressure so that all air leakage is outward, thus protecting against contaminated air leaking in. The entrance has an air lock system so doors can be operated against the pressure.

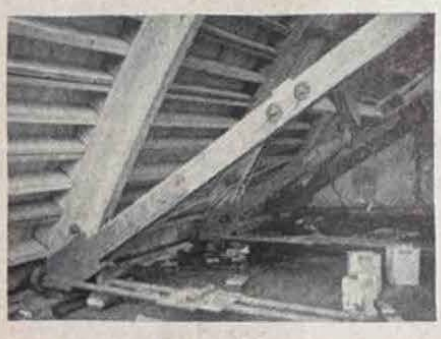
The entire structure is divided into two zones for ventilation purposes. Zone 1 is for the space ordinarily used from day to day. Zone 2 is for the balance of the space provided for emergency use. Thus, Zone 1 ventilation is quite light by comparison to the total requirements. Under crash condtitions, when this full building will be utilized by 300 people, the ventilation load becomes very great. Changing from Zone 1 to Zones 1 and 2 is accomplished by merely flipping a few switches that actuate valves and fans to produce the revised ventilation requirements.

As this building is underground, it will experience very little heat loss. Hence, the expected heat load is relatively light. However, under normal conditions when the occupancy is relatively low and when the outside air is cold, it is expected that some heat will be necessary for comfort. This heat is obtained from one of two sources. Very low requirements are satisfied by an electric furnace that is expected to be able to supply the needs 75% of the time. When more heat is required, the heat demand automatically starts one of the standby generators with heat obtained from the generator's cooling system. And when demand drops to capacity of the electric furnace, the generator automatically shuts off.

Since the control center would be inoperative without electricity, great attention was given to the standby power facilities for the plant. The electrical system is believed to be one of the most complete that has yet been developed for this purpose. It includes standby generators which come on automatically if and when outside power sources should fail. And as the standby generators are going to be available anyway, the diesel units automatically go in service when interior load on the electric supply system exceeds 90 kw. This means that under ordinary operating conditions on a day-to-day basis, when occupancy as well as the heat and ventilation load is very light, the outside source of power will serve the needs. But under crash conditions or under any conditions where all lights and all ventilation units are in full service, the standby diesel units will be activated and the supply of electricity from outside will be cut off. When the inside load drops back down to below 90 kw., the generators will turn off after 15 minutes and the outside electric source, if available, will again be utilized for the power.

Entrance security includes electric eye protection, closed circuit television, complete intercommunication and an electrically controlled door lock which is operable from two inside stations. Television is viewed at two inside stations and intercommunication is from outside to some 30 inside stations.

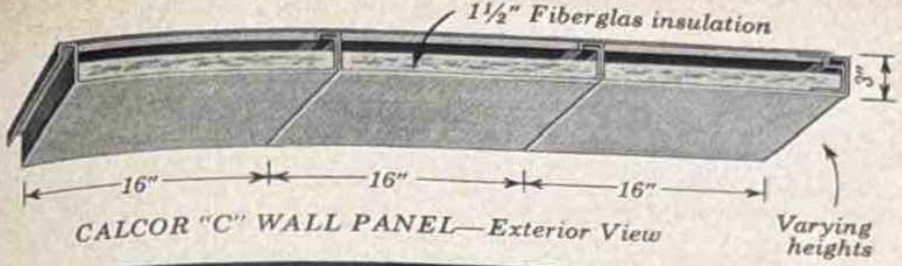
Photo Nos. 1, 2, 3 and below courtesy of Timber Structures; No. 4 official City of Portland, Ore., photo.



PROJECT DEVELOPMENT

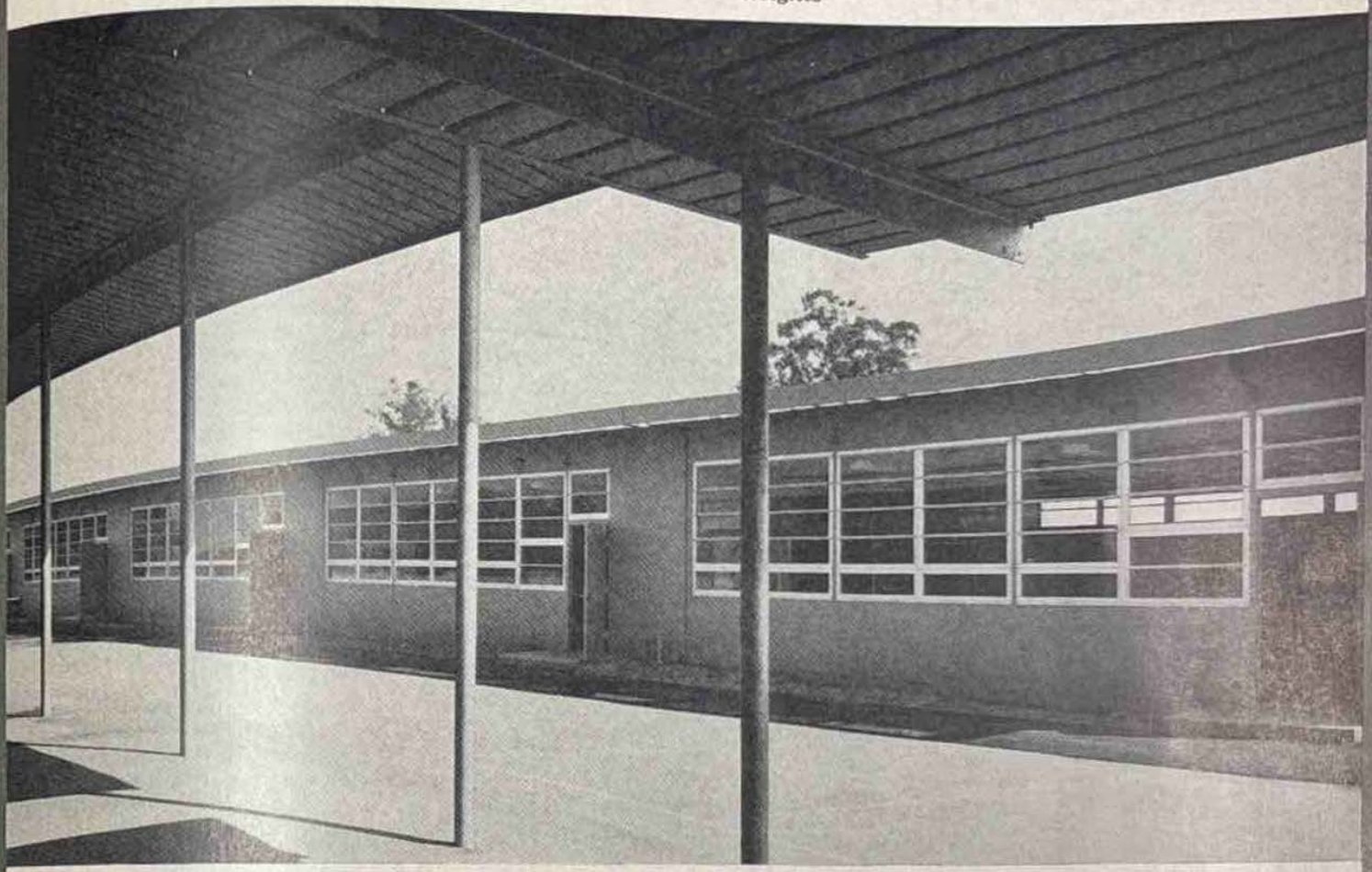
(Initiated by Jack Lowe, director of the city's Bureau of Disaster Relief and Civil Defense, under Mayor Fred L. Peterson)

Preliminary planning started	Feb. 1952
Special levy approved	Nov. 1952
Architect - Engineer retained	Oct. 1953
Initial allocation FCDA funds	June 1954
Construction started	July 1955
Dedication	Sept. 1956
Building operational	Jan. 1957



CALCOR "C" WALL PANEL—Exterior View

The Calcor classroom is shop fabricated in these modular steel panels. A unique interlocking mechanism makes the building simple to disassemble and relocate. The panel is formed from 20-gauge United States Steel Sheet. The inside and outside surfaces are separated 3 inches with steel stiffeners running vertically on 16-inch centers. No exposed fasteners inside.



Steel prefabs reduce schoolroom costs one-third

Calcor Corporation, Los Angeles, has developed a revolutionary new modular prefab classroom. The mass produced unit can be erected in a week for a price 30% less than conventional wood-frame schoolrooms.

The use of steel for framing, walls and roof decking gives the building an earthquake-safe rigidity. The entire structure is incombustible. Fiberglas is used in both roof and walls to obtain insulation quality equal to more than a foot of masonry. The Calcor modular-prefab system has sufficient design flexibility to accommodate the desired classroom features of architects and school districts. Full scale tests of the buildings have gained the approval of the California State Division of Architecture as well as the Department of Building and Safety, City of Los Angeles.

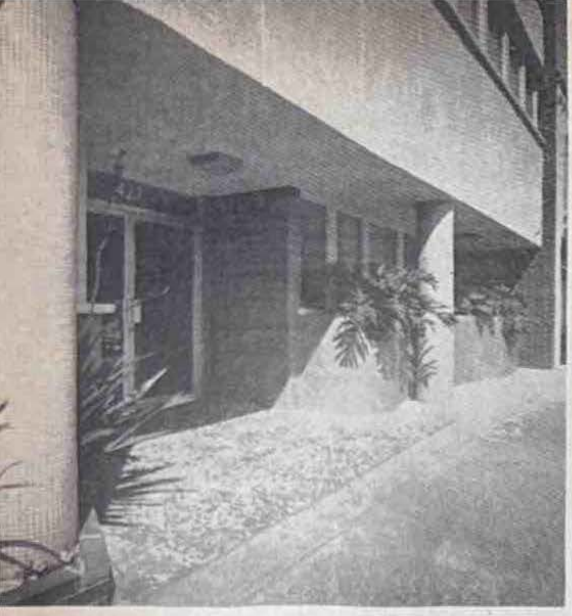
USS Steel Sheets

United States Steel Corporation · Columbia-Geneva Steel Division
120 Montgomery Street, San Francisco 6

USS

UNITED STATES STEEL

Ceramic mosaics



MEDICAL BUILDING, BEVERLY HILLS. Architect: Herman Light, AIA. Tile contractor: Frank Young. Building front: 2 3/16-in. squares, straight-edge Granitex, sand tan. Columns: light chocolate Velvetex, ¾-in. squares. Entrance: ¾-in. squares, scatter pattern, white, light chocolate Velvetex, dark chocolate Velvetex and brown.

Original Impetus in California

CENTURIES AGO the ancient Egyptians brought beauty to the beholder of their buildings by decorative ornamentation which in many instances has lasted down through the ages.

Modern architects, particularly in the southern California area, are following the pattern set by the Egyptians. As a result, there has been a resurgence of interest in the use of mosaic tile as exteriors for commercial structures.

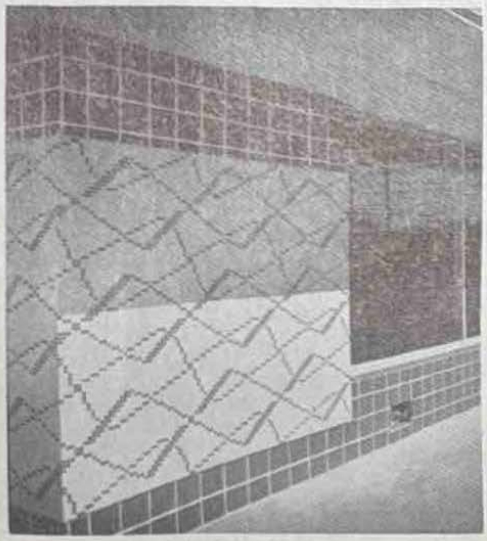
Architects have discovered that tile, one of the oldest building materials known, is as applicable to modern design and modern construction as it was to the building of ancient times; those who try to avoid the use of materials that simply imitate another type appreciate the beauty and functional values of tile.

Most of the unglazed ceramic mosaics now being used in commercial building throughout the West are dust-pressed and the colors become an integral part of the entire tile. They are durable, weatherproof and resistant to stains, grease or wear.

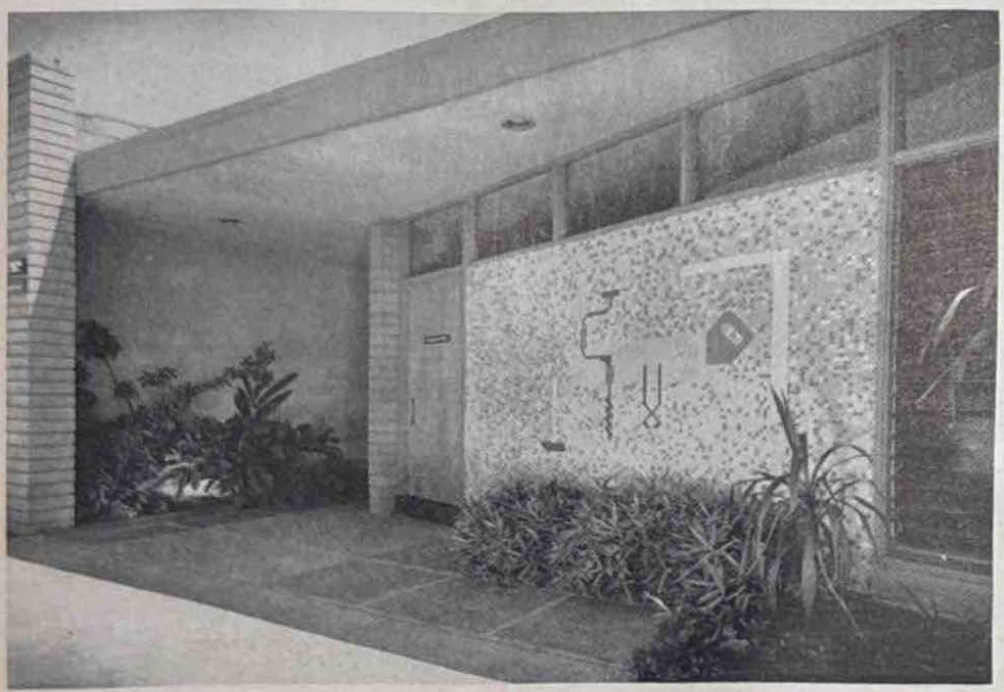
Thus, because of the long life and low maintenance costs, tile is rapidly becoming what many architects consider the ideal material for exteriors as well as for interior construction.

All of the tile used in the photographs to illustrate this article on mosaic tile installations were manufactured at the Jordan Tile Manufacturing Co. plant at Corona, Calif., a subsidiary of The Mosaic Tile Co.

The Jordan plant is the only one of its kind on the West Coast and the small, unglazed ceramic mosaics are mounted at the Corona factory on 1x2-ft. sheets so that the tile contractor may make his installations one sheet at a time. The special designs are worked out at the factory



SAFEWAY MARKET, SAN DIEGO. Tile contractor: Fritz Barthel. Store front: unglazed ceramic mosaics on dark yellow ground combining red and black in Formfree pattern. Framed with 6x6 quarry tile, Sequoia red.



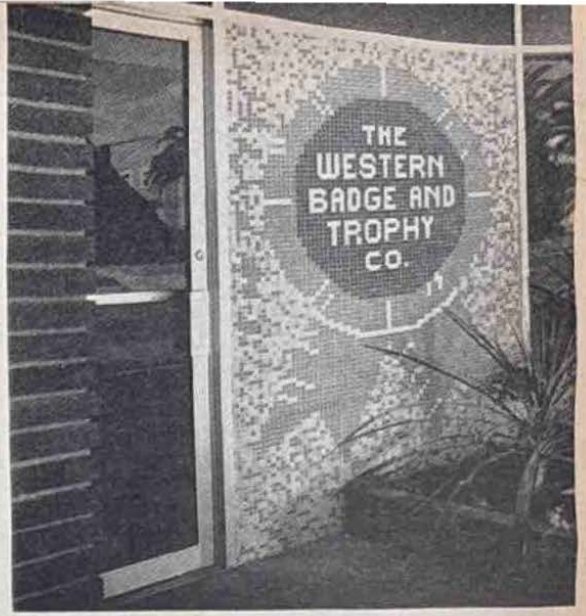
SY-ART CONSTRUCTION CO. BUILDING, LOS ANGELES. Tile contractor: Fleishman Tile Co. Front exterior panel: ¾-in. squares unglazed ceramic mosaics on background of white, light and dark gray, light chocolate Velvetex and dark yellow. Design of white, dark yellow, black and dark gray.

put on a good front

and are then mounted on the sheets after which they are ready for shipment to the tile contractor.

All of the designs illustrated were made for the specific job, with the exception of the Safeway store shown. Here the pattern used is called the Formfree pattern.

The quarry tile also was made at the Jordan plant. This tile, a rugged material, gets its color from the clays used and the tile is manufactured by an extrusion process.



WESTERN BADGE AND TROPHY CO., LOS ANGELES. Designer: Frank Miller. Tile contractor: Beverly Hills Tile. Front panel: white letters on dark red ground, surrounded by dark blue. Design on a spatter background of light tan, dark yellow and dark chocolate, all in ¾-in. squares, unglazed ceramic mosaics.

And the trend gains momentum in the East

When a Los Angeles architect specified ceramic tile for exterior wall use in Philadelphia last year, he may have started a new trend in eastern building circles.

Covering the entire second and parts of the first and third stories of the split-level structure, 20,000 sq. ft. of ceramic tile in four colors was installed in Gimbel's new store, designed by Welton Becket & Associates, in suburban Cheltenham.

It was the first time that unglazed ceramic mosaics had been used in the East on such a large scale in combining structural form with chromatic beauty. A medley of two shades of brown Velvetex, whites and grays was employed, set in 1 9/16-in. squares.

Prior to installation, this extended use of ceramic tile for exteriors was viewed with some skepticism. Since then, many have commented on it as a favorable contrast to the white brick that also was used on the store's exterior. And the same tile pattern and color blend have repeated on several smaller jobs since the store's opening last August.

Peter Verna, who supervised the tile installation, says the Cheltenham project presented no special problem. The tile was shipped cross-country from the Jordan plant in blocks of 30 sq. ft., the installation occupying about six weeks.

"As I understand it, the use of ceramic tile in large exterior areas started in California and I expect it to be used more widely here," Verna comments. "It is a fine modern idea and could easily become a trend."

A more recent example is the installation of four large cut ceramic mosaic murals on two wall exteriors of Leighton's new men's clothing store on New York's Fifth Avenue. The murals, 14 ft. high and 5 ft. 9 in. wide, depict four major style changes in men's fashions—Roman, Renaissance, American Colonial and Victorian.

The murals were executed by Ada Korsakaite of Los Angeles and commissioned by the store's architect, Victor Gruen. They were shipped to New York in numbered divisions. Giacomo De Lazzero, an officer of the tile contracting firm, supervised the installation "since this was the largest and most spectacular job of its type ever done in the city."

Following several weeks of research through art histories and costume books, Miss Korsakaite spent two months in constructing the panels. Her original designs were sketched out on brown paper in full scale and the mosaic tile, cut in small pieces by nippers, was glued to the paper in a soluble adhesive to be removed later.

Ten shades of colors were used, with grays and blacks contrasting with colorful blends of pinks, reds and chocolate browns. In the four panels about 250,000 individual pieces of cut tile were used.

Ada Korsakaite, muralist in ceramic mosaics



COMMISSIONED by architect Victor Gruen, muralist places cut mosaics on designs she created for facade of clothing store on New York's Fifth Avenue.

Twice in her teens Lithuanian-born Ada Korsakaite narrowly escaped capture by westward advancing Soviet armies. Today, at 23, she stands on the threshold of recognition in America as an artist in the design and fabrication of cut ceramic mosaic murals.

After four years in a U. S.-sponsored displaced persons camp in Kassael, Miss Korsakaite and her relatives arrived in this country and settled in Los Angeles in 1948. She worked in a pottery plant for a year, during which she learned English, and then entered Immaculate Heart College where she studied painting, ceramics and other art courses.

Her work, which includes both religious and secular themes, has been on display in 25 juried art exhibits in various part of the nation. Currently four Stations of the Cross which she executed in ceramic mosaics are on tour with the Western Association of the Museum Director Traveling Exhibit.

For the past year Miss Korsakaite has been employed by The Mosaic Tile Co. in its western division in Los Angeles and currently is in New York City.

Building volume in October up slightly

AFTER A BIG DIP in September, building volume in the five western states inched up to a $194,182,428 total for October, an 11% increase over the previous month, unusual for this time of year. It was California that solely accounted for the gain, for all other state totals were down.

Gains and losses were pretty evenly divided among the 116 building permit agencies, with 65 reporting decreases and 51 reporting increases. Among those with significant gains were Los Angeles County, up $8 million; San Diego, up $11½ million; Seattle, $3¼ million; and Portland, $1¾ million. Substantial losses were reported by Los Angeles, $6 million; King County, $2¼ million; and Sacramento, $2 million. The Los Angeles County figure was the second highest October on record, with tract housing accounting for one-third of the total. Permits issued for 856 dwellings were valued at $10,745,650.

The five-state total was 5% higher than October 1955. On a statewide basis only Washington, which has been consistently down all year, showed a decrease—3%. California was up 6%; Oregon, 26%; Montana, 3%; Idaho, 24%.

Volume for the year is still slightly higher than the first 10 months of 1955. The total through October is $2,204,610,228, a bare 1% higher than a year ago. Only Washington, down 4%, has dropped. California is up 1%; Oregon, 7%; Montana, 5%; and Idaho, 4%.

Following is a breakdown of building permits issued by several of the major agencies during October.

	DWELLING UNITS		COMMERCIAL & INDUSTRIAL		PUBLIC	
King County	295	($2,799,530)	25	($ 683,200)	1	($ 1,500)
Seattle	131	(2,361,050)	19	(884,500)	4	(1,225,000)
Tacoma	79	(525,250)	6	(209,400)		
Orange County	473	(5,064,805)	42	(558,142)	2	(93,006)
Sacramento Co.	412	(3,439,849)	78	(238,825)	6	(142,543)
Los Angeles Co.	1563	(20,509,920)	1718	(7,721,941)	33	(946,150)
Portland	60	(1,226,750)	31	(1,411,455)	2	(185,000)

Building Permit Totals for 116 Western Agencies for October 1956

CALIFORNIA	Oct. 1956	Sept. 1956	Oct. 1955
Alameda County	$ 2,999,200	$ 2,759,375	$ 2,686,341
Anaheim	3,081,007	1,539,595	1,806,086
Bakersfield	418,524	1,207,893	772,774
Burbank	973,139	553,615	613,330
Contra Costa County	2,674,476	2,490,691	4,118,064
Fresno	1,175,649	1,089,761	2,180,614
Fullerton	1,165,477	1,313,784	4,044,279
Glendale	1,101,588	1,810,808	1,320,952
Inglewood	1,039,770	1,135,361	809,321
Long Beach	3,014,645	2,737,290	3,956,260
Los Angeles	37,433,124	32,444,645	43,471,231
Los Angeles County	30,236,940	21,056,642	22,236,709
Oakland	2,572,707	4,383,000	2,058,309
Ontario	864,182	842,885	360,494
Orange County	6,072,438	4,092,621	6,453,744
Palo Alto	1,814,483	378,987	1,632,476
Pasadena	1,069,156	2,151,452	925,378
Pomona	446,226	1,975,442	2,257,332
Richmond	1,091,697	1,007,945	1,163,496
Riverside	1,533,621	3,642,085	1,167,548
Sacramento	3,293,528	1,188,829	1,306,991
Sacramento County	3,907,248	4,033,734	5,811,427
San Bernardino	921,308	1,964,890	1,627,688
San Bernardino County	4,974,059	4,932,669	5,703,108
San Diego	18,801,760	6,554,818	7,281,729
San Diego County	4,136,250	3,878,950	2,800,930
San Francisco	3,916,641	4,309,852	2,855,877
San Jose	3,371,055	3,180,585	4,094,670
San Mateo	1,320,472	979,083	1,877,493
San Mateo County	1,988,649	1,729,398	1,598,689
Santa Ana	1,685,031	1,392,899	1,971,515
Santa Monica	2,211,453	2,126,985	1,347,771
Stockton	540,513	1,270,961	2,372,067
Sunnyvale	2,411,250	974,345	983,800
Torrance	3,361,068	3,017,169	3,461,742
West Covina	459,465	929,235	1,084,485
TOTAL	$158,077,729	$131,078,249	$149,345,291

OREGON	Oct. 1956	Sept. 1956	Oct. 1955
Albany	$ 231,980	$ 136,055	$ 100,500
Astoria	12,410	29,047	26,432
Baker	71,534	57,240	87,709
Bend	146,310	75,034	59,114
Coos Bay	77,051	67,680	232,945
Corvallis	239,975	447,957	194,120
Eugene	203,444	1,019,695	518,591
Grants Pass	83,760	129,390	239,915
Gresham	58,800	83,910	60,050
Hillsboro	63,079	129,340	14,673
Klamath Falls	203,616	132,816	84,450
LaGrande	166,242	5,190	26,020
Lane County	575,370	2,176,946	441,600
Medford	256,610	263,342	195,019
Multnomah County	1,931,640	5,302,350	1,749,550
North Bend	75,062	360,194	43,150
Oregon City	14,965	154,827	16,250
Pendleton	191,750	126,450	106,425
Portland	4,999,585	2,774,985	3,247,555
Roseburg	88,205	751,015	73,095
Salem	395,304	405,154	410,999
Springfield	170,625	78,809	44,572
The Dalles	192,638	71,954	331,847
TOTAL	$ 10,449,955	$ 14,779,380	$ 8,304,581

WASHINGTON	Oct. 1956	Sept. 1956	Oct. 1955
Aberdeen	$ 82,460	$ 75,417	$ 81,145
Anacortes	52,165	113,608	96,230
Auburn	126,190	253,800	34,220
Bellingham	409,084	228,278	171,497
Bremerton	76,720	118,400	360,868
Centralia	97,428	39,851	39,101
Chehalis	60,426	100,555	60,934
Clarkston	53,270	9,072	74,403
Ellensburg	37,286	5,565	70,347
Ephrata	46,213	72,735	77,475
Everett	289,095	302,757	709,366
Kelso	13,400	24,100	14,300
Kennewick	24,450	109,068	52,200
King County	3,552,620	5,015,218	5,817,165
Kirkland	101,400	47,400	154,950
Longview	443,895	157,736	184,027
Moses Lake	124,705	79,995	261,431
Olympia	682,271	336,233	196,544
Pasco	572,288	89,887	140,222
Pierce County	1,061,968	1,281,973	991,800
Port Angeles	21,650	153,155	82,200
Puyallup	87,050	60,480	298,480
Ritzville	1,725	31,500	13,300
Seattle	7,185,480	7,309,780	3,856,305
Shelton	24,825	38,300	22,150
Spokane	2,279,405	1,611,670	2,838,657
Spokane County	1,714,465	1,605,362	1,814,044
Sumner	17,575	18,950	1,185
Tacoma	1,210,475	1,107,220	1,816,595
Vancouver	336,198	282,296	676,932
Walla Walla	194,049	181,055	630,536
Wenatchee	88,465	171,435	189,955
Yakima	478,527	555,729	320,350
TOTAL	$ 21,547,223	$ 21,588,580	$ 22,148,914

MONTANA	Oct. 1956	Sept. 1956	Oct. 1955
Billings	$ 320,750	$ 2,463,100	$ 736,850
Bozeman	82,200	54,700	82,400
Butte	27,053	113,719	122,395
Glasgow	134,780	13,978	50,300
Glendive	121,200	62,400	26,200
Great Falls	512,998	682,784	632,310
Helena	395,169	229,705	150,505
Kalispell	93,500	150,350	187,250
Lewistown	48,500	49,200	79,250
Livingston	437,740	61,950	29,280
Miles City	66,871	47,722	51,475
Missoula	44,800	131,500	67,561
TOTAL	$ 2,285,361	$ 4,061,108	$ 2,215,676

IDAHO	Oct. 1956	Sept. 1956	Oct. 1955
Boise	$ 420,639	$ 326,201	$ 562,893
Caldwell	102,692	330,885	89,600
Coeur d'Alene	118,670	97,300	181,040
Idaho Falls	488,200	858,572	805,730
Jerome	7,300	28,590	37,500
Lewiston	124,193	150,395	157,660
Nampa	138,195	95,380	82,575
Payette	11,275	23,750	12,600
Pocatello	187,551	277,500	332,638
Sandpoint	3,900	19,750	67,400
St. Maries	1,000	411,207	7,000
Twin Falls	218,475	373,990	123,160
TOTAL	$ 1,822,090	$ 2,993,520	$ 2,399,796
GRAND TOTAL	$194,182,428	$174,500,837	$184,414,258

Architecture unlimited

(cont'd. from p. 23)

tions were timidly shelved by the client on the day of presentation.

It is not very long ago—about five years—that we were called to prepare the plans for the redevelopment of a small community in Wisconsin. It was a minor project in scale but the proposed solution embodied certain principles of total renewal of the downtown of the small community, which we felt would be mandatory if any long-range good was to be done at all. When we presented it to the client, he was horrified. He paid the bill but he was horrified, put the thing in the drawer and never talked to us again until a few months ago. During this four-year period, a tremendous amount of unexpected activity in terms of urban renewal has taken place and is taking place, which would have been impossible to foresee in a relatively short period of time. And what the next four or six years will bring about could be the most astounding revolution in the pattern of change in our urban areas that we ever witnessed.

There are of course two main tasks ahead for us all. One is the renewal of the urban core and the other is the creation of the new suburban environment. The renewal of the urban core is the one in which one of the limiting factors that used to hamper us is now our ally. Things have generally become so bad economically that those who might have been against planning are now those who will follow us and induce us into drastic action. It is quite true that there are still limiting factors because often enough things have gone so far that there has remained very little to the downtown area to spur the changing of pace from deterioration being reverted into progress; but in most cases the downtown area is still, by location, the center of the total city and therefore the best location you could ever find. It is by social significance still the center of the civic organization and it has usually still enough vitality left to make it worthwhile to drastically operate on it to make it come to terms with the automobile age.

More difficult, in a sense, is going to be the creation of good and permanent new communities because their main source of life is speculative development. On the positive side, we are seeing more and more projects carried on on a very large scale. Extremely large tracts of land are being planned and developed so that they will contain within themselves all of the elements of interrelated requirements and facilities for suburban living. But on the other hand, the lack of restrictive zoning and the lack of systems whereby we can leave some portions of the area surrounding our cities as green belts or agricultural areas makes the growth into the suburbs an overall blanket, which will eventually suffocate the downtown if we don't ask for a better system.

If we look farther ahead, we find that both the urban renewal and the growth of the new communities and generally the cultural maturity that we have to reach will have to be fit within the framework of major regional plans. These plans will have to extend past county and state lines bringing together the verge authorities and facing the task of planned and guided growth of the whole country within the ultimate boundaries with the same spirit, vitality and pioneering energy that not so long ago brought all of us to such boundaries. It will be only when properly related within such orderly overall framework that your buildings and my bridges will reach the fullest significance.

IN STEP with advanced school design...

HAWS Deck-Type Drinking Fountains meet the demands of your school building program for improved water facilities inside the class room! Your choice of optional combinations of HAWS Faucets and Fixtures make these fountains adaptable to *all modern classroom needs.* Teachers and students alike, benefit from HAWS!



Series 2400
Model 2444



Series 2000
Model 2050



Series 2300
Model 2350



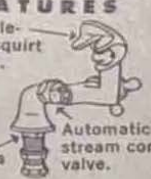
Series 2200
Model 2255

FEATURES

Shielded, angle-stream, anti-squirt fountain head.

Vandal-proof socket flanges and lugs.

Automatic stream control valve.



For the **latest** school design...

Specify the **latest**... HAWS DECK-TYPE DRINKING FOUNTAINS!

Write today... for the New HAWS Catalog!

In addition to the complete line of fountains, HAWS also features electric water coolers and emergency eye-wash fountains... and, **KRAMER FLUSH VALVES,** for all plumbing fixtures that require an automatic closing valve.

HAWS DRINKING FAUCET CO.

1443 FOURTH STREET (Since 1909) BERKELEY 10, CALIFORNIA

Materials — Products — Tools

and the latest literature

RED CEDAR PLYWOOD: Characterized by an unusual grain pattern, rotary cut red cedar panels are being produced by West Coast Plywood in thicknesses from ¼-in. to ¾-in. and in a 48x96 size. Waterproof glues only are used, permitting either interior or exterior applications.

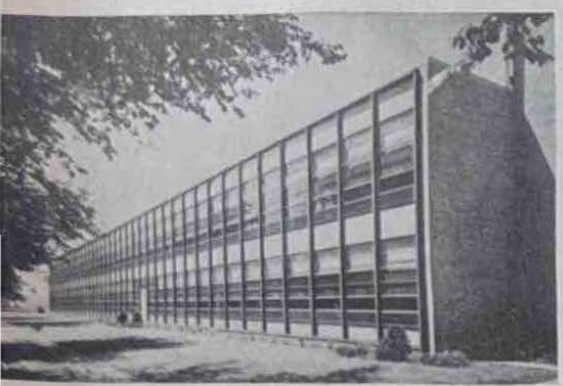
Since a minimum of patching is required with many clear faces developing, attractive natural finishes are easily obtained. Clear lacquer and wax, sealer and two coats of varnish, stain or a tinted sealer and varnish are among the more popular techniques. In addition to interior and exterior paneling, Tru-Bilt panels are being utilized for soffits, cabinet doors and closet lining.

(Item No. 1)

CENTRAL VACUUMING: "Sequoia's central built-in vacuum cleaning system places the tank type receptacle with motor in the garage. Pneumatic 2-in. aluminum tubing extends under floors or overhead to desired locations on the floor plan, emerging at floor or low-wall inlet sockets.

(Item No. 2)

CURTAIN WALL SYSTEM: To give the architect greater flexibility in the design of contemporary, functional

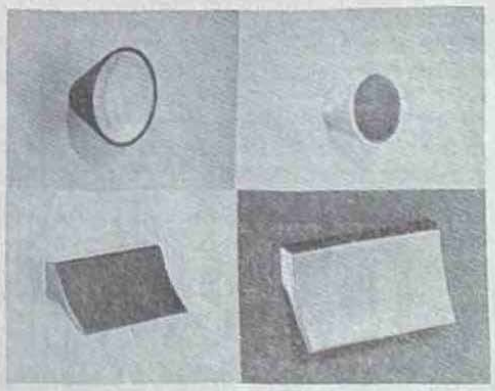


THIN WALL CONSTRUCTION

structures and the contractor faster, more efficient building methods, Fenestra has developed a new curtain wall type of construction. The Fenestrawall system incorporates simple installation details and makes use of the firm's intermediate windows along with porcelain or other type panel inserts.

Frame finishes include Bonderized prime-painted or the new Fenlite finish which reportedly never requires maintenance protective painting. Porcelain inserts can be furnished in almost any color desired.

(Item No. 3)



NEW LINE OF DOOR PULLS

CABINET HARDWARE: The new line of Tempo cabinet hardware introduced by Washington Steel Products combines a velvety black with polished bronze, brass or copper in two styles of pulls. The Tempo line features two sizes of fitted cones and knobs and two sizes of rectangular pulls and plates. All parts of each type and size are interchangeable.

Decorative laminate plates, such as Formica, can be fitted into the cones on the door pulls so they will match other surfaces in counters, cabinets and furniture.

(Item No. 4)

CHALKBOARD: Korok's direct-to-wall installation of its steel chalkboard eliminates the lamination, core, backing and plaster grounds and provides a surface plane that is completely flat. Butt seams are so indiscernable that they can be written across with ease.

The panels, coated with green vitrified enamel fused to the surface, bond firmly to plastered walls, masonry walls or over old slate. Tests show that Korok resists loosening when applying up to 300 lb. shear pull per square inch.

(Item No. 5)

INTERIOR DOOR: Developed to resist protracted abuse in public buildings, the Weldwood Custom Royal door is surfaced with Micarta, a dense, high-pressure laminate widely used for bars and tabletops. It is virtually immune to stain, will not chip, splinter or corrode and requires no push-plates or kick-plates because of its sturdy surface.

United States Plywood offers the door in four Trugrain faces, facsimiles of mahogany, oak, maple and walnut. It is available in an extensive selection of lights and louvers.

(Item No. 6)

POWERIZED BLEACHERS: Universal's powerized bleachers enables one man, without any physical effort, to open or close any section of 10, 15, 20 or more rows in a few seconds and all sections of a gymnasium in a few minutes. To operate Poweroller, a compact mobile electric power unit, the custodian merely directs an extended gripper arm into a small opening under the front row seat. This engages an attachment bar under the bleacher section. A touch of the handle switch starts action.

Pneumatic tires protect the gymnasium floor, yet gives Poweroller enough traction for easy opening or closing of bleachers. The operator simply guides the unit from section to section and directs its action. Bleachers may also be opened or closed by hand if desired.

(Item No. 7)

VENTILATING HOOD: To give even the budget house an efficient ventilating system, Trade-Wind Motorfans has introduced the Patrician. It is made up of four units: a hood available in 30-, 36-, 39-, 42- and 48-in. lengths and in Coppertone are well as colors; a 300-cfm. axial flow ventilator; a 9-in. filter grille that takes the grease from the air being exhausted; and an underhood light with a single switch that operates both light and ventilator so that they can be turned on separately or simultaneously.

(Item No. 8)

Latest Handbooks, Manuals and Literature

Yours for the Asking

GLASS MOSAIC TILE: Although a brochure put out by Saivo, Italy's largest manufacturer of architectural and decorative glass tile, is published in the native tongue, it has some interest because of three pages of colored illustrations showing contemporary Italian work.

The literature is being distributed by an eastern importer who is stocking the glass mosaic tiles, ¾-in. square and 3/16-in. thick. The tiles are pasted on paper sheets 1 ft. square for delivery. Dozens of bright colors are available, as are black, gold and silver.

Glass mosaic tiling, which has been used for construction in Italy for 3,000 years, now shows indications of

acceptance in this country. It is used for floors, walls, ceilings and for decorative purposes inside and out of homes, stores, churches and public buildings; also in bathrooms, kitchens and swimming pools.

(Item No. 9)

SHOPPING CENTERS: anyone concerned with the design and construction of shopping centers will want to add to his reference file a 16-page booklet published by the American Institute of Steel Construction. It is invaluble if only for a two-page table which gives vital statistics for 41 centers—regional, district and neighborhood—located throughout the United States.

"Shopping Centers Framed with Steel" represents a cross-section of the types of centers already planned or built. Those described in the booklet represent some of the finest examples and show quite naturally the advantages of building with structural steel.

(Item No. 10)

WOOD SCHOOLS: How the school district of Massapequa, Long Island, N. Y. solved the problem of providing modern educational facitities for its mushrooming enrollment, without imposing a crippling tax burden on the community, is described and pictured in "The Massapequa Story."

The booklet shows how architect George J. Dippell used the Teco system of engineered timber construction in four structures that provide complete facilities and at a 35% reduction in building costs, which were as low as $13.26 per square foot, or $859 per pupil, including furniture allowances and site development.

(Item No. 11)

BONDING AGENT: Thorobond, a new liquid agent for improving adhesion between old and new concrete, plaster and many other materials, is described in an eight-page folder. Typical uses are illustrated.

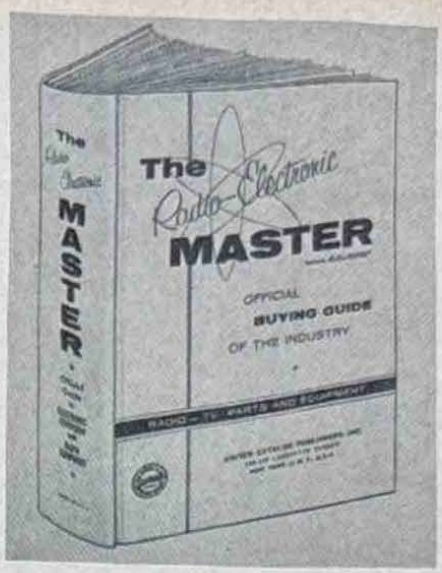
(Item No. 12)

HANDSPLIT CEDAR SHAKES: Three distinctive types of handsplit shakes—handsplit-resawn, straight-split and tapersplit—are described by the Red Cedar Shingle Bureau in its latest four-page folder. Clear and concise drawings of actual shake construction on roof and side walls and easy-to-follow directions on applications round out the brochure.

(Item No. 13)

LIGHTING: Candlepower distribution curves are one of the features of Prescolite's "Specification Drawings for Architects, Engineers and Builders," which also includes illumination data. At least half of the 28-page booklet is devoted to illustrative material.

(Item No. 14)



THOUSANDS OF ITEMS

RADIO-ELECTRONICS: An industry-wide referance volume which meets the critical requirements of those who specify, design and buy electronic parts and equipment will be available in December. Largest catalog ever published for the industry, "The Radio-Electronic Master" has more than 125,000 items of 350 manufacturers and more than 11,250 illustrations.

Among the products listed in the buying guide are antennas and accessories, recordings and PA systems, hi-fi equipment, hardware, transmitters, communication receivers, speakers, microphones, switches and volume controls.

(Item No. 15)

VENTILATORS: Features of the Herman Nelson AUDIvent are amply illustrated in a 12-page catalog for consulting engineers, architects and contractors. This auditorium unit ventilator is designed for the heating, ventilating and natural cooling of areas such as gymnasiums, cafeterias, libraries, churches and similar large capacity rooms.

Another booklet, an eight-pager sparked with cartoons, depicts the advantages of three methods of hot water perimeter piping systems for classroom unit ventilators: wall-mounted, cabinet-base and recessed-edge.

(Item No. 16)

POLE STRUCTURES: To illustrate many uses being made of pole buildings, Dow Chemical has prepared an eight-page booklet. "Low-Cost Pole Buildings for Industry" includes manufacturing operations, warehousing, lumber storage and garage facilities.

(Item No. 17)

WINDOWS: Geyser wood bar windows for either unit openings or continuous fenestration are described in an eight-page bulletin. Specifications, complete size data and panel diagrams and standard details are given, as well as several illustrations of completed installations.

(Item No. 18)

BUILDING INSULATION: Pittsburgh Corning has intended "Foamglas Building Insulation" as both a catalog and reference booklet for architectural, engineering and maintenance personnel. It contains complete information on the latest recommended procedures for the application of cellular glass insulation on flat roofs, pitched roofs, parking decks, curtain walls, wall linings, ceilings and perimeters.

(Item No. 19)

FLOOR STAIN REMOVAL: Architects, builders and suppliers who would like to pass on some maintenance tips to their clients will find help in an eight-page booklet, "How to Remove Stains from Floors." Huntington Laboratories give steps for general stain and spot removal from all floors, then list separate, specific instructions for soft floors like asphalt tile, mastic, rubber, wood, cork, linoleum and magnesite; and for hard floors like concrete, marble, and ceramic tile.

(Item No. 20)

READER SERVICE

Pacific Architect and Builder
2418 Third Ave., Seattle 1, Wash.

Please send the literature or data about the material, products and tools liste on these pages.

NOVEMBER 1956

ITEM NO. (Circle those you wish): 1 2 3 4 5 6 7 8
9 10 11 12 13 14 15 16 17 18 19 20
21 22 23 24 25 26 27 28 29 30 31 32

Name_____ Title_____

Firm_____

Address_____

City_____ Zone____ State_____

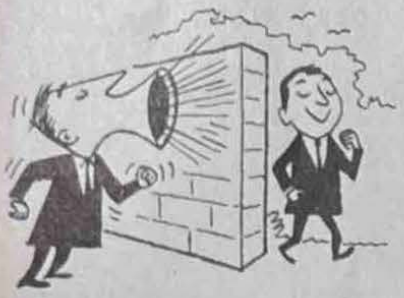


CASCADE PUMICE

hands you added sound absorption in concrete masonry

Specify Cascade Pumice Concrete for low sound transmission and high sound absorption in masonry and structural concrete. Also, the low K factor cuts heating and cooling costs for the life of the building. Find out all the facts about Cascade Pumice today. Write for complete technical data now.

Specify Cascade Pumice Concrete for:



SOUND ABSORPTION
FIRE RESISTANCE
STRENGTH
EXTRA LIGHT WEIGHT

WILLIAMSON *Cascade* PUMICE

Plant and Office:
P. O. Box 1083 • Bend, Oregon

T-square talk

about architects • planners • engineers

NEW FIRM: John W. Maloney, AIA, of Seattle has announced that the Yakima branch of his practice, operating under the firm name of Maloney & Whitney in the Larson Building, has been purchased by James D. Cowan, AIA, and Wm. E. Paddock, AIA. The new partners, both life-long residents of Yakima Valley, will practice under the firm name of Cowan & Paddock. Cowan is a graduate of Yale University, Paddock of the University of Washington.

The new firm will retain the staff of 21 persons who have been identified with Maloney and the late John Whitney over a period of years.

OPEN OFFICES: Former partner and associate with Ernest J. Kump Associates of Palo Alto, Delp W. Johnson, AIA, has established an office for the practice of architecture at 166 Geary St., Suite 140, San Francisco (EXbrook 2-3589).

John Stewart Detlie, AIA, has opened an office for the general practice of architecture at 330 Republic Bldg., Seattle (MUtual 6071). For many years he was a partner in the architectural-engineering firm of Young, Richardson, Carleton & Detlie, which now becomes Young, Richardson & Carleton.

An artist in his own right as a painter, Detlie has been a leading spokesman for the city's civic and cultural interests, particularly through Allied Arts of Seattle which he served as its first president. He currently heads the Seattle Art Commission.

•



TWO ARCHITECTS, Arthur F. O'Leary, AIA (left), and Paul Williams, AIA, second from right), join Mrs. Winifred Pike, chairman of Operation Home Improvement committee of Los Angeles, for panel discussion at convention of National Association of Real Estate Brokers held in that city. Moderator James M. Woods, construction firm president, is at right. All are Angelenos. (A summary of O'Leary's remarks appeared in last month's PA&B.)

NEW ASSOCIATES: George Lionakis, AIA, and Harry T. Nyland have been named associates in the Sacramento architectural firm of Cox & Liske. Both are graduates of the University of Oregon and have been with the firm since 1954.

RESUMES PRACTICE: After 2½ years in Juneau, Alaska, with the Department of the Interior, Arch N. Torbitt, AIA, has resumed his private practice of architecture at 1807 N. 51st St., Seattle (MElrose 7842). He served as an architectural supervisor and inspector during his stay in the territory.

ON THE MOVE: The architectural office of Kenneth T. Thompson & Associate has moved from Pacific Palisades, Calif., to 9278 Santa Monica Blvd., Beverly Hills (BRadshaw 2-1697).

Green, Sibold & Associates have moved their architectural offices from the Securities Bldg. to Room 301, White-Henry-Stuart Bldg., Seattle.

APPOINTED: The San Diego architectural firm of Richard George Wheeler & Associates has named Tom Tucker, AIA, as chief architect and Edwin M. Bennett as chief of engineering. The appointments are in line with the firm's current expansion program which is designed to provide a complete package-service for clients.

Pereira & Luckman, Los Angeles architects-engineers, have appointed G. P. Ellington as director of public relations, succeeding A. W. McKelvey, who has been advanced to director of programming. New personnel manager is Robert J. Kremple.

WORLD FAIR DESIGNER: Los Angeles architect Earl T. Heitschmidt, FAIA, has been selected by the State Department to head a design group planning America's entry in the 1958 Universal and International Exposition to be held in Brussels, Belgium. The project will include the construction of an exposition building to house U.S. entries at a cost of $8 million.

TO EUROPE: Los Angeles architect Charles E. Fry, AIA, is in Europe inspecting NATO Air Force installations as commanding officer of the 9083rd Air Reserve Group, Pasadena. Col. Fry is visiting Frankfurt, Wiesbaden, Paris and London.

Pacific Architect and Builder

Builders and Suppliers

headlining the news



• **Kaiser Gypsum Co., Inc.,** has purchased the physical assets of Fir-Tex Insulating Board, Inc., in a multimillion dollar transaction and has named Robert A. Costa as vice president and assistant general manager in charge of the newly created insulating board division.



COSTA

Costa will maintain his office at the firm's general headquarters in Oakland, says Claude E. Harper, vice president and general manager of Kaiser Gypsum.

The acquisition includes the principal Fir-Tex plant at St. Helen's, Ore. (see photo), more than 16,000 acres of timberland in Oregon and Washington, and Western Insulated Products, Inc., a wholly-owned subsidiary.

Costa, formerly merchandise manager for Kaiser Gypsum, joined the firm in 1950 as administrative assistant to the general sales manager, following several years with Arabian-American Oil Co. as assistant to the chief engineer.

• **Pomona Tile Manufacturing Co.** has appointed Charles E. Thew as Oregon district sales representative with headquarters at 3842 S.E. Morrison St., Portland. He was manager of Carlton Tile Co. of Portland from 1945 until this year.

• **Clay Pipe Institute** has a new Northwest district engineer, Owen B. Williams Jr., who will cover Washington, Oregon and British Columbia, with headquarters at 903 Roanoke Seattle. Formerly with The Austin Co. on Boeing's experimental and development center, he earlier was with the Corps of Engineers for 14 years.

• **Rheem Manufacturing Co.** has consolidated its Wedgewood Division, making gas ranges, with Standard Enameling Co., parent of Western-Holly Appliance Co. Operations are being carried out through Standard Enameling, which becomes a new Rheem subsidiary.

Standard Enameling will continue and expand manufacture and marketing of Wedgewood and Western-Holly free-standing and built-in gas cooking ranges, in addition to furnaces and other home appliances. Both lines will be marketed by their present sales organizations.

• **National Electric Products Corp.** has transferred two sales representatives C. E. Heggs from Denver to Seattle and K. F. Whittlesey from Seattle to Portland.

• **Pacific Tile and Porcelain Co.** has opened an office in Seattle at 2213 15th Ave. W. and has appointed Loren Bartlett as sales manager of the newly formed Northwest division. He has been associated with the tile industry for the past 11 years.



BARTLETT

The new office will have Washington and Oregon as its primary marketing area. Among the products manufactured by Pacific Tile, which was organized in 1933, are Ramona wall and Ramona Krystal-glaze tile, Ceratile and Ceratile Accents.

• **Washington Door Co.** and **Washington Manufacturing Co.** of Tacoma, affiliated pioneer lumber products firms headed by John E. Manley, have gone out of business.

Joseph Manley, secretary of Washington Door, said the company was forced to shut down because "we lost the market for fir panel doors, we were too far from our sources of raw materials and the union wouldn't let us run the business."

August VonBoecklin, manager of Washington Manufacturing, blamed generally rising costs, largely due to the "increasing remoteness of the raw materials." The firm in recent years had been making door frames, moldings and wood gutters.

NATIONAL NOTES

• **United States Gypsum Co.** has promoted E. E. Ellwood from assistant manager to manager of its architect service department. He has been with the firm since 1941.

• **Dulaney Plywood Corp.** has appointed Alan Denton as sales manager of its newly created soft woods division which will operate in the wholesale field.

• **Schemenauer Manufacturing Corp.** has acquired Recoy Products Co. of Canton, Ohio, which will be operated as the Recoy Division at Holland. President Harold Schemenauer states that the move is part of an expansion plan of his firm which since 1945 has manufactured fin coil, wall and baseboard radiation and unit ventilators for all types of installations.

• **Facing Tile Institute** has elected J. Carvel Tefft, vice president of The Claycraft Co. of Columbus, Ohio, as chairman.

• **Wayne Iron Works** of Wayne, Pa., is offering a gymnasium seating advisory service to school officials, architects and engineers, which includes design and engineering plans and sight-line studies to determine maximum visibility.

• **Timber Engineering Co.,** research affiliate of the National Lumber Manufacturers' Association, is bringing the why and know-how of trussed rafters to the builder's home ground through the cooperation of his local home builders' association. The presentation includes the assembly of a full-scale, 21-ft. Teco trussed rafter. Building organizations can arrange to have the program at a local meeting by contacting Teco at 1319 18th St. N.W., Washington 6, D. C.

• **Structural Clay Products Institute** has opened the doors of its $500,000 research center at Geneva, Ill., under the direction of Robert B. Taylor and his staff of 27 scientists and technicians.

PRINCIPAL PLANT AT ST. HELENS, ORE., is among physical assets of Fir-Tex Insulating Board, Inc., purchased by Kaiser Gypsum Co., Inc. One of four plants producing insulation board in West, it includes 14 major buildings covering 175 acres which front Scappoose Bay of Columbia River, about 29 mi. northwest of Portland. Annual plant capacity is 118 million square feet of equivalent ½-in. board products. River, about 29 mi. northwest of Portland. Plant produces complete line of insulation board for residential and commercial construction, refrigeration units and other uses, decorative board for interior finishing and acoustical products. Annual plant capacity is 118 million square feet of equivalent ½-in. board products.



What American women want in housing (cont'd. from p. 8)

door storage for wheel toys, garden tools, furniture, screens and storm sash can be eliminated and space for their function still made available in the basement. Some recognize that split-level houses offer a satisfactory compromise between space cost and stair inconvenience. Many reject them on the basis of unsatisfactory appearance when built on flat land.

Basementless House: By contrast, if there is no basement, then space must be found elsewhere for many purposes and items and an attic with a disappearing stair is wanted. An oversized single-car garage or carport or an outdoor storage shed becomes a necessity.

Dining Room: The majority of the women want a separate dining room. Faced with the fact of cost, they give it up but reluctantly. They try compromising on a dining L off the living room, then the family room and finally accept the informal dining area of the kitchen with buffet service in the living room for guest meals—but they don't like it. The women have placed a different emphasis on the use of the dining room. They say it is necessary for teaching children manners.

Living Room: With the family group together in the one area where they can all be together—the kitchen where mother must be working—, the function of the living room as the "togetherness" room is lessened. But it is needed as a formal room for multiple uses. Some women refer to this room as the old-fashioned parlor. For its many purposes, it need not be too large. They are willing to accept a parlor smaller in size than living rooms which have been designed on the basis of general family activity rooms. This reduced area compensates somewhat for the area added by the family room. It should be located away from the lines of traffic within the house and isolated to the greatest practical degree from the family or other activity areas. Because this room is used for social contacts with people outside the family group, it is preferred to be located near their place of entry, on the street side of the house.

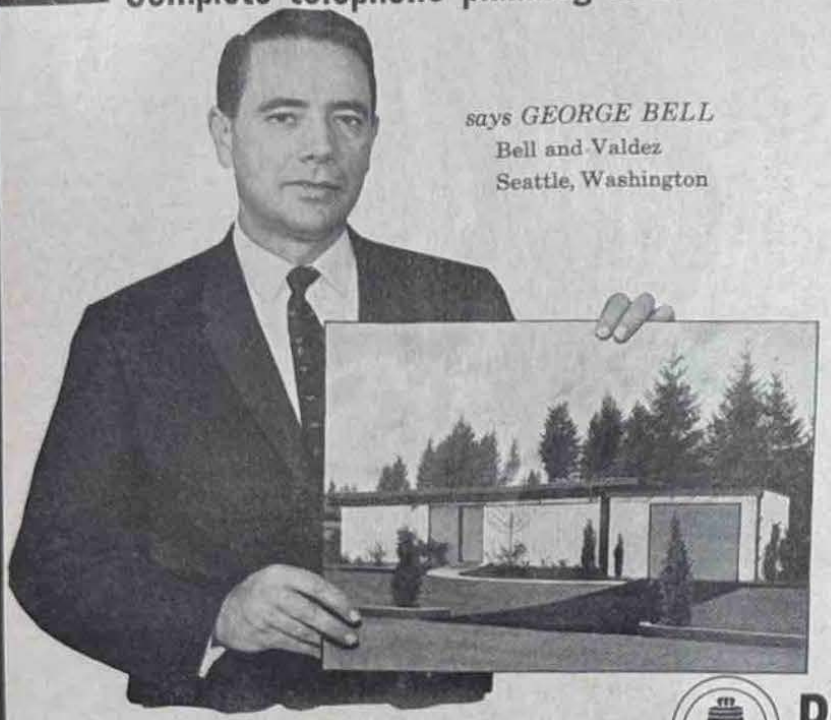
Front Entrance: The women want privacy; they do not want the living room, dining room, kitchen or bathroom in direct view of the public. They prefer an enclosed entry foyer. As an economy they will accept some type of screening.

Bedrooms: Privacy, both visual and sound, are essential for the bedrooms. They want them insulated, as much as possible from the sounds and noises generated in the major activity area of the house, through the use of corridors and closets. It was pointed out that the laundry room would be used as a sound buffer since it is seldom used at night. There should be access to the bedrooms from the kitchen-family area without going through the dining-living areas. Each child should have a space that is its own and since a separate bedroom for each child is rarely possible, there should be a bed for each child. Two closets in each bedroom are desirable and they should extend to the ceiling with two shelves instead of the normal one. The women claim that this is cheap storage space.

Bathroom: A complete bath in addition to a half-bath at the rear entry is considered minimum in a three-bedroom house. Some would want two lavatories in the bath as a minimum. They want counter-mounted lavatories with storage space beneath for bathroom supplies and equipment. They do not want a window over the tub; it is drafty, difficult to open and close, hazardous to clean and deteriorates from water damage. Regarding the problem of cleaning around the toilet, one group proposed that it be wall-hung; another that it be enclosed in some manner. Two full baths in addition to the half-bath at the rear, of course, are considered desirable and should be provided if cost considerations permit.

Other Storage: Linen closet in the hall, adjacent to the bathroom; broom closet, large enough for a stand-up type vacuum cleaner and arranged

Complete telephone planning is as basic as good electric wiring



says GEORGE BELL
Bell and Valdez
Seattle, Washington

"Home buyers expect built-in telephone facilities just as much as adequate electrical wiring," says Mr. Bell. "We like to include complete telephone plans as a standard item in every home—outlets in rooms that are used most, near work and leisure spots. And, of course, concealed wiring. These things make a home worth much more."

Successful builders like Bell and Valdez, who are setting living standards in the Pacific West, recognize the value of complete telephone planning. And Pacific Telephone is always ready to help you plan built-in telephone facilities. Just call us and ask for our *free* Architects and Builders Service.

Specify built-in telephone facilities —a sign of good planning

Pacific Telephone

for cleaning fluids, etc., located in the kitchen or adjacent laundry-utility room; off-season clothing storage, preferably a closet that is mothproofed and sealed, located in the bedroom section of the house.

Garages and Carports: They are wanted but apparently not primarily for protection of automobiles. There is no difference in trade-in allowance between a car kept in a garage and one that is left out-of-doors. If there is no basement, the need for a garage or carport with storage becomes more imperative. The final determinate is climate. In cold areas, a garage will be used for the comfort and convenience of starting the car in the morning; and in these areas the house, most likely, will have a basement which will take care of many of the other uses for which a garage is wanted.

Homemaking Appliances: The proposal of the majority was that space should be provided first with the money the builder might spend on including homemaking appliances. Many object to the payment of interest over a long period of time. Some of the women object to the initial installation of appliances by the builder because they want to make their own choice of brand, type and model. There was concern expressed over the difficulty of getting local service for items of equipment for which there was no local representative.

California architects meet in Yosemite (cont'd. from p. 11)

years, according to Cummings. Construction has not caught up with shortages and many of the facilities built prior to World War II are now obsolete.

Cummings advised architects that in hospital design they should recognize the fact that the purposes of hospital facilities are changing and the great need now is for long-range care and care for the aged.

Shaw, who with council president Reid developed the so-called "Random Falls Idea" of secondary education, asserted that "architecture can serve populations—but the architect must serve people.

"I'm not worried," Shaw declared, "over any possibility of our overbuilding or overplanning. Population waves tend to reproduce themselves and the need becomes a continuing problem."

"In school design and construction," Shaw said, "the mere providing for a need guarantees population growth to utilize the facilities provided."

Bentel, who addressed the architects in a seperate session devoted to public relations, reiterated the contentions of both Eichler and Dr. Pepper on the architect's responsibility to the public.

"Newcomers to our state," Bentel asserted, "are being packed almost wall to wall in very limited geographic areas and they may find themselves in the years ahead living in California's slums of the future."

"Architects must do everything possible to resist the deterioration of architectural and building standards," Bentel urged. "They must also resist the pressure to just get things built to meet population growth."

"Public opinion must be called into play to maintain high architectural design standards and architects and builders alike must accept their responsibility to marshall such public opinion."

Alexander synthesized the attitudes of the architects present in his comment that "the architect has a responsibility to the community to visualize a better environment and then to help the community achieve that environment."

Convention sidelights

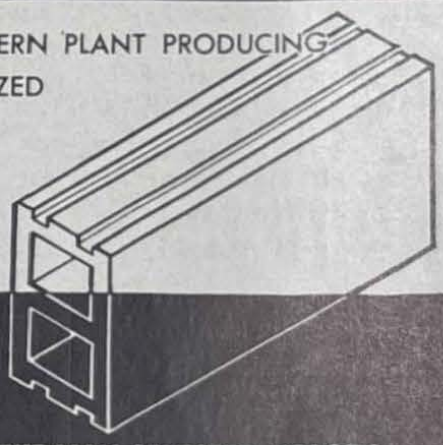
School design

School design and school construction having become a major field of activity for many California architects, the session devoted to school architecture had one of the heaviest attendance of any of the panel sessions.

Archibald Shaw, superintendent of

WACO TILE

A NEW MODERN PLANT PRODUCING QUALITY GLAZED STRUCTURAL TILE FOR YOUR JOB





● ARCHITECTURALLY-SELECTED COLORS
● QUALITY CONTROLLED
● PERMANENT MODERN BEAUTY

WaCo-Tile is distributed over the Pacific Northwest and Alaska . . . the nearest source to your job.

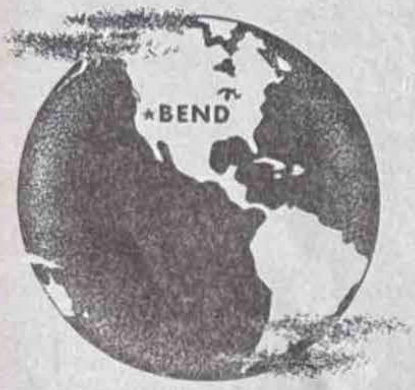
Write now for specifications and detailed information!

WASHINGTON BRICK & LIME CO.

SPOKANE • PORTLAND • SEATTLE

MEMBER WESTERN STRUCTURAL TILE INSTITUTE

There Is Only ONE Known DEPOSIT in the world—



of

SHALEX®

Lightweight Aggregate*

In only one place in the world (near Bend, Oregon), can you find an aggregate with *all* the laboratory-proved and field-tested properties of SHALEX.

Blocks, manufactured from natural, volcanic-origin SHALEX exceed ASTM SPECIFICATIONS for a grade "A" Block (ASTM C 90-52) . . . with drying shrinkage characteristics as low as **0.035%.**

*** We invite you to critically compare SHALEX with any other lightweight aggregate on the market today. Complete, FREE specifications sent gladly.**

THE SHALEX COMPANY

125 Oregon Avenue • Bend, Oregon
Phones: 166 and 275

schools at Scarsdale, N. Y., was introduced by John Lyon Reid, council president, who with Shaw originated the now nationally known "Random Falls Idea," an educational and architectural effort to develop analysis of school problems.

Asserting that architecture is a "culmination of idealism and practicality," Shaw took as his text a quotation from Ruskin: "The greatest thing that the human soul ever did in the world is to see something clearly and tell what it saw in a plain way."

The role of the architect, Shaw declared, is to "see plainly that schools are for people; that school buildings are places where human beings live and grow; and to design such buildings so that they promote, not retard the learning process."

Schools built on the so-called campus plan, where as many as 2,000 pupils are shuffled from room to room at the end of each period in a manner comparable to the mass movement in the New York subway, are little kingdoms built for the convenience of teachers rather than a carefully thought out organizational plan for the growth of students as individuals."

"Such systems," Shaw declared, "are efficient. But I question whether they are educationally effective."

In contrast Shaw recommended schools such as the Heathcote Elementary School which consists of clusters of four rooms around a common core.

"This type of school," the educator explained, "becomes a world in which each child remains for several years with the same teachers who have an opportunity to know and appreciate the worth of each individual child.

"In planning school buildings architects are truly shaping human environment. Thus the architect's role should be to ask significant questions which will reveal how student needs are to be met. The architect must take the primary responsibility of keeping educational needs in sight; in pointing out the various implications in the use of buildings; of planning for flexibility and the suitability of school buildings for use 10 or 20 years hence."

Hospital committee

The hospital and health committee of the council, meeting at Yosemite, recommended that an architect be appointed to serve on the advisory committee of the State Hospital Board which is responsible for approving hospital design plans.

The council also voted its formal disapproval of "secrecy" involved in a proposed reorganization of the State Department of Professional and Vocational Standards.

The department, council members said, is planning to put all state design and construction licensing agencies into one of five proposed new divisions of the department.

Melton Ferris, executive director of the council, explained that public groups and the public itself have not had the opportunity to see the proposed plan and review its merits.

"Even if the plan itself is good," Ferris explained, "the secrecy with which it is being handled is abhorrent and wrong."

The board of directors, at its final session Saturday morning at Yosemite Lodge, approved a resolution urging the Governor to make the plan available for public study and to hold off any official action until organizations affected have had a chance to study the proposal.

Home builders

Home builders are "pricing themselves right out of the market," in the opinion of Joseph L. Eichler, president of Eichler Homes, Palo Alto.

"The rising costs of production," Eichler told the architects at Yosemite, "are placing new homes beyond the reach of the middle income groups."

He put much of the blame for these increased costs on unnecessary and stringent regulations of existing government agencies in the home building field, along with the shortage of financing.

Architects and home builders alike, Eichler said, have failed to keep pace with advances made in other industries and many builders who formerly built large numbers of homes are now turning to other phases of business, such as land development.

The only major advancements in home building, he declared, have been the standardization of components, organization of crews to handle single operations, precutting and large-scale purchasing.

"With the exception of these major changes the actual technique of building a home is pretty much the same today as it was a hundred years ago."

The homes of the future, predicted Eichler who has made a national reputation for his building of architect-designed contemporary style houses, will be built of materials and with techniques not known or used at present.

He also declared that planning commissions are "not trained or qualified to meet the problems of mass home building. Along with this, many building codes are archaic and actually harmful to sound, modern design and building practices."

The lowest priced Eichler-built home today, the Palo Alto developer explained, now sells at $20,000 "and it is becoming more and more difficult due to government interference to qualify buyers.

"A house that sold for $10,000 a year or a year and a half ago, today must bring $13 to $14,000 and in the San Francisco Bay area the price is averaging closer to $14,500.

"Present FHA requirements and

VA procedures definitely are tending to slow down construction and add appreciably to the cost of construction. Many of these requirements add nothing to the beauty or the soundness or the value of the home and many simply reflect the pressures of special interest groups."

Eichler warned that because the home building industry has been "pushed into a position where it will be difficult for it to supply homes for the middle income group" public housing may become the only solution.

Eichler listed the following as the factors involved in today's high cost of new homes:

1. **The cost of just doing business.**
2. **Sales costs.**
3. **Land costs.**
4. **Merchandising costs.**
5. **Financing costs (including the cost of financing the actual construction as well as financing buyers who want to purchase the house).**

Licensing

In a report presented to the AIA convention at Yosemite, the California State Board of Architectural Examiners, which met concurrently with the architects, revealed the growth of architecture in California by presenting a set of statistics hitherto not disclosed.

Since the start of regulating architectural practice by law in 1901, the board reported, the total of 253 architects licensed by January 1902 has increased to a present 2,575.

"This current total," declared C. J. Paderewski, AIA, San Diego board president, "represents approximately 14% of all the architects registered to practice in the United States. The number of architects has steadily increased with the exception only of the war years."

"The rate of increase in the number of licentiates and the number of applicants," Paderewski said, "indicates a definite surge upward in the past year."

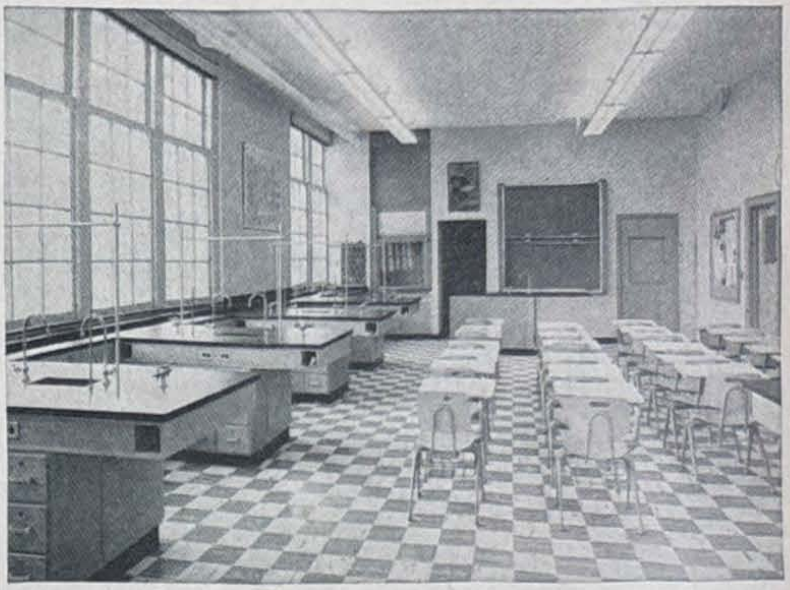
A total of 692 candidates took the examination in June this year, as compared with 157 in June of 1946, and a total of 2,533 separate sections of the examination were taken in 1956 as compared to 777 in 1946.

The board, which consists of Paderewski, Malcolm Reynolds, Earl Heitschmidt and Wendell R. Spackman, also reported that 201 candidates have been certified to practice architecture in California since October 1955. Of the candidates eligible and qualified to take the entire examination, 25.3% passed in the December 1955 examination and 24.4% passed the examination this past June, while 45.6% passed the individual examination sections in December 1955 and 37.2% in June.

The board also reported on new policies and indicated that renewal

PLANNING
makes the difference





in Kewaunee Educational Furniture for
SCIENCE, ARTS & CRAFTS, HOMEMAKING LABORATORIES

From first to last—from the initial design of every unit to its final installation—*planning* makes the difference in Kewaunee Educational Equipment.

Based on a half century of experience in the educational field, each Kewaunee unit and complete floor layout is *planned* for maximum classroom efficiency, maximum flexibility, long life and low cost per year of service.

Whatever *your* educational equipment needs may be—for science, arts and crafts, or homemaking laboratories—consult Kewaunee. Our *planning* services are yours for the asking, without cost or obligation.

TO SERVE YOU BETTER!

Kewaunee Manufacturing Company is pleased to announce that sales and service of Kewaunee equipment in the entire state of California will now be handled *exclusively* by

TWO DIRECT FACTORY OFFICES

SAN FRANCISCO AREA
Kewaunee Mfg. Company
2442 Park Boulevard
Palo Alto, California
Tel: Davenport 2-4790

LOS ANGELES AREA
Kewaunee Mfg. Company
1270 Temple Terrace
Laguna Beach, California
Tel: Hyatt 4-7110

A call or letter to either office will start the complete Kewaunee planning, engineering and installation service to work for you on your laboratory requirements.



FREE PLANNING AIDS. 44-page Educational Laboratory Equipment Catalog; 48-page Planning Manual. Write for copies.

Kewaunee

KEWAUNEE MFG. COMPANY
5124 S. Center St., Adrian, Michigan

notification cards have been revised and that the board now reviews partnership applications from architects and non-licensed applicants as to form of letterhead and partnership name.

The board has adopted a new rule in which any candidate for licensing who fails to appear for three consecutive examination periods will be required to file a new application and have his past examination record abandoned.

Spackman was introduced as the newest board member, appointed recently by Gov. Goodwin J. Knight to fill the vacancy due to the resignation of Norman Blanchard. The vacancy created by the resignation of U. F. Rible has not yet been filled.

Annual banquet

Leon Chatelain Jr. of Washington, D. C., national AIA president flew to the Yosemite meeting to participate with council president John Lyon Reid at the annual banquet honoring past presidents of the council.

The occasion also was utilized for presentation of the AIA's Citation of Honor to Miss Pearl Chase, chairman, and the plans and planning committee of the Community Art Association of Santa Barbara for their work in helping to promote good design in that southern California community.

Architects help design first push-button surgery suite

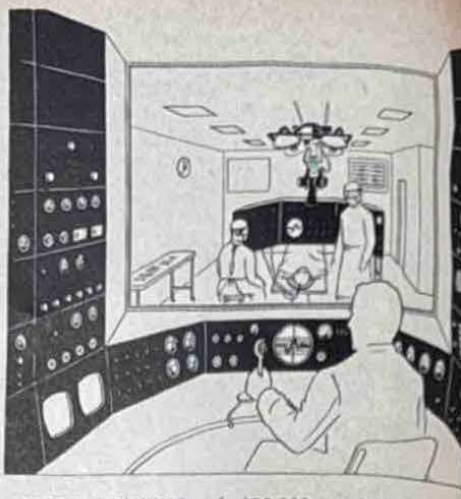
One of the most unique hospital operating rooms in the world has been completed in San Francisco where brain surgery will be performed in an atmosphere typical of the futuristic dreams of an avid science-fiction fan.

Mount Zion Hospital becomes the first institution anywhere for use of radically new push-button procedures in what amounts to brain surgery by mathematics.

The elaborate operating room of the future has been designed for Mount Zion's Neurosurgical Institute for the Study of Human Physiology and recently perfected "stereotaxic" operating techniques will be used by institute surgeons for exploring and treating the brain's deep recesses.

The technique was developed largely by research experts in Sweden and utilizes an intricate aiming device which, after proper mathematical measurements have been fed into it, permit the surgeon to insert a needle or an electrode deep into the brain with every assurance that the needle will "land right on the target."

Planned and designed by Skidmore, Owings & Merrill, hospital architects and a team of physicians, surgeons, physicists, biologists and electronics engineers, the neurosurgery suite is a mass of electronically controlled equipment.



ARTIST'S DRAWING of $75,000 push-button surgery suite planned at Mount Zion Hospital.

The procedure is so painless that it can be conducted under a local anesthetic, with the patient remaining conscious at all times and, in many of the operations, actually capable by his or her own comment of helping the surgeon.

The technique provides a revolutionary new method for studying and treating some types of cancer, certain psychotic and psychoneurotic conditions, intractable pain, cerebral palsy, hypertension and nervous and muscular disorders.

The stereotaxic technique requires the use of extremely sensitive electronic equipment which records the minute electrical variations which emanate from the brain. Therefore the entire operating suite is electrostatically shielded with a copper screen imbedded in the walls which seal it off from the rest of the hospital.

The walls, floor and ceiling are completely lined with lead to permit the use of radiant energy without penetration to other rooms. And the entire area is as nearly germ-proof, dust-proof and explosion-proof as it is humanly possible to achieve.

A movable, sterile, control panel in the operating room will enable the surgeons to manipulate their various instruments such as the electronic stimulator, high-frequency diathermy unit, ultra-sonic microwave apparatus and a variety of recording devices.

A television camera will be nested in a battery of special lights mounted on a movable carriage above the operating table. Close-up, normal and wide-view TV shots will be possible and showings of stereotaxic operations may be viewed and heard on a two way inter-communication system in Mount Zion's auditorium.

Immediately adjacent to the operating suite, in a control booth, an electronics engineer will be on duty during all operations. He will manipulate a complete set of control panels duplicating those within the operating room.



architect:
Wohleb & Wohleb & Assoc.

contractor:
STRAND & SON

mason contractor:
KENNETH GEORGE

Attractive Olympia Memorial Clinic *features*

Chehalis Red Roman Brick

The warm, pleasing texture of Chehalis Red Romans—the Pacific Northwest's most distinctive brick—was selected by the architect to distinguish this modern clinic building in Olympia.

Here is functional design at its eye-appealing best—permanent, practical, fire-safe . . . and economical to build and maintain! Only brick—and preferably CHEHALIS BRICK—combines all these advantages so well.

SCPI

CHEHALIS BRICK and TILE Co.

BOX 868, CHEHALIS, WASHINGTON

Construction News Bulletin

Vol. 62—No. 24 (PA&B) News Section of Pacific Architect and Builder November 17, 1956

D. F. McCormick.....News Editor
G. M. Westman.....News Staff
Win Romtvedt.....Portland News Manager
S. S. Phillips.....News Staff

Newsroom • 2418 Third Avenue, Seattle 1, Washington • Phone MAin 0285

BUILDING NEWS

Washington, Oregon, Idaho, Montana, Wyoming, Utah, Alaska

- ● Bids Called
- ★ Contract Awards
- ▲ Low Bids—Bids Received
- ■ Planholders—Prospective Bidders

OREGON

●BUILDING ALTERATIONS—Astoria, Ore.

Bids to be opened 2 p. m., November 20, by U. S. Naval Station, Public Works Office, Tongue Point, Astoria, for altering barracks building No. 7, at the U. S. Naval Station, Tongue Point, Astoria, Ore.; Spec. No. 1938-56. Plans with Public Works Office. GC 11-13

MUNICIPAL BUILDING— Beaverton, Ore.
(Approximate cost $250,000)

Working drawings starting by James C. Gardiner, architect, 3158 S.W. 87th Ave., Portland, for new municipal building for City of Beaverton. Bids to be called early in 1957 by City, Al Rossi, mayor, Beaverton. Combination fire station, library, police building and city hall. Reinforced concrete and window wall construction.
WB 11-14. Previous report 11-10

★CHURCH— Condon, Ore.

Contract negotiated with low bidder, McCormack Construction Co., S.E. 3rd Ave. and Goodwin, Pendleton, by Community Congregational Church, Bruce Mercer, building chairman, Condon, for new church. Plans by Williams and Martin, architects, 1919 S.W. 12th Ave., Portland.
WB 11-14. Previous report 9-18

★FRATERNITY HOUSE— Corvallis, Ore.

Award to John Carrick & Son, Route 3, Box 950, Albany, $117,167, by Delta Tau Omega Fraternity, c/o Chris Jeppson, architect, Benton Hotel, Corvallis, for construction of a new fraternity house to be located at 23rd and Taylor Streets in Corvallis. Bids opened October 23.
SP 11-9. Previous report 10-19

●OFFICE, STORAGE SHED, FACILITIES— Cougar Reservoir, Ore.

Bid opening extended from November 14 to 2 p. m., November 21, by Corps of Engineers, Portland District, 628 Pittock Block, Portland, for construction of a project engineer office building, storage shed, pumping plant and appurtenant facilities at Cougar Reservoir, South Fork McKenzie River, 4.4 mi. above the mouth of that stream and 7 mi. upstream from Blue River, Lane County, Ore.; CIVENG-35-026-57-104. Plans with district engineer, above address. Bid bond 20%.

Additional planholders: Mann Construction Co., P. O. Box 577, Redmond; Pacific Pumping Co., 526 N.W. Broadway, Portland; Johnston Pump Co., P. O. Bin K, Pasadena; Soule Steel, 2360 N.W. St. Helens Road, Portland; Wayne Construction Co., 3810 Stone Way, Seattle; Schuyler Southwell, Inc., 811 Main St., Milwaukie; Eugene Builders Exchange, 145 E. 29th St., Eugene; Chase Co., 1255 Railroad Blvd., Eugene; Armco Drainage & Metal Products, 1320 S.W. Broadway, Portland; Robert L. Diller, 636 Western Drive, Eugene; Trowbridge Electric Co., 622 S.E. Jackson, Roseburg; Fairbanks, Morse, 105 S.E. Taylor, Portland; Ken Ward, 5120 S.E. Milwaukie Ave., Portland; Hallidie Machinery Co., 1915 N.E. Union Ave., Portland; Gale M. Roberts, 338 11th Ave. W., Eugene; George Balsiger Logging, Blue River, Ore.; Henry G. Stach, P. O. Box 423, Oakridge; M. R. Holst Construction, Box 171, Oakridge. WB 11-9. Preivous report 11-2

★COMFORT STATIONS—Crater Lake, Ore.

Award to Ausland Construction Co., Box 437, Grants Pass, $20,980, by Superintendent, Crater Lake National Park, Crater Lake, for construction of comfort station at the Annie Springs Camp Ground at Crater Lake.
SP 11-9. Previous report 11-6

J. C. PENNEY STORE— Eugene, Ore.
(Estimated cost $400,000)

Construction underway by Wayne Shields Construction Co., 252 Taylor, Eugene, for a fifth story addition and conversion of oresent mezzanine to a new second floor for the J. C. Penney store in Eugene, for J. C. Penney Co., Calvin Smith, manager, Broadway and Willamette, Eugene. Plans by Percy Bentley, architect, U. S. National Bank Bldg., Eugene.
DW 11-13. Previous report 10-19

●SALES, WAREHOUSE BUILDING— Eugene, Ore.

Bids will be opened 2 p. m., November 21, in the office of the architect, by V. L. Iverson, owner, 2780 W. 11th Ave., Eugene, for construction of a new Iverson paint sales and warehouse building to be located at 2780 W. 11th Ave. in Eugene. Plans with Balzhiser & Seder, architects, 1920 Franklin Blvd., Eugene.

One-story and mezzanine; 4,400 sq. ft. (ground area), 1,260 sq. ft. (mezzanine); steel construction; concrete floor; tilt-up concrete walls; built-up roofing; some masonry and brick; plastic glazing; asphalt tile flooring in office areas; wood paneling; overhead garage door; metal covered doors; rigid insulation in ceiling; oil-fired hot water heating system in floors. DW 11-14

●BUILDING ALTERATIONS— Grants Pass, Ore.

Bids to be opened 2 p. m., November 21, by Corps of Engineers, Seattle District, 4735 E. Marginal Way, Seattle, for alterations to the U.S.A.R. facility, 989 Highway 99 S., Grants Pass, Ore.; ENG-45-108-57-75. Plans with district engineer, above address. Bid bond 20%. GW 11-10

GRADE SCHOOL— Hermiston, Ore.

Bond issue for $550,000 approved by Hermiston School District No. 14, Umatilla County, Hermiston, for new grade school and expansion of another grade school. Preliminary plans complete by Annand, Boone & Lei, architects, 1530 S.W. Taylor St., Portland. Eastside Grade School will be located northeast of the Sandstone School on property bounded by E. 3rd, E. 4th, Wilshire and Catherine streets in east Hermiston. One-story, 20-classroom structure, include multi-purpose room. Addition of four rooms to West Park School. Reinforced concrete construction for both schools.
WB 11-10. Previous report 10-6

▲BUILDING ALTERATIONS— Hillsboro, Ore.

Bids received by Corps of Engineers, Seattle District, 4735 E. Marginal Way, Seattle, for alterations to U.S.A.R. Facility building at 115 W. Main, Hillsboro, Ore.; ENG-45-108-57-38. LOW BIDS: Charles S. Camplan, 2035 S.W. 58th, Portland, $2,399; A. R. John Construction Co., 8228 S.E. 17th, Portland, $3,247; Latham & Platt Builders, 5030 N.E. Hoyt, Portland, $3,337. Engineer's estimate $3,871. Bids opened November 9.
GW 11-13. Previous report 10-16

▲OFFICE BUILDING, STORAGE AND SHED FACILITIES— Hills Creek Reservoir, Ore.

Bids received by Corps of Engineers, Portland District, 628 Pittock Block, Portland, for construction of a project engineer's office building, storage shed, pumping plant and appurtenant facilities at Hills Creek Reservoir, Middle Fork, Willamette River Basin, Ore.; CIVENG-35-026-57-95. BIDDERS: Cascade Contractors, P. O. Box 774, Eugene, $58,888; M. R. Holst, Box 171, Oakridge, $71,560; Louis Neuman, 2460 State St., Salem, $72,501; Harmon Industrial Salvage, Inc., and Henry G. Stach, Box 423, Oakridge, $75,926. Government estimate, $61,289. Bids opened November 7. WB 11-9. Previous report 10-31

●HIGH SCHOOL ADDITION—
Klamath Falls, Ore.

Bids will be opened 7:30 p.m., December 18, by Harold Ashley, clerk, Klamath Union High School District No. 2, room 200, Klamath Union High School, Klamath Falls, for construction of a two-story classroom addition, including large cafeteria and kitchen, stage and dressing rooms for future auditorium, science suite, and instrumental and vocal music facilities, for Klamath Union High School at Montclaire and Cross Streets in Klamath Falls. Plans with Howard R. Perrin, architect, 1121 Main St., Klamath Falls. Certified check or bid bond 5%. Completion expected late in 1957.

Two-story; 32,130 sq. ft.; no basement; reinforced concrete footings and foundation; concrete slab-on-grade; glued laminated beams and wood joists; wood deck; wood sheeting for second story floor; built-up roofing; wood partitions; concrete stairway; aluminum windows; concrete pilasters; insulation in walls and ceilings; concrete walls with brick veneer; asbestos board insulated panels and aluminum sash; gypsum and wood lath interior walls; aluminum curtain walls; wood frame partitions; linoleum, asphalt tile, vinyl tile and ceramic tile flooring; ceilings partly plaster on joists and partly radiation and partly warm air; mechanical ventilation with ducts and unit outlets. Contract will include wrecking and removal of the old County Library building now on the site.

ZZ 11-13. Previous report 8-24

PHYSICAL EDUCATION BUILDING—
LaGrande, Ore.
(Estimated cost $630,000)

Preliminary plans approved by Oregon State Board of Higher Education, Dr. John Richards, chancellor, Johnson Hall, Eugene, for physical education building at Eastern Oregon College of Education, LaGrande. Includes about 33,477 sq. ft. Plans by Freeman, Hayslip, Tuft & Hewlett, architects, 2040 S.W. 3rd Ave., Portland. Building has fourth priority in building program of the board to be presented to 1957 legislature.

WB 11-9. Previous report 9-15

DORMITORY— LaGrande, Ore.
(Estimated cost $508,000)

Revised preliminary plans approved by Oregon State Board of Higher Education, Dr. John Richards, chancellor, Johnson Hall, Eugene, for dormitory at Eastern Oregon College of Education, LaGrande. Plans by Freeman, Hayslip, Tuft & Hewlett, architects, 2040 S.W. 3rd Ave., Portland. Approximately 26,000 sq. ft. structure to be financed by sale of bonds. Construction expected to start early summer, 1957.

WB 11-9

CENTRAL HEATING PLANT—
LaGrande, Ore.
(Estimated cost $220,000)

Preliminary plans approved by Oregon State Board of Higher Education, Dr. John Richards, chancellor, Johnson Hall, Eugene, for central heating plant at Eastern Oregon College of Education, LaGrande. Plans by W. Bruce Morrison, consulting engineer, Cascade Bldg., Portland. Plant is among utility and service buildings having top priority in building program of the board to be presented to 1957 legislature.

WB 11-9. Previous report 9-15

SCHOOL ADDITION— Lakeview, Ore.

Bids rejected by Lake County School District No. 41, Lakeview, for construction of a two-classroom addition to Vernon Grade School, five miles west of Lakeview. Plans by Morrison & Howard, architects, Williams Bldg., Klamath Falls.

ZZ 11-10. Previous report 10-31

★SIDING HANGARS— Madras, Ore.

Award announced by Joseph M. Palin, city recorder, City Hall, Madras, for siding hangars at the City-County Airport at Madras. AWARD: Quality Roofing Co., S. Geary, Albany, no amount given. SC 11-13

★BUILDING ALTERATIONS—
Medford, Ore.

Award to Stanley Parrish, Goldy Bldg., Medford, $1,190, by General Services Administration, room 126, Federal Office Bldg., Seattle, Wash.; for alterations to the Social Security space of the Federal Office Bldg., Medford; Project No. CR-10-585.

GW 11-9. Previous report 11-1

★GIRLS' COMMUNITY CLUB—
Medford, Ore.

Award to Myers Jones, 813 Minnesota Ave., Medford, $153,500, by Girls' Community Club of Medford, for construction of a new building to be located at 229 N. Bartlett St. in Medford. Plans by Robert J. Keeney, architects, 32 N. Central Ave., Medford. SP 11-9. Previous report 11-1

▲ELEMENTARY SCHOOL—
Milton-Freewater, Ore.

Bids received by Umatilla County School District No. 531C, Milton-Freewater, for construction of the Grove elementary school at Milton-Freewater. Plans by H. Brandt Gessel, architect, 214 E. Birch, Walla Walla. Bids opened November 5. LOW BIDS: Henry E. Gross, 948 Boyer, Walla Walla, $133,339; Bechtel Bros., Box 792, La Grande, $139,998; H. L. Warner, Milton-Freewater, $141,440.

SC 11-9. Previous report 10-31

STUDENT CENTER ADDITION—
Monmouth, Ore.
(Estimated cost $75,000-$100,000)

Annand, Boone & Lei, architects, 1530 S.W. Taylor St., Portland, retained by Oregon State Board of Higher Education, Dr. John Richards, chancellor, Johnson Hall, Eugene, for preliminary plans for addition to student center building at Oregon College of Education, Monmouth. Project to be financed by sale of bonds. WB 11-9

GENERAL ARTS BUILDING—
Monmouth, Ore.
(Estimated cost $330,000)

Annand, Boone & Lei, architects, 1530 S.W. Taylor St., Portland, retained by Oregon State Board of Higher Education, Dr. John Richards, chancellor, Johnson Hall, Eugene, for preliminary plans for general arts building at Oregon College of Education, Monmouth. Building has eighth priority in building program of the board to be presented to 1957 legislature.

WB 11-9. Previous report 9-15

HOSPITAL— North Bend, Ore.

The Department of Health, Education and Welfare has approved a $46,400 grant to help finance an expansion program at the Keizer Memorial Hospital at North Bend. Final plans are being examined by the Public Health Service in San Francisco, Calif., and it is hoped that approval will be received in time for an early December bid call. Project includes a new surgical department which will be a second-story addition on a one-story wing completed last year. The addition will connect directly with the second floor of the present hospital. Concrete block walls; concrete floors; open web steel joist roof construction; steel studs on interior partitions; plaster interior walls and ceilings; conductive mosaic tile flooring; glazed ceramic tile wall finish. SC 11-10

●PARISH BUILDINGS— Oswego, Ore.

Bids to be opened 2 p.m., November 20, by the Sisters of St. Francis, Mother Mary Agnes, Provincial, Convent of Our Lady of Angels, 0858 S.W. Palatine Hill Road, Oswego, for construction of four parish buildings; chapel, refectory, gymnasium and chaplain's residence, in Oswego. Plans with John W. Maloney, architect, Central Bldg., Seattle, Wash. Private bid opening.

One-story; the construction of all four buildings will be reinforced concrete, with brick veneer, and some Indian limestone exterior finishes; refectory, residence and chapel will have steel joists with concrete roof slab; gymnasium will have frame roof with built-up roofing; cloisters will have draft tile floors, but most of the interior floors will be terrazzo tile; interior wall and ceilings to be plaster, but there will be marble in the chapel; oil fired heating system, with gas burning equipment in the kitchen. Work will be on a single contract.

GW 11-9

★BOILER PLANT MODIFICATION—
Portland, Ore.

Award to Industrial Plumbing and Heating Co., 2838 N.E. Columbia Blvd., Portland, $1,589, by 13th Naval District, Public Works Office, room 100, Building 232, U.S. Naval Station, Seattle, for modification of boiler plant at the U.S. Naval and Marine Corps Reserve Training Center, Portland; NBy-6577; Spec. No. 6577/56.

GW 11-9. Previous report 10-23

★POST OFFICE ALTERATIONS—
Portland, Ore.

Award to Kenbilt, Inc., (Charles S. Camplan), 2035 S.W. 58th, Portland, $4,535, by General Services Administration, room 128, Federal Office Bldg., Seattle, Wash., for fourth and fifth floor alterations to the U.S. Post Office Bldg., Broadway and Glisan, Portland; Project No. CR-10-567.

GW 11-9. Previous report 11-2

RECREATIONAL CENTER— Portland, Ore.
(Estimated cost $8,000,000)

Measure to place Exposition - Recreation Center partly in Public Auditorium and partly in Delta Park area has been defeated by voters of Portland. Another measure to repeal the restriction approved last May to limit the center to the east side and restore original powers to the E-R commission was also defeated. This means that the center must be built on the east side, and it is thought that the courts will have to determine if the May measure deprived the commission of its authority. WB 11-10

PARKING FACILITIES— Portland, Ore.

Measure defeated for City, Fred L. Peterson, mayor, City Hall, Portland, to set up a City Parking Commission with authority to locate and construct parking facilities.

WB 11-10. Previous report 8-17

★FIRE STATION ADDITION—
Portland, Ore.

Award by Multnomah County Rural Fire Protection District No. 22, 4835 N.E. 106th Ave., Portland, for additions and alterations to the fire station. Plans by Royal H. Chapple, architect, 433 N.E. 22nd Ave., Portland. AWARD: Sergeant Construction Co., 10104 S.E. Ankeny St., $58,903 (basic bid; some alternates may be added in next 60 days). OTHER BIDS: Weston Construction Co., 7415 N.E. Glisan St., $61,878; C. M. Corkum Co., 2630 S.W. 2nd Ave., $61,984; Beebe Construction Co., 2134 N. Flint Ave., $62,337; Heigele Home Construction, 4034 N.E. 18th Ave., $62,996; S & D Construction Co., 4930 S.E. Reedway, $64,976; Blanchard Construction Co., 2547 S.W. Vista Ave., $65,900; Simonton & Steele, 3805 S.W. Garden Home Road, $67,678; Contractors, Inc., 1101 N.E. 21st Ave. Of Portland. Bids opened November 7. WB 11-10. Previous report 10-31

★TELEPHONE OFFICE ADDITION—
Portland, Ore.

Award by Pacific Telephone & Telegraph Co., Charles Twelves, chief engineer, 406 Lincoln Bldg., Portland, for construction of an addition to the PRospect central office located at 5051 S.E. 71st Ave., Portland. Plans by Church, Newberry & Roehr, architects, Builders Exchange Bldg., Portland. AWARD: Contractors, Inc., 1101 N.E. 21st Ave., $94,530. OTHER BIDS: Sergeant Construction Co., 10104 S.E. Ankeny St., $98,217; Robertson, Hay & Wallace, 1801 S.E. Grand Ave., $102,800; Henry M. Mason, 2206 N.W. Thurman St., $104,867; Smith-Phillips Co., 7402 S.W. Macadam Ave., $107,113; Sterner Construction Co., 13845 S.E. Rhine St., $111,210. Of Portland. Bids opened November 7.

WB 11-10. Previous report 11-1

▲LAUNDRY EXTRACTOR— Portland, Ore.

No bids received November 8 by Multnomah County Commissioners, John W. West, purchasing agent, 504 Courthouse, Portland, for furnishing one 30" stainless steel laundry extractor for Multnomah County Home, Troutdale.

WB 11-10. Previous report 10-26

●ADDITIONAL POWER SERVICE—
Portland, Ore.

Bids to be opened 2 p.m., December 10, by Corps of Engineers, Seattle District, 4735

E. Marginal Way, Seattle, for construction of additional power service, A.C.&W. building, at the Portland International Airport, Ore.; ENG-45-107-57-66. Plans with district engineer, above address. Bid bond 20%.
GW 11-13

THREE-PLEX— Portland, Ore.
(Approximately $44,000)
Construction starting by Vincent Raschio, 7231 S.E. Clay St., Portland, for three-plex at S.E. 52nd Ave. and Ankeny St., for Mr. and Mrs. J. B. Hermanek, 2337 N.E. Everett St. Plans by Gordon Kee Cochran, 1962 N.W. Kearney St., Portland.
Two units to be occupied by owners, and two rented; each includes large living room, dining room, kitchen, two bedrooms, bath and full basement; family room in owner's unit; private terrace with each unit; frame construction; single and built-up roof; gypsum board and mahogany paneling interior finish; mahogany cabinet work; hardwood floors, except vinyl plastic flooring in kitchens and baths; individual oil furnace with perimeter hot air heating system; fireplace in each unit.
WB 11-14

OFFICE-WAREHOUSE— Portland, Ore.
(Approximate cost, $50,000)
Construction under way by Monson & Sivers Co., 5000 S.E. 25th Ave., Portland, for warehouse and office building for Rosenfelt Investment Co., 2470 N.W. Nicolai St., Portland. Building to be leased to Neptune Meter Co., 1238 N.W. Glisan St. Plans by Gordon Cochran, architect, 1962 N.W. Kearney St., Portland.
One-story, 5,000 sq. ft. structure, including office, shop and warehouse space; 5,000 sq. ft. paved parking area. Tilt-up concrete construction; glued laminated roof beams, cantilivered to make covered approach at front; wood joists and deck, and built-up roofing; office area finished with sheet rock, acoustical ceilings and asphalt tile; gas-fired warm air heating.
WB 11-14

SCHOOLS— Salem, Ore.
(Estimated cost $300,000)
Plans announced by Salem School District No. 24J, Charles D. Schmidt, superintendent, 1309 Ferry, Salem, construction of additions to four schools in the Salem area. School additions would include four classrooms at Liberty, two classrooms and a multipurpose room at Salem Heights, four classrooms at McKinley and completion of two rooms at Morningside.
SC 11-14

●SCHOOLS— Salem, Ore.
Correction. Bid opening extended from November 19 to 4:30 p.m., November 23, by Salem School District No. 24J, Marion County, Charles Schmidt, superintendent, 1309 Ferry, Salem, for construction of Judson junior high school on Jones Road near the intersection of 12th St. with Highway 99E, Salem Height-Liberty area, and construction of the Waldo junior high scrool on Lansing Ave., adjoining Washington grade school in Salem. Plans with William I. Williams, architect, 1390 N. Capitol, Salem. It was inadvertently stated in PCD 11-6 that the bid extension was for the Waldo school only, not including the Judson school.
SC 11-14. Previous report 11-6

SCHOOL— Springfield, Ore.
(Estimated cost $578,000)
Final plans and specifications will be complete sometime in December for construction of a new junior high school adjacent to Moffitt Elementary School at 5th and L Streets in Springfield, for Springfield School District No. 19, Harold Beall, superintendent, 1030 G St., Springfield. Plans by Wilmsen & Endicott, architects, 863 E. 13th Ave., Eugene.
DW 11-9. Previous report 8-30

CITY HALL REMODELING— Springfield, Ore.
Bond issue for $160,000 defeated in November 6 election held by City Council, City Hall, Springfield. Bond issue would have financed remodeling the city hall at 344 A St. in Springfield.
DW 11-14. Previous report 9-28

WASHINGTON

●JUNIOR HIGH SCHOOL— Auburn, Wash.
Bids to be opened 8 p.m., November 27, by Auburn School District No. 408, King County, Rolland Upton, superintendent, 9420 S. 240th Place, Auburn, for construction of a junior high school in Auburn. Plans with Jones, Lovegren, Helms & Jones, architects, 706 Republic Bldg., Seattle. $25 deposit. Certified check, cashier's check or bid bond 5%.
Project involves six one-story buildings consisting of two six-classroom structures; administration-library building; gymnasium, kitchen, cafeteria building; home economics, arts and crafts, shop building; boiler room structure. Total area will be 46,000 sq. ft. Covered walkways will connect the buildings. Plans provide for future expansion of classrooms and gymnasium. Structural components and finishes: wood frame, concrete slab floor, brick veneer end walls, glass sidewalls, built-up roofing with batt insulation, glued laminated beams and columns; aluminum sash; plasterboard interior wall finish, asphalt tile flooring with ceramic tile over glazed block in toilets and showers; acoustical tile ceilings, wood doors, chalk and tack boards, built-in wood cabinets, oil fired hot water heating system with two boilers. Mechanical, electrical engineer is Erwin L. Weber, Medical Arts Bldg., Seattle; structural engineer, Peter Hostmark, Mayberg & Associates, Lloyd Bldg., Seattle.
GW 11-9. Previous report 9-11

SWIMMING POOL— Auburn, Wash.
Bond issue for $150,000 approved in November 6 election held by City Council, City Hall, Auburn, to finance construction of a swimming pool in Auburn.
SC 11-10

▲HIGHLAND JUNIOR HIGH SCHOOL— Bellevue, Wash.
General and electrical bids received by Bellevue School District No. 405, King County, George B. Brain, superintendent, Box 67, Bellevue, in the office of Naramore, Bain, Brady & Johanson, architects and engineers, 904 7th Ave., Seattle. LOW BIDS—GENERAL: J. C. Boespflug Construction Co., 1912 4th Ave. S., Seattle, $578,585; Dahlgren Construction Co., 1700 21st Ave., Seattle, $604,103; Leavitt, Chandler & Co., Box 6, Bellevue, $605,500. ELECTRICAL: Ewing Electric Co., Box 885, Edmonds, $83,369; Donald W. Close Co., 2921 13th Ave. S.W., Seattle, $84,500; Larsen Electric Co., 2306 4th Ave., Seattle, $86,679. This is a rebid of the general and electrical work on this project. Bids opened November 8.
GW 11-10. Previous report 10-27

SCHOOL CONSTRUCTION—Bellevue, Wash.
Bond issue for $1,950,000 approved in November 6 election held by Bellevue School District No. 405, Box 67, Bellevue, for school construction in the district.
SC 11-9

SCHOOLS— Bellingham, Wash.
Bond issue for $700,000 approved in November 6 election held by Bellingham School District No. 501, Gordon Carter, superintendent, Roeder School, Bellingham, to finance construction work at five schools in the district.
SC 11-13. Previous report 7-18

■INGLEWOOD SCHOOL— Bothell, Wash.
Planholders announced for the construction of the Inglewood Elementary School at Arrowhead, Bothell. Bids will be opened 8 p.m., November 20, by Bothell School District No. 46, King County, Julina Karp, superintendent, Box 128, Bothell. Plans with Ralph Burkhard, architect, 2120 S.W. 152nd, Seattle. $25 deposit. Certified check, cashier's check or bid bond 5%.
Planholders — GENERAL: Brazier Construction Co., 309 Pontius; Brady Construction Co., 707 Spokane; McDonald-Swanson, 17003 Bothell Way; Leavitt-Chandler & Co., Box 6, Bellevue; R. C. James & Son, Ditty Bldg., Bellevue. MECHANICAL: W. A. Botting, 5625 University Way; West Coast Heating and Plumbing Co., 4125 9th Ave. N.W.; University Plumbing and Heating Co., 3941 University; Navarre Plumbing and Heating Co., 3839 Stone Way; Wenzler & Ward, Plumbing and Heating Co., 2109 Western Ave.; Percy Thorn Plumbing and Heating Co., 7212 Greenwood; George H. Lucken Plumbing and Heating Co., 922 Leary Way. ELECTRICAL: Industrial Electric Co., 1828 Yale Ave.; Lindberg Electric Co., 4600 Leary Way; City Electric and Fixture Co., 433 8th Ave. N.; Holert Electric Co., 2300 W. Spokane. All of Seattle unless otherwise stated.
GW 11-10. Previous report 10-31

SWIMMING POOL— Brewster, Wash.
Bond issue for $56,000 approved in November 6 election for construction of a new city swimming pool.
SC 11-14

SWIMMING POOL, CITY HALL— Chehalis, Wash.
Bond issues approved in November 6 election held by City Council, City Hall, Chehalis, for the following: construction

For Permanent Insulation that Saves TWO Ways
-- Specify New REFLECTIVE Kimsul

The only insulation which gives both heat-barrier and vapor-barrier savings is the new reflective type Kimsul. Kimsul's aluminum foil backing stops heat loss. Kimsul is a permanent, fire-resistant installation, applied easily and at low cost to walls, floors, attics. Prefabricated in standard sizes, will not sift or settle.

PIONEER SAND & GRAVEL CO.

901 FAIRVIEW AVE. N. • 910 W. SPOKANE ST. • SEATTLE • MAin 2900

of a municipal swimming pool, $125,000; city hall construction, $125,000. SC 11-13

★KITCHEN REMODELING—Chehalis, Wash.

Award to C. S. Seines Construction Co., Box 537, Chehalis, $18,834 (base bid) and $3,520 (alt. 1), by Director, Department of Institutions, Olympia, for remodeling the kitchen at the Green Hill School in Chehalis. DE 11-13. Previous report 10-4

HOTEL— Colfax, Wash.

(Estimated cost $225,000)

Preliminary plans underway by George M. Rasque & Son, architects, Washington Trust Bldg., Spokane, for the Colfax Hotel which will replace the one razed by fire early in October. According to S. H. Butler, owner, a two-story building with hotel rooms on the second floor may be constructed. Local money is now available for the construction if the cost is reasonable. If the building is constructed as mentioned above, the first floor would contain coffee shop, dining room-cocktail lounge and a small shop or two offices. Concrete construction; cement exterior; 90'x70'; concrete floors; concrete roofing; hot water heating system using boiler that was in the old building; full unfinished basement; possibility of added floor for apartments. Demolition of present building will be completed in 90 days. SP 11-10. Previous report 10-13

SCHOOL CONSTRUCTION— Concrete, Wash

Construction bond issue for $220,000 and $25,900 school bus levy approved in November 6 election held by Concrete School District No. 102, Concrete. SC 11-13

HIGH SCHOOL— Darrington, Wash.

Bond issue for $172,000 approved in November 6 election held by Darrington Consolidated School Distritct No. 330, Harry Edwards, superintendent, Darrington, for construction of a new high school building on a five-acre site adjoining the Community Center land in Darrington. An application for state funds will be made soon. SC 11-14

●RECREATION FACILITY ADDITION— Deep Creek Air Force Station, Wash.

Bid opening extended from December 7 to 2:15 p. m., December 10, by Corps of Engineers, Seattle District, 4735 E. Marginal Way, Seattle, for construction of an addition to the existing multipurpose recreation facility at Deep Creek Air Force Station, Wash.; ENG-45-108-57-70. Plans with district engineer, above address. Bid bond 20%.

Work involves construction of a 23'x102' spectators area and a 26'x50' handball court, to the existing multipurpose building; portland cement concrete floor slabs; concrete masonry walls; wood roof sheathing and built-up roofing; portland cement concrete walks and steps; grading and drainage. GW 11-13. Previous report 11-8

FIRE STATION— Des Moines, Wash.

Bond issue for $60,000 approved in November 6 election held by King County Fire District No. 26, Seattle, to finance construction and equipping of a second fire station. SC 11-10

SCHOOL REPAIR, ADDITIONS— Eatonville, Wash.

Two special levies defeated in November 6 election held by Eatonville School District No. 404, Box 97, Eatonville; a 14-mill, $26,500 levy for furniture, fixtures and repairs and a 6-mill, $26,400 levy for a stage and dressing room addition at Columbia Crest School in Eatonville. SC 11-10

STUD MILL FIRE— Eatonville, Wash.

A $250,000 fire has destroyed the Malcom-Park Lumber Co. in Eatonville, according to Barney Malcom and Donald Park, partners in the firm. Any decision to rebuild the 20-man stud mill will depend upon results of a survey of the damage. Machinery in the mill was a total loss. SC 11-10

●LYNNDALE ELEMENTARY SCHOOL— Edmonds, Wash.

Bid opening extended from November 19 to 3 p. m., November 20, by Edmonds School District No. 15, Nelle M. Telfer, secretary, Senior High School, Edmonds, for construction of the 20-classroom Lynndale Elementary School at 191st S.W. and 72nd W., in Edmonds. Plans with Dan Miller, architect, 420 Bell St., Edmonds.

GW 11-14. Previous report 11-3

LIBRARY— Ephrata, Wash.

Bond issue for $86,500 approved in November 6 election to finance construction of a new building in Ephrata. Plans by John I. Matison & Associates, architects and engineers, Lowman Bldg., Seattle.

SC 11-13. Previous report 10-13

SCHOOL— Everett, Wash.

(Estimated cost $126,000)

Bids will be called about December 3 by Everett School District No. 2, O. N. Johnson, secretary, Auditorium Bldg., Everett, for construction of a six-classroom addition to Lowell Elementary School, 5002 View Drive, Everett. Plans by William Arild Johnson & Associates, architects, 3506 Broadway, Everett. SC 11-9. Previous report 1-25

●JUNIOR COLLEGE— Everett, Wash.

(Estimated cost $1,712,211)

Bids will be called December 4 for opening January 14, by Everett School District No. 2, Auditorium Bldg., Everett, for construction of a new junior college to be located on a 24-acre site near 8th St. and Rockefeller Ave. in Everett. Plans with Harold W. Hall & Associates, architects, Commerce Bldg., Everett. HH 11-9. Previous report 3-29

GYMNASIUM, FOOTBALL FIELD, SHOP ADDITION— Enumclaw, Wash.

Two propositions defeated and one approved in November 6 election held by Enumclaw School District No. 216, 2222 Porter St., Enumclaw. Approved was a $70,000 bond issue to finance a farm shop addition. Defeated were a $120,000 levy for a gymnasium and a $20,000 football field levy. SC 11-10

●SCHOOL— Everett, Wash.

(Estimated cost $126,000)

Bids will be opened 2 p. m., December 3, by Everett School District No. 2, O. N. Johnson, secretary, Auditorium Bldg., Everett, for construction of a six-classroom addition to Lowell Elementary School, 5002 View Drive, Everett. Plans with William Arild Johnson & Associates, architects, 3506 Broadway, Everett. $25 (general) and $15 (mechanical, electrical) deposits. Certified check, cashier's check or bid bond 5%.

One-story; 9,142 sq. ft.; concrete footings and foundation; poured concrete, masonry and frame walls; concrete slab floors; timber beams; glued laminated beams; frame partitions; concrete stairways; wood windows; brick and wood exterior wall finish; plaster and wood interior; wood cabinets; blackboards; hot water heating system, unit vents. SC 11-10. Previous report 11-9

▲OFFICERS QUARTERS— Fairchild AFB, Wash.

Bids received by Corps of Engineers, Seattle District, 4735 E. Marginal Way, Seattle, for construction of officers quarters at Fairchild AFB, Wash.; ENG-45-108-57-53. LOW BIDS: Sceva Construction Co., Inc., N. 2928 Madelia, Spokane, $369,865; H. Halvorson, Inc., Box 6, Yardley, $370,865; Selkirk Co., W. 722 16th Ave., Spokane, $372,843. Engineer's estimate, $378,000. Bids opened November 9. GW 11-13. Previous report 11-3

REGIMENTAL CHAPEL—Fort Lewis, Wash.

It is anticipated that bids will be opened about December 5 by will be definitely established by addendum later by Corps of Engineers, Seattle District, 4735 E. Marginal Way, Seattle, for construction of a regimental chapel at Fort Lewis, Wash.; ENG-45-108-57-62. GW 11-9. Previous report 11-8

●PAINTING— Fort Lewis, Wash.

Bids to be opened 1 p. m., November 26, by Department of Army, Purchasing and Contracting, Fort Lewis, for interior repainting of 30 sets of family quarters and one hospital ward at Madigan Army Hospital, Fort Lewis, Wash.; AVI-45-016-57-79. Plans with above office. Bid bond 20%. GW 11-16

▲COAL STOKER REPLACEMENT— Fort Lewis, Wash.

Bids received by Department of Army, purchasing and contracting office, Fort Lewis, for the following: 1—replacement of coal stokers with oil burners in family quarters, AVI-45-016-57-63; 2—replacement of defective stokers with facilities for oil burning in permanent troop barracks, AVI-45-016-57-64; 3—replacement of defective coal stokers with oil firing facilities in miscellaneous permanent and temporary type shop, troop supply and non-operation type buildings, AVI-45-016-57-65. All buildings are in North and South Fort Lewis. LOW BID—AVI-63: Stoker Engineering Co., 4320 S. Tacoma Way, Tacoma, $81,110; Rainier Mechanical Contractors, Inc., 2702 E. 112th, Tacoma, $95,024; Fraser's Boiler Service, Inc., 703 Dearborn, Seattle, $110,681. AVI-64: Capital Plumbing and Heating Co., 424 S. Jefferson, Olympia, $155,335; Rainier Mechanical Contractors, $155,746; Fraser's Boiler Service, Inc., $165,782. AVI-65: Stoker Engineering, $54,133; Fraser's Boiler Service, $56,898; Quality Builders, 312 S. 112th, Tacoma, $57,692. Bids opened November 13. Stoker Engineering Co. added an all or none rider to their bid.

GW 11-14. Previous report 11-6

●POULTRY LAYING HOUSE— Fort Steilacoom, Wash.

Bids will be opened 2 p. m., November 23, by Director, Department of Institutions, Institutions Bldg., Olympia, for construction of a poultry laying house at the Western State Hospital, Fort Steilacoom. Plans with Seifert & Forbes, architects, 220 N. Eye St., Tacoma. $10 deposit. SC 11-13

ELEMENTARY SCHOOL— Gifford, Wash.

(Estimated cost $50,000)

Bids will be called January 7 for opening about February 1, 1957, by Evergreen School District, Ruby Dubois, county superintendent, Daisy, Stevens County, Wash., for construction of a new three-classroom elementary school one mile north of Gifford. Plans by Culler, Gale, Martell & Norrie, architect, Realty Bldg., Spokane. School will be of concrete block and frame construction

SP 11-9. Previous report 10-26

▲CHURCH— Greenacres, Wash.

Bids received by Rev. John Feiertag, pastor, Greenacres, for construction of the Hope Lutheran Church at Greenacres. Plans by Eddy, Carlson & James, architects, N. 1205 Washington, Spokane. LOW BIDS: LaVerne B. Dreschel, Route5, Spokane, $39,368; Loveland Construction Co., N. 728 Cook, Spokane, $44,500; Troy Hood, Opportunity, $45,852. Bids opened November 8. Low bid was within estimate.

DC 11-13. Previous report 11-3

VIEWCREST ADDITION— Hoquiam, Wash.

The final plat for the View crest Addition has been submitted for approval to City Council, City Hall, Hoquiam, by J. A. Sundquist, contractor, Fish Base, Hoquiam, who plans construction of eleven homes in the area. The plat is a layout of the area in which building is anticipated that includes streets, sewer lines and lots. SC 11-10

P-E, MUSIC BUILDING— Kalama, Wash.

Bond issue for $325,000 approved in November 6 election held by Kalama School District No. 402, Kalama, for finance construction of a physical education and music building for the district. Construction will start after the first of the year.

SC 11-10. Previous report 9-1

●SEMINARY— Kenmore, Wash.

(Estimated cost $2,00,000)

Bids to be opened 2 p. m., December 11, by Archdiocese of Seattle, Most Rev. Thomas A. Connolly, archbishop, 907 Terry Ave., Seattle, for construction of a new major seminary to be known as the St. Thomas seminary, and located on a 350-acre tract about ¼ mi. from the existing St. Edwards' seminary on north shore of Lake Washington between Juanita and Kenmore. Plans with John W. Maloney, architect, 754 Central Bldg., Seattle. $50 deposit. Certified check, cashier's check or bid bond 5%.

Project includes chapel, estimated cost

$350,000; two-story administration offices; five-story C-shaped dormitory unit with wing for dining area and kitchen; prayer hall attached to dormitory wing; library adjacent to loggia in front of the building. A student court will be separated from a formal garden by a low passage connecting both portions of the building.

Concrete walls, with dampproofing on outer surface, brick veneer; limestone trim; concrete slab floors; flat plate type structure with no beams or columns; built-up gravel roof; 2 plaster partitions, some with plaster on steel studs, some concrete block; concrete stairways with quarry tile surfacing and ceramic wainscots; aluminum windows; rigid insulation on deck; public areas to have acoustical ceilings, bedrooms to have painted concrete; all exterior doors to be hollo steel painted, interior doors steel package type with steel frames; lower floors, wood with metal frames; built-in wardrobes in all bedrooms; four walk-in refrigerators; asphalt tile flooring, terrazzo in kitchen and main chapel, ceramic in toilets and showers; glazed block in kitchen walls and toilets and showers.

This project was negotiated with Campbell Construction Co., 1150 Folsom St., San Francisco, but when the sub-bids were in the figures were too high.

GW 11-10. Previous report 10-25

SCHOOL CONSTRUCTION—Kirkland, Wash.

Bond issue for $975,000 approved in November 6 election held by Lake Washington School District No. 414, Box 188, Kirkland, for high school additions, three elementary additions, a junior high school addition and other work. SC 11-9

★ELEMENTARY SCHOOL ADDITION— Lacey, Wash.

Award to Korsmo Bros., 155 E. 123rd, Tacoma, $102,000, by North Thurston School District No. 3, Lloyd H. Morgan, clerk, Lacey, for construction of an addition to South Bay elementary school north of Lacey.

AH 11-10. Previous report 10-5

▲BATHHOUSE, SWIMMING POOL— Larson AFB, Wash.

Bids received by Corps of Engineers, Walla Walla District, Bldg. 602, City-County Airport, Walla Walla, for construction of airmen's bathhouse, swimming pool and related facilities at Larson AFB near Moses Lake; ENG-45-614-57-8. Bids opened November 7. LOW BIDS: L & S Construction Co., Inc., Box 1585, Moses Lake, $143,921; H. Halvorson, Inc., Box 6, Yardley, $145,790; Donald M. Drake Co., 1600 N.W. Savier, Portland, $177,670.

SC 11-9. Previous report 10-26

● HOSPITAL BUILDING— Larson AFB, Wash.

Bid opening established as 2 p.m., December 27, by Corps of Engineers, Walla Walla District, 602 City-County Airport, Walla Walla, for construction of a hospital building at Larson AFB, Wash.; ENG-45-164-57-5. Plans with district engineer, above address. $100 deposit. Bid bond 20%. Completion time 420 calendar days.

GW 11-13. Previous report 11-2

▲DENTAL CLINIC— Larson AFB, Wash.

Bids received by Corps of Engineers, Walla Walla district, 602 City-County Airport, Walla Walla, for construction of a dental clinic and utilities at Larson AFB, Wash.; ENG-45-164-57-9. BIDS: L & S Construction Co., Box 1585, Moses Lake, $165,539; H. Halvorson, Inc., Box 6, Yardley, $171,891; Jack Fast, 22 Etruria, Seattle, $173,-945; Granger Builders, Wilson Creek, $176,-788. Engineer's estimate, $161,779. Bids opened November 13.

GW 11-14. Previous report 10-31

CITY HALL EXPANSION—Longview, Wash.

Bond issue for $150,000 defeated in November 6 election held by City Council, City Hall, Longview. The issue was to have financed expansion of the city hall. SC 11-10

▲FAMILY HOUSING—McChord AFB, Wash.

Complete list of the bids received by Corps of Engineers, Seattle District, 4735 E. Marginal Way, Seattle, for construction of family housing at McChord AFB, Wash.; ENG-45-108-57-30. Plans completed for the army by Durham, Anderson & Freed, architects, 1100 Denny Way, Seattle. Following are all basic bids: Sched. A calls for 110 units; Sched. B, 120 units; Sched. C, 130 units; Sched. D, 140 units; Sched. E, 150 units. BIDS: Quality Builders, 312 S. 112th, Tacoma, $1,504,601 (Sched. A); $1,613,456 (Sched. B); $1,742,795 (Sched. C); $1,881,295 (Sched. D); $2,003,928 (Sched. E). General Investment Co., Longview, $1,541,147, $1,650,-896, $1,774,707, $1,937,604, $2,016,287; Northern Construction Co., 549 Port of Tacoma Road, Tacoma, $1,567,723, $1,680,561, $1,818,726, $1,963,610, $2,072,644; Kuney-Johnson Co., 1266 Mercer, Seattle, $1,579,963, $1,691,114, $1,848,-456, $1,955,361, $2,076,817; Heftler Construction Co., 9374 Brighton Way, Beverly Hills, Calif., $1,580,000, $1,679,000, $1,802,000, $1,942,-000, $2,063,000; Sound Construction and Engineering Co., 300 Aloha, Seattle, $1,864,229, $1,990,358, $2,138,564, $2,291,685, $2,421,774. Engineer's estimate $1,612,670 (A); $1,736,422 (B); $1,874,506 (C); $2,021,133 (D); $2,154,863.

GW 11-9. Previous report 11-2

SCHOOL CONSTRUCTION—McCleary, Wash.

Two levy proposals approved in November 6 election held by McCleary School District No. 106, McCleary, one to raise $4,645 for general fund and the other to raise $37,161 for the building fund. SC 11-10

★STEAM HEATING PLANT ALTERATIONS— Medical Lake, Wash.

Award to Wyatt & Kipper, 3214 16th S.W., Seattle, $86,835, by H. D. Van Eaton, director, Department of General Administration, 218 General Administration Bldg., Olympia, for additions and alterations to the steam heating plants at Eastern State Hospital and at Lakeland Village, Medical Lake. Plans by H. Jack Reeves, consulting engineer, Symons Bldg., Spokane.

DE 11-10. Previous report 10-3

SCHOOLS— Mercer Island, Wash.

Four propositions approved in November 6 election held by Mercer Island School District No. 400, King County, Robert S. Studebaker, superintendent, Box 215, Mercer Island. Approved were the following: a $700,000 bond issue for Lakeview junior high school and sites; a 6-mill, $60,000 levy for maintenance and operation; a 2-mill, $20,000 kindergarten levy; 13-mill, $135,000 levy for building and site funds.

SC 11-9. Previous report 9-28

BOY SCOUT CAMP— Monroe, Wash.

Working drawings underway by Ibsen A. Nelsen and Russell B. Sabin, architects, 1314 E. 43rd, Seattle, for construction of a boy scout camp in Snohomish County, near Monroe. Bids will be called by Chief Seattle Council, Boy Scouts of America, Arcade Bldg., Seattle.

The project will be constructed in three phases. The first phase for which bids will be called about mid-December is for construction of roads and site work. The second phase will include the construction of a small lodge, caretaker's house, workshop, garage building and subsidiary buildings. Bids will be called on this phase about mid-February 1957. The third phase will include dormitories, dining hall, administration building, commissary, staff cabins, swimming facilities, and cabins and will be constructed in the future when funds are available. GW 11-14

HIGH SCHOOL— Morton, Wash.

Bond issue for $80,000 approved in November 6 election held by Morton School District No. 214-R, Morton, to finance completion of a new Morton high school.

SC 11-9

ELEMENTARY SCHOOL—Moses Lake, Wash.

Plans nearly complete by Hovind Harthorne & Smith, architects, 1500 Westlake Ave. N., Seattle, for construction of the Longview Elementary school in Moses Lake. Bids will be called about the end of November by Moses Lake School District No. 161, Robert C. Smith, superintendent, 1016 Ivy Ave., Moses Lake.

One-story, 17-classroom structure; 38,000 sq. ft.; concrete block walls; concrete slab floors; wood deck, laminated beams; 4-ply built-up roofing; aluminum sash; 1" rigid insulation in roof; concrete block and brick exterior; plaster interior finishes; acoustical tile ceilings; asphalt tile flooring ceramic in toilets; steel doors; wood cabinets; chalk boards, tack boards; oil fired hot water heating system. GW 11-14. Previous report 8-21

HIGH SCHOOL— Moses Lake, Wash.

Preliminary plans complete by Hovind Harthorne & Smith, architects, 1500 Westlake Ave. N., Seattle, for construction of a new high school in Moses Lake. Bids will be

If the job calls for WALL HYDRANTS specify GREENBERG!



BRONZE PRODUCTS by GREENBERG

M. GREENBERG'S SONS
765 FOLSOM ST. • EXbrook 2-3143
SAN FRANCISCO 7, CALIFORNIA
Offices in Principal Cities throughout the United States



Flush type wall hydrant with locking type hinge (will rough into 6" wall).
Nipple and adapter allow placing inlet at either side or back.

called by Moses Lake School District No. 161, Robert C. Smith, superintendent, 1016 Ivy Ave., Moses Lake. Project which will have 40 teaching stations will be a campus plan, with six or seven one-story buildings.
GW 11-14

●HANGAR— Moses Lake, Wash.

Bids to be opened 2 p.m., P.S.T., December 28, by Boeing Airplane Co. in the Engineering Bldg., Plant 2, 7755 E. Marginal Way, Seattle, for construction of a two-place hangar including earthwork, paving, utilities and miscellaneous items of work at the Moses Lake Flight Center, Larson Air Force Base, Grant County, Wash. This project was previously advertised as four separate packages: 9B—structural steel work; 9C—hangar doors; 9A—construction to grade; 9—structures, paving and utilities. Package 9B has been awarded and retains its separate identity until assigned to the successful bidder on Package 9. Packages 9A and 9C are now consolidated with Package 9.

The work in the present bid call includes but is not limited to the following: 1—two-place hangar, not including structural steel frame; 2—concrete apron and yard paving including excavation, grading and subgrade; 3—asphaltic concrete access road and fuel truck parking area; 4—domestic and fire protection water lines; 5—air from existing service line; 6—additions to and modification of existing boiler plant including two steam generating units and steam and pumped return lines for the hangar and paint storage building; 7—storm and sanitary sewers; 8—electrical distribution and communications system from existing services.

The present contract will constitute a subcontract under a prime contract between Boeing Airplane Co. and the U. S. Government, and it will include by assignment the structural steel work contract, Package 9B previously awarded to Judson Pacific-Murphy Steel Works, Emeryville, Calif., $865,000.

Plans obtainable on or about November 26 from Naramore, Bain, Brady & Johanson, architects and engineers, 904 7th Ave., Seattle. $100 deposit. Bids on excavation, basement construction for the hangar were received in October and subsequently rejected, and a previous invitation to bid on the hangar including utilities and the hangar doors was withdrawn.
DM 11-14. Previous report 11-2

HIGH SCHOOL— Mossyrock, Wash.
(Estimated cost $500,000)

Bond issue for $433,000 approved in November 6 election held by Mossyrock School District No. 206, Mossyrock, for construction of a high school and gymnasium. Plans by William Arild Johnson & Associates, architects, First National Bank Bldg., Everett.
SC 11-14. Previous report 6-12

SCHOOL CONSTRUCTION— Naselle, Wash.

The two 10-mill levies proposed to replace the existing 20-mill levy were defeated in November 6 election held by Naselle-Grays River Valley School District No. 155, A. R. Grabenhorst, superintendent, Naselle. One levy was to be for the high school building and the other for teacher housing.
SC 11-10. Previous report 10-12

★INSULATION, SNOW GUARD— Okanogan, Wash.

Award to R. E. Colyar, Okanogan, $999, by General Services Administration, room 126, Federal Office Bldg., Seattle, for installation of insulation and snow guard at the U. S. Post Office in Okanogan; Project No. CR-10-546. GW 11-9. Previous report 11-3

▲COUNTY JAIL— Okanogan, Wash.

Bids received by Okanogan County Commissioners, Courthouse, Okanogan, for construction of a courthouse addition to house the county jail. Plans by Ludwig Solberg, architect, Widby Bldg., Wenatchee. Bids opened November 8. LOW BIDS—GENERAL: Cusick Construction Co., 739 S. Mission, $116,946; Armstrong & Armstrong, Box 59, $117,241; Vandivort Construction Co., Box 1647, $118,913. JAIL STEELWORK—PROPOSAL A (toolproof steel and Locking devices): Decatur Iron & Steel Co., Decatur, Ala., $48,067; Southern Steel Co., San Antonio, Texas, $49,265; Herrick Iron Works, Reno, Nev., $59,200. PROPOSAL B (lower quality steel and no locking control devices): E. T. Pybus, only bidder, 3 Orondo, $1,550. Of Wenatchee unless noted.
CK 11-10. Previous report 11-6

▲INDUSTRIAL ARTS BUILDING— Olympia, Wash.

Bids received by Olympia School District No. 1, 116 N. Columbia St., Olympia, for construction of an industrial arts building to be located on school property between Carlyton Ave. and North St. in Olympia. Plans by Wohleb & Wohleb, architects, 715 S. Washington, Olympia. Bids opened November 7. LOW BIDS—GENERAL: Cascade Olympic Construction Co. Route 2, Box 131, Shelton, $142,745; Northern Construction Co., 759 Portacoma Road, Tacoma, $144,995; A. G. Homann, Box 37, Lacey, $146,483. MECHANICAL: Capitol Plumbing and Heating, 424 S. Jefferson, Olympia, $54,394; Cascade Heating and Plumbing, 402 W. 5th, Olympia, no amount noted. ELECTRICAL: Lassen Electric Service, 111 N. Columbia, Olympia, $23,875; Olympia Electric Co., 504 E. 5th, Olympia, $27,775.
SC 11-10 Previous report 11-1

●LEGISLATIVE BUILDING ALTERATIONS— Olympia, Wash.

Bids will be opened 3 p.m., November 21, by H. D. Van Eaton, director, Department of General Administration, General Administration Bldg., Olympia, for alterations to the Legislative Bldg., State Capitol Group, Olympia. Plans may be obtained from Engineering Office, room 218, in the above building.
SC 11-14

CITY HALL— Omak, Wash.

Bond issue for $142,000 defeated in November 6 election held by City Council, City Hall, Omak. The bond issue would have financed construction of a new city hall. Plans by H. Brandt Gessel, architect, 214 E. Birch St., Walla Walla.
SC 11-13. Previous report 10-9

JUNIOR HIGH SCHOOL, COLLEGE STRUCTURE— Pasco, Wash.

Bond issue for $575,000 approved in November 6 election held by Pasco School District No. 1, 517 N. 3rd St., Pasco, for construction of a new junior high school and an academic structure for Columbia Basin College. SC 11-14. Previous report 9-18

●CHURCH ADDITION—Port Angeles, Wash.
(Estimated cost $40,000-$50,000

Bids to be opened November 27 for addition to Christian Science Church at Port Angeles. Addition will be Early American style, frame construction with brick veneer exterior to tie in with existing building. It will include an auditorium with seating capacity of 150 and Sunday School rooms. Plans with architect, Arch N. Torbitt, 1807 N. 51st St., Seattle. Select list of bidders.
AH 11-9

★ELEMENTARY SCHOOL— Port Townsend, Wash.

Awards and complete list of bidders announced by Port Townsend School District No. 50, Port Townsend, for construction of the Grant Street Elementary School in Port Townsend. Plans by Galen W. Bentley, architect, 1130 State St., Bellingham. GENERAL—AWARD: Elford Co., 1750 State St., Bellingham, $238,741 (base bid plus alt. 1). OTHER BIDDERS (base bids): Winterburn Construction Co., Box 202, Port Townsend, $233,000; Mowat Bros., 2833 Eastlake, Seattle, $235,881; Linden Construction Co., Box 109, Bremerton, $235,881; Del Guzzi, 1020 E. Front, Port Angeles, $245,720; Cotton Engineering & Shipbuilding Co., 126 Madison, Port Townsend, $246,952; Sanford Wright, 302 Clark Bldg., Everett, $260,668. MECHANICAL—AWARD: Caven Plumbing Co., 116 W. 8th, Port Angeles, $62,304. OTHER BIDDERS: Port Townsend Plumbing & Heating, 702 Water St., Port Townsend, $65,515; Diamond "B," 915 Cornwall, Bellingham, $70,983; Standard Plumbing & Heating, Box 188, Bremerton, $71,987; Lent's, Inc., 279 4th St., Bremerton, $75,983. ELECTRICAL—AWARD: Lent's, Inc., Bremerton, $19,700. OTHER BIDDERS: Rhodes Electric, Box 32, Silverdale, $19,947; Olympic Electric, 501 Lincaln, Port Angeles, $20,971; Ken Brown Electric, 936 Benton, Port Townsend, $23,930.
JM 11-14. Previous report 11-9

SHOP, GARAGE, GYMNASIUM— Puyallup, Wash.

Bond issue for $35,000 approved in November 6 election by Firwood School District No. 99, Route 6, Puyallup, for construction of a high school shop, a bus garage and a gymnasium plus other capital improvements.
SC 11-10

PHYSICAL EDUCATION PLANT— Puyallup, Wash.

Bond issue for $180,000 approved in November 6 election by Puyallup School District No. 3, 605 W. Main, Puyallup, for construction of a new physical education plant for the senior high school at 105 7th S.W., Puyallup. Defeated in the election was a 9½-mill, $120,000 building levy.
SC 11-10. Previous report 8-3

★HIGH SCHOOL— Poulsbo, Wash.

All contracts negotiated by North Kitsap School District No. 400, Box 68, Poulsbo, for construction of a high school. Plans by Harry E. Botesch, architect, 504 Commerce Bldg., Everett. AWARDS—GENERAL: Anderson Construction Co., 115 S. 9th, Tacoma, $534,575. MECHANICAL: Lent's, Inc., 279 4th St., Bremerton, $146,366. ELECTRICAL: Peterson Electric, 607 High, Bremerton, $62,372.
SP 11-9. Previous report 8-29

SCHOOL CONSTRUCTION— Randle, Wash.

Bond issue for $150,000 approved in the November 6 election held by White Pass School District No. 303, Lewis County, R. J. Cebull, superintendent and board secretary, Randle, to finance construction of an addition to the White Pass high school at Randle. Bids will be called in December.
SC 11-9. Previous report 10-30

●■FIRE STATION— Richland, Wash.

Bid opening extended from November 13 to 2 p.m., November 19, by Atomic Energy Commission, Engineering and Supply Division, Bldg. 703, Richland, for construction of two fire stations in Richland. Specifications with above office.

Planholders: Cecil C. Hill, 1609 W. 9th; Charles C. Dunham, 2431 Albany; Murphy Construction Co., Box 193; Frank Dunham, Box 214; A. G. Patton, 612 W. Albany; Royal Co., Inc., Box 166; all of Kennewick. Elvrum Construction Co., 316 N. 12th; Hale Construction Co., Box 782; Frank H. Lohse, Box 282; Lewis Hopkins Co., 221 S. 3rd St.; all of Pasco. Jensen-Rasmussen, Box 89, Sunnyside; Raymond J. Britton, 4403 N. Rozalee Way, Yakima; J. G. Watts Construction Co., 212 Park Bldg., Portland, Ore.
SP 11-9. Previous report 10-23

●ELECTRICAL WIRING— Seattle, Wash.

Bids will be opened 2 p.m., November 28, by 13th Naval District, Public Works Office, room 100, Building 232, U. S. Naval Station, Seattle, for replacement of wiring at buildings 4, 5, 6, and 7, at the Naval Supply Depot, Seattle; NBy-6583; Spec. No. 6583/56. Project will include the removal of existing wire and reinstalling new wire in the existing conduit; replacing lighting fixture, internal wiring and replacing certain distribution panels. Plans with district public works office, above address. $25 deposit. $Bid bond 5%.
GW 11-9

▲REPAIR HEAT EXCHANGE— Seattle, Wash.

Bids received by General Services Administration, room 126, Federal Office Bldg., Seattle, for repair of the steam-oil heat exchanger at the Seattle General Depot, 4735 E. Marginal Way, Seattle; Project No. CR-10-614. Bids opened November 7. BIDS: Western Blower Co., 1800 Airport Way, $1,000; Peterson Bros. Machine Works, 3207 11th Ave. S.W., and L. G. Massart Plumbing and Heating Co., 4501 9th Ave. N.E., had identical bids of $1,160; S. M. Gilbert & Co., 7100 E. Marginal Way, $1,384. All of Seattle.
GW 11-9. Previous report 10-26

SCHOOL CONSTRUCTION—Seattle, Wash.

Bond issue for $25,000,000 approved in November 6 election held by Seattle School District No. 1, Ernest W. Campbell, superintendent, 815 4th Ave. N., Seattle, to finance school construction in the district.

SC 11-9. Previous report 9-29

CIVIC CENTER— Seattle, Wash.

Bond issue for $7,500,000 approved in November 6 election held by City Council, City Hall, Seattle, to finance property acquisition and construction of two auditoriums for the Seattle Civic Center to be located in the Civic Auditorium area. Seattle. 11-9

●BUILDING ALTERATIONS, REPAIRS— Seattle, Wash.

Bids to be opened 3 p. m., November 28, by General Services Administration, room 128, Federal Office Bldg., Seattle, for construction of new stock room in the basement and roof repairs at U. S. Immigrant Station, 815 Airport Way, Seattle; Project No. CR-10-437. Plans with construction and repair division, above address. Completion time 90 calendar days. GW 11-10

▲HEATING SYSTEM REVISIONS— Seattle, Wash.

Bids received by Port of Seattle, M. J. Weber, secretary, 406 Bell St. Terminal, Pier 66, Seattle, for heating system revisions for central steam service at piers 64 and 65 and Bell St. Terminal. BIDS: Rustad Plumbing and Heating Co., 211 Bell, $12,824; Rautman Plumbing and Heating Co., 115 Jackson, $14,993; W. A. Botting, 5625 University Way, $17,715; West Coast Heating and Plumbing Co., 4125 9th Ave. N.W., $19,300. All of Seattle. Bids opened November 8 GW 11-10. Previous report 10-27

■EAST JUNIOR HIGH SCHOOL— Seattle, Wash.

Planholders announced for the construction of the first unit of East Junior High School at the corner of S. 118th and 42nd S.W., Seattle. Bids will be opened 2 p. m., November 27, by Highline School District No. 401, King County, Carl Laudenbach, business manager, 253 S. 152nd, Seattle. Plans with Waldron & Dietz, architects, 215 8th Ave. N., Seattle. $25 deposit. Certified check, cashier's check or bid bond 5%.

Planholders—GENERAL: Ness Construction Co., 1125 W. 53rd; B. F. Turnbull, Inc., 4351 Leary Way; Hedeen Construction Co., 1404 N. 143rd; George E. Teufel Co., White-Henry-Stuart Bldg.; H. Halvorson, 20054 Pacific Highway S. MECHANICAL: George H. Lucken Plumbing and Heating Co., 922 Leary Way; West Coast Heating and Plumbing Co., 4125 9th Ave. N.W.; University Plumbing and Heating Co., 3941 University Way; Home Plumbing and Heating Co., 4246 Rainier Ave.; Hi-Line Plumbing and Heating, Inc., 426 S.W. 152nd. ELECTRICAL: Carlson Electric Co., Inc., 4025 Stone Way; Holert Electric Co., 2300 W. Spokane; Van S. McKenny Co., 104 Wall; Chapman Electric Co., 911 Walla Walla, Renton; Hooper Electric Co., 215 Marion; Mars Electric Co., 800 23rd Ave. S. All of Seattle unless otherwise stated. HD 11-10. Previous report 11-1

CHURCH ADDITION— Seattle, Wash.

Preliminary plans, approved working drawings underway by Durham, Anderson & Freed, architects, 1100 Denny Way, Seattle, for construction of a three-story wing addition to the existing Queen Anne Baptist Church at 1st Ave. N. and Crockett St., Seattle. Bids will be called from a select list by Queen Anne Baptist church, Warren A. Cochrane, chairman of the building committee; pastor, Rev. H. T. Beatty.

The new wing will consist of main floor to house the administration offices, church parlor and nursery; lower floor will have the fellowship hall, kitchen and stage facilities; upper floor will be devoted to classrooms. The exterior design of the addition will match the sanctuary built in 1936, and will have window walls and brick facing.

GW 11-13

SCHOOL CONSTRUCTION— Seattle, Wash.

A bond issue and two levies approved in November 6 election held by Shoreline School District No. 412, E. 158th and 20th N.E., Seattle, for school construction in the district. Approved were a $950,000 bond issue for construction, a $225,000, 7½-mill levy to supplement the bond funds, and a $300,000 9-mill levy for replacing buses and supplementing operating funds. SC 11-13

SCHOOL CONSTRUCTION— Seattle, Wash.

Three propositions approved in November 6 election held by Highline School District No. 401, 225 S. 152nd St., Seattle. Approved were a $1,165,000 bond issue for construction, remodeling and site acquisition, an $890,000, 20-mill levy for the same purposes, and a $446,000, 10-mill levy for operations and salaries. SC 11-13

●HILLTOP ELEMENTARY SCHOOL— Seattle, Wash.

Bids to be opened 2 p. m., December 11, by Highline School District No. 401, King County, Carl Laudenbach, business manager, in the Administration Bldg., 253 S. 152nd, Seattle, for construction of the first unit of and S. 124th, Seattle. Plans with Mallis & DeHart, architects, 631 Lyon Bldg., Seattle. Certified check, cashier's check or bid bond 20%. Separate or combination bids will be received for general construction; heating, plumbing and mechanical ventilation; electrical wiring.

Project will consist of seven classrooms, administration, kitchen, storage facilities, and covered playcourt, one-story; 11,000 sq. ft.; steel frame, bar joists; window wall; masonry end walls; built-up roof; metal sash, there will be alternates on steel and aluminum; acoustical ceilings; vinyl tile flooring with ceramic in toilets; insulated panels below sash; electric heat; interior partitions to be plaster; with Keene's cement waiscoting; built-in cabinets, wardrobes; chalk boards, tack boards; kitchen equipment.

GW 11-13. Previous report 11-1

Center of Everything

HOTEL

COMMODORE



Ideal location for making the most of your California trip. Tours leave our front door twice daily to Movie Studios, TV stations, Disneyland, and many, many other fabulous places to visit.

The Commodore is five minutes walk from the finest department stores and theaters—five minutes drive to Hollywood, still The Commodore offers quiet relaxed comfort away from the congestion of downtown traffic Superb dining facilities at moderate prices.

250 outside rooms with view

Tariff:

Single	$4.00, 4.50, 5.00, 5.50, 6.00*, 6.50*, 7.00*
Double	6.00, 6.50, 7.00, 7.50, 8.00, 9.00*, 10.00*
Twin	6.50, 7.00, 7.50, 8.00, 9.00*, 10.00*

**Studio rooms converting from sitting room into bedroom are available in this price range: perfect for conference or for your office away from home.*

1203 WEST SEVENTH STREET

LOS ANGELES 17

Telephone: TRinity 7431



HARDWARE MUTUAL INSURANCE CO.
Los Angeles, California
Architect: Stiles and Robert Clements, Architects-Engineers
Contractor: Architectural & Mechanical Products Co.

SPANDREL AREAS are given life-time protection and attractive symmetrical treatment by use of *Porcelain Enamel* laminated panels ...*adding strength where it's needed and beauty where it shows.*

Write for detailed information and color chart

ARCHITECTURAL DIVISION

PORCELAIN ENAMEL PUBLICITY BUREAU

P. O. BOX 186 • EAST PASADENA STATION • PASADENA 8, CALIFORNIA
1444 WEBSTER STREET • ROOM 4 • OAKLAND 12, CALIFORNIA

▲OFFICE BUILDING— Seattle, Wash.

Sub-bids received by Cawdrey & Vemo, general contractor, 3601 Fremont, Seattle, for mechanical, electrical and miscellaneous sub-contracts for the Rainier district office building to be built at 185th and Midvale Ave. for Prudential Insurance Co. of America, at 185th and Midvale Ave., Seattle. Bids are being held under advisement until awards are made about November 15. Plans by Ibsen A. Nelsen and Russell B. Sabin, architects, 1314 E. 43rd, Seattle.

GW 11-13. Previous report 10-23

■ CARPENTERS CENTER— Seattle, Wash.

(Estimated cost $300,000)

Additional planholders announced for the construction of the carpenters center on the east side of 2nd Ave. between Wall and Vine streets, Seattle. Bids will be opened 2 p. m., November 27, by District Council of Carpenters Union, Harry L. Carr, business manager, 1620 4th Ave., Seattle. Public bid opening in the office of John Graham & Co., architects and engineers, 1426 5th Ave. Bldg., Seattle. Select list of bidders. $50 deposit. Certified check, cashier's check or bid bond 5%.

Additional planholders—GENERAL: Baugh Construction Co., 922 Poplar Place; Hainsworth Construction Co., 3028 Western Ave.; Kuney-Johnson Co., 1266 Mercer; Nelse Mortensen & Co., Inc., 1021 Westlake Ave. N.; Veale Construction Co., 2nd and Cherry Bldg.; Don Williams & Co., 314 Fairview Ave. N. ELECTRICAL: The Ballard Co., 1537 Ballard Way; Thorn & Marble Co., Inc., 4225 23rd Ave. W.; West Coast Heating and Plumbing Co., 4125 9th Ave. N.W. All of Seattle. GW 11-13. Previous report 11-7

★DENNY HALL REMODELING— Seattle, Wash.

Contract will be negotiated by the University of Washington for remodeling Denny Hall on the university campus, Seattle. Bids were opened by the board of regents in Administration Bldg., campus, on October 23 and the low figures were submitted by the following: Farwest Construction Co., 608 W. 44th, $797,989 (general); Wenzler & Ward Plumbing and Heating, Inc., 2901 Western Ave., $259,300 (mechanical); Holert Electric Co., 2300 W. Spokane, $73,217 (electrical). All of Seattle.

DM 11-14. Previous report 10-25

NATURAL GAS CONVERSION— Seattle, Wash.

Bids rejected by University of Washington, Nelson Walstrom, comptroller, Administration Bldg., campus, Seattle, for conversion of two main boilers at the University to natural gas use. The low bidder on the project on which bids were opened November 8 was W. A. Botting Plumbing and Heating, 5625 University Way, Seattle, $74,009. Plans were by Bouillon & Griffith, consulting engineers, 1411 4th Avenue Bldg., Seattle.

DM 11-14. Previous report 11-10

WAREHOUSE, OFFICE BUILDING— Seattle, Wash.

Site purchased by Star Expansion Pacific Co., Inc., 142 Liberty St., New York, N. Y., for a proposed warehouse and office building to be used as a wholesale outlet for expansion shields, cargo bolts and drilling devices. Site selected is on 70'x100' lot on the northwest corner of Rainier Ave. and College St., Seattle. The existing Seattle office is 909 Weller St., Seattle. R. A. Novak is the western district sales manager. An architect will be retained to draw plans for this project in the spring of 1957. GW 11-14

★HOSPITAL ALTERATIONS— Sedro Woolley, Wash.

Award to Nelson Construction Co., Box 514, Ferndale, $81,250, by H. D. Van Eaton, director, General Administration Bldg., Olympia, for alterations to the Annex Bldg. at Northern State Hospital in Sedro Woolley. Plans by George W. Stoddard-Huggard & Associates, architects, 1120 Harvard Ave., Seattle. DE 11-10 Previous report 9-29

EQUIPMENT FURNISHINGS— Sedro Woolley, Wash.

A 17-mill, $148,000 levy was approved in the November 6 election held by School District No. 101, Sedro Woolley, to purchase equipment and furnishings for the new junior high school now under construction at Sedro Woolley.

SC 11-13. Previous report 10-20

JUNIOR HIGH SCHOOL— Selah, Wash.

Bond issue for $100,000 approved in November 6 election held by School District No. 119, Elmo L. Steinke, superintendent, Sunrise Park, Selah, for construction of a new junior high school at Selah. Plans by Rothe & Rothe, architects, 807 W. Yakima Ave., Yakima. IG 11-13. Previous report 10-3

▲LUTHERAN CHURCH— Silverdale, Wash.

Bid figures now released by Silverdale Lutheran Church, C. K. Randoy, Silverdale, for construction of the first of two church units consisting of an education building and social hall unit. Plans by W. G. Brust & Associates, architects, 906 Republic Bldg., Seattle. LOW BIDS—GENERAL: Dan Solie, 17004 4th Ave. N.E., Seattle, $74,392; S. C. Paulson, 1347 Trenton, Bremerton, $75,926; Hal Burton, 2811 24th, Bremerton, $75,959. MECHANICAL—LOW BID: Lent's, Inc., 279 4th, Bremerton, $24,200. ONLY OTHER BID: Standard Plumbing and Heating Co., E. 10th and Shore Drive, Bremerton, $26,053. ELECTRICAL: Pacific Electric Co., 644 5th, Bremerton, $7,680; Peterson Electric Co., 607 High St., Bremerton, $8,100; Rhodes Electric Co., Silverdale, $9,458. Bids opened November 6. GW 11-9. Previous report 10-27

JUNIOR HIGH SCHOOL— Silverdale, Wash.

Levy defeated in November 6 election held by Central Kitsap School District No. 401, Box 2, Silverdale. The 15-mill levy would have provided about $75,000 toward the new $700,000 junior high school. SC 11-13

SCHOOL— Spanaway, Wash.

A bond issue and two levies approved in November 6 election held by Bethel School District No. 403, Route 1, Box 289-AB, Spanaway. Approved were $350,000 for junior high school construction, $135,000 for equipping the new school and $30,000 for maintenance. SC 11-13

MANUFACTURING PLANT— Spokane, Wash.

(Estimated cost $100,000)

The France Research Industries, Inc., L. B. France, president, S. 2019 Post St., Spokane, will purchase a site in Spokane or the immediate vicinity for construction of a manufacturing plant for specialized railroad equipment. Bids will be called in December if a site is located by then. PN 11-10

WAREHOUSE— Spokane, Wash.

(Estimated cost $45,000)

Construction underway by B & B Distributors, Inc., F. W. Backlund, vice president and general manager, E. 909 Marietta, Spokane, for a new warehouse at Ruby and Cataldo Streets in Spokane. One-story; 7,600 sq. ft. concrete construction; to provide space for offices, storage and six truck loading dock. SC 11-10

YMCA BUILDING— Spokane, Wash.

(Estimated cost $2,000,000)

Building fund campaign will start in 1957 by Young Men's Christian Association, Nelson Repsold, board chairman,, W. 827 1st, Spokane, for construction of a new building and adequate facilities for the Spokane Valley area. SC 11-14

GRADE SCHOOL ADDITION— Stevenson, Wash.

Bids rejected and will be called again March 14, 1957, by School District No. 3, Skamania County, superintendent's office, Stevenson, for Stevenson Grade School addition. Plans by Freeman, Hayslip, Tuft & Hewlett, architects, 2040 S.W. 3rd, Portland.

SP 11-14. Previous report 10-31

SCHOOL CONSTRUCTION— Sumner, Wash.

Bond issue for $400,000 and a 10-mill, $51,200 levy approved in November 6 election held by Sumner School District No. 320, 1625 Main St., Sumner, for school construction in the district. SC 11-13

COUNTY-CITY BUILDING— Tacoma, Wash.

Bond issue for $3,661,000 approved in November 6 election held by City Council, City Hall, Tacoma, to complete construction of the County-City Bldg. in Tacoma.

SC 11-9. Previous report 9-21

SCHOOL CONSTRUCTION— Tacoma, Wash.

One bond issue and two millage levies approved in November 6 election held by University Place School District No. 83, 2708 W. Grandview, Tacoma. Approved were a $324,000 issue for construction of new schools and acquisition of building sites, a 15-mill, $67,500 levy to meet immediate costs of constructing and equipping the new school and a 5-mill, $22,500 levy for general maintenance and operation. SC 11-13

SCHOOL— Tacoma, Wash.

Bond issue for $650,000 approved in November 6 election held by Clover Park School District No. 400, 5214 Steilacoom Blvd., Tacoma, for construction of a school building in the district. SC 11-13

STADIUM REHABILITATION— Tacoma, Wash.

Bond issue for $500,000 approved in November 6 election held by Tacoma School District No. 10, 8th and Tacoma Ave., Tacoma, to finance repair and remodeling of the Stadium Bowl in Tacoma. Plans by E. J. Bresemann, architect, Perkins Bldg., Tacoma. SC 11-9. Previous report 9-27

SCHOOL IMPROVEMENT— Tacoma, Wash.

Bond issue for $850,000 defeated in November 6 election held by Tacoma School District No. 10, 8th and Tacoma Ave., Tacoma, for $840,000 bond issue to finance remodeling and rehabilitating of the Stadium high school at 111 N. E St. in Tacoma. Plans by Lea, Pearson & Richards, architects, 240 S. Stadium Way, Tacoma.

Also defeated in the election was a $2,190,000 bond issue which would have financed school operation and maintenance, including kindergartens in Tacoma.

SC 11-13. Previous report 9-27

FAIR GROUND BUILDINGS— Vancouver, Wash.

Bond issue for $200,000 defeated in November 6 election held by Clark County Fair Board, 1200 Franklin St., Vancouver, for construction of permanent buildings at the fairgrounds in Vancouver. SC 11-13

★WAREHOUSE, SERVICE STATION— Vancouver, Wash.

Award to L. E. Raley, 5909 Evergreen Highway, Vancouver, $51,202 (basic, less alternate) by Columbia Farmers' Co-operative, Vancouver, for a warehouse building and service station at Hazel Dell, North of Vancouver. Plans by Day W. Hilborn, architect, 307 E. 10th Ave., Vancouver.

WB 11-14. Previous report 11-1

SCHOOLS— Winslow, Wash.

Bond issue for $200,000 approved in November 6 election held by Bainbridge Island Hilltop Elementary School at 24th Ave. S. School District No. 303, Winslow, for island schools. SC 11-13

SCHOOL CONSTRUCTION— Woodinville, Wash.

Three propositions approved in November 6 election held by Woodinville School District No. 212, Woodinville; a $44,000 bond issue for Bothell high school expansion; a $65,000 bond issue to finance the Cottage Lake school and acquire sites; and a 27-mill, $45,000 levy for other building work.

SC 11-13

SWIMMING POOL— Yakima, Wash.

Contract award postponed indefinitely by Metropolitan Park District, E. V. Putnam, superintendent, room 125, City Hall, Yakima, for remodeling (alt. 1) or rebuilding (alt. 2) of the reinforced concrete swimming pool at Miller Park in Yakima. Plans by Gray & Osborne, consulting engineers, 228 S. 2nd St., Yakima. Bids were about 16% higher

than expected and the park board may make some minor improvements later.
IG 11-9. Previous report 11-3

★**COLLEGE ADDITIONS— Yakima, Wash.**

Awards announced by Yakima School District No. 7, Clarence W. Keen, secretary, Yakima, for construction of a five-unit addition, consisting of a vocational-agriculture shop, gymnasium, library-classroom building and boiler plant addition, for Yakima Junior College on S. 16th Ave. in Yakima. Plans by Maloney & Whitney, architects, Larson Bldg., Yakima. AWARDS—GENERAL: Gilbert H. Moen, 516 S. 5th Ave., $409,649. MECHANICAL: Central Heating & Plumbing, Box 153, Yakima, $171,812. ELECTRICAL: Hire Electric Co., Box 174, The Dalles, $42,000.
SC 11-9. Previous report 10-25

RESIDENCE— Yakima, Wash.

Bid opening of November 8 was postponed and bids will be called again at a later date by Paul Mercy, owner, 310 E. Yakima Ave., Yakima, for construction of a residence to be located in the Scenic Drive Addition in Yakima. Plans are being revised by Thomas F. Hargis, Jr., architect, Miller Bldg., Yakima.
IG 11-10. Previous report 10-20

▲**ELEMENTARY SCHOOL— Yakima, Wash.**

Bids received by West Valley School District No. 208, Harold C. Griffith, superintendent, in the cafeteria of West Valley High School, located west of Yakima city limits, south of Summitview Ave., for construction of the Summitview Elementary School. Plans by John S. Villesvik, architect, 109 N. 3rd, Yakima. Bids opened November 8. LOW BIDS—GENERAL: H. C. Corpman, Yakima, $210,375; Gilbert H. Moen, 516 S. 5th, Yakima, $216,949; Hills Construction Co., 102 S. 5th Ave., Yakima, $218,800. MECHANICAL: Dopps & Banks, 603 W. Lenox, Yakima, $82,644; P. S. Lord Mechanical Contractors, 4507 S.E. Milwaukie, Portland, $85,030; W. R. O'Rourke, 339 S. 2nd St., Walla Walla, $87,234. ELECTRICAL: Smith Electric, Union Gap, $22,282; Creamer Electric, 1902 Nob Hill Blvd., Yakima, $28,882; C. L. Hill, The Dalles, $32,000.
IG 11-10. Previous report 10-30

LIBRARY— Yakima, Wash.

Bond issue for $400,000 approved in November 6 election held by Yakima Public and Regional Library, Helen Gilbert, head librarian, 3rd and A Streets, Yakima, to finance construction of a new library to be located at the site of the existing structure. Plans by John S. Villesvik, architect, and Maurice Smith, associate, 109 N. 3rd St., Yakima.
IG 11-13. Previous report 9-27

●**YMCA BUILDING— Yakima, Wash.**
(Estimated cost $1,700,000)

Bids will be opened 2 p.m., December 13, by Clarence Ernst, secretary, Young Men's Christian Association, S. 4th St., Yakima, for construction of a new YMCA building to be located on the corner of N. Naches and E. Yakima Avenues in Yakima. Plans with John W. Maloney, architect, Central Bldg., Seattle. $50 deposit. Estimated cost is for basic construction only and does not include the many alternates that will be considered.

Concrete and brick masonry construction; steel girders and columns; steel and concrete floor; concrete and hardwood (gymnasium) floors; plaster and paint interior; asphalt tile flooring; either gas or oil heating system.
IG 11-14. Previous report 2-15

IDAHO

MILITARY BUILDINGS, UTILITIES, BRIDGE, PAVING— Boise, Idaho

Bids will be called soon for opening about December 19 by Corps of Engineers, Walla Walla District, 602 City-County Airport, Walla Walla, for construction of army reserve training center, motor vehicle storage shed, concrete bridge, appurtenant utilities and paving at Boise, Idaho; ENG-45-164-57-12. Plans will be available from district engineer, above address. $100 deposit. Bid bond 20%.
GW 11-13

●**ROOM REDECORATING— Boise, Idaho**

Bids will be opened 2 p.m., November 23, by R. E. Edlefsen, purchasing agent, City Hall, Boise, for redecorating the dining room, kitchen and storeroom at the Terminal Bldg. located at Boise Municipal Airport. Specifications with above office.
SC 11-14

DEPARTMENT STORE FIRE— Gooding, Idaho

Damage was estimated at a $200,000 loss in the fire which destroyed Tingwalls Department Store in Gooding. The Gooding Men's Club adjoining the store was also destroyed by the flames while another structure which houses the Gooding Leader newspaper was damaged.
SC 11-13

DORMITORY, CLASSROOMS— Gooding, Idaho

Plans announced by Idaho Board of Education for requesting funds from the 1957 State Legislature, for equipment, a girls' dormitory and additional classrooms for the State School for the Deaf and Blind in Gooding.
SC 11-14

●**BUILDING ADDITONS, MODIFICATIONS— Idaho Falls, Idaho**
(Estimated cost $63,000)

Bids will be opened 3 p.m., December 5, by Atomic Energy Commission, Box 1221, Idaho Falls, for additions and modifications to buildings in the Central Facilities, Chemical Processing Plant and Experimental Breeder Reactor areas of the National Reactor Testing Station in Idaho; Inv. No. AT(10-1)-877. Specifications with above office. Completion time 210 calendar days.

EBR AREA: Pumice block addition to existing building; 31'x57'; precast concrete slab roof; open web-type steel roof joists. CF AREA: Vault additions to two buildings, 14'x16' and 10'x21'; installation of hydraulic lifts to two buildings; construction of 12'x12' addition to another building. CPP AREA: Furnishing and installing 15,000 sq. ft. asphalt tile flooring and rubber base in four buildings.
SP 11-14. Previous report 10-27

COLISEUM— Lewiston, Idaho

Plans underway by Palmer Putnam of Lewiston, for construction of a community building at Lewiston Orchards, for Lewiston Orchards Recreation & Improvement Association, Ellis Coale, chairman, Lewiston.
SC 11-14

BEVERAGE COMPANY FIRE— Moscow, Idaho

The second floor of the Moscow Beverage Co. at 224 N. Main, Moscow, was razed by fire November 8. There was no immediate estimate of the damage.
SC 11-14

HIGH SCHOOL FIRE— Payette, Idaho

The second floor of the main high school building at Payette was severly damaged by fire November 2, while adjoining gymnasium, junior high school and first floor of the main building received only water and smoke damage. There were no immediate estimates of damage.
SC 11-13

SCHOOL— Silverton, Idaho

Plans nearly complete for the new three-classroom primary school to be located at Silverton, between Wallace and Osborn, Idaho, for School District No. 393, Wayne Brubacker, superintendent, Wallace. Plans by George M. Rasque & Son, architects, 303 Washington Trust Bldg., Spokane.

One-story; no basement; 75½'x56'; reinforced concrete footings and foundation; brick veneer walls; concrete slab floors; built-up roof, mopped-on tar; frame partitions; architecturally projected windows; painted interior wall finish, metal casing steel trim; plaster partitions; asphalt tile, ceramic tile (toilets) flooring; acoustical tile ceilings; Kalamein exterior, hollow birch interior doors; vertical grain fir cabinets; chalk boards, fire door; rock wool batt insulation in ceilings; forced hot air heating system, oil fuel; boiler room.
CE-11-13. Previous report 7-26

Advance news on contemplated construction projects that are not yet on the drawing boards; profitable leads on building and engineering jobs; the latest information on bid openings; contract awards for buildings, highway and street work, sewer and water works, reclamation jobs, throughout the Pacific Northwest and Alaska, will be found in these columns.

MONTANA

■**ARMORY— Billings, Mont.**

Planholders announced for construction of a National Guard Armory west of the municipal airport at Billings. Bids will be opened 10 a.m., November 26, by State Board of Examiners, G. L. Bryant, executive secretary, Capitol Bldg., Helena. Plans with Loners & Stroebe, architects, 418 N. 25th St., Billings.

Planholders: C. E. Huff, Columbus; Cop Construction Co., 617 Central Ave.; Hardy Construction Co., 420 N. 25th St.; Pogue Construction Co., 1612 2nd St. W.; Hitz Construction Co., 2111 4th Ave. N.; Frates Construction Co., 424 Rimrock Road; Boespflug Construction Co., 502 N. 25th St.; Wells Bros. Construction Co., 704 Dunham Ave. All of Billings unless noted.
EE 11-14. Previous report 11-6

SCHOOL— Brady, Mont.

Bordeleau, Pannel & Amundson, architects and engineers, 410 8th St. N., Great Falls, have been retained by School District No. 19, Brady, to prepare plans for a new school plant at Brady. Construction is expected sometime in 1957.
EE 11-9

HIGH SCHOOL Columbia Falls, Mont.

Bond issues for $1,490,000 approved in November 6 election held by Flathead School District No. 6, Columbia Falls, for construction of a 600-student high school to be located on an 8.4 acre site on 4th Ave. W. in Columbea Falls. Plans by Weed & Fehlberg, architects, Sundelius Bldg., Kalispell, Mont.
RB 11-13. Previous report 9-5

INFIRMARY— Glasgow AFB, Mont.

Bids rejected and will be readvertised by Corps of Engineers, Walla Walla District, Bldg. 602, City-County Airport, Walla Walla, for construction of an infirmary building at Glasgow AFB, Valley County, Mont.; ENG-45-108-57-1.
SP 11-14. Previous report 8-25

HOSPITAL— Great Falls, Mont.

Bond issue for $1,900,000 approved in November 6 election held by Cascade County Commissioners, Courthouse, Great Falls, to finance construction of a county hospital and convalescent home in Great Falls. Plans by Van Teylingen, Knight & Van Teylingen, architects, Medical Arts Bldg., Great Falls.
SC 11-13. Previous report 10-20

COURTHOUSE— Kalispell, Mont.

Bond issue for $1,200,000 defeated in November 6 election held by Flathead County Commissioners, Courthouse, Kalispell, for construction of a new courthouse at Kalispell. Plans by Richard Taylor, architect, 10 Ford Block, Kalispell.
RB 11-13. Previous report 10-6

★**SAFEWAY STORE— Laurel, Mont.**

Award to Hardy Construction Co., Box 1203, Billings, no amount released, by Safeway Stores, Inc., Construction Division, 66 W. Parg St., Butte, for construction of a new Safeway store and parking lot at 2nd St. and S. 1st Ave., U.S. Highway No. 310, Laurel. Plans by Norman J. Hamill & Associates, architects, 122 W. Granite St., Butte. Bids were received until midnight, October 13.
EE 11-9. Previous report 10-4

▲**JAIL ADDITION— Polson, Mont.**

Bids received and subsequently rejected by Lake County Commissioners, Courthouse, Polson, for construction of an addition to the county jail at Polson. Bids opened No-

vember 2. LOW BID: Mars Rolfson, Polson, $10,000. ONLY OTHER BID: Merritt Cass & Sons, Polson, $16,340.
SP 11-14. Previous report 10-26

SCHOOLS— Stanford, Mont.

Bond issue for $220,000 approved in November 6 election held by Judith Basin School District No. 12, Stanford, to finance construction of a new high school annex and remodeling of the present high school structure. Also approved was a $50,000 issue for construction of a new grade school to be built in connection with the high school annex. Plans by Bordeleau, Pannell & Amundson, architects, 309 1st Ave. N., Great Falls. SC 11-14. Previous report 10-20

CITY HALL ADDITION— Whitefish, Mont.

Bond issue for $175,000 approved in November 6 election held by City Council, City Hall, Whitefish, to finance remodeling and extension of the Whitefish City Hall.
RB 11-13. Previous report 9-27

WYOMING

●HOSPITAL ALTERATIONS—Casper, Wyo.

Bids will be opened 3 p. m., November 21, in the Administrator's Office, Memorial Hospital, 1233 E. 2nd, Casper, for remodeling of operating roms, surgical areas and second floor east at the hospital. Plans with James G. Carr, Jr., administrator, and Robert D. Manville, assistant administrator, at above office. SC 11-9

★CHURCH— Cheyenne, Wyo.

Negotiations complete and contract awarded to Garton & Garton, 1939 E. 18th St., Cheyenne, $74,407, by Grace Methodist Church, 1805 Central Ave., Cheyenne, for construction of a new church at Spruce and Pine Drive in Cheyenne. Plans by architects Robert W. Poston, 420 E. 27th St., Cheyenne, and Ralph D. Peterson, 1707 Gilpin St., Denver, Colo.
SP 11-14. Previous report 10-23

▲GRADE SCHOOL— Jackson, Wyo.

Bids received by School District No. 1, Jackson, for construction of a grade school at Jackson. Plans by Piers & Piers, architects, 2766 Harrison Blvd., Ogden, Utah. Bids opened October 29. LOW BIDS: W. R. Cahoon Construction Co., 3209 Pole Line Road, Pocatello, Idaho, $333,000; Kranenberg Construction Co., Jackson, $340,000; C. H. Elle Construction Co., Box 1190, Pocatello, $343,000. SP 11-10 Previous report 10-24

COMMUNITY CENTER— Laramie, Wyo.

(Estimated cost $175,000)
Bids will be called soon by Albany County Commissioners, Courthouse, Laramie, for construction of a community center in Laramie. Plans by Hitchcock & Hitchcock, architects, 107 S. 5th Ave., Laramie.
LY 11-14. Previous report 9-21

HOSPITAL ALTERATIONS— Rawlins, Wyo.

Bids will be called about November 20 by Carbon County Memorial Hospital, 536 15th, Rawlins, for remodeling the 3rd floor into a surgical department at the hospital. Plans by Kellogg & Kellogg, architects, 1909 Carey Ave., Cheyenne.
LY 11-14. Previous report 8-30

▲COLLEGE REMODELING—Sheridan, Wyo.

Bids received by Board of Trustees, Richard E. White, director, Northern Wyoming Community College, Sheridan, for remodeling work at the college building. Bids opened November 7. LOW BIDS—GENERAL: Husman Bros., 1200 Big Horn Ave., Sheridan, $1,427. MECHANICAL: Sollars Plumbing, 41 E. 5th, Sheridan, $1,638. ELECTRIC: C. N. Bohnsack Electric Shop, 131 Sioux, Sheridan, $239. SP 11-13. Previous report 10-31

SERVICE CLUB, DORMITORY— Warren AFB, Wyo.

The notice of invitation to bid has been cancelled and revised by Corps of Engineers, Omaha District, 1709 Jackson St., Omaha, Nebr., for construction of a service club at Warren AFB; ENG-25-066-57-31. Bids will be called during November for opening about December 7, by Corps of Engineers, Bldg. 50, Entrance D, Denver Federal Center, Denver, Colo., for construction of a service club and a 200-man dormitory at the base. Plans with Corps of Engineers in Omaha.

Description of the Service Club remains the same as listed in PCD 10-24. Dormitory will be three-story; 200'x40'; concrete block construction; brick facing; 1,000' of 6" and 8" water main; 800' sanitary sewer; 17,000 sq. yd. flexible paving; 1,500' of 12" and 24" storm drain; 21,000 sq. ft. walks; 700' of 3" gas line; 525' three-phase, four-wire primary power line with pole-mounted transformer station. LY 11-9. Previous report 10-24

UTAH

▲EQUIPMENT SHED— Clearfield, Utah

Bids opened November 7 by Utah State Building Board, Jerry G. King, superintendent of construction, 419 State Capitol Bldg., Salt Lake City, for construction of a seven-stall equipment shed to be constructed at Clearfield for Utah State Board Commission. LOW BIDS: Wayne A. Jensen, 140 S. 5th West, Brigham City, $42,860; John H. Mickelson & Son Co., 528 E. Center St., Logan, $44,500; Hilton & Carr Construction Co., 922 12th St., Ogden, $44,679.
GH 11-10 Previous report 11-3

●OFFICE, RESTROOMS— Hill AFB, Utah

Bids will be opened December 4 by U. S. Air Force, Ogden Air Material Area, Procurement Office, Hill AFB, for construction of new office and restrooms in warehouses IF, IG, Bldg. No. 5, Hill AFB; IFB 42-600-57-170B. Specifications with above office.
SP 11-13

★BUILDING MODIFICATIONS, IMPROVEMENTS— Hill AFB, Utah

Award to Saunders Construction Co., 700 21st St., Ogden, $4,290, by Commander, Ogden Aid Materiel Area, Directorate of Procurement and Production, Attn. OOPP-CS, Hill AFB, for modifying the ramp, dock and door paving and installing partition and doors in Bldg. S-273, Warehouse 14, Hill AFB. Bids opened October 16.
GH 11-14. Previous report 10-5

★GRANDVIEW SCHOOL— Ogden, Utah

Award to V. Jay Wadman, 820 Wall Ave., Ogden, $395,543, by Board of Education, Dr. T. O. Smith, superintendent, 2351 Grant Ave., Ogden, for construction of the Grandview School at 39th and Jackson Ave. in Ogden. Plans by Grix, Mueller & Plowgian, Inc., architects and engineers, 3930 Riverdale Road, Ogden. SP 11-9. Previous report 10-31

OFFICE, WAREHOUSE BUILDING— Salt Lake City, Utah

(Estimated cost $55,000)
Plans will be complete December 1 for a new office and warehouse building to be located at California St. and 1st West in Salt Lake City, for Dunkley Distribution & Produce Co., 70 E. Kelsey Ave., Salt Lake City. Plans by Bruce J. McDermott, architect, 366 S. 5th East, Salt Lake City.

One-story; no basement; 6,750 sq. ft.; concrete footings and foundation; poured concrete solid masonry walls; concrete slab floors; precast concrete girders, beams, columns; steeltruss roof; plasterboard partitions; steel windows; concrete and brick exterior, acoustic, asphalt and exposed block interior wall finish; exposed block trim; plaster wood lath partitions; asphalt tile flooring; wood doors, motor operated overhead doors; rigid insulation in roof; blower heating system, gas fuel. GH 11-9

UNION PACIFIC EXPANSION— Salt Lake City, Utah

(Estimated cost $84,000)
Project underway by Union Pacific Railroad Co. for an expansion program to increase general merchandise facilities at Salt Lake City. The program includes a new $65,000 freight dock and a $19,000 remodeling project. FREIGHT DOCK: One-story building; steel frame; 25'x309'; overhead doors. REMODELING: will provide more space for offices and a large storage room for perishable commodities. Both buildings are located on UPRR Co. propery east of 4th West near the North Temple viaduct, Salt Lake City.
SC 11-13

WAREHOUSE, OFFICE— Salt Lake City, Utah

Construction underway by Phillips Petroleum Co., Phillips Petroleum Bldg., Salt Lake City, for a new warehouse and city sales office to be located at 17th South and 4th West in Salt Lake City. The present sales office is located at 1395 S. Main in Salt Lake City. The 45,000 sq. ft. structure will be located on a three-acre tract of land and will be completed in spring of 1957.
SC 11-13

▲PARKING RAMP— Salt Lake City, Utah

Bids received by Zions Securities Corp., Union Pacific Bldg. Annex, Salt Lake City, for construction of a 120'x165' three-level parking garage on W. Temple in Salt Lake City. Plans by Deseret Architects & Engineers, Ness Bldg., Salt Lake City. Bids opened November 7. LOW BIDS: Johnson Construction Co., 1725 Chicago St., $561,278; Paulsen Construction Co., 1425 Jefferson St., $571,000; Alfred Brown Construction Co., Dooly Bldg., $600,401. All of Salt Lake City.
GH 11-13. Previous report 10-26

●JUNIOR HIGH ALTERATIONS— Salt Lake City, Utah

Bids will be opened 7:30 p. m., January 15, by Granite School District, David Gourley, superintendent, 3212 S. State, Salt Lake City, for converting the present facilities at the E. Kearn School into permanent junior high school. Plans with Woods & Woods, architects, 19 W. S. Temple, Salt Lake City. $50 deposit.

Project includes a 39-classroom junior high school for 1200 students. Concrete footings and foundations; solid masonry walls; concrete slab floors; concrete precast beams; steel truss roof; concrete stairways; steel windows; masonry block wall finish; block partitions; asphalt tile floors; acoustical ceilings; metal exterior, wood interior doors; wood cabinet; blackboards; rigid insulation in roof; radiation heating system, gas fired.
GH 11-13. Previous report 12-15, 1956

■GARFIELD ELEMENTARY SCHOOL REMODELING— Salt Lake City, Utah

Planholders announced for remodeling the toilet rooms at Garfield Elementary School at 1838 S. 15th East in Salt Lake City. Bids will be opened 3:30 p.m., November 20, by Salt Lake City Board of Education, Dr. M. Lynn Bennion, superintendent, 440 E. 1st South, Salt Lake City. Plans with Burtch W. Beall, architect, 727 Continental Bank Bldg., Salt Lake City.

Planholders: Hogan & Tiney, 540 E. 3600 South, Centerville; Security construction Co., 5875 Holladay Blvd.; Johnson Construction Co., 1725 Chicago St.; Finn B. Paulsen, 3181 S. 1940 East; Maurice B. McCullough, 503 13th Ave.; Ed Greenwood, 1841 E. 9th South. All of Salt Lake City unless noted.
GH 11-14. Previous report 11-7

SPERRY-RAND PLANT— Salt Lake City, Utah

Plans announced by Sperry Gyroscope Division of Sperry-Rand Corp., Carl A. Frische, vice president of operations for the division, Great Neck, L. I., for construction of a second plant-unit at its Sperry Utah Engineering Laboratory in Salt Lake City. The modulator styled facility would be located near the present 50,000 sq. ft. plant adjacent to Salt Lake City Municipal Airport No. 1.
SC 11-14

ALASKA

●MILITARY BUILDINGS— Alaska

Bids to be opened 11 a. m., November 30, by Corps of Engineers, Alaska District, D-E Bldg., Anchorage, for construction of an addition to operations building at Campion Air Force Station, construction of a transmitter building and receiver building, rehabilitation of aerial and underground electrical distribution, and construction of TACAN facilities at Galena Airport, Alaska; ENG-95-507-57-33. Plans with district engineer, above address or Seattle Branch office, 4735 E. Marginal Seattle. Bid bond 20%.

GW 11-10

■AMMUNITION STORAGE— Elmendorf AFB, Alaska

Planholders announced for the construction of ammunition storage at Elmendorf AFB, Wash.; ENG-45-108-57-36. Bids will be opened 11 a. m., December 4, by Corps of Engineers, Alaska District, in the Seattle Branch Office, 4735 E. Marginal Way, Seattle. Plans with district engineer, D-E Bldg., Anchorage, and Seattle Branch office, above address. Bid bond 20%.

Planholders: Green Construction Co., 928 Securities Bldg.; Islands Construction Co., 1103 N. 36th; Peter Kiewit Sons' Co., 1300 Aloha; M-B Contracting Co., Inc., 1019 Lloyd Bldg.; S. S. Mullen Co., Inc., 646 Holgate; Chris Berg Contracting Co., Inc., 2730 Westlake Ave. N.; J. C. Boespflug Construction Co., 1912 4th Ave. S.; Morrison-Knudsen Co., Inc., 603 Hoge Bldg., Seattle; J. B. Warrack Co., 400 2nd Ave. W.; Sam P. Wallace & Co., 3200 E. Lexington Way, Mercer Island; Allen Construction and Erection Co., 1414 N. Proctor, Tacoma; James S. Baker Co., 311 California, San Francisco, Calif. All of Seattle unless otherwise stated.

GW 11-10. Previous report 10-26

HEATING SYSTEM— Juneau, Alaska

Project temporarily abandoned by Gastineau Hotel, Inc., Juneau, for reconstruction of the heating system in the Gastineau Hotel. Bids were received October 1 and all rejected as too high. Bids may be called again at a later date.

GW 11-10. Previous report 9-26

CHURCH BUILDING ALTERATIONS, RECTORY— Ketchikan, Alaska

(Estimated cost $100,000)

Preliminary plans underway by Charles A. Baylon & Associates, architects, 912 Elliott Ave. W., Seattle, Wash., for alterations to St. John's Episcopal church and construction of a new rectory at 215 Bawden, Ketchikan. Bids will be called by St. John's Episcopal Church, Rev. John K. Watkins, rector, 215 Bawden, Ketchikan.

GW 11-14

CHURCH— Ketchikan, Alaska

Site being selected by First Methodist Church, Reeves Ravens, pastor, parsonage, 440 Bawden, Ketchikan, for construction of a new church building in Ketchikan. Preliminary plans underway by Charles A. Baylon & Associates, architects, 912 Elliott Ave. W., Seattle, Wash. GW 11-14

■AMMUNITION STORAGE FACILITIES— Ladd AFB, Alaska

Planholders announced for construction of ammunition storage facilities at Ladd AFB; ENG-95-507-57-37. Bids will be opened 11 a. m., November 29, by Corps of Engineers, Alaska District, D-E Bldg., Anchorage. Plans with district engineer, above address, and with Seattle Branch office, 4735 E. Marginal Way, Seattle. Bid bond 20%.

Planholders: Vermiculite Contractors, Inc., 2107 N. 24th; Allen Construction and Erection Co., 1414 N. Proctor, Tacoma; Grove, Shepherd, Wilson & Kruge, Inc., 120 6th Ave. N.; Chris Berg, Inc., Contractors, 2730 Westlake Ave. N.; S. S. Mullen, Inc., 646 Holgate; Islands Construction Co., 1103 N. 36th; S. Birch & Sons Co., 208 Central Bldg.; Green Construction, 928 Securities Bldg.; J. C. Boespflug Construction Co., 1912 4th Ave. S.; Morrison-Knudsen Co., Inc., 603 Hoge Bldg., Seattle; Peter Kiewit Sons' Co., 1300 Aloha. All of Seattle unless otherwise stated.

GW 11-10. Previous report 10-20

●JUNIOR-SENIOR HIGH SCHOOL— Valdez, Alaska

(Estimated cost $512,000)

Bids will be opened 10 a. m., December 19, by Alaska Public Works, Thomas G. Mooney, director, Box 1181, Juneau, for construction of a junior-senior high school in Valdez; Proj. Aaa 50-A-159. Plans with above office. $25 deposit. Certified check or bid bond 5%. Plans by Manley & Mayer, architects, 210 Loussac Sogn Bldg., Anchorage. Structural engineers are Worthington & Skilling, Lloyd Bldg., Seattle; mechanical engineer, C. A. Pangborn, Arcade Bldg., Seattle; electrtical engineer, Howard E. Schroedel, Lowman Bldg., Seattle.

One-story; no basement; 17,000 sq. ft.; concrete footings and foundation; metal panels over steel walls; concrete slab floors; steel girders, beams, calumns; flat roof; masonry and frame partitions; wood-trim windows; 2" fiberglass insulation in walls, 2" rigid insulation in roof; unfinished concrete block corridor, ½" unfinished natural birch in classrooms; Mirrowall and Robertson Q-panel interior finish; asphalt tile (classrooms), hardwood (multi-purpose room) floor finish; acoustical plank ceilings; wood-metal framed doors; wood and metal cabinets; folding bleachers, tables, blackboards, science room and kitchen equipment; forced hot air heating system; hot air ventilating system; air conditioning with heating system. JU 11-13. Previous report 8-4

COLORADO

▲HEADQUARTERS AND SECURITIES BUILDINGS— Colorado Springs, Colo.

Bids received by Air Force, Academy Construction Agency, Box 1670, Colorado Springs Colo., for construction of Air Base Group Headquarters Building and Security Force Building on the Air Force Academy site located about 10 miles north of Colorado Springs; Inv. No. (IFB) 05-613-57-5. Bids opened October 30. LOW BIDS: Dondlinger & Sons Construction Co., Inc., 1206 E. Lincoln St., Wichita, Kans., $727,693; B. H. Baker, Inc., Box 173, Colorado Springs, $738,558; Martin H. Eby Construction Co., 610 N. Main St., Wichita, $738,885.

SP 11-9. Previous report 10-9

ENGINEERING NEWS

Washington, Oregon, Idaho, Montana, Wyoming, Utah, Alaska

- ● Bids Called
- ★ Contract Awards
- ▲ Low Bids—Bids Received
- ■ Planholders—Prospective Bidders

OREGON

STORM SEWERS— Albany, Ore.

Sewer tax estimated at $85,000 proposed by Albany City Council, turned down by voters in November 6 election. Money would have financed a storm sewer construction program. AH 11-9

SEWER CONSTRUCTION— Clatskanie, Ore.

Sewage disposal program for city of Clatskanie approved at November 6 election. AH 11-9

★AIR COMPRESSOR, WHEELBARROW— Astoria, Ore.

Awards announced by Brewer A. Billie, city manager, City Hall, Astoria, for one gasoline driven, wheeled trailer type air compressor for use by the Public Works Department, and for one gasoline or electric motor-driven wheelbarrow for use in the Ocean Valley Cemetery. Bids opened November 2. AWARDS—COMPRESSOR: Contractors' Equipment Corp., 2727 S.E. Union Ave., Portland, $2,990. WHEELBARROW: Nelson Equipment Co., 5251 S.E. McLoughlin Blvd., Portland, $1,034.

SP 11-10. Previous report 10-26

★DRYER-MIXER PLANT— Estacada, Ore.

Award by U. S. Forest Service, Frank Walisch, regional supply officer, 729 N.E. Oregon St., room 18, Portland, for bituminous dryer-mixer plant, fob Mt. Hood National Forest, Whitewater Camp, 19 mi. southeast of Estacada; Inv. No. 107. AWARD: Columbia Equipment Co., 1240 S.E. 12th Ave., $5,450. OTHER BIDS: Nelson Equipment Co., 5251 S.E. McLoughlin Blvd., $5,588; Feenaughty Machinery Co., 112 S.E. Belmont St., $5,615. Of Portland. Bid opening was scheduled for November 2, but postponed until Novcember 9. WB 11-13. Previous report 11-1

●PUMPING PLANT— Eugene, Ore.

Bids will be opened 2 p.m., November 23, by Lane County School District No. 504C, Administration Bldg., 275 7th Ave. E., Eugene, for construction of a sewage pumping plant for the North Eugene High School on River Road. Plans with above office.

SC 11-9

ROAD CONSTRUCTION— Hillsboro, Ore.

Special road levy proposed by Washington County Commissioners, Courthouse, Hillsboro, Ore., defeated in November 6 election. Levy would have provided $250,000 a year for five years for road construction.

AH 11-9

▲BUS DUCT MODIFICATION— Lookout Point Reservoir, Ore.

Bids received by Corps of Engineers, Portland District, 628 Pittock Block, Portland, for modification of the outdoor portion of the 15 kv insulated bus duct at the Lookout Point Dam Powerhouse, Lookout Point Reservoir, Middle Fork Willamette River, Ore.; CIVENG-35-026-57-93. BIDDERS: Olson Electric Co., 710 W. 8th St., aVncouver, $10,942; Western Electrical Construction Co., 1639 N.W. Raleigh St., Portland, $13,009. Bids opened November 8.

WB 11-10. Previous report 10-17

▲WATER SYSTEM— Lyons, Ore.

Bids received by Lyons Water District, c/o Wilson Stevens, secretary, Lyons, at the office of M & M Plywood Co., Lyons, for construction of a domestic water system. Plans by Cornell, Howland, Hayes & Merryfield, consulting engineers, 1600 Western Ave., Corvallis. Bids opened November 6. LOW BIDS: Kinsey Construction Co., Stayton, $33,568; O. L. Soule, 2645 S.E. 111th, Portland, $33,729; Butler Construction Co., Salem, $35,881.

SC 11-10. Previous report 10-20

▲SUBSTATION ADDITIONS—Milton, Ore.

Bids received by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for construction of Bank No. 2 additions to Milton substation located at the south end of Milton, Umatilla County, Ore.; Inv. No. 8191. BIDDERS: George S. Smith, Route 1, Box 19A, Bothell, Wash., $13,179; Witzig Electric Co., 223 S. 4th, Corvallis, $13,475; Olson Electric Co., 710 W. 8th, Vancouver, $14,396. Bids received November 8.

WB 11-10. Previous report 11-6

▲SEWERS— North Bend, Ore.

Bids opened by city engineer's office, City Hall, North Bend, for construction of 1956 Sewer Program, Assessment District No. 158, North Bend. Bids opened November 5. BIDDERS: Gordon Lloyd, Coquille, Ore., $4,633; Sig Andersson, 1371 Bay View, North Bend, $4,999; Bruce W. Keen Sewer Service, 1095 B, Springfield, Ore., $5,537; G. C. Stubert, Sutherlin, Ore., $6,277; P. S. Lord Mechanical Contractors, 4507 S.E. Milwaukie Ave., Portland, $6,500; A. T. Fox, 1735 Virginia, North Bend, $9,410.

AH 11-10. Previous report 10-31

● CRUSHED ROCK, CRUSHED GRAVEL, UNCRUSHED GRAVEL— Portland, Ore.

Bids to be opened 2 p.m., November 20, by city purchasing agent, 208 City Hall, Portland, for 30,000 c.y. of ½" minus and 2,000 c.y. of ¼" minus crushed gravel or crushed rock. WB 11-9

● TRUCKS— Portland, Ore.

Bids to be opened 2 p.m., November 29, by city purchasing agent, 208 City Hall, Portland, for 4, 2-ton cab and chassis; 2, 2-ton chassis and cab; 6 chassis and cab (GVW 19,000, 21,000 and 27,000 lbs.); 1, 6-ton dual drive truck and 1, 1½-ton chassis and cab. WB 11-9

▲PILE DIKE REPAIR, DOLPHINS— Portland, Ore.

Bids received by Corps of Engineers, Portland District, 628 Pittock Block, Portland, for repairing existing pile dikes and constructing dolphins at various locations in the Columbia River between the mouth of the Willamette River and Bradwood, Ore.; CIV-ENG-35-026-57-103. BIDDERS: Hanly Salvage Co., 3912 Pacific Way, Longview, Wash., $28,289; General Construction Co., P. O. Box 3860, Portland, $29,756; Palmberg Construction Co., P. O. Box 991, Astoria, $31,550. Government estimate, $25,052. Bids opened November 7. WB 11-9. Previous report 11-1

● GRADING— Portland, Ore.

Bid opening postponed from November 7 to 10 a.m., November 21, by Bureau of Public Roads, F. E. Andrews, division engineer, 753 Morgan Bldg., Portland, for grading 4.431 miles, Oregon FHP 51-B, Unit 1, Belknap Springs Highway, Willamette National Forest, Linn and Lane counties, Ore. Postponement due to snow conditions.

WB 11-9. Previous report 11-1

● ASPHALT— Portland, Ore.

Bids to be opened 2 p.m., November 21, by city purchasing agent, L. W. Rayner, 208 City Hall, Portland, for 2,500 tons 41-100 penetrating asphalt and 350 tons SC-3 liquid asphalt, for calendar year 1957. WB 11-9

● MUCK SAND— Portland, Ore.

Bids to be opened 2 p.m., November 20, by city purchasing agent, 208 City Hall, Portland, for 8,000 c.y. muck sand. WB 11-9

▲APRON PAVING, PARKING LOT— Portland, Ore.

Bids received by Port of Portland, John J. Winn, Jr., general manager, 5848 N. Lagoon Ave., P. O. Box 4099, Portland, for construction of a new terminal apron and first stage parking lot at Portland International Airport. LOW BIDS: Warren Northwest Inc., 9860 N.E. Hancock Dr., Portland, $554,263; Porter W. Yett, 6500 N.E. Ainsworth St., Portland, $561,796; Parker-Schram Co., Builders Exchange Building, Portland, $619,305.

WB 11-9. Previous report 11-2

BRIDGE APPROACHES— Portland, Ore.

Bond issue for $1,500,000 approved for Multnomah County, James M. Gleasan, chairman of Board of Commissioners, Courthouse, Portland, for new approaches for the west end of the Hawthorne Bridge.

WB 11-10. Previous report 9-5

WATER SYSTEM— Portland, Ore.

Bond issue for $300,000 approved by Rockwood Water District east of Portland for new water supply line and storage reservoirs. Plans by Elden W. Carter, consulting engineer, 1207 Portland Trust Bldg., Portland. District includes Union Pacific Railroad's proposed industrial development, and is roughly bounded by Banfield Expressway, Division St., 140th Ave. and Gresham city limits. Project planned to provide permanent water supply line to district, connecting with City of Portland Conduit No. 4; 16" to 8" pipe. WB 11-10

TRUNK SEWERS— Portland, Ore.

Tax levy to raise $5,000,000 for overhauling trunk sewers defeated for City, William A. Bowes, commissioner of public works, City Hall, Portland.

WB 11-10. Previous report 8-17

★SEWERS— Portland, Ore.

Awards by city auditor, Will Gibson, City Hall, Portland, for two sanitary sewer projects. AWARDS—S.W. TROY ST: Samuel K. Azar, 5306 S.E. 99th Ave., Portland, $8,861. S.W. DOLPH ST.: P. S. Lord Mechanical Contractor, 4507 S.E. Milwaukie Ave., Portland, $2,196. WB 11-10. Previous report 11-2

▲STREET IMPROVEMENTS—Portland, Ore.

No bids received November 7 by Will Gibson, city auditor, City Hall, Portland, for improvement of S.W. Robins Crest Drive. Since project has been advertised twice with no bids received, work may be done by force account.

WB 11-10. Previous report 11-2

★STREET IMPROVEMENTS—Portland, Ore.

Award to Portland Road & Driveway Co., 7295 S.E. King Road, Portland, $2,473, by city auditor, Will Gibson, City Hall, Portland, for improvement of N.E. Hoyt St. Bids opened July 18.

WB 11-10. Previous report 7-13

★HEADWALL TIDEGATE— Portland, Ore.

Award to Charles S. Camplan, 2035 S.W. 58th Ave., Portland, $4,105, by city purchasing agent, 208 City Hall, Portland, for reconstruction of headwall for N.E. 13th Ave. Trunk Sewer. WB 11-10. Previous report 11-2

★STATE HIGHWAY PROJECTS— Portland, Ore.

Awards announced by Oregon State Highway Commission, Portland, for highway construction on which bids opened November 8.

CANNON BEACH JUNCTION SECTION—Grading and paving 0.2 mile, highway illumination on Sunset and Oregon Coast highways, Clatsop County, about three miles south of Seaside; a State Project.

AWARD: Eugene Gardens, Eugene, $19,970.

SOUTH FORK YACHATS RIVER BRIDGE No. 1 and 4—Construct 90' and 80' reinforced concrete deck bridges over the South Fork Yachats River, eight miles east of Yachats, Lincoln County; a County Project.

Referred to Lincoln County for award.

LOW BIDS: Frank Watt Construction Co., Portland, $32,160; Babler Bros., 4617 S.E. Milwaukie, Portland, $33,824; Tom Lillebo, 524 Greenwood, Reedsport, $33,984.

BEVERLY BEACH STATE PARK LATRINE—Construct one standard latrine, including septic tank and disposal field at above park on Oregon Coast Highway, six miles south of Depot Bay, Lincoln County; a State Project.

AWARD: Lee Built Homes and John D. Backen, Springfield, $6,569.

FOGARTY CREEK STATE PARK LATRINE—Construct one standard latrine, including septic tank and disposal field at above park on Oregon Coast Highway, 2.4 miles north of Depoe Bay; a State Project.

AWARD: Lee Built Homes, Springfield, $6,980.

NEWBERG - GERIN CORNER — Construct 1,090' reinforced concrete and steel girder bridge over the Willamette River and three overflow bridges with lengths of 150', 225' and 425' on Newberg-Gerin Corner Section of the Hillsboro-Silverton Highway, Marion and Yamhill counties; FAP No. S-227(5).

Referred to engineer.

LOW BIDS: Manson Construction & Engineering Co., 5209 E. Marginal Way, Seattle, $1,187,980; Peter Kiewit Sons' Co., Box 1777, Vancouver, $1,203,152; General Construction Co., 4850 N.W. Front, Portland, $1,211,345.

NORTH PORTLAND—Construct 34'x54'6" masonry block addition to existing maintenance building at 521 N.E. Russett in Portland, Multnomah County; a State Project.

AWARD: H. A. Stark Concrete, Portland, $8,610.

HINCKLE-BUCKS CORNER SECTION—Grading 0.25 miles and 1.22 miles of asphaltic concrete paving on Hermiston Highway about three miles south of Hermiston, Umatilla County; FAP No. 8-86(2).

Referred to engineer.

LOW BIDS: L. W. Vail Co., Inc., Box 847, Pasco, $61,042; Erland & Blickle, Box 1945, Portland, $68,867; E. H. Itschner Co., Molalla, $68,887.

CHENOWETH CREEK-THE DALLES SECTION—Grading and asphaltic concrete paving 1.88 miles, construct 144' reinforced concrete structure on Columbia River Highway about 1.4 miles west of The Dalles, Wasco County; Federal Interstate Project No. 1-36(10).

Referred to engineer.

LOW BIDS: Roy L. Houck & Son, 1585 N. 20th, Salem, $632,556; Rogers Construction Co., 11760 N.E. Glisan, Portland, $646,943; Gibbons & Reed, Box 4989, Portland, $660,706.

MILL CREEK BRIDGE, SHERIDAN UNDERCROSSING—Construct 180' reinforced concrete deck girder bridge over Mill Creek and 268' reinforced concrete deck girder grade separation structure at Sheridan on Valley Junction-Sheridan Section of Salmon River Highway, Yamhill County; FAP No. F-300(9).

AWARD: Tom Lillebo, Reedsport, $96,523.

17TH STREET-COZINE CREEK SECTION—Grading and asphaltic concrete paving on 1.20 miles of Pacific Highway West (southbound) in McMinnville, Yamhill County; FAP No. U-122(10).

Referred to engineer.

LOW BIDS: Perkins Bros., 10324 N.E. Halsey, Portland, $222,778; Logan, Taylor & Co., 7800 N.E. Killingsworth, Portland, $262,158; J. C. Compton Co., McMinnville, $275,665.

SP 11-10. Previous report 11-9

★STATE HIGHWAY PROJECT— Portland, Ore.

Award announced by Oregon State Highway Commission, Salem, for a highway construction project on which bids opened September 28.

37th AVENUE - 42nd AVENUE SECTION—Construct 0.36 mile roadway including stone base; a 125' reinforced concrete box girder extension to existing Sandy Blvd. Viaduct; a 450' on-ramp to the Banfield Expressway in Portland, Multnomah County; Federal Interstate Project No. I-323(20).

AWARD: Donald M. Drake Co., 1600 N.W. Savier, Portland, $455,002.

SP 11-9. Previous report 10-2

▲GRADING, BRIDGE— Portland, Ore.

Bids received by Bureau of Public Roads, Box 3900, Portland, for grading and constructing a 145' reinforced concrete girder bridge on 2.174 mi. Boulder Creek Road (Project BLM 7-A) and for grading 3.660 mi. Yellowbottom Creek Road, (Project BLM 2-B), both located in Bureau of Land Management-Salem district, Linn County, Ore.; Oregon Timber Access Road Projects. BIDDERS—BOULDER CREEK ROAD: Timber Access Industries Co., Corvallis, $202,359; J. Ira McNutt Construction Co., P. O. Box 296, Springfield, $216,623; Cedar Creek Logging Co., P. O. Box 147, Sweet Home, $242,533; White Bros., Walla Walla, $245,148; S. W. Groesbeck, 2387 Alder St., Eugene, $257,562; C. J. Eldon, P. O. Box 5686, Portland, $274,609. YELLOWBOTTOM CREEK ROAD: Cedar Creek Logging Co., $206,425; Norquist Bros., 1327 "L" St., Sweet Home, $207,877; White Bros., $223,492; J. Ira McNutt, $224,274; S. W. Groesbeck, $249,530; C. J. Eldon, $281,685. Bids opened November 9.

WB 11-13. Previous report 11-1

★GRADING— Portland, Ore.

Award to Martin Kincheloe, P. O. Box 1144, Myrtle Point, $391,960, by Bureau of Public Roads, 753 Morgan Bldg., Portland, for constructing 9.609 miles grading, Oregon Timber Access Road Project GLM 621-A and 622-A, Middle Creek Road and North Fork Middle Creek Road, Bureau of Land Management-Coos Bay District, Coos County, Ore. WB 11-13. Previous report 11-6

▲GATE VALVES, CHECK VALVES— **Portland, Ore.**

Bids received by city purchasing agent, 208 City Hall, Portland, for gate valves and check vales. BIDDERS—GATE VALVES: Pacific States Cast Iron Pipe Co., Portland Trust Bldg., $31,347; Pacific Water Works Supply Co., 0440 S.W. Porter St., $31,973; Waterworks Supplies Co., 4455 S.E. 24th Ave., $33,219; Utilities Supplies Co., 7830 N.E. Halsey St., $32,974; Consolidated Supply Co., 2300 N.W. 26th Ave., $33,526; Fred G. Greaves Co., Concord Bldg., $33,910; Rensselaer Valve Div., Ludlow Valve Manufacturing Co., 1252 1st So., Seattle, $35,807. CHECK VALVES: Grinnell Co. of Oregon, 3240 N.W. 29th Ave., $4,520; Consolidated Supply Co., $4,624; Pacific Water Works Supply Co., $4,632; Utilities Supply Co., $4,766; Peerless Pacific Co., 2238 N. Interstate Ave., $4,797; Waterworks Supply Co., $4,801; Fred Greaves Co., $4,919; Rensselaer Valve Div., $4,970. Of Portland. Bids received November 8.
WB 11-13. Previous report 11-2

●GRADING— **Portland, Ore.**

Bids to be opened 10 a.m., November 29, by Bureau of Public Roads, 753 Morgan Bldg., Portland, mail address, Box 3900, Portland, for grading 6.830 mi. Oregon Timber Access Road Project BLM 6-A, Yellowstone Creek Road, Bureau of Land Management-Salem District, Linn County, Ore. Plans with F. E. Andrews, division engineer, BPR office, Portland.

Quantities: 52 acre clearing; 35 acre grubbing; 329,100 c.y. excavation; 136 c.y. concrete; 2,428' culvert pipe. DM 11-13

●AUTOMOBILES, TRUCKS— **Salem, Ore.**

Bids will be opened 2 p.m., November 23, by State Department of Finance & Administration, Salem, for purchasing 400 automobiles and light trucks, with an option to purchase an additional 250 vehicles; Inv. No. R-6355-56. Specifications with above office. Delivery is to be made at Salem and Portland. SC 11-9

AIRPORT IMPROVEMENT— **Salem, Ore.**

Proposed $50,000 special tax for city airport improvement was defeated by voters in the November 6 election. SC 11-13

●LOADER-TRACTOR-BACKHOE— **Salem, Ore.**

Bids to be opened 10 a.m., November 23, by Marion County Commissioners, room 110, Courthouse, Salem, for a loader-tractor-backhoe. Specifications with county engineer, Courthouse. Certified check or bid bond 10%. DC 11-14

WATER FILTRATION PLANT— **Silverton, Ore.**

Bond issue for $200,000 approved for City, R. E. Borland, city manager, Silverton, for construction of water filtration plant and necessary pipelines. Plans by John W. Cunningham & Associatts, consulting engineers, 1112 Portland Trust Bldg., Portland.
WB 11-10. Previous report 9-20

●CEMETERY— **The Dalles Dam, Ore. and Wash.**

Bids will be opened 2 p.m., November 26, by Corps of Engineers, Portland District, 628 Pittock Block, Portland, for relocation of Indian burials on two islands behind The Dalles Dam and reinterring the bodies and remains at Indian cemeteries to be constructed on the Washington shore of the Columbia River and at the dam's Oregon shore viewpoint; CIVENG-35-026-57-113. Specifications with above office. Completion time January 31 (all work below elevation 155' above mean sea level), January 20 (reinterment) and April 15 (all work), 1957. Removal of the burials on Memaloose Island and Grave Island is necessary because they would be subject to flooding after filling The Dalles Dam reservoir in spring of 1957. Reinterment of the Memaloose Island burials will be in a new site known as the "Wish-ham Cemetery," to be constructed on Government-owned land in Klickitat County, Wash., about one mile north of The Dalles bridge. Those on Grave Island will be reburied in a concrete tomb on Governnment-owned land at the Oregon shore viewpoint overlooking The Dalles Dam. SP 11-13

★ROAD CONSTRUCTION— **Zigzag, Ore.**

Award to Fred H. Stegeman, 455 "A" St., Lebanon, $142,572, by U.S. Forest Service, Frank Walisch, regional supply officer, 729 N.E. Oregon St., Portland, for construction of a 3.2 mi. section of Salmon River Road No. 38-1, approximately four miles southeast of Zigzag, Mt. Hood National Forest, Ore.
WB 11-10. Previous report 11-8

WASHINGTON

FLOOD CONTROL— **Aberdeen, Wash.**

Levy election to raise $47,900 was defeated November 6 according to Grays Harbor County Commissioners, Courthouse, Aberdeen. The levy was to be used for river and flood control purposes.
SC 11-10. Previous report 9-22

●COMPRESSOR-REFRIGERANT— **Ampere, Wash.**

Bids will be opened 2 p.m., November 30, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for furnishing and delivering fob J. D. Ross Substation, Ampere, a new or factory rebuilt Chrysler "Air Temp" (or equal) refrigerant compressor for replacement in Chrysler air conditioning unit; Inv. No. 8209. Specifications with above office. SP 11-10

STREET IMPROVEMENTS, SEWERS— **Anacortes, Wash.**

Bond issue for $225,000 defeated in November 6 election at Anacortes. The bond issue would have financed storm sewers and street improvements.
SC 11-10. Previous report 10-6

STREET LIGHTING— **Auburn, Wash.**

Bond issue for $35,000 approved in November 6 election held by City Council, City Hall, Auburn, to finance street lighting in Auburn. SC 11-9. Previous report 9-27

PARKS, STREETS— **Bellevue, Wash.**

Two bond issues approved in November 6 election held by City Council, City Hall, Bellevue. Approved were $125,000 for the sition of park sites and $75,000 for the city's share of the cost of improving arterials. SC 11-9. Previous report 9-22

PORT EXPANSION— **Bremerton, Wash.**

Special election proposition approved November 6 for expanding the Bremerton Port District in Bremerton, according to Kitsap County Commissioners, Courthouse, Bremerton. SC 11-10. Previous report 9-27

●PUMPING PLANTS, DISCHARGE LINES— **Bridgeport, Wash.**

Bid opening extended from November 15 to 1 p.m., November 20, by Bureau of Reclamation, Box 105, Bridgeport, for construction of Brewster Flats pumping plants and discharge lines, Chief Joseph Dam Project, Wash.; DC-4766. Specifications with above office. SP 11-13. Previous report 11-8

●PAVING— **Camp Murray, Wash.**

Bids will be opened 2 p.m., November 27, by Washington National Guard, U. S. Property and Fiscal Officer, 5114 Steilacoom Blvd. S.W., Tacoma, for asphaltic paving and construction of a concrete pad at the National Guard maintenance shop at Camp Murray. Specifications with above office.
SC 11-9

★RIPRAP— **Centralia, Wash.**

Award announced by City Council, City Hall, Centralia, for riprap bank protection work along the Skookumchuck River at Riverside Park. Bids opened November 7. AWARD: Pacific Sand & Gravel Co., Box 628, Centralia, $5,968. 2ND LOW: Cascade Hauling Co., 918 K St., Centralia, $6,445. 3RD LOW: J. A. Hendricks Construction Co., Riverside Drive, Mount Vernon, $6,960.
SP 11-10. Previous report 10-27

★WATER PIPE— **Chehalis, Wash.**

Award to U. S. Pipe & Foundry, 666 White-Henry-Stuart Bldg., Seattle, $3.241 per foot, by City Commission, City Hall, Chehalis, for 3,000' to 5,000' of water pipe for replacement of city water line and an extension of that line. SP 11-9. Previous report 10-11

FIRE TRUCK— **Chehalis, Wash.**

Bond issue for $40,000 approved in November 6 for purchase of a new fire truck.
SC 11-13

POWER PLANT— **Cle Elum, Wash.**
(Estimated cost $50,300,000)

Preliminary report by Ford, Bacon & Davis, consulting engineers, New York, for the State Power Commission, J. Frank Ward, managing director, Smith Tower, Seattle, for construction of a plant with two 156,250 kw steam generating units. A $65,000,000 revenue bond issue was recommended. Surplus secondary power would be bought from Bonneville Power Administration when available but the steam plant would operate with coal mined in the Roslyn-Cle Elum area about half of the year. A $275,000 appropriation will be needed to design the plant. GW 11-10

SEWERAGE SYSTEM— **Des Moines, Wash.**

Two bond issues for $600,000 and $100,000 approved in November 6 election held by Des Moines Sewer District, Des Moines, to finance a sewerage system in the district.
SC 11-9. Previous report 10-27

●SPRINKLER SYSTEM—Des Moines, Wash.

Bids to be opened 9:30 a.m., November 19, by King County Commissioners, W. R. Carroll, county purchasing agent, room 606, County-City Bldg., Seattle, for furnishing and installing a sprinkling system in Des Moines Playfield, 10th Ave. S., and Puyallup, Des Moines. Specifications with purchasing department. GW 11-14

★WATER DISTRIBUTION SYSTEM— **Edmonds, Wash.**

Award by LID No. 9, Silverlake Water District, Leo Nelson, secretary, Route 4, Box 485, Everett, for construction of a water distribution system in Edmonds. Plans by R. E. Wolff, district engineer, 1506 Smith Tower, Seattle. AWARD: Frank Coluccio Construction Co., 7778 Seward Park Ave., Seattle, $51,894. ONLY OTHER BID: Argentieri & Colorassi, 1815 Jackson, Seattle, $58,271. Bids opened November 21. Award was made on cast iron pipe.
GW 11-14. Previous report 11-10

STREET IMPROVEMENTS—Endicott, Wash.

Ten-mill levy approved in November 6 election to finance street improvements in Endicott. MH 11-14

▲SUPPLEMENTAL LINING, CULVERT— **Ephrata, Wash.**

Bids received by Bureau of Reclamation, Box 368, Ephrata, for supplemental lining and culvert, Block 45, near Othello, Adams County, Wash.; Spec. No. 117C-402. Bids opened November 6. LOW BIDS: Carl Hohner, E. 6203 Sharp Ave., Spokane, $198,070; Cherf Bros. & Sandkay, Inc., Box 938, Ephrata, $198,415; Glenn Cusky, Libby, Mont., $199,465. SC 11-10. Previous report 10-12

▲PUMPING PLANT, LATERALS, LINES— **Ephrata, Wash.**

Bids received by Bureau of Reclamation, Box 368, Ephrata, for White Bluffs Pumping Plant No. 1, laterals and discharge lines, Block 20, Columbia Basin Project, Wash.; Spec. No. DC-4767. Bids opened October 31. LOW BIDS: Syblon-Reid Construction Co., Box 587, Warden, $235,146; Cherf Bros. & Sandkay, Inc., Box 938, Ephrata, $256,171; Lewis Hopkins Co., 221 S. 3rd, Pasco, $264,508.
SC 11-10. Previous report 9-25

★PUMPING PLANT— **Ephrata, Wash.**

Award to Mast & Myers, c/o Colfax Iron Works, West Highway 10, Moses Lake, Wash., $17,931, by Bureau of Reclamation, P. R. Nal-

der, project manager, Box 368, Ephrata, for construction of EL85A Low Canal Laterals, Block 47, about 11 mi. southeast of Othello; Spec. No. 117C-396.
AH 11-10. Previous report 10-19

NATURAL GAS DISTRIBUTION SYSTEM— Ephrata, Wash.
(Estimated cost $1,350,000)
Voters approved $550,000 in gas revenue bonds in November 6 election held by City Council, City Hall, Ephrata, to finance acquisition of right-of-way, laying of pipelines and installation of a natural gas distribution system in Ephrata. Also approved in the election was a $35,000 bond issue for purchase of a fire pumper.
SC 11-10. Previous report 9-26

PARK SITES— Everett, Wash.
Levy for $250,000 defeated in November 6 election held by Snohomish County Commissioners, Courthouse, Everett, for acquisition of park sites and their improvements and development. The levy would have provided for acquisition of two lake shore areas, Lundeen's Park on Lake Stevens and property at the north end of Lake Ballinger.
HH 11-9. Previous report 9-15

WATER LINE— Fairchild AFB, Wash.
Bids will be called during November for opening about December 11, by Corps of Engineers, Seattle District, 4735 E. Marginal Way, Seattle, for F-07 Control Area Water Supply, Fairchild Defense Area, Fairchild AFB, Wash.; ENG-45-108-57-76. Plans will be available soon from the district engineer, above address.
Project consists of construction of approximately 9,000' of 2½" water line and appurtenances; and construction of a pump house approximately 8'x10'.
GW 11-9

●RUNWAY, TAXIWAY EXTENSION— Geiger AFB, Wash.
Bid opening established as 2 p.m., November 30, by Corps of Engineers, Seattle District, 4735 E. Marginal Way, Seattle, for construction and extension of runway 3-21 and extension of alert taxiway at Geiger AFB; ENG-45-108-57-34. Plans with district engineer, above address. Bid bond 20%.
Project involves clearing, removing existing pavements, removing and relocating existing structures; 186,000 c.y. unclassified excavation; 118,500 sq. yd. subgrade earth preparation; 40,000 sq. yd. subgrade rock preparation; 68,000 c.y. select material fill; 13,100 c.y. subbase course; 26,300 c.y. base course; 18,230 bbl. portland cement; 11,370 c.y. portland cement concrete; 240 ton asphalt prime coat; 166 ton asphalt tack coat; 1,300 ton asphalt cement; 21,000 ton asphaltic concrete; remove and relocate fuel tanks, water lines, storm drains; 740' raising chain link fence; 12' of 12" culvert; furnish and install cable; remove and relocate runway light; miscellaneous work.
GW 11-13. Previous report 9-12

SEWER SYSTEM— Harrah, Wash.
Bond issue for $49,000 approved in November 6 election held by City Council, City Hall, Harrah, to finance construction of a system of trunk lines and laterals and a sewage disposal plant. Preliminary surveys have been completed by Gray & Osborne, consulting engineers, 228 S. 2nd St., Yakima.
IG 11-10

■SOUTH SHORE CONSTRUCTION— Ice Harbor Lock and Dam, Wash.
Planholders announced for south shore construction, Ice Harbor Lock and Dam, Snake River, Walla Walla and Franklin counties, Wash.; CIVENG-45-164-57-16. Bids will be opened 2 p.m., December 18, by Corps of Engineers, Walla Walla District, Bldg. 602, City-County Airport, Walla Walla.
Planholders: Guy F. Atkinson Co., Box 741, Pasco, and 10 W. Orange Ave., San Francisco, Calif.; Campbell Construction & Equipment Co., E. 2917 Sharp Ave., Spokane; Kaiser Engineers, Division of Henry J. Kaiser Co., 1924 Broadway, Oakland, Calif.; Morrison-Knudsen Co., Inc., 603 Hoge Bldg., Seattle, and Box 450, Boise, Idaho; McLoughlin, Inc., Box 1824, Great Falls, Mont.; Farnsworth & Chambers Co., Inc., Box 74, Houston, Texas; Al Johnson Construction Co., 608 Foshay Tower, Minneapolis, Minn.; Atkinson Ostrander Co., Box 833, The Dalles, Ore.; Grove, Shepherd, Wilson & Kruge, Inc., 120 6th Ave. N., Seattle; Goslin Birmingham Mfg. Co., Inc., Box 631, Birmingham, Ala.; Peter Kiewit Sons' Co., 1024 Omaha National Bank Bldg., Omaha, Nebr., and 442 Post St., San Francisco, Calif.; Macco Construction Co., 14409 S. Paramount Blvd., Paramount, Calif.; Ostrander Construction Co., 909 Terminal Sales Bldg., Portland, Ore.; Donald M. Drake Co., Box 98, Moses Lake; The Arundel Corp. and L. E. Dixon Co., 409 S. California St., San Gabriel, Calif.; Puget Sound Bridge & Dredging Co., 2929 16th Ave. S.W., Seattle; Condon-Cunningham Co., 4229 Lafayette Ave., Omaha; Montag, Halvorson & Austin, 7805 N.E. Halsey, Portland; Carl M. Halvorson, Inc., Box 1449, Portland; Tecon Corp., 202 Davis Bldg., Dallas, Texas.
SP 11-9. Previous report 11-2

▲WATER PIPELINE— Juanita, Wash.
Bids received by King County Water District No. 72, Alfred Nichole, secretary, 12522 Holmes Point Drive N.E., Kirkland, for furnishing and installing 23,795' of 8", 6", and 4" asbestos-cement water main pipeline, together with valves, fire hydrants and necessary appurtenances. Sched. A: ULID No. 3, Sched B: ULID No. 5. BIDS: Imhoff & Johnson, Route 1, Box 29A, Buckley, $14,757 (sched. A), $66,621 (sched. B); Shoreline Construction Co., 12519 15th Ave. N.E., Seattle, $15,666, $69,924; Argentieri & Colarossi, 1815 Jackson, Seattle, $15,592, $70,315; Hanson Construction Co., 12701 Palatine Ave., Seattle, $16,953, $74,933; O. R. Alia, 2532 32nd Ave. S., Seattle, $16,512, $76,090; Frank Coluccio Construction Co., 7778 Seward Park Ave., Seattle, $16,904, $76,692.
GW 11-10. Previous report 10-27

WATER, SEWER SYSTEMS—Kalama, Wash.
Bond issue for $15,000 approved in November 6 election held by City Council, City Hall, Kalama, to finance completion of additions, improvements and extensions of the combined municipal water and sewer systems.
SC 11-10

STREET IMPROVEMENT, LIGHTING— Kennewick, Wash.
Bond issue for $148,900 approved in November 6 election held by City Council, City Hall, Kennewick, for street improvement and lighting in Kennewick.
SC 11-13. Previous report 9-27

WATER SYSTEM IMPROVEMENTS— Kingston, Wash.
Bond issue for $80,000 defeated in November 6 election held by Kingston Water District, Kingston. The proposition would have established a Kingston LID for improvement of the water system.
SC 11-10

PORT EXPANSION— Longview, Wash.
Bond isue for $1,500,000 approved in November 6 election held by Port of Longview for expansion of facilities at port.
AH 11-10

ARTERIAL STREET IMPROVEMENT— Montesano, Wash.
Bond issue for $75,000 approved in November 6 election held by City Council, City Hall, Montesano, for arterial street improvement in Montesano. Bonds will be paid for by 6/10 special levy over a 10-year period. Specifications by Howard T. Harstad & Associates, consulting engineers, 1000 Lenora, Seattle.
SC 11-10. Previous report 9-25

●EARTHWORK, STRUCTURES— Moses Lake, Wash.
Bids will be opened 10 a.m., December 11, by Bureau of Reclamation, Box 368, Ephrata, for earthwork and structures for Block 89 wasteway extensions, west of Moses Lake, Grant County, Wash.; Spec. No. 117C-404. Specifications with above office. Bid bond 10%. Work includes earthwork for construction of approximately 4.5 miles open channel for extension of existing W20F1, W20K, W20 and the W20S wasteways, the bottom widths of open channel varying from 4' to 10'; earthwork for and construction of structures along the wasteway extensions including a county road crossing, drain inlet, concrete drop and concrete chute.
Quantities: 86,300 c.y. excavation; 200 mi. c.y. overhaul; 1,250 c.y. backfill; 40 c.y. coarse gravel; 110 c.y. concrete; 100 bbl. cement; 10,300 lb. reinforcement bars; 56' reinforced concrete culvert pipe; 28' corrugated metal pipe.
SP 11-14

▲TURBINE PUMP, LIFT STATION IMPROVEMENTS— Moses Lake, Wash.
Bids received by Mabel Waterman, city clerk, City Hall, Moses Lake, for remodeling of a turbine pump and for furnishing and installing electrical equipment and wiring necessary to accommodate revisions and improvements at the main lift station of Moses Lake. Specifications by Gray & Osborne, consulting engineers, 228 S. 2nd St., Yakima. Bids opened November 9. LOW BIDS— SCHED. 1 (turbine pump No. 1): Wells & Wade Hardware, 201-15 S. Wenatchee Ave., Wenatchee, $5,043; Shinn Irrigation Equipment, Inc., Wheeler Road, Moses Lake, $5,190. SCHED. 2 (purchase and existing equipment): Wells & Wade Hardware, Wenatchee, $600; Shinn Irrigation Equipment, Inc., Moses Lake, $791.
IG 11-14. Previous report 10-30

▲PUMP HOUSE, SEWER EXTENSIONS— Moses Lake, Wash.
Bids received by Mabel Waterman, city clerk, City Hall, Moses Lake, for construction of a pump house, pump house electrical, piping and sewer extensions, Moses Lake. Specifications with Gray & Osborne, consulting engineers, 228 S. 2nd St., Yakima. Bids opened November 9. LOW BIDS— SCHED. 1 (pump house): Joe E. Venne, 507 12th St., Sunnyside, $5,203. SCHED. 2 (electrical pump house): Joe E. Venne, Sunnyside, $4,292; Rockwell Electric, W. 903 3rd, Moses Lake, $8,240; Picatti Bros., 105 S. 3rd Ave., Yakima, no amount noted. SCHED. 3 (piping, connection to reservoir): Grant County Plumbing & Heating, Box 1567, Moses Lake, $3,043; Joe E. Venne, Sunnyside, $3,077. SCHED. 4 (sewer line extension): M. J. Mullins, Box 881, Moses Lake, $10,552; Clark Cass, Moses Lake, $11,380; Jack Roberson, Inc., 865 C St. N.W., Ephrata, $18,199.
IG 11-14. Previous report 11-3

★CRUSHED SURFACING STONE— Moses Lake, Wash.
Award announced by Grant County Commissioners, Courthouse, Ephrata, for producing and stockpiling 20,000 ton crushed surfacing stone in the vicinity of Moses Lake. AWARD: Materne Bros., 1204 Francis, Spokane, $.58 per ton. OTHER BIDDERS: Unit Sand & Gravel, Electric City; F. R. Hewett Co., Box 34, Parkwater Station, Spokane; Frank G. Baulne, Box 84, Yardley; C. J. Painter, Box 51, Pasco; Basin Paving, Box 1574, Moses Lake; W. F. Herrett, Box 398, Edmonds; Marion Relyea, Stratford Road, Moses Lake.
SC 11-14

■STATE HIGHWAY PROJECTS— Olympia, Wash.
Planholders announced for highway construction on which bids will be opened 10 a.m., November 20, by Washington State Highway Commission, W. A. Bugge, director, Olympia.
YAKIMA RIVER BRIDGE — Reinforced concrete girder bridge on 0.114 mi. SSH No. 11-A, Yakima County; FAS No. S-0271(2).
Planholders: Peter Kiewit Sons' Co., Box 1777, Vancouver; J. N. Conley, 4332 N.E. Royal Court, Portland; Lee Hoffman, 415 N.W. Cedar St., Beaverton; Marshall Construction Co., 40 W. Ridgeway, Hermiston, Ore.; Hans M. Skov Construction Co., 343 Liberty Bldg., Yakima; Cherf Bros. & Sandkay, Box 938, Ephrata; Hall-Atwater Co., Box 2023, International Station, Seattle; Harry H. Hawkins, 16274 39th N.E., Seattle; Paul Jarvis, Inc., 1070 W. Ewing St., Seattle; Herman Kathman, 12054 23rd Ave. N.E., Seattle; Snitily Bros. Construction Co., Box 671, Wenatchee; Soule Steel Co., Box 3685, Terminal Annex, Seattle.
WEST SIDE ROAD—Clearing, draining, grading, surfacing with select roadway borrow on 1.439 mi. San Juan County road; FAS No. S-0311(1).
Planholders: Bass Construction Co., 12526 Aurora Ave., Seattle; C & S Construction

Co., Route 4, Mount Vernon; L. A. Hendricks Construction Co., Route 2, Mount Vernon; Herman Kathman, 12054 23rd Ave. N.E., Seattle; Morrison-Cecotti, Box 388, Mount Vernon; I. M. Saimons, Route 1, Box 788, Alderwood Manor; J. P. Surace Construction Co., 2238 Seaview Ave., Seattle; Kent & Tucker, Inc., 1431 134th Ave. N.E., Bellevue.

KALAMA RIVER, COWLITZ RIVER-SHEER BOOMS—Sheer booms on PSH No. 1, Cowlitz and Lewis counties; a State Project.

Planholders: The Hart Construction Co., 3535 E. 11th, Tacoma; General Construction Co., Box 3845, Seattle.

MAINTENANCE, STORAGE BUILDINGS—Maintenance and storage buildings at Ione and Newport in Pend Oreille County; a State Project.

Planholders: Dix Steel Co., Broadway and Fiske, Spokane; Hansen & Parr Construction Co., W. 315 Boone Ave., Spokane; Walter G. Meyers & Son, 1407 N. Calispell, Spokane; Sceva Construction Co., Inc., N. 2928 Madelia St., Spokane.

NORTH VANCOUVER SCALE HOUSE—Draining, grading, surfacing, type I-1 asphaltic concrete paving, constructing scale pit and scale house, moving and reconditioning scales and installing an illumination system in Clark County; a State Project.

Planholders: J. N. Conley, Portland; Erland & Blickle, 8265 N. Borthwick, Portland; Olson Electric Co., 710 W. 8th, Vancouver; Line Material Co., 1333 N.W. 12th Ave., Portland; Charles R. Schmiedeskamp, 1008 S.W. 6th Ave., Portland; The United Contracting Co., Box 5075, Portland.

CATHLAMET MAINTENANCE BUILDINGS—Maintenance building and oil storage house at Cathlamet, Wahkiakum County.

Planholder: Charles R. Schmiedeskamp, Portland. SP 11-13. Previous report 11-1

★TRAFFIC PAINT STRIPING— Othello, Wash.

Award announced by Georgianna Russell, city clerk, City Hall, Othello, Adams County, Wash., for furnishing and applying approximately 49,100' of traffic paint striping. Specifications by Gray & Osborne, consulting engineers, 228 S. 2nd St., Yakima. Bids opened October 29 and held under advisement. AWARD: M. J. Pippins, W. 311 Reisner Road, Moses Lake, $1,473. ONLY OTHER BID: Traffic Controls, Spokane, $2,046. IG 11-14. Previous report 10-17

●■ACCESS ROAD— Paine AFB, Wash.

Bids will be opened 2 p.m., December 6, by U.S. Air Force, Purchasing and Contracting Office, Paine AFB, for construction of an access road to the TACAN facility at Paine AFB; Inv. No. 45-602-57-22. Specifications with above office. Bid bond 20%. Work includes clearing, compaction of dirt fill and crushed stone surfacing and installation of guard posts, curbing and drainage facilities.

Planholders: Meridian Pavers, 10301 Aurora Ave., Seattle; Associated Sand & Gravel Co., 2508 Colby Ave., Everett; American Bitumuls & Asphalt Co., Box 125, Richmond Beach; Joplin Paving Co., 730 Cary Road, Edmonds; Marysville Paving Co., Route 2, Marysville; Fiorito Bros., 1100 Leary Way, Seattle; Washington Asphalt Co., 309 W. 39th, Seattle; Northwest Asphalt Co., 7343 E. Marginal Way, Seattle; Black Top Pavers, Inc., 8218 4th N.E., Seattle. HH 11-9

SEWAGE TREATMENT PLANT— Palouse, Wash.

Bond issue for $30,000 approved in November 6 election to finance construction of sewers and sewer treatment plant in Palouse. MH 11-14. Previous report 9-8

WATER TOWER REPAIR— Pasco, Wash.
(Estimated cost $10,000)

Bids will be called December 4 by City Council, City Hall, Pasco, for repair of the East Pasco water tower. Specifications by George Fisher, city engineer, at above address. Work will include interior painting and draining, inspecting and repairing tank and stand pipe. SC 11-14

PORT DISTRICT ADDITION, IMPROVEMENTS— Poulsbo, Wash.

Two propositions approved in November 6 election held by Poulsbo Port District, Poulsbo. One 2-mill, $1,000 levy for improvement to lighting and moorage facilities in the district, and annexation of additional land to the port district were approved. SC 11-10

▲POWER TRANSFORMER— Quincy, Wash.

Bids received by Bureau of Reclamation, Bldg. 53, Denver Federal Center, Denver, Colo., for furnishing and delivering fob Quincy, one 4,000-kva, 115,000 welta- to 2,400 delta-volt, 3-phase- class OA, 60-cycle, outdoor, power transformer, with tank-mounted lightning arresters, for Frenchman Springs Pumping Plant Switchyard, Columbia Basin Project, Wash.; DS-4773. Bids opened November 8. LOW BIDS: Wagner Electric Corp., St. Louis, Mo., $43,847; Allis-Chalmers Mfg. Co., Denver, $44,820; Pennsylvania Transformer Co., a McGraw Electric Co. Division, Canonsburg, Pa., $46,156. All fob Quincy. SP 11-14. Previous report 10-3

●ADAMS CREEK BRIDGE— Randle, Wash.

Bids to be opened 2 p.m., November 27, by U.S. Forest Service, Frank Walisch, regional supply officer, 729 N.E. Oregon St., Box 4137, Portland, for construction of Adams Creek Bridge on the Randle Trout Lake Road No. 123.1, approximately 25.9 mi. southeast of Randle, Lewis County, Wash., Gifford Pinchot National Forest; Bid No. 120. Plans with supply office, or Supervisor, Gifford Pinchot National Forest, 801 W. 8th St., Vancouver. Bridge approximately 39' long; treated timber construction. WB 11-14

●WASTE DITCHES— Richland, Wash.

Bids will be opened November 20 by Atomic Energy Commission, Box 550, Richland, for construction of six waste ditches in a plant area at Hanford Works, Richland. Specifications with above office.

The parallel waste ditches will each be approximately 500' long, 10' deep and 10' wide at the bottom, with 1¾" on 1' side slopes and an earth dam at midpoint therein. Work includes laying 1,500' of 4" steel pipe, 4" steel header pipe, above ground, along one ditch with four 3" steel branches in ditch; installation of chain barricades on steel posted to enclose the ditch area; construction of 30' continuous wood frame trench cover for each trench. Approximately 3,000' of gravel will be laid to complete a 14' wide surfaced access road. SP 11-10

▲TURBINE RUNNERS— Rockport, Wash.

Bids received by Paul R. Hendricks, city purchasing agent, room 511, County-City Bldg., Seattle, for three 45,000 hp hydraulic turbine runners and appurtenances for Gorge Power Plant, City Light Skagit Project, Rockport, Wash.; Spec. No. 1396. ONLY BID: S. Morgan Smith, York, Penn. Item 1: three 45,000 hp turbine runners, carbon steel, $99,300. Item 2: stainless steel, $143,400. Item 3: three sets of wicket gates and gate mechanisms, one set braking links, $131,750. Item 4: welded pipe steel draft tube filler pieces, $16,350. Bids opened November 8. GW 11-9. Previous report 10-19

SEWERS— Seattle, Wash.

Two bond issues for $4,700,000 and $600,000 defeated in November 6 election by voters in the Ronald Sewer District, Seattle, for sewer construction in the district. SC 11-9. Previous report 3-20

SEWER CONSTRUCTION— Seattle, Wash.

Bond issue for $1,450,000 defeated in November 6 election by voters in the Lake City Sewer District, Seattle, to supplement financing for trunk and lateral sewers. SC 11-9. Previous report 9-20

■GENERATOR SETS— Seattle, Wash.

Planholders announced for the installation of owner furnished engine generator sets, 100 kw and 200 kw at the existing sewage lift station; construction of concrete block building, furnishing miscellaneous accessories for generator sets; wiring, small amount of structural steel work. Bids to be opened 4 p.m., November 19, by Southwest Suburban sewer district, William E. Conley, secretary, 864 S.W. 136th, Seattle. Plans with Hill & Ingman, consulting engineers, 1728 E. Madison, Seattle. $2.50 deposit. Certified check, 5%.

Planholders: Star Machinery Co., 241 Lander; Salmon Bay Electric Co., 4728 Ballard; Shoreline Construction Co., 12519 15th Ave. N.E.; Charles Dike, 2217 92nd N.E., Bellevue. All of Seattle unless otherwise stated GW 11-9. Previous report 10-30

PARKS— Seattle, Wash.

Bond issue for $1,000,000 approved in November 6 election held by the King County Park Board, Waldo J. Dahl, board chairman, Seattle, to finance site acquisition for city parks. SC 11-9. Previous report 9-1

PORTLAND CEMENT— Seattle, Wash.

Project cancelled by King County Commissioners, W. R. Carroll, county purchasing agent, room 606, County-City Bldg., Seattle, for furnishing 1,100 sacks (paper bags) of portland cement to be delivered to Boeing Field. Cancelled because county has no suitable place for storage and season too late to use. GW 11-10. Previous report 10-24

★PUMP— Seattle, Wash.

Award to Winko-Matic Signal Co., Box 174, Lorain, Ohio, $2,757, by Paul R. Hendricks, city purchasing agent, room 511, County-City Bldg., Seattle, for furnishing one horizontal centrifugal pump. GW 11-10. Previous report 11-1

★BALL VALVES— Seattle, Wash.

Award to Davis Manufacturing Co., 321 N. Maple Drive, Beverly Hills, Calif., $5,832, by Paul R. Hendricks, city purchasing agent, room 511, County-City Bldg., Seattle, for furnishing 2, 10" diameter ball valves. GW 11-10. Previous report 11-2

★TRAFFIC SIGNALS— Seattle, Wash.

Award to Econolite Corp., 314 Lloyd Bldg., Seattle, $2,775, by Paul R. Hendricks, city purchasing agent, room 511, County-City Bldg., Seattle, for furnishing 15 two-way neon walk-wait signals. GW 11-10. Previous report 11-2

★DUMP BODIES, HOISTS— Seattle, Wash.

Award to Truck Welding and Equipment Co., 739 9th Ave. N., Seattle, $2,184, by Paul R. Hendricks, city purchasing agent, room 511, County-City Bldg., Seattle, for furnishing two dump bodies and hydraulic hoists to be mounted on IHC 4x4 trucks. GW 11-10. Previous report 11-2

★LINE TRUCK BODIES— Seattle, Wash.

Award to George Heiser Body Co., 1300 Dearborn, Seattle, $6,980, by Paul R. Hendricks, city purchasing agent, room 511, County-City Bldg., Seattle, for furnishing two line truck bodies. GW 11-10. Previous report 11-8

★WATER SYSTEM EXTENSIONS— Seattle, Wash.

Award by King County Water District No. 75, L. W. Bundy, secretary, 19863 28th Ave. S., Seattle, for the installation and construction of two disconnected water system extensions. Sched. A: ULID No. 20. Sched B: Corps of Engineers, Capehart Family Housing. AWARD: Thorburn & Logozo, 4608 36th Ave. S.W., $17,433 (Sched. A); $7,695 (Sched. B). OTHER BIDS: Shoreline Construction Co., 12519 15th Ave. N.E., $18,017, $7,754; Frank Coluccio Construction Co., 7778 Seward Park Ave., $18,689, $7,870; Matt Malaspina & Co. 1901 23rd Ave. S., $19,987, $7,887. All of Seattle. Bids opened November 8. GW 11-10. Previous report 10-30

★GATE VALVES— Seattle, Wash.

Awards by Paul R. Hendricks, city purchasing agent, room 511, County-City Bldg., Seattle, for furnishing two 20" gate valves and six 12" gate valves. AWARD: Pacific Waterworks Supply Co., 2900 1st Ave. S., Seattle, $2,312 (20" valves) Fred Greaves Co., 3215 Western Ave., Seattle, $990 (12" valves). Bids opened and held under advisement, October 30. GW 11-13. Previous report 10-19

▲BRIDGE WIDENING— Seattle, Wash.

Bids received by King County Commissioners, 402 County-City Bldg., Seattle, for widening existing concrete bridge No. 3177 by addition of cantilever sidewalk. Project is located on Des Moines Way in Section 4, T 23, N.R. 4E, W.M. LOW BIDS: Dale M. Madden, 3010 E. 163rd, $11,261; Runnels Paint Co., 16826 Pacific Highway S., $13,852; Joe Lundberg, 3420 13th Ave. S., $14,049. All of Seattle. Bids opened November 13.

GW 11-14. Previous report 11-9

▲BRIDGE RECONSTRUCTION— Seattle, Wash.

Bids received by King County Commissioners, 402 County-City Bldg., Seattle, for reconstruction of the deck of the existing bridge No. 3069 on 248th S.W. across Newauken Creek about ½ mi. northwesterly of Enumclaw in Section 14, Township 20 N., R. 6 East, W.M. Plans by D. L. Evans, county road engineer, 905 County-City Bldg., Seattle. LOW BIDS: J. E. Collins Co., 1314 E. 43rd, $4,967; Dale M. Madden, 3010 E. 163rd, $5,139; Larson Construction Co., Colman Bldg., $5,324. All of Seattle. Bids opened November 13.

GW 11-14. Previous report 11-9

★GRADING, PAVING, SPRINKLER SYSTEM— Seattle, Wash.

Award to L. L. Newburn Construction Co., 6262 14th Ave. S., Seattle, $28,060, by Paul R. Hendricks, city purchasing agent, room 511, County-City Bldg., Seattle, for grading, paving and furnishing and installing a sprinkler system at Matthews Beach Park, Sandpoint Way, at E. 93rd, on Lake Washington, Seattle.

GW 11-14. Previous report 11-2

▲REO ENGINE— Seattle, Wash.

Bid received by Paul R. Hendricks, city purchasing agent, room 511, County-City Bldg., Seattle, for furnishing one six-cylinder Reo engine. ONLY BID: Reo Washington Sales Co., Inc., 2401 Airport Way, Seattle, $1,434. Bids opened November 13.

GW 11-14. Previous report 11-2

▲WIRE— Seattle, Wash.

Bids received by Paul R. Hendricks, city purchasing agent, room 511, County-City Bldg., Seattle, for furnishing 22,000' wire, solid rubber insulation. LOW BIDS: Westinghouse Electric Supply Co., 1051 1st Ave. S., $3,785; North Coast Electric Co., 171 Jackson, $3,826; General Electric Supply, 1212 1st Ave. S., $4,081. All of Seattle. Bids opened November 13.

GW 11-14. Previous report 11-6

▲PLAYFIELD GROUND IMPROVEMENTS— Seattle, Wash.

Bids received by Seattle School District No. 1, Frank M. Brock, secretary, 815 4th Ave. N., Seattle, for grading, draining, construction of a retaining wall and installing track facilities at Queen Anne High School, 3rd Ave. N. and Galer, Seattle. LOW BID: Baugh Construction Co., 922 Poplar Place, $70,944. ONLY OTHER BID: O. E. Turnquist Construction Co., 1305 Republican, $72,450. Both of Seattle. Bids opened November 13. GW 11-14. Previous report 10-25

●SEWER— Spokane, Wash.

(Estimated cost $21,330)

Bids will be opened 9:30 a.m., November 29, by City Council, City Hall, Spokane, for construction of a sewer in 34th Ave. from Perry St. to Pittsburg St. in Spokane. Specifications with city engineer at above address. Certified check or bid bond 10%. Completion time 30 calendar days.

Quantities: 1,538 c.y. excavation; 1,585' sewer pipe; 44 wye branches; 13 lb. reinforced steel; 104 c.y. crushed rock. EM 11-10

★PAVING— Spokane, Wash.

Award announced by City Council, City Hall, Spokane, for paving 5th Ave. from Havana St. to Florida St. in Spokane. Bids opened November 8. AWARD: Inland Construction Co., 10th and Havana, Spokane, $5,308. ONLY OTHER BID: S & F Construction Co., Route 2, Box 188, Spokane, $5,390.

EM 11-10. Previous report 10-19

PORT DEVELOPMENT— Tacoma, Wash.

Bond issue for $5,400,000 approved in November 6 election held by Port Commissioners, Tacoma, for development of the Port District in Tacoma, including waterways, land acquisition and provision of roll-on-roll-off facilities.

SC 11-9. Previous report 10-16

●TURBINE PUMPS— Tacoma, Wash.

Bids will be opened 1 p.m., November 26, by Lakewood Water District, 11900 Gravelly Lake Drive S.W., Tacoma, for installation of two vertical, electrical motor-driven deep well turbine pumps and appurtenances, complete and ready for service to the water district as follows: Pump No. 1—400 gpm capacity at 323' total head; Pump Uo. 2—425 gpm capacity at 327' total head. An alternate provision is made for submission of bids on submersible pumps. Specifications with the water district office. $15 deposit. Plans by Worthen & Wing, consulting engineers, 9152 Gravelly Lake Drive, Tacoma. Certified check 5%.

SC 11-14

★DRAINAGE DITCH— Tacoma, Wash.

Award by Pierce County Commissioners, Jack W. Sonntag, clerk, Courthouse, Tacoma, for construction of a drainage ditch from White River Prairie Road, beginning at Station 37+72.61 running west 2674.02' in section 9, township 19 north, range 6 east, W.M.; CRP No. 1644. Plans by William A. Stancer, county road engineer, above address. AWARD: Milone & Tucci, 3215 S "M," $2,091. OTHER LOW BIDS: Waterhouse & Steel, 4011 N. Meridian, Puyallup, $2,241; Charles Skinner, Orting, $2,523. Bids opened November 13.

GW 11-14. Previous report 10-26

ROAD CONSTRUCTION— Tracyton, Wash.

A petition from several Tracyton residents asking completion of a road construction project in Tracyton has been referred to the county engineer's office by Board of County Commissioners, Courthouse, Tracyton. The petition asserts that work done on May St. between Weed Ave. and Tracy St. has caused a flood condition not present previously. The petition requests completion of the project and correction of the drainage problem.

SC 11-14

▲SEWERS, WATER MAINS, CURBS— Vancouver, Wash.

Bids received by Housing Authority of City of Vancouver, McLoughlin Heights, Vancouver, for sanitary sewers, water main and concrete dry wells for Andreson Highlands-2, and for curbs, catch basins and street light bases for Lieser Crest-9, McLoughlin Heights. BIDDERS—CURBS: Raymond Concrete Pile Co., 2323 N.W. Flanders St., $19,450; Funston Construction Co., 3726 S.E. Hawthorne Blvd., $20,099; W. P. Snider, 4110 N.E. Jaggy Road, Vancouver, $20,252; Pacific Concrete Co., 10401 N.E. Marx St., $20,437; Wisco, Longview, $31,934. UTILITIES: Paul Ferneding, 211 E. 27th St., and Hoyt Plumbing Co., 1600 W. 39th St., both Vancouver, joint venture, $94,390; Matt Malaspina, 1901 23rd St., Seattle, $96,367; John Luyben & Son, 14005 N.E. Halsey St., $101,150; Al Kalkhoven Co., 10707 N.E. Sacramento St., $103,445; Harold Kaeser Co., 3212 Hunter Blvd., Seattle, $108,000; Lord Bros. Contractors, 9233 N. Calvert Ave., $109,633; Milone & Tucci, Inc., 3215 "M" St., Tacoma, $120,950; P. S. Lord Mechanical Contractor, 4507 S.E. Milwaukie Ave., $124,573; George W. Lind Co., 5000 N.E. Kililngsworth St., $125,000; Smith Bros., 3807 4th Plain Road, Vancouver, $137,441; Harold E. Olds, 3111 N. 24th St., Tacoma, $146,391. Of Portland except as noted. Bids opened November 7.

WB 11-9. Previous report 10-27

GOLF COURSE— Vancouver, Wash.

Bond issue for $230,000 defeated in November 6 election held by City Council, City Hall, Vancouver, to finance construction of an 18-hole municipal golf course in Vancouver.

SC 11-10. Previous report 11-2

●ELECTRICAL TEST EQUIPMENT— Vancouver, Wash.

Bids will be opened 2 p.m., November 27, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for furnishing and delivering fob Eavan Spur, Vancouver, two microwave radio frequency test sets and two oscilloscopes; Inv. No. 8206. Specifications with above office. Delivery time 90 calendar days.

SP 11-16

DOMESTIC WATER SYSTEM— Veradale, Wash.

(Estimated cost $465,000)

Bond issue for $500,000 approved in November 6 election held by Vera Irrigation District No. 601 Evergreen, Vera, to finance rehabilitation of the district's domestic water system. Specifications by H. E. Bovay, Jr., consulting engineer, 3rd and Monroe, Spokane. The proposed improvement program includes a 1,000,000-gallon reservoir to be built on ground level, installation of new mains and replacement of existing wood mains with steel pipe. Cost estimate includes $345,000 for material, $83,000 for labor, $2,000 for road construction, $30,000 for engineering and $5,000 for legal fees. Bids may be called soon for the reservoir.

Quantities: 75,400' steel pipe coated and wrapped; 65 assorted T's and L's; 2,300 dresser couplings; 16 valves; 500 corporation cocks.

PN 11-9

●SIPHON REPLACEMENT— Walla Walla, Wash.

Bids will be opened 2 p.m., November 28, at the Walla Walla office of the Soil Conservation Service, U.S.D.A., 12 S. 3rd Ave., Walla Walla, for construction of an inverted siphon to replace an existing similar structure in the main irrigation canal of Gardena Farms District No. 13, L. A. Hansen, secretary, Walla Walla. Plans with above office. The siphon will consist of some type of concrete pressure pipe, 45" to 48" in internal diameter and approximately 7,632' in length. Reinforced concrete inlet and outlet transition sections, one farm irrigation outlet and facilities for drainage, will be required. The siphon is located approximately 14 miles west southwest of Walla Walla.

SP 11-13. Previous report 10-5

●WOOD STRAIN INSULATORS—

Bids will be opened 3 p.m., November 19, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for furnishing and delivering fob Eavan Spur, Covington, Vancouver, and Pasco, 405 wood strain insulator assemblies; Inv. No. 8210. Specifications with above office.

SP 11-10

★DISTRIBUTION PIPE INSTALLATION— Wenatchee, Wash.

Award announced by K. G. Gussman, secretary-treasurer, East Wenatchee Water District, East Wenatchee, Douglas County, Wash., for the installation of 4" and 6" steel distribution pipe. Specifications by Gray & Osborne, consulting engineers, 228 S. 2nd St., Yakima. Bids opened November 8. AWARD: Alvin McCalla, S.E. 2nd, East Wenatchee, $3,847. 2ND LOW: Graves & Burke, 515 Hawthorne, Wenatchee, $4,379. 3RD LOW: L. E. Foland, Maple and Tacoma Streets, Wenatchee, $6,186.

IG 11-14. Previous report 11-3

WELLS HYDROELECTRIC PROJECT— Wenatchee, Wash.

Following is a description of the land involved in the Wells Dam project on the Columbia River, 45 miles upstream from Wenatchee, for which a Federal Power Commission license may soon be secured by Douglas County PUD, George Hamilton, president, 20 N. Main, East Wenatchee. The area included in the hydro-electric project was outlined in the preliminary engineering report by Kaiser Engineers, 1924 Broadway, Oakland, Calif.

Part of the Azwell orchard would be flooded for the project and most of the Starr-Bonita orchards, both on the Chelan County side, and the Kirk, Crane and Wade orchards on the Douglas County bank. Part of Bridgeport Bar will be inundated and half of the Indian lands at the mouth of the Okanogan River. The motor base in the Bureau of Reclamation pumping plant for Brewster Flat irrigation project will have to be raised but the Bridgeport Bar plant will not be affected. Six and a half miles of the Great Northern line to Oroville will have to be raised on the west bank directly

above the dam at Azwell and three miles near Pateros will have to be shifted. At the dam, the average raise will be 12', at Pateros about 6'. Two miles of Highway No. 97 will have to be relocated near the dam and one mile of the road near Pateros. A bridge across the Oakanogan River and a few miles of Highway No. 10, between Brewster and Bridgeport, must be raised. Very few electrical and telephone lines will be interferred with.

SC 11-13. Previous report 11-8

DRAINING, GRADING, SURFACING— Yakima, Wash.

The Yakima County Commissioners, Courthouse, Yakima, have in their 1957 budget provided for grading, ballasting and surfacing with light bituminous treatment of the following five roads in Yakima County: Cowiche Mill Road, approximately 1.9 mi., estimated cost $39,000; Thompson Road, 1.0 mi., cost $21,000; Pioneer Way, 0.25 mi., cost $5,250; Elliott Road 1.0 mi., cost $21,000; Hatton Road, 0.25 mi., cost $5,250. IG 11-10

OVERPASS— Yakima, Wash.

Bond issue for $1,200,000 defeated in November 6 election held by City Commission, City Hall, Yakima. The issue was to have financed construction of a four-lane overpass on Lenox Ave. Specifications by Hadley & Hadley, consulting engineers, Securities Bldg., Seattle. New street construction will be almost halted, according to city officials. SC 11-10. Previous report 10-16

★SANITARY SEWER EXTENSION— Yakima, Wash.

Award announced by Owen Ballinger, secretary, 3215 Butterfield Road, Terrace Heights, Yakima, for construction of a 350' extension to the sanitary sewer system. Specifications by Gray & Osborne, consulting engineers, 228 S. 2nd St., Yakima. Bids opened November 1 in the Terrace Heights Fire Hall, Yakima. AWARD: Paul R. Henley, 2210 Englewood, Yakima, $1,108. ONLY OTHER BID: G. G. Teskey, 303 S. 10th Ave., Yakima, $1,274.

IG 11-14. Previous report 10-25

IDAHO

● ROAD BROOM— Boise, Idaho

Bids will be opened 2:30 p.m., November 23, by R. E. Edlefsen, purchasing agent, City Hall, Boise, for furnishing the Boise City Airport with one engine-driven road broom, L. B. Littleford No. 108 or equal. Specifications with above office. SC 11-14

▲LEVEE REPAIR— Bonners Ferry, Idaho

Bids received by Corps of Engineers, Seattle District, 4735 E. Marginal Way, Seattle, for 1956 levee repair, Bonners Ferry, and Kootenai River, Idaho, CIVENG-45-108-57-24. Schedule A: stripping and reshaping levee embankment; impervious levee embankment; gravel fill for bank protection; overhaul and sheet piling cut-off wall. Schedule B: stripping and reshaping levee embankment, impervious levee embankment and removal and replacement of ballast material. ONLY BID: Murphy Bros., 3728 E. Broadway, Spokane, $58,600, (sched. A); $12,100 (sched. B); $70,000 (total). Engineer's estimate: $56,602 (sched. A); $10,470 (sched. B); $67,027 (total). Bids opened November 8.

GW 11-9. Previous report 10-25

★POWER LINES— Cottonwood, Idaho

Award to Power Line Erectors, Inc., N. 2018 Waterworks, Spokane, $50,000 (approximate), by Idaho County Light & Power Cooperative Association, Paul Smick, manager, Cottonwood, for construction of 4¼ miles new line in the Stites Area, and for multiphasing and reconducting existing lines at Cottonwood. MH 11-14

★AGGREGATE, ROOFING GRAVEL— Idaho Falls, Idaho

Awards announced by Atomic Energy Commission, Box 1221, Idaho Falls, for producing and stockpiling at the ANP Area, 7,000 ton class 3 cover coat aggregate and 1,200 ton screened roofing gravel, ⅝" maximum; producing and stockpiling at the Central Facilities Area, 6,000 ton class 3 cover coat aggregate and 400 ton screened roofing gravel; constructing fence enclosures around new and existing stockpiles, consisting of barb wire with wood and steel posts and 24' panel gates; Inv. No. AT(10-1)-874. AWARDS—ANP AGGREGATE: Olof Nelson Construction Co., Twin Falls, $25,599. CFA AREA: Morrison-Knudsen Co., Inc., Box 450, Boise, $14,180. FENCE ENCLOSURES: Olof Nelson, Twin Falls, $3,850.

SP 11-14. Previous report 11-3

★ROAD CONSTRUCTION— Mountain Home AFB, Idaho

Award to Holmes Construction Co., Heyburn, Idaho, $16,000, by U. S. Air Force, Purchasing and Contracting Office, Mountain Home AFB, for construction of a gravel road, Saylor Creek, Mountain Home AFB. Work includes grading, grubbing, preparing of subgrade and pitrun-base course aggregate. AH 11-10. Preivous report 11-6

★BANK PROTECTION— Weiser, Idaho

Award to Hodges & Barger, 214 W. 3rd St., The Dalles, Ore., $47,025, by Corps of Engineers, Walla Walla District, Building 602, City-County Airport, Walla Walla, for construction of bank protection within the Malheur Improvement District on the Snake River near Weiser; CIVENG-45-164-57-18.

AH 11-10. Previous report 10-31

MONTANA

★PAVING, CURBS, GUTTERS— Billings, Mont.

Award announced by Yellowstone County Commissioners, Courthouse, Billings, for blacktop paving and construction of combination concrete curbs and gutters on both sides of 10th Ave. N. from 19th St. to 22nd St., RSID No. 360, Billings. Specifications by Sage Engineers & Planners, Inc., 1010 Poly Drive, Billings. Bids opened November 7. AWARD: Asphalt Paving Co., Bench Blvd., Billings, $11,987. ONLY OTHER BID: Long Construction Co., Lockwood Flats, Billings, $12,825. EE 11-14. Previous report 10-16

● WATER MAIN— Billings, Mont.

Bids will be opened 10:30 a.m., December 4, by Yellowstone County Commissioners, Courthouse, Billings, for installation of 6" water main on Burlington Ave. from 23rd St. W. to Dennis Drive, then south to Lewis Ave., RSID 357, Billings. Plans on file at office of Sage Engineers & Land Planners, Inc., 1010 Poly Drive, Billings. Certified check 10%. EE 11-14

DAM—Blackfoot Indian Reservation, Mont.
(Estimated cost $6,300,000)

Plans announced by Bureau of Reclamation, Denver Federal Center, Denver, Colo., of the possibility for the first dam on Blackfoot Indian territory as the next Montana dam construction project. The dam would be located on the Blackfoot Indian Reservation in Badger Canyon with part af the storage reservoir extending into Lewis and Clark National Forest. Although power dam development has not been considered in government estimates to date, at least one major power company has expressed interest in the proposed project. The dam would include storage of 48,000 acre feet of Badger Creek. SC 11-13

★TURBINE REPAIR PARTS— Canyon Ferry, Mont.

Award to Newport News Shipbuilding & Dry Dock Co., Newport News, Va., $4,950 fob Newport News, by Bureau of Reclamation, Bldg. 53, Denver Federal Center, Denver, Colo., for furnishing repair parts for Unit No. 1 hydraulic turbine for Canyon Ferry powerplant, Canyon Ferry, Missouri River Basin Project, Mont.; DS-4765. SP 11-14

RUNWAY, GRADING, SEWER, WATER MAINS— Great Falls, Mont.

Plans are being prepared by the city engineering department, City Hall, Great Falls, for the following projects: apron and runway at the airport, grade studies for Central Ave. W., sewer for 8th Ave. N.W., sanitary sewer and water mains for Crescent Drive and 10th Ave. S.W., sanitary sewer for the first supplement to Sunset Addition, storm drains for 10th Ave. S., sewer and water mains in 25th St. S.W., storm drain for Valley View Homes Addition and emergency west side flood control. DC 11-14

● BUTTERFLY VALVES— Helena, Mont.

Bids will be opened 2 p.m., January 3, 1957, by Bureau of Reclamation, Bldg. 53, Denver Federal Center, Denver, Colo., for furnishing and delivering fob Louisville or fob Canyon Ferry, two 48" butterfly valves with operating units and accessories (but not including valve anchor bolts) for Helena Valley Pumping Plant, Helena Valley Unit, Mont., Helena-Great Falls Division, Missouri River Basin Project; DS-4806. Specifications with above office. Delivery time 240 calendar days. SP 11-13

★STEEL GIRDER BRIDGE—Missoula, Mont.

Correction. Award to Bud King Construction Co., 1203 Wyoming, Missoula, $123,500, by Board of Missoula County Commissioners, Courthouse, Missoula, for construction of a new 420' steel girder bridge at Lincoln and Russell Streets in Missoula. 2ND LOW: F. L. Flynn & Co., 520 Ave. D, Billings, $156,540. 3RD LOW: Montana Engineering & Construction Co., 353 N. Main, Helena, $158,300. The award to Bethlehem Pacific Coast Steel Corp., Seattle, and the other low bidders announced in PCD 10-27 were for furnishing the steel for the bridge, not for the actual construction. Specifications by Morrison-Maierle, Inc., consulting engineers, 910 Helena Ave., Helena. Bids opened October 24 and were held under advisement.

EE 11-9. Previous report 10-27

WYOMING

● OUTDOOR INSTRUMENT TRANSFORMERS— Casper, Wyo.

Bids will be opened 2 p.m., November 26, by Bureau of Reclamation, Bldg. 63, Denver Federal Center, Denver, Colo., for furnishing and delivering fob Casper, three current transformers and three potential transformers; Inv. No. (D) D-22, 153-A. Specifications with above office. SP 11-9

AIRPORT EXPANSION— Casper, Wyo.
(Estimated cost $1,000,000)

Plans announced for improvements to the Natrona County Airport, Casper, to improve the terminal's facilities for training Air National Guardsmen and for commercial use. Improvements will include the following: runway extension to be constructed with the aid of federal funds, estimated cost $592,000; extension of runway lighting, $60,000; necessary cut and earthfill work, $200,000 to $260,000; rerouting U. S. Highway 20-26 if necessary for runway extension, $250,000.

SC 11-13

● STATE HIGHWAY PROJECTS— Cheyenne, Wyo.

Bids will be opened 9:30 a.m., November 20, by Wyoming State Highway Commission, State Office Bldg., Cheyenne, for highway construction. Specifications with above office. Certified check or cashier's check 5%.

HYNDS BOULEVARD ROUTE—Construction of 1.269 miles grading, draining, selected material surfacing, irrigation sprinkling system, landscaping, four rigid-frame bridges on Lake Absarraca (Country Club Lake) and miscellaneous work in the City of Cheyenne, Laramie County; FAIP No. 1-223(10) Unit 1 and 1-233(18) Unit 1. For information on irrigation sprinkler system, planting and landscaping work, contact J. T. Banner & Associates, consulting engineers, 409 B South 4th St., Laramie.

Quantities: 566,983 c.y. excavation; 417,000 c.y. mi. haul; 35,600 ton selected material surfacing; 142,920 ton mi. surfacing haul; 1,114' reinforced concrete pipe; 9,170' combined curb and gutter; 460 sq. yd. concrete sidewalk; 1,600' reinforced concrete face paving; 1,622.7 c.f. class B concrete; 230,520 lb. reinforcing steel; 27,630 lb. structural

stel; 894 c.y. wet and dry excavation for bridges.

SARATOGA-RIVERSIDE ROAD—Grading, draining, base course surfacing, plantmix surface course, stone chip seal coat, including combined curb and gutter and storm sewer in the Town of Saratoga, construction of four 12'x6'6" reinforced concrete culverts, two structural plate stockpasses, construction of one bridge consisting of three continuous reinforced concrete slab spans over Spring Creek and miscellaneous work on 5 632 miles road in Carbon County; FAP No. F-022-1(1).

Quantities—GRADING CONTRACT: 433,820 c.y. excavation; 104,500 c.y. mi. haul; 72,000 ton crushed gravel base course; 1,140 ton asphaltic material; 12,460 ton plantmixed surface course; 1,200 ton stone chips; 439.3 c.y. concrete; 62,100 lb. reinforcing steel; 2,008' reinforced concrete pipe; 3,370' corrugated metal pipe and arch culverts; 168' structural plate stockpasses; 190 c.y. riprap; 1,200' concrete ditch paving; 220 c.y. excavation for drains; 210 c.y. gravel for drains. STRUCTURE CONTRACT: 200 c.y. wet and dry excavation for bridges; 158.9 c.y. concrete; 4,760 lb. structural steel; 37,600 lb. reinforcing steel.

DIVERSION DAM-DUBOIS ROAD—Grading, draining, base course surfacing, plantmix surface course, stone chip seal coat, one 8'x8'x50' reinforced concrete culvert, construction of two bridges consisting of three continuous reinforced concrete slab spans over Red Creek and five continuous reinforced concrete slab spans over Little Red Creek and miscellaneous work on 4.545 mile road in Fremont County; FAP No. F-030-2(1).

Quantities—GRADING CONTRACT: 340,050 c.y. excavation; 112,000 c.y. mi. haul; 22,000 ton selected material surfacing; 18,800 ton crushed gravel base course; 9,450 ton plantmixed surface course; 750 ton stone chips; 69,300 ton mi. surface haul; 855 ton asphaltic material; 2,679' corrugated metal pipe; 380 c.y. excavation for pipe culverts; 280 c.y. riprap; 13,000 c.y. special rock fill; 75.8 c.y. concrete; 7,680 lb. reinforcing steel. STRUCTURE CONTRACT: 90,250 lb. reinforcing steel; 740 c.y. dry and wet bridge excavation; 406.1 c.y. concrete; 11,470 lb. structural steel.

LOVELL-GREYBULL ROAD—Construction of one five continuous reinforced concrete slab span bridge over Little Dry Creek and miscellaneous work on road in Big Horn County; FAP No. F-034-5(4).

Quantities: 24,000 c.y. excavation; 2,400 c.y. mi. haul; 180 c.y. wet and dry excavation for bridges; 231.1 c.y. concrete; 7,160 lb. structural steel; 52,850 lb. reinforcing steel; 100 c.y. riprap.

THERMOPOLIS-SHOSHONI ROAD—Grading, draining, base course surfacing, oil treatment by the roadmix method, sand-gravel seal coat and miscellaneous work on 3.123 mile and metal plate guard fence on an additional 2.965 mile road in Wind River Canyon, Hot Springs County; FAP Nos. F-118(9), F-118(10) and F.L.H.P.-12(2).

Quantities: 432,600 c.y. excavation; 13,500 ton selected material surfacing; 32,600 ton crushed gravel base course; 8,700 ton crushed gravel surfacing; 500 ton crushed sand-gravel; 665 ton asphaltic material; 3,054' corrugated metal pipe; 100', 8" perforated corrugated metal pipe; 30 c.y. gravel for drains; 200 c.y. riprap; 395 c.y. excavation for pipe culverts and drains; 150 c.y. structure excavation; 12,931' metal plate guard fence.

ALBIN CONNECTION ROAD — Grading, draining, base course surfacing, plantmixed surfacing course, stone chips seal coat and miscellaneous work on 9.218 mile road in Laramie County; FASP No. S-27(4).

Quantities: 202,500 c.y. excavation; 30,000 c.y. mi. haul; 45,000 ton selected material surfacing; 17,200 ton crushed gravel base course; 7,000 c.y. binder; 1,360 ton stone chips; 10,700 ton plantmix surface course; 23,500 c.y. mi. haul binder haul; 1,065 ton asphaltic material; 670' corrugated metal pipe; 368' reinforced concrete pipe; 190 c.y. excavation for pipe culverts.

ZERO ROAD—Grading, draining, special embankment and miscellaneous work on 9.912 mile road in Natrona County; State Project No. SC-CFM 4217.

Quantities: 169,500 c.y. excavation; 15,000 c.y. special embankment; 1,000 c.y. stripping; 1,922' corrugated metal pipe (installed only); 30 c.y. riprap; 37.8 concrete; 3,020 lb. reinforcing steel; 65 c.y. structure excavation.

ESPONDA ROAD—Base course surfacing and miscellaneous work on 3.8 mile road in Johnson County; State Project No. SC-CFM 4435.

Quantities: 12,000 ton gravel base course; 25,300 ton mile surfacing material haul.

SSMP No. 4413—Crushing and stockpiling of crushed gravel surfacing (½" max.) at various locations in Natrona and Converse Counties, involving 12,000 ton crushed gravel surfacing and 15,000 ton mile haul.

SSMP 4433—Crushing and stockpiling crushed gravel surfacing (½" max.) at various locations in Lincoln, Sublette and Sweetwater Counties, involving 25,000 ton crushed gravel surfacing and 28,000 ton mi. haul.

SSMP 4439—Crushing and stockpiling of crushed gravel surfacing (½" max.) at various locations in Campbell, Crook, Johnson, Sheridan and Weston Counties, involving 30,500 ton crushed gravel surfacing and 219,550 ton. mi. haul. SP 11-13

▲CLOSED DRAINS— Cody, Wyo.

Bids received by Bureau of Reclamation, Box 839, Cody, for construction of closed drains, Heart Mountain Division, Shoshone Project, Wyo.; Spec. No. 601C-49. Bids opened November 8. LOW BIDS: W. C. & R. C. Tucker Construction Co., Box 1005, Riverton, $6,495; King Engineers, Box 488, Riverton, $6,960; Husman Bros., Inc., 1200 Big Horn Ave., Sheridan, $7,640.

SP 11-9. Previous report 10-16

●DISTRIBUTION BOARDS— Glendo, Wyo.

Bids will be opened November 27 by Bureau of Reclamation, Bldg. 53, Denver Federal Center, Denver, Colo., for furnishing sevtn distribution boards, two CO_2 fire control cabinets, two battery chargers and one d-c distribution board for Glendo Power Plant, near Glendo, Platt County, Oregon Trail Division, Glendo Unit, Missouri River Basin Project, Wyo; DS-4784. AH 11-9

▲CONTROL SYSTEM— Glendo, Wyo.

Bids received by Bureau of Reclamation, Bldg. 53, Denver Federal Center, Denver, Colo., for furnishing and delivering fob shipping point or fob Glendo, one control system, consisting of one control cabinet, piping, brackets and appurtenant control parts for two butterfly valves, for Glendo powerplant, Glendo Unit, Oregon Trail Division, Wyo.; DS-4780. Bids opened November 8. LOW BIDS: Union Steel Mfg., Inc., 1123 W. Hanford, Seattle, $10,150, fob Seattle; The Rucker Co., Oakland, Calif., $14,315, fob Oakland; Hardinge Mfg. Co., York, Pa., $15,000, fob York.

SP 11-14. Previous report 10-12

Subscribers

This is NOT a summary of construction news for the month. Construction news in this issue is for the week prior to date of publication ONLY. About 80% of the construction news of the month appears in our Construction News Bulletin published on the 2nd, 4th and 5th Saturdays of each month, and in our Pacific Architect and Builder (3rd Saturday). The monthly Pacific Builder and Engineer contains construction news for the week prior to the first Saturday of each month.

If you are not receiving the Construction News Bulletin (with Pacific Architect and Builder), write 2418 Third Ave., Seattle 1, for sample copies.

▲ASPHALTIC MEMBRANE LINING— Riverton, Wyo.

Bids received by Bureau of Reclamation, Riverton, for application of asphaltic membrane lining, Pilot canal and laterals and Wyoming canal and laterals, approximately 10 to 25 miles north and west of Riverton, Fremont County, Wyo.; Spec. No. 617C-50. Bids opened October 30. LOW BIDS: L. H. Weber, Box 279, Rawlins, $45,750; Studer Construction Co., 927 Parkhill Drive, Billings, Mont., $49,980; Hicks Construction Co., Box 508, Riverton, $56,100.

SP 11-9. Previous report 10-9

▲WATER DISTRIBUTION SYSTEM— Sheridan, Wyo.

Bids opened by manager, Veterans Hospital, Fort McKenzie, Sheridan, for alterations and additions to the water distribution system for the hospital. Bids opened November 6. LOW BIDDERS: Husman Bros., Inc., Big Horn Ave., Sheridan, $71,900; P. T. Roush Plumbing & Heating Co., 48 E. 5th St., Sheridan, $77,380.

LY 11-16. Previous report 10-5

UTAH

MOTOR CONVERSION— Murray, Utah
(Estimated cost $30,000)

Conversion will be underway soon of a 3,500-hp diesel motor at the Murray City Power Plant for the use of natural gas, according to Mayor J. Clifford Hansen, City Hall, Murray. SC 11-14

ALASKA

■LANDING APPROACH SYSTEM—Elmendorf AFB and Point MacKenzie, Alaska

Planholders announced for the construction of instrument landing approach system, at Elmendorf and Point MacKenzie, Alaska; ENG-95-507-57-24. Bids will be opened 11 a. m., A.S.T., November 15, by Corps of Engineers, Alaska District, D-E Bldg., Anchorage. Plans with district engineer, above address. Bid bond 20%.

Additional planholders: J. C. Boespflug Construction Co., 1912 4th Ave. S., Seattle; John C. Miller, Box 1654; Patti-MacDonald Construction Co., Pouch 6; H. Wilson & Co., Box 1696; Pacific Alaska Contractors, Box 676; Union Painting Co., Inc., Box 2091; Alaska Aggregate Corp., 1300 A St.; Turnagain Electric Co., Inc., Box 3117; Eastchester Branch; Gateway, Inc., 1707 Birchwood; Pioneer Sheet Metal and Plumbing Co., 303 2nd Ave.; Alaska Concrete Products Co., Box 97; Don H. Clark Construction Co., 1600 E. 5th; Hohn Plumbing and Heating Co., Mallow Construction Co., Box 337, Spenard. All of Anchorage unless otherwise stated.

GW 11-9. Previous report 10-31

●GLENN HIGHWAY BRIDGES— Juneau, Alaska

Bids will be opened 11 a. m., December 12, by Bureau of Public Roads, room 319, Federal Bldg., Juneau, for construction of four bridges located on the Glenn Highway at Miles 54.9, 61, 62.5 and 89.3 respectively, Third Judicial Division, Territory of Alaska. Specifications with BPR, room 311, Federal Bldg., Box 1961, Juneau. Bid bond 5%. Completion time September 1, 1958.

Work includes the following bridges: MOOSE CREEK—a 180'x24' continuous one-beam structure with 55', 70' and 55' spans on steel rail piling and concrete substructure, concrete deck. ESKA CREEK—a 27'x24' continuous one-beam structure with wood abutments and rail steel piling, and with concrete deck. GRANITE CREEK—a 180'x24' continuous one-beam structure with 55'x70' and 55' spans on steel rail piling and concrete substructure, and with concrete deck. PURITAN CREEK—a 20'x24' one-beam structure with wood abutments, steel H piling, and with concrete deck. SP 11-13

16 Major Reclamation Projects . . .

. . . Invitations To Be Issued by Bureau of Reclamation

Bids will be called by the Bureau of Reclamation during the next three months on 16 major projects. Among these items are the Fremont Canyon Power plant in Wyoming, drains, wasteways and laterals for the Columbia Basin project, the Glen Canyon dam and power plant and pipe lines in the Weber Basin. Additional information may be obtained from the office issuing invitations, as listed at the end of each item. Requests should refer to title and number of each item.

BID CALLS EXPECTED IN NOVEMBER

POWER PLANT AND PRESSURE TUNNEL (11-2)—Fremont Canyon, Missouri River Basin Project, Wyo. Construct indoor-type power plant and lined pressure tunnel. Power plant is to include reinforced concrete superstructure walls enclosing structural steel frame for two 33,500-hp. turbines and two 25,263 kva generators, installation of two butterfly valves about 12′ in diameter, one 100-ton crane and two draft-tube bulkhead gates, furnishing and installing two 10′ 9″ diameter steel penstocks 400′ long. Pressure tunnel is to be 18′ in diameter about 3 miles long and will include a cut and cover section, an inlet gate shaft with control house and a surge tank at the tunnel outlet. Time allowed for completion, 900 days. Bids to be called soon by L. N. McClellan, chief engineer, Building 53, Denver, Colo.

LATERALS, Blocks 72 and 74 (11-7)—Columbia Basin Project, near Quincy, Wash. Construct irrigation facilities to serve one farm unit in Block 72 and 8 new farm units in Block 74. Bids to be called soon by P. R. Nalder, project manager, Box 368, Ephrata, Wash.

DRAINS, Block 43 (11-8)—Columbia Basin Project near Warden, Wash. Construct about 4.5 miles of deep and semi-deep drains on the DE44.5, DE53.5, and DE53.5A systems, constructing a road crossing and pipe inlets. Bids to be called soon by P. R. Nalder, project manager, Box 368, Ephrata, Wash.

WASTEWAY EXTENSION, Block 89 (11-9)—Columbia Basin Project near Moses Lake, Wash. Extend 4 wasteways on the W20 lateral system including 80,000 c.y. excavation for wasteways and 3,000 c.y. excavation for structures, 150 c.y. concrete. Bids to be called son by P. R. Nalder, project manager, Box 368, Ephrata, Wash.

LATERAL TURNOUTS, Block 15 (11-11)—Columbia Basin Project, near Eltopia, Wash. Construct two CHO turnouts and one concrete check for Farm Units 30, 31 and 40. Bids to be called soon by P. R. Nalder, project manager, Box 368, Ephrata, Wash.

WELLS, Blocks 79 and 46 (11-13)—Columbia Basin Project near Quincy and Othello, Wash. Drilling, casing and testing two 8″ to 10″ domestic water supply wells to depths of 250′ and 450′. Time allowed for completion 120 days. Bids to be called soon by P. R. Nalder, Project Manager, Box 368, Ephrata, Wash.

ROAD, Haystack Reservoir (11-15)—Deschutes Project near Culver, Ore. Excavating, grading, gravel surfacing and structures for 2.4 miles of relocated county road. Time allowed for completion 300 days. Bids to be called soon by Regional Director, Fairgrounds, Boise, Idaho.

BID CALLS EXPECTED IN DECEMBER AND JANUARY

DAM AND POWER PLANT (11-21)—Colorado River Storage Project, Arizona. Constructing 700′ high concrete arch Glen Canyon Dam with 1,400′ long crest containing 4,770,000 c.y. of concrete and indoor-type power plant 665′ long, 112′ wide and 160′ high, located about 500′ downstream from the axis of the dam. Power plant substructure and intermediate structure is to be of reinforced concrete and superstructure of structural steel with concrete enclosure. On the Colorado River about 135 miles North of Flagstaff. Bids to be called by L. N. McClellan, chief engineer, Building 53, Denver, Colo.

CANAL (11-25) — Missouri River Basin Project, Mont. Earthwork and structures for about 8 miles of the 14′ bottom width Helena Valley Canal, east of Helena. Bids to be called by L. N. McClellan, chief engineer, Building 53, Denver, Colo.

LATERALS (11-27)—Columbia Basin Project, Wash. Earthwork and structures for about 85 miles of laterals and wasteways and constructing 8 minor relift pumping plants in Block 20 about 10 miles northwest of Mesa. Bids to be called by L. N. McClellan, chief engineer, Building 53, Denver, Colo.

PIPE LATERALS AND PUMPING PLANT (11-28)—Weber Basin Project, Utah. Construct about 14 miles of Uintah Bench pipe laterals consisting of about 11 miles of 12″ to 36″ precast reinforced concrete pipe about 1.5 miles of 12″ to 24″ precast concrete steel cylinder-type pipe and about 1.5 miles of 8″ and 10″ steel or asbestos-cement pipe, including pipe turnouts, manholes, blowoffs, air valves, gate valves and line meters. Construct P2.8R pumping plant which is to have four outdoor, horizontal booster units, two units having a total head of 225′ and 9 cfs discharge and two units having a total head of 365′ and 8 cfs discharge. South of Ogden. Bids to be called by L. N. McClellan, chief engineer, Building 53, Denver, Colo.

PIPE LINES (11-29)—Weber Basin Project, Utah. Furnishing and laying about 21,000′ of 24″, 27″ and 30″ precast concrete pressure pipe part, of which will be steel cylinder-type pipe with pretensioned reinforcement and constructing one concrete-lined equalizing reservoir for Davis Aqueduct trunk lines. About 10 miles north of Salt Lake City. Bids to be called by L. N. McClellan, chief engineer, Building 53, Denver, Colo.

PIPE LATERALS (11-30)—Michaud Flats Project, Idaho. Constructing 7.5 miles of welded steel pipe laterals for sprinkler-type irrigation. Near American Falls. Bids to be called by Regional Director, Fairgrounds, Boise, Idaho.

DISTRIBUTION SYSTEM (11-31) — Chief Joseph Dam Project, Wash. Construct Brewster Flat Distribution System, including 8,000′ of 4″ to 30″ steel pipe, 12,000′ of 4″ to 12″ asbestos-cement pipe and appurtenant structures. Near Brewster. Bids to be called by L. N. McClellan, chief engineers, Building 53, Denver, Colo.

LATERAL LINING (11-32) — Columbia Basin Project, Wash. Construct about 4,500′ of blended earth lining on the EL85 lateral in Block 18. Bids to be called by P. R. Nalder, Project Manager, Box 368, Ephrata, Wash.

DRAINS (11-35)—Kendrick Project, Wyo. Constructing open drains and appurtenant structures near Casper. Bids to be called by Regional Director, Denver Federal Center, Denver, Colo.

DEEPENING DRAINS AND WASTEWAY (11-37) — Columbia Basin Project, Wash. Deepening about 2.5 miles of DE229 drain, extending 2 culverts, reconstructing about 12 drain inlets, deepening about one mile of EL31 wasteway and removing and reconstructing a county road bridge in Block 42. Deepening 8 other drains in Blocks 41 and 42. Near Warden and Moses Lake. Bids to be called by P. R. Nalder, Project Manager, Box 368, Ephrata, Wash.

DEEPENING DRAIN AND WASTEWAYS (11-38) — Columbia Basin Project, Wash. Deepening one drain, constructing 7 new drains, 2 wasteways and one pumping plant in block 45 near Othello. Bids to be called by P. R. Nalder, Propject Manager, Box 368, Ephrata, Wash.

Advertisements for Bids

Advertisements reaching us not later than Wednesday noon will appear the same week.

THE RATE for Advertisements for Bids is 35 cents per line for the first insertion; 25 cents per line for each insertion thereafter.

GRADING

BIDS CLOSE 10 A.M., NOVEMBER 29

Portland, Oregon

NOTICE TO CONTRACTORS

DEPARTMENT OF COMMERCE, BUREAU OF PUBLIC ROADS November 14, 1956. SEALED BIDS will be received at the office of the Bureau of Public Roads, 753 Morgan Building, Portland, Oregon, mail address P. O. Box 3900, Portland, Oregon, until 10:00 o'clock A.M. on November 29, 1956, for furnishing the material and performing the work for constructing 6.830 Miles Grading, Oregon Timber Access Road Project BLM 6-A, Yellowstone Creek Road, Bureau of Land Management-Salem District, Linn County, Oregon, involving 52 Acres Clearing; 35 Acres Grubbing; 329,100 Cu. Yds. Excavation; 136 Cu. Yds. Concrete; 2,428 Lin. Ft. Culvert Pipe, and other small items of work. Plans, specifications and proposals may be obtained at the office of the Bureau of Public Roads, 753 Morgan Building, Portland, Oregon. F. E. ANDREWS, Division Engineer.

5671—11-17

CLASSROOM ADDITION

BIDS CLOSE 7:30 P.M., DECEMBER 18

Klamath Falls, Oregon

NOTICE TO CONTRACTORS

Sealed bids are requested for the construction of a two story classroom addition to the Klamath Union High School at Klamath Falls, Oregon. In addition to classrooms, building will include a large cafeteria and kitchen; stage and dressing rooms for future auditorium; science suite, instrumental and vocal music facilities. Floor area is approximately 32,130 sq. ft.

Exterior walls will be concrete with brick veneer. Asbestos board insulated panels and aluminum sash in aluminum curtain walls. Interior: wood frame with glulam beams, plaster walls and ceiling; floor finishes: linoleum, asphalt, vinyl tile and ceramic tile in toilets; building acoustically designed, roofing, built-up type on wood decks. Low pressure steam, with mechanical ventilation. Lighting, flourescent fixtures. Contract will include wrecking and removal of the old County Library Building, now on the site.

There will be one general bid which will include all items of work.

Bids are to be delivered to the Clerk of Klamath Union High School District No. 2, Room 200, Klamath Union High School, Klamath Falls, Oregon, on or before 7:30 p.m., Tuesday, December 18, 1956.

All bidders must comply with the laws of the State of Oregon, relating to the prequalification of bidders, Chapter 279, Oregon

Revised Statutes. Prequalification forms are immediately available at the office of the Architect.

No bid will be considered unless fully completed in the manner provided in the "Instructions to Bidders" upon the bid form provided by the Architect, and accompanied by a certified check or bid bond, executed in favor of Klamath Union High School District No. 2, in an amount not less than five per cent (5%) of the total amount of the bid, to be forfeited as liquidated damages, should the bidder neglect or refuse to enter into a contract, and provide 100% surety bond for the faithful performance of the work, in the event the contract is awarded to him.

No bidder may withdraw his bid after the hour set for the opening thereof, until after the elapse of 30 days from the bid opening.

The Board of Directors of Klamath Union High School District No. 2, reserves the right to reject any or all bids and to waive any informalities.

The drawings, specifications and contract documents may be examined at the Builders Exchange in Portland, Salem, Eugene, and San Francisco; at the Daily Pacific Builder Plan Room, 465 Tenth Street, San Francisco, California; and at the office of the Architect.

KLAMATH UNION HIGH SCHOOL DISTRICT NO. 2
By Harold Ashley, Clerk
5673—11-17, 24

REHABILITATE OUTLET WORKS, PENSTOCK INTAKES

BIDS CLOSE DECEMBER 19

Cody, Wyoming

NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-4799) will be received at Cody, Wyoming, until December 19, 1956, for furnishing labor and materials for Rehabilitation of Lower Outlet Works and Penstock Intakes at Buffalo Bill Dam, Shoshone Project, Wyoming. Location near Cody, Wyoming in Park County. Principal items are 4,800 cu. yds. excavation; 1,360 cu. yds. concrete; unwatering lower outlet tunnel; and other work. Completion time 800 days. For particulars, address Bureau of Reclamation, P. O. Box 830, Cody, Wyoming; or Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.
5664—11-10

EARTHWORK, CANAL LINING, STRUCTURES

BIDS CLOSE DECEMBER 18

Camp White, Oregon

NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-4798) will be received at Building 234, Camp White, Oregon, until December 18, 1956, for furnishing labor and materials for Earthwork, Concrete Canal Lining, and Structures for Howard Prairie Delivery Canal, Station 0+09 to Station 541+00, and Soda Creek Feeder Canal, Talent Division, Rogue River Basin Project, Oregon. Location east of Ashland, Oregon. Principal items are 194,000 cu. yds. excavation; 23,400 cu. yds compacting embankments; 8,560 cu. yds. concrete in structures and lining; 2,760 lin. ft. 48-inch precast-concrete pipe siphon; and other work. Completion time 690 days. For particulars, address Bureau of Reclamation, P. O. Box 386, Camp White, Oregon; or Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.
5665—11-10

WATERFRONT ARTERIAL, BRIDGES

BIDS CLOSE 10 A.M., P.S.T., NOVEMBER 28

Juneau, Alaska

NOTICE TO CONTRACTORS

Reference, Project Aaa. 50-A-208, Waterfront Arterial, Ketchikan, Alaska, Date, October 12, 1956. Name and Location of project, Waterfront Arterial, Hoadley Creek Bridge, Sunnyside Creek Culvert, Carlanna Creek Bridge, Park-Harris Bridge Project Aaa. 50-A-208, Ketchikan, Alaska. Department or Agency, Alaska Public Works, Office of Territories, Department of the Interior, by (Issuing office) Thomas G. Mooney, Director, Alaska Public Works, Office of Territories, Department of the Interior, Post Office Box 1181, Juneau, Alaska. Sealed bids in single copy for furnishing all labor, equipment, and materials and performing all work for the project described herein will be received until 10:00 A.M. Pacific Standard Time, November 28, 1956 in the mailroom of the office of the Director, Alaska Public Works, Office of Territories, Department of the Interior, 123 West Third Street, Post Office Box 1181, Juneau, Alaska and then publicly opened and read aloud. Information regarding bidding material, bid guarantee, and bonds follows: Plans and specifications and other proposed contract documents are open for public inspection at the Director's office, Juneau, Alaska at Room 2723, Interior Bldg., Washington 25, D. C.; at the Area Engineer's office, Alaska Public Works Room 309, Federal Bldg., Ketchikan, Alaska; and Associated General Contractors of America offices as follows: Seattle Chapter, Construction Center, 215 West Harrison St., Seattle, Wash.; Mountain Chapter, 220 West Harrison St., Seattle, Wash.; Tacoma Chapter, 1605 Center St., Tacoma, Wash.; Portland Chapter, Suite 112, Multnomah Hotel, Portland, Oregon; the Alaska Chapter, 306 Central Bldg., Anchorage, Alaska, and the Plan Bureau, 2413 Western Ave., Seattle, Wash.; and the Builders Exchange Cooperative, 317 Builders Exchange Bldg., Portland, Oregon. A set of such documents may be procured from the office of the Director at Juneau, Alaska, upon deposit of $25.00, all of which will be refunded upon the return of the plans and specifications in good condition within twenty (20) days from date of bid opening. Each bid must be accompanied by a satisfactory bid security (certified check or bid bond) in an amount not less than 5 per cent of the total bid in dollars and cents. No bid will be withdrawn until thirty days after the scheduled closing date for the receipt of bids. The successful bidder will be required to furnish a performance bond and payment bond, each in the amount of 100 per cent of the contract price. The Government reserves the right to award a contract for the project on the basis of the acceptance of any or all of the alternates, whichever course is in the best interest of the Government. DESCRIPTION: Waterfront Arterial, Project Aaa. 50-A-208, Ketchikan, Alaska. The construction of a Waterfront Arterial (Sta. 113+11.28 to Sta. 119+52.61), Hoadley Creek Bridge, Sunnyside Creek Culvert, Carlanna Creek Bridge and the Park-Harris Bridge. Information regarding liquidated damages (if any), payments, etc., is attached or made a part of the specifications. Bids shall be submitted on the forms furnished or copies thereof.
5654—10-27; 11-3, 10

PUMPING PLANT

BIDS CLOSE DECEMBER 4

Canyon Ferry, Montana

NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-4783) will be received at Government Camp, Canyon Ferry, Montana, until December 4, 1956, for furnishing labor and materials for Helena Valley Pumping Plant, Helena-Great Falls Division, Missouri River Basin Project, Montana. Location near Helena, Montana. Principal items are 10,000 cu. yds. excavation; 6,300 cu. yds. concrete; 500,000 pounds installing penstock and discharge pipe; installing two 5,000-hp. hydraulic turbine-driven pumping units; and other work. Completion time 730 days. For particulars, address Bureau of Reclamation, P. O. Box 2553, Billings, Montana; or Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.
5645—10-20

INSTALL MECHANICAL, ELECTRICAL EQUIPMENT

BIDS CLOSE 10 A.M., NOVEMBER 20

Olympia, Washington

NOTICE TO CONTRACTORS

Sealed bids will be received by the Washington State Highway Commission at Olympia, Washington, on Tuesday, November 20, 1956, until 10:00 A.M. and will then and there be opened and publicly read for the construction of the improvements listed below.

All bid proposals shall be accompanied by a bid proposal deposit in cash, certified check, cashier's check or surety bond in an amount equal to five per cent (5%) of the amount of such bid proposal. Should the successful bidder fail to enter into such contract and furnish satisfactory performance bond within the time stated in the specifications, the bid proposal shall be forfeited to the State of Washington.

Prequalification of bidders is required. Maps, plans and specifications may be obtained from this office upon written request therfor and payment to the Director of Highways by cash, certified check, cashier's check or money order in the sum of two dollars ($2.00) for each copy of such maps, plans and specifications as a rental for the use of them. Plans will be forwarded by First Class Mail.

Informational copies of maps, plans and specifications are on file in the office of the County Engineer of the County in which the work is situated, the Chapter offices of the Associated General Contractors of America in Seattle, Spokane, Tacoma and Portland and the offices of the District Engineers of the Department of Highways where they may be inspected.

The improvement for which bids will be received follows:

1. Installing Mechanical and Electrical Equipment on Primary State Highway No. 12 in Wahkiakum County, DEEP RIVER BRIDGE, a State Project, involving a lump sum bid for Furnishing and Installing Mechanical and Electrical Equipment.

E. C. HUNTLEY, Chairman
W. A. BUGGE, Director of Highways
5657—10-27; 11-3, 10

BUTTERFLY VALVES, HANDLING EQUIPMENT

BIDS CLOSE NOVEMBER 29

Denver, Colorado

NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Invitation No. DS-4787 will be received at Denver, Colorado, until November 29, 1956, for furnishing two 92-inch butterfly valves, with one set of handling equipment for Helena Valley Pumping Plant, Helena-Great Falls Division, Missouri River Basin Project, Montana. Delivery is desired within 390 days. For particulars, address Bureau of Reclamation, Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.
5653—10-27

PUMPING UNITS

BIDS CLOSE DECEMBER 11

Denver, Colorado

NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Invitation No. DS-4795) will be received at Denver, Colorado, until December 11, 1956, for furnishing two pumping units consisting of two vertical-shaft, 5,000 horsepower, Francis-type hydraulic turbines and two vertical shaft, centrifugal-type pumps, each with capacity of 150 cfs under a total head of 145 feet for Helena Valley Pumping Plant, Missouri River Basin Project, Montana. Delivery is desired within 540 days. For particulars, address Bureau of Reclamation, Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.
5659—11-10

EARTH AND CONCRETE LINING

BIDS CLOSE 10 A. M., P.S.T., NOVEMBER 27

Ephrata, Washington

NOTICE TO CONTRACTORS

United States Department of the Interior, Bureau of Reclamation, October 30, 1956. Sealed bids, in single, (Specifications No. 117C-403) will be received at the office of the Project Manager, Bureau of Reclamation, Project Office Building, Division Avenue and "C" Streets N.W., Ephrata, Washington, until 10:00 a.m., Pacific Standard Time, November 27, and then publicly opened for furnishing labor and materials and performing all work for construction of Earth

Lining and Concrete Lining EL29 Lateral, Station 208+77.20 to Station 269+63.25, Block 421. This work will include 27,320 cu. yds. excavation, 12,800 mile cu. yds. overhaul, 4,250 cu. yds. refill above lining, 1,600 cu. yds. gravel bedding for concrete lining, 14,800 cu. yds. compacted earth lining, 2,200 cu. yds. gravel cover, 95 cu. yds. riprap, 50 cu. yds. sand and gravel bedding for riprap, furnishing and placing 325 cu. yds. concrete lateral lining, and furnishing and handling 490 barrels cement. Time allowed for completion will be 100 calendar days. For particulars address the Bureau of Reclamation, P. R. Naider, Project Manager, Box 368, Ephrata, Washington.
5688—11-3

PENSTOCK, DISCHARGE PIPE
BIDS CLOSE DECEMBER 11
Denver, Colorado
NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Invitation No. DS-4797) will be received at Denver, Colorado, until December 11, 1956, for furnishing one 120-inch diameter steel penstock approximately 500 feet long; and one 75-inch steel discharge pipe approximately 335 feet long, for Helena Valley Pumping Plant, Missouri River Basin Project, Montana. Delivery desired within 180 days. For particulars, address Bureau of Reclamation, Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.
5660—11-10

STATE HIGHWAY PROJECTS
BIDS CLOSE 10 A. M., DECEMBER 4
Olympia, Washington
NOTICE TO CONTRACTORS

Sealed bids will be received by the Washington State Highway Commission at Olympia, Washington, on Tuesday, December 4, 1956, until 10 A. M., and will then and there be opened and publicly read for the construction of the improvements listed below.

All bid proposals shall be accompanied by a bid proposal deposit in cash, certified check, cashier's check or surety bond in an amount equal to five per cent (5%) of the amount of such bid proposal. Should the successful bidder fail to enter into such contract and furnish satisfactory performance bond within the time stated in the specifications, the bid proposal deposit shall be forfeited to the State of Washington.

Prequalification of bidders is required. Maps, plans and specifications may be obtained from this office upon written request therefor and payment to the Director of Highways by cash, certified check, cashier's check or money order in the sum of two dollars ($2.00) for each copy of such maps, plans and specifications as a rental for the use of them. Plans will be forwarded by First Class Mail.

Informational copies of maps, plans and specifications are on file in the office of the County Engineer of the County in which the work is situated, the Chapter offices of the Associated General Contractors of America in Seattle, Spokane, Tacoma and Portland and the offices of the District Engineers of the Department of Highways where they may be inspected.

Federal funds have been allocated for items Nos. 1 and 2.

The improvements for which bids will be received follow:

1. Clearing, Draining, Grading, Surfacing, Constructing a Cement Treated Base and Paving with Type I-1 Asphaltic Concrete on 1.640 miles of Primary State Highway No. 13 in Pacific County, RAYMOND NORTH, FAP No. F-006-1(7), involving about 43 acres of Clearing, 531,320 cubic yards of Unclassified Excavation, 199,200 units of Overhaul, 46,950 tons of Crushed Stone Surfacing, Ballast, Maintenance Rock and Mineral Aggregates, 4,520 tons of Asphaltic Concrete, 44 tons of Asphalt Cement, 10,790 tons of CTB Aggregate, 1,650 barrels of Portland Cement, 290 cubic yards of Mineral Aggregate, 67 cubic yards of Concrete, 12,210 pounds of Steel Reinforcing Bars, 3,408 linear feet of Concrete Pipe, 286 Guide Posts and other items.
2. Constructing a Reinforced Concrete Slab Bridge on Primary State Highway No. 1 in Thurston County, SLEATER-KINNEY ROAD UNDERCROSSING, FAP No. I-001-2(45), involving about 200 cubic yards of Common Excavation, 740 cubic yards of Selected Roadway Borrow, 180 cubic yards of Crushed Stone Surfacing and Mineral Aggregate, 200 tons of Asphaltic Concrete, 106 linear feet of Beam Guard Rail, 862 cubic yards of Concrete, 138,000 pounds of Steel Reinforcing Bars and other items. Minimum Wage Rates for this project have been predetermined as required by law and are set forth in the bid proposal.
3. Constructing a Treated Timber and Pile Trestle Bridge on 0.007 mile of Secondary State Highway No. 9-A in Clallam County, DRY CREEK BRIDGE NO. 9-A/1, a State Project, involving about 60 cubic yards of Selected Roadway Borrow and Crushed Stone Surfacing, 22 MBM of Treated Timber and Lumber, 600 linear feet of Treated Timber Piling and other items.

E. C. HUNTLEY, Chairman.
W. A. BUGGE, Director of Highways.
5677—11-17, 24

TUNNEL, CANAL
BIDS CLOSE NOVEMBER 27
Canyon Ferry, Montana
NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-4782) will be received at Government Camp, Canyon Ferry, Montana, until November 27, 1956, for furnishing labor and materials for Helena Valley Tunnel and Canal, Station 3+14.30 to Station 149+00, Helena-Great Falls Division, Missouri River Basin Project, Montana. Location near Helena, Montana. Principal items are 26,900 cu. yds. open-cut excavation; 31,600 cu. yds. excavation in tunnel; 600,000 pounds steel supports in tunnel; 10,000 cu. yds. concrete in tunnel lining; and other work. Completion time 730 days. For particulars, address Bureau of Reclamation, P. O. Box 2553, Billings, Montana; or Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.
5646—10-20

SCHOOL ADDITION
BIDS CLOSE 7:30 P. M., DECEMBER 18
Klamath Falls, Oregon
NOTICE TO CONTRACTORS

Sealed bids are requested for the construction of a two-story classroom addition to the Klamath Union High School at Klamath Falls, Oregon. In addition to classrooms, building will include a large cafeteria and kitchen; stage and dressing rooms for future auditorium; science suite, instumental and vocal music facilities. Floor area is approximately 32,130 sq. ft.

Exterior walls will be concrete with brick veneer. Asbestos board insulated panels and aluminum sash in aluminum curtain walls. Interior: wood frame with glulam beams, plaster walls and ceiling; floor finishes: linoleum, asphalt, vinyl tile and ceramic tile in toilets; building acoustically designed, roofing, built-up type on wood decks. Low pressure steam, with mechanical ventilation. Lighting, fluorescent fixtures. Contract will include wrecking and removal of the old County Library Building, now on the site.

There will be one general bid which will include all items of work.

Bids are to be delivered to the Clerk of Klamath Union High School District No. 2, Room 200, Klamath Union High School, Klamath Falls, Oregon, on or before 7:30 p. m., Tuesday, December 18, 1956.

All bidders must comply with the laws of the State of Oregon, relating to the prequalification of bidders, Chapter 279, Oregon Revised Statutes. Prequalification forms are immediately available at the office of the Architect.

No bid will be considered unless fully completed in the manner provided in the "Instructions to Bidders" upon the bid form provided by the Architect, and accompanied by a certified check or a bid bond, executed in favor of Klamath Union High School District No. 2, in an amount not less than five per cent (5%) of the total amount of the bid, to be forfeited as liquidated damages, should the bidder neglect or refuse to enter into a contract, and provide 100 per cent surety bond for the faithful performance of the work, in the event the contract is awarded to him.

No bidder may withdraw his bid after the hour set for the opening thereof, until after the elapse of 30 days from the bid opening.

The Board of Directors of Klamath Union High School District No. 2 reserves the right to reject any or all bids and to waive any informalities.

The drawings, specifications and contract documents may be examined at the Builders Exchange in Portland, Salem, Eugene, and San Francisco; at the Daily Pacific Builder Plan Room, 465 Tenth Street, San Francisco, California; and at the office of the Architect, Howard R. Perrin, 1121 Main Street, Klamath Falls, Ore.

KLAMATH UNION HIGH SCHOOL DISTRICT NO. 2.
By Harold Ashley, Clerk.
5676—11-17

HANGAR, PAVING, STRUCTURES, UTILITIES
BIDS CLOSE 2 P.M., P.S.T., DECEMBER 28
Moses Lake, Washington
NOTICE TO CONTRACTORS

Sealed bids are hereby invited for the construction of a two-place hangar, including earthwork, paving, utilities and miscellaneous items of work. The project is for the Boeing Airplane Company, Seattle Division, and will be located at the Moses Lake Flight Center, Larson Air Force Base, Grant County, Washington.

The project was previously advertised as four separate packages:

Package 9B Structural Steel Work
Package 9C Hangar Doors
Package 9A Construction to Grade
Package 9 Structures, Paving & Utilities

Package 9B has been awarded and retains its separate identity until assigned to the successful bidder on Package 9. Packages 9A and 9C are now consolidated with Package 9. The work includes but is not limited to the following:

(1) Two-Place Hangar, not including structural steel frame.
(2) Concrete apron and Yard Paving, including Excavation, Grading and Subgrade in connection therewith.
(3) Asphaltic Concrete Access Road and Fuel Truck Parking Area.
(4) Domestic and Fire Protection Water Lines.
(5) Air from Existing Service Line.
(6) Additions to and Modification of Existing Boiler Plant including Two Steam Generating Units and Steam and Pumped Return Lines for the Hangar and Paint Storage Building.
(7) Storm and Sanitary Sewers.
(8) Electrical Distribution and Communications System from Existing Services.

This contract will include by assignment the Structural Steel Work contract (Package No. 9B) previously awarded.

This contract will constitute a sub-contract under a prime contract between Boeing Airplane Company and the United States Government.

Bid, Performance and Payment Bonds will be required.

Not more than three sets of contract documents may be obtained by each General Contractor Bidder on or about November 26, 1956. A deposit of $100.00 (one hundred dollars) in the form of a certified check will be required on each set of contract documents upon application at the offices of Naramore, Bain, Brady and Johanson, Architects and Engineers, 904 Seventh Avenue, Seattle 4, Washington. Deposits will be refunded upon return of document sets in good condition to the offices of the

---

Legal advertisements appearing in our columns come to the attention of construction firms, and equipment and supply houses throughout the entire Pacific Northwest and Alaska.

Architect-Engineer within two (2) weeks following opening of bids.

Complete sets of Bid Documents will be available for inspection by prospective Bidders at the following locations:

Naramore, Bain, Brady & Johanson, 904 Seventh Avenue, Seattle 4, Washington.

Naramore, Bain, Brady & Johanson, Moses Lake Flight Center, Moses Lake, Washington.

Associated General Contractors of America, 215 W. Harrison, Seattle, Washington.

Plan Bureau, 2413 Western Avenue, Seattle, Washington.

Mountain Pacific Chapter of Associated General Contractors, 220 West Harrison, Seattle, Washington.

Associated General Contractors of America, 1605 Center Street, Tacoma, Washington.

Construction Council, Spokane Hotel, Spokane, Washington.

Associated General Contractors of America, Eastern Washington Builders' Chapter, 1207 N. Washington, Spokane, Washington.

Associated General Contractors of America, S. 102 Stevens, Spokane, Washington.

Builders' Exchange, Builders Exchange Building, Portland, Oregon.

Associated General Contractors, Central & Northern California, 850 Battery, San Francisco, California.

Southwest Builders & Contractors, 1660 Beverly Blvd., Los Angeles, California.

F. W. Dodge Corporation, Thomas Building, Dallas, Texas.

F. W. Dodge Corporation, 700 Merchandise Mart, Chicago, Illinois.

Builders' Exchange, National Building, Minneapolis, Minnesota.

Wenatchee Construction Council, Wenatchee, Washington.

Columbia Basin Construction Council, Inc., 203 Date Street, Moses Lake, Washington.

Daily Journal, 1217 Welton Street, Denver, Colorado.

Sealed bids will be opened and publicly read at 2:00 p.m., P.S.T., December 28, 1956 in the Engineering Building, Boeing Airplane Company, Seattle, Washington.

5675—11-17

JUNIOR-SENIOR HIGH SCHOOL
BIDS CLOSE 10 A.M., P.S.T., DECEMBER 19
Valdez, Alaska
NOTICE TO CONTRACTORS

Project Aaa. 50-A-159, School, Valdez, Alaska. November 8, 1956. Valdez Junior-Senior High School, Project Aaa. 50-A-159, Valdez, Alaska. Alaska Public Works, Office of Territories, Department of the Interior. By (issuing office) Thomas G. Mooney, Director, Alaska Public Works, Office of Territories, Department of the Interior, Post Office Box 1181, Juneau, Alaska. Sealed bids in single copy for furnishing all labor, equipment, and materials and performing all work for the project described herein will be received until 10:00 A.M. Pacific Standard Time, December 19, 1956 in the mailroom of the office of the Director, Alaska Public Works, Office of Territories, Department of the Interior, 123 West Third Street, Post Office Box 1181, Juneau, Alaska and then publicly opened and read aloud. Information regarding bidding material, bid guarantee, and bonds follows: Plans and specifications and other proposed contract documents are open for public inspection at the Director's office, Juneau, Alaska; at Room 2723, Interior Building, Washington 25, D. C.; at the Area Engineer's office, Alaska Public Works, Reliable Service Bldg., Anchorage, Alaska; and Associated General Contractor's of America offices as follows: Seattle Chapter, Construction Center, 215 West Harrison St., Seattle, Wash.; Mountain Chapter, 220 West Harrison St., Seattle, Wash.; Tacoma Chapter, 1605 Center Street, Tacoma, Wash.; Portland Chapter, Suite 112 Multnomah Hotel, Portland, Oregon; the Alaska Chapter, 306 Central Bldg., Anchorage, Alaska, and the Plan Bureau, 2413 Western Ave., Seattle, Wash.; and the Builders Exchange Cooperative, 317 Builders Exchange Bldg., Portland, Oregon. A set of such documents may be produced from the office of the Director at Juneau, Alaska, upon deposit of $25.00, all of which will be refunded upon the return of the plans and specifications in good condition within twenty (20) days from date of bid opening. Each bid must be accompanied by a satisfactory bid security (certified check or bid bond) in an amount not less than 5 per cent of the total bid in dollars and cents. No bid will be withdrawn until thirty days after the scheduled closing date for the receipt of bids. The successful bidder will be required to furnish a performance bond and payment bond, each in the amount of 100 per cent of the contract price. The Government reserves the right to award a contract for the project on the basis of the acceptance of any or all of the alternates, whichever course is in the best interest of the Government. DESCRIPTION: School, Project Aaa. 50-A-159, Valdez, Alaska. One story reinforced concrete slab, masonry and steel frame high school building containing approximately 17,000 square feet. Information regarding liquidated damages (if any), payments, etc., is attached or made a part of the specifications. Bids shall be submitted on the forms furnished or copies thereof.

5674—11-17, 24; 12-1

CLEAR CREEK TUNNEL
BIDS CLOSE DECEMBER 20
Weaverville, California
NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-4803) will be received at Weaverville, California, until December 20, 1956, for furnishing labor and materials for Clear Creek Tunnel, Trinity River Division, Central Valley Project, California. Location near Redding, California. Principal items are 150,000 cu. yds. open cut excavation; 675,000 cu. yds. excavation in tunnel; 8,000,000 lbs. furnishing and installing steel tunnel supports; 175,000 cu. yds. concrete; 14,500,000 lbs. furnishing and placing reinforcement bars; and other work. Completion time 1,720 days. For particulars, address Bureau of Reclamation, Weaverville, California, or Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.

5669—11-17

HEALTH CENTER
BIDS CLOSE 10 A.M., DECEMBER 12
Juneau, Alaska
NOTICE TO CONTRACTORS

Sealed bids in single copy for furnishing all labor, equipment, and materials and performing all work for the project described herein will be received until 10:00 A.M. Pacific Standard Time, December 12, 1956, in the mailroom of the office of the Acting Director, Alaska Public Works, Office of Territories, Department of the Interior, 123 West Third Street, Post Office Box 1181, Juneau, Alaska, and then publicly opened and read aloud. Information regarding bidding material, bid guarantee, and bonds follows: Plans and specifications and other proposed contract documents are open for public inspection at the Acting Director's office, Juneau, Alaska; at Room 2723, Interior Bldg., Washington 25, D. C.; at the Area Engineer's office, Alaska Public Works, Reliable Service Bldg., Anchorage, Alaska; and Associated General Contractor's of America offices as follows: Seattle Chapter, Construction Center, 215 West Harrison St., Seattle, Wash.; Mountain Chapter, 220 West Harrison St., Seattle, Wash.; Tacoma Chapter, 1605 Center Street, Tacoma, Wash.; Portland Chapter, Suite 112, Multnomah Hotel, Portland, Oregon; the Alaska Chapter, 306 Central Bldg., Anchorage, Alaska, and the Plan Bureau, 2413 Western Ave., Seattle, Wash.; and the Builders Exchange Cooperative, 317 Builders Exchange Bldg., Portland, Oregon. A set of such documents may be procured from the office of the Acting Director at Juneau, Alaska, upon deposit of $25.00, all of which will be refunded upon the return of the plans and specifications in good condition within twenty (20) days from date of bid opening. Each bid must be accompanied by a satisfactory bid security (certified check or bid bond) in an amount not less than 5 per cent of the total bid in dollars and cents. No bid will be withdrawn until thirty days after the scheduled closing date for the receipt of bids. The successful bidder will be required to furnish a performance bond and payment bond, each in the amount of 100 per cent of the contract price. The Government reserves the right to award a contract for the project on the basis of the acceptance of any or all of the alternates, whichever course is in the best interest of the Government. DESCRIPTION: Project Aaa. 50-A-263, Health Center, Dillingham, Alaska. A Health Center Building containing clinical and living facilities. Approximately 29'-0"x57'-0", of frame construction with plumbing, heating and electrical facilities. BY (Issuing office): John D. Argetsinger, Acting Director, Alaska Public Works, Office of Territories, Department of the Interior, Post Office Box 1181, Juneau, Alaska.

5667—Nov. 10, 17 CNB

EARTHWORK AND STRUCTURES
BIDS CLOSE DECEMBER 19
Weaverville, California
NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-4804) will be received at Weaverville, California, until December 19, 1956, for furnishing labor and materials for Earthwork, Structures and Surfacing, County Road Improvement, Trinity River Bridge to Trinity Dam, Central Valley Project, California. Location near Lewiston, California. Principal items are 750,000 cu. yds. excavation for roadway; 4,670 lin. ft. furnishing and laying 8-inch to 60-inch corrugated metal pipe; 35,000 tons crushed rock base; 260 tons liquid asphalt; and other work. Completion time 300 days. For particulars, address Bureau of Reclamation, Project Construction Engineer, Weaverville, California; or Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.

5668—11-17

JUNIOR HIGH SCHOOL BUILDING
BIDS CLOSE 2 P.M., DECEMBER 12
Great Falls, Mont.
NOTICE TO CONTRACTORS

Sealed proposals will be received by the Clerk of the Board of School Trustees, School District No. 1, Great Falls, Montana, at his office in the Washington School, 1015 First Avenue North, until 1:30 P.M. (MST) and in the auditorium of the Largent School, 915 First Avenue South, from 1:45 P.M. until 2:00 P.M. (MST) on Wednesday, December 12, 1956, for the construction including grounds of a Junior High School Building, to be located in School District No. 1, Great Falls, Montana, for each of the following portions of the work:

(1) General Construction
(2) Mechanical Work
(3) Electrical Work

Proposals will be opened and publically read in the Largent Auditorium at 2:00 P.M. (MST) December 12, 1956.

All proposals shall be submitted in duplicate on the forms supplied and made a part of the proposed contract documents which may be examined at the office of McIver, Hess and Haugsjaa, Architect, 603 Strain Building, Great Falls, Montana. Prime bidders may obtain plans and specifications from the Architect for a deposit of $100 per set, not to exceed two for General Construction bidders only. The deposit will be returned to the bidder after the bid opening, provided the documents are returned to the Architect's office in good condition. Material suppliers and others not prime bidders may avail themselves of the documents at the various builders exchanges where they are on file. A list of these exchanges may be procured from the Architect.

The character and amount of the bid guarantee, performance bond, and liability insurance is stated in the documents. Bidders shall enter on the proposal and containing envelope the number and class of their Montana State Contractor's license.

No bidder may withdraw his bid for at least fifteen (15) days after the scheduled closing time for the receipt of the bids.

The Board of School Trustees reserves the right to reject any or all bids and to waive informalities.

The Board of School Trustees
School District No. 1
Great Falls, Montana
By: V. F. Gibson, Clerk

5670—11-17

School of Architecture & Allied Arts

Pacific Architect and Builder

DECEMBER BPA 1956

50¢

WITH CONSTRUCTION NEWS BULLETIN



In this issue

Indoor-outdoor integration at its best
Two-level residence built around the stairs
A philosopher's appraisal of the architect as artist



An Exclusive Gladding, McBean Product

EQUAL PERFECTION ON ALL FACES

The dry press process is used by Gladding, McBean & Co. to produce SCR brick for partition walls that have both sides exposed. No kiln marking on one face as found in brick made by the stiff-mud process.

ENDURING BEAUTY WITH STRENGTH

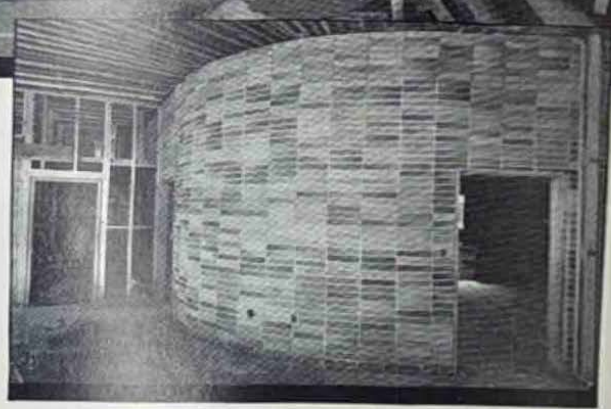
Partitions have the warm color of burned natural clay with pleasing variations in shading, and with strength to support roof beams.

EASE OF INSTALLATION

Gladding, McBean's SCR dry press units are cored with 5 holes large enough for ⅝ inch reinforcing rods, and electrical conduits. Voids around reinforcing steel are slushed full with grout.

LOW COST AND MAINTENANCE

Gladding, McBean's dry press SCR brick was installed in the Benjamin Franklin School at "in-the-wall" costs competitive with non-masonry construction. Total cost of this school was $9.60 per sq. ft. of floor area. SCR requires no extra surfacing and offers the extremely low maintenance associated traditionally with the beauty of brick.



IN VANCOUVER, architects McCoy and Bradbury selected the new dry press SCR brick for the McLoughlin Junior High School. General Contractor: LEWIS CONSTRUCTION CO. Masonry Contractor: PAUL PARKER.

SCR

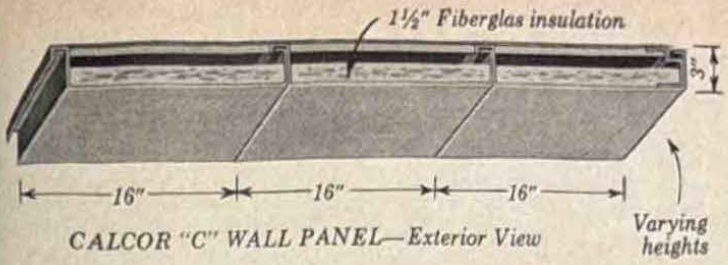
dry press brick

A PRODUCT OF

GLADDING, McBEAN & CO.

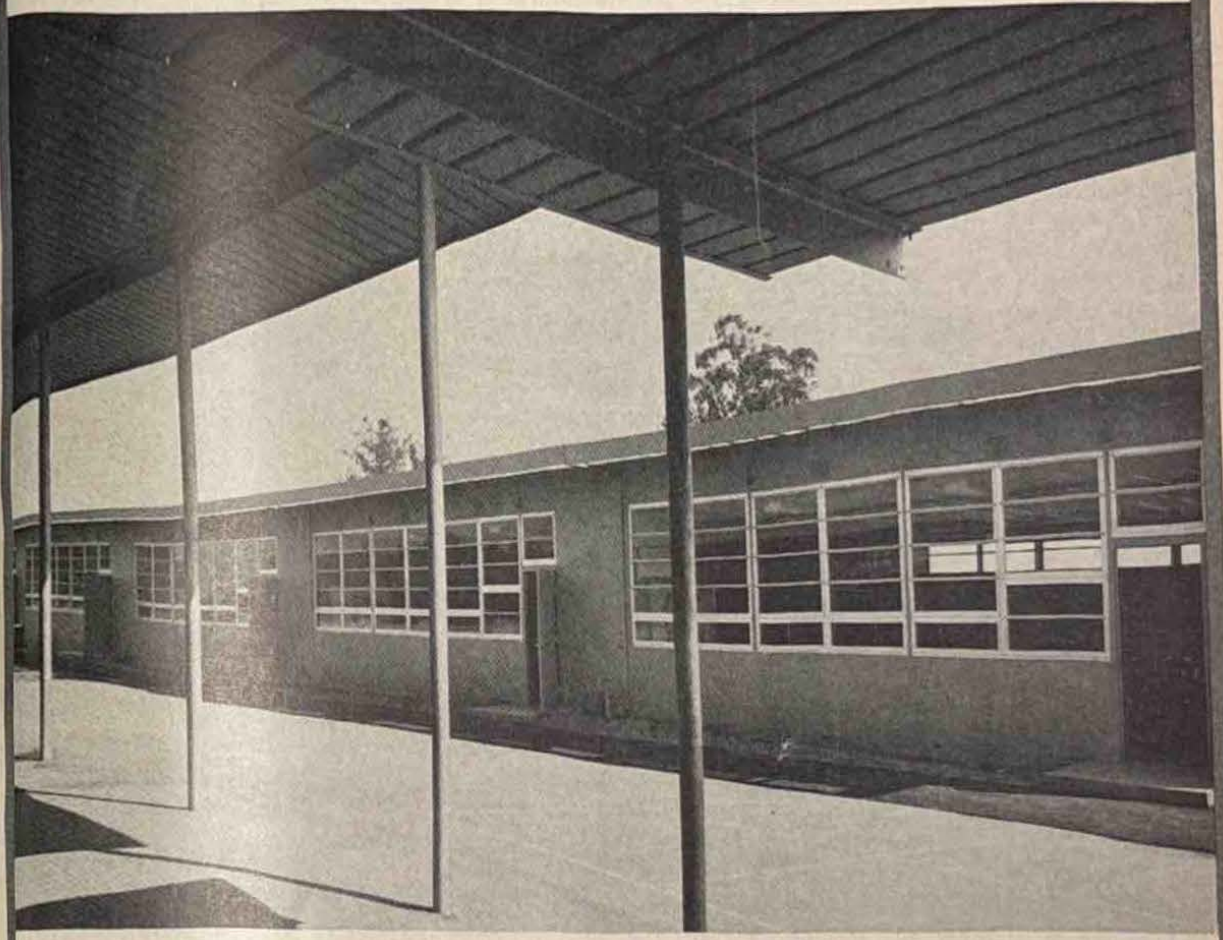
LOS ANGELES, SAN FRANCISCO, SEATTLE
PORTLAND, SPOKANE, PHOENIX

Since 1875—the West's oldest and largest creator of ceramic products



CALCOR "C" WALL PANEL—Exterior View

The Calcor classroom is shop fabricated in these modular steel panels. A unique interlocking mechanism makes the building simple to disassemble and relocate. The panel is formed from 20-gauge United States Steel Sheet. The inside and outside surfaces are separated 3 inches with steel stiffeners running vertically on 16-inch centers. No exposed fasteners inside.



Steel prefabs reduce schoolroom costs one-third

Calcor Corporation, Los Angeles, has developed a revolutionary new modular prefab classroom. The mass produced unit can be erected in a week for a price 30% less than conventional wood-frame schoolrooms.

The use of steel for framing, walls and roof decking gives the building an earthquake-safe rigidity. The entire structure is incombustible. Fiberglas is used in both roof and walls to obtain insulation quality equal to more than a foot of masonry. The Calcor modular-prefab system has sufficient design flexibility to accommodate the desired classroom features of architects and school districts. Full scale tests of the buildings have gained the approval of the California State Division of Architecture as well as the Department of Building and Safety, City of Los Angeles.

USS Steel Sheets

United States Steel Corporation · Columbia-Geneva Steel Division
120 Montgomery Street, San Francisco 6

USS

UNITED STATES STEEL



These hands hold the answer to your concrete masonry needs...

CASCADE PUMICE

You'll find the most satisfactory concrete masonry material is Cascade Pumice Concrete. Its beautiful coloring when used as broken-faced block, plus strength and high insulation value, gives you a better job with lower handling and labor costs. Write for the technical story of Cascade Pumice today.

Count on Cascade Pumice Concrete for:



HIGH INSULATION VALUE
FIRE RESISTANCE
LIGHT WEIGHT
STRENGTH

WILLIAMSON *Cascade* PUMICE

Plant and Office:
P. O. Box 1083 Bend, Oregon

not specified

intro

We guess that every editor has an odd collection of news releases and clippings that he doesn't want to put in the round file but just don't seem to fit any particular department in his publication. We dusted off our "assorted items" folder the other day and after reviewing its contents, decided to resume the column formerly known as "From the Editor's Notebook" under the title seen above. It will give us an opportunity to relate what we feel are some interesting sidelights and perhaps an occasional humorous tidbit and to comment on more serious matters which do not lend themselves to a full-length editorial.

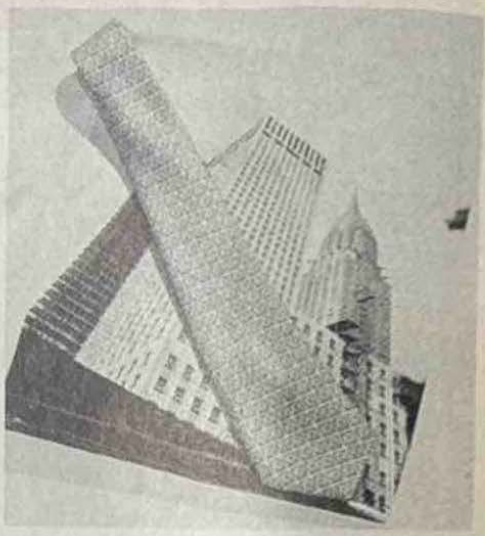
doggone

A $350,000 animal shelter has opened in New York City complete with soft music, running water—and red hydrants.

for toastie tootsies

Despite the weather propaganda issued in the Chamber of Commerce brochures, in the interest of objective reporting we'll have to admit that Seattle has done a bit of shivering the past few weeks. So much so, in fact, that our Girl Friday was forced to unpack her foot warmer. A year ago Christmas we gave her the 14x 21-in. neoprene mat — compliments of General Industrial Co. — as a sort of gag but it turned out to be one of her most useful presents. If your secretary is threatening to wear fur-lined mukluks at her desk (assuming, of course, that your quarters were not designed or built by you), we'll be happy to send you the manufacturer's address.





publicity tie-in

The topic of Christmas brings with it the gift tie plague. One that we received much earlier this year (and which is out of our price range) has become a favorite of ours. Called "Perennial Classic" from the Graeco-Roman collection of Manhattan haberdasher Bronzini, it copies "almost intact" the stainless steel facade of the 45-story Socony-Mobil Building, designed by architects Harrison & Abramovitz. Bronzini president W. D. Blackwell says the basic design elements are "unmistakably Greek and Roman" but handled in "20th century American."

wright-hand man

PA&B's Salem correspondent and photographer-newsman of the Oregon Statesman, Thomas G. Wright Jr., has been named administrative assistant in charge of press relations for Governor-elect Robert Holmes. Wife Marguerite is taking over Tom's assignment of supplying our readers with building news from that area. He joined the staff of the Statesman in 1948 and earlier was with the Eugene Register Guard while attending the University of Oregon.

nays have it

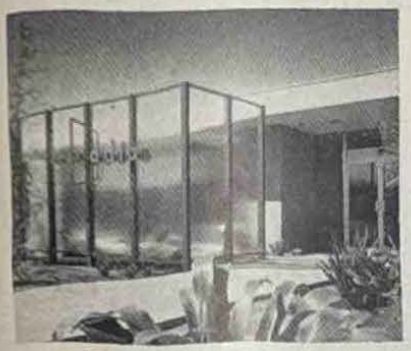
Lest the architect feels that he is being neglected by society, let us cite a recent front-page story in the Seattle Times concerning Washington State school superintendents in defense of today's educational trends. In declaring that the Seattle public school system has always emphasized fundamentals, its head explained: "The architect, for example, may have gotten his first vision of his career through the woodworking or drawing class." Let's have a show of hands!

Pacific Architect and Builder

DECEMBER EPA 1956

WITH CONSTRUCTION NEWS BULLETIN

VOLUME 62 NUMBER 12



Cover: Office building for Arcadia Metal Products, Fullerton, Calif. (p. 16) A. Quincy Jones and Frederick E. Emmons, architects; Dale Healy photo.

Perspectives 6

Highlights—Trends—Views 7

Building Permit Tabulation 24

Materials, Products, Tools and Latest Literature 28

T-square Talk 30

Builders and Suppliers 31

Construction News 37

Covering California, Oregon, Washington, Idaho, Montana, Alaska and Hawaii—a $4 billion building market

ROOTS OF CONTEMPORARY ARCHITECTURE—A traveling display of the 1900-30 work of Irving Gill, Greene & Greene, Bernard Maybeck, Richard Neutra, R. M. Schindler and Frank Lloyd Wright 10

THE ARCHITECT AS ARTIST—A philosopher's long overdue appraisal presented before the CCA convention in Yosemite—by Dr. STEPHEN C. PEPPER 12

ARCHITECT'S OWN HOUSE—Two-level dwelling on a view site in Bellevue, Wash., is built around the stairs: John C. Rushmore, architect 14

GARDEN OFFICES AND FACTORY—A masterful approach to indoor-outdoor integration for a sliding glass door manufacturer in Fullerton, Calif.: A. Quincy Jones and Frederick E. Emmons, architects 16

NORTHWEST BOND ISSUES—A roundup of projects approved by voters in Oregon, Washington, Idaho and Montana in the November elections 33

An editorial index of material appearing in Pacific Architect and Builder for 1956 is found on pages 35 and 36.

SUBSCRIPTION RATES: Payable in advance. In U. S. and possessions, $4 for one year; Canadian, $5 for one year; Foreign, $6 for one year. Single copies, 50¢. Business news services also available are Pacific Construction Daily, Construction News Bulletin and Pacific Builder and Engineer.

PACIFIC ARCHITECT AND BUILDER is published monthly by Pacific Builder and Engineer, Inc., 2418 Third Ave., Seattle 1, Wash., and is mailed on the third Saturday of each month. Price: $4 per year. Acceptance under P.L.&R. 34.64 authorized.

Published by

Pacific Builder and Engineer, Inc. 2418 Third Ave., Seattle 1, Wash. Phone: MAin 0285

N. B. CHAPIN, President **ROSCOE E. LAING**, General Manager

EDITORIAL STAFF: **Robert E. Koehler**, editor; **D. F. McCormick**, construction news editor; **Anne Hecker**, editorial assistant; **Joan Storey**, research assistant; **Win Romtvedt** (503 McKay Building, Portland 4, Ore., CApitol 3-1229), **Kenneth R. MacDonald** (24 White St., San Francisco 9, Calif., GRaystone 4-8532), contributing editors.

BUSINESS STAFF: **Robert G. Hitchens**, general sales manager; **L. C. McDowell**, advertising manager; **Paul N. Swanson**, advertising department; **Phyllis Forth**, production supervisor; **F. S. Eggan**, circulation manager; **Alice Malloy**, assistant circulation manager.

PERSPECTIVES

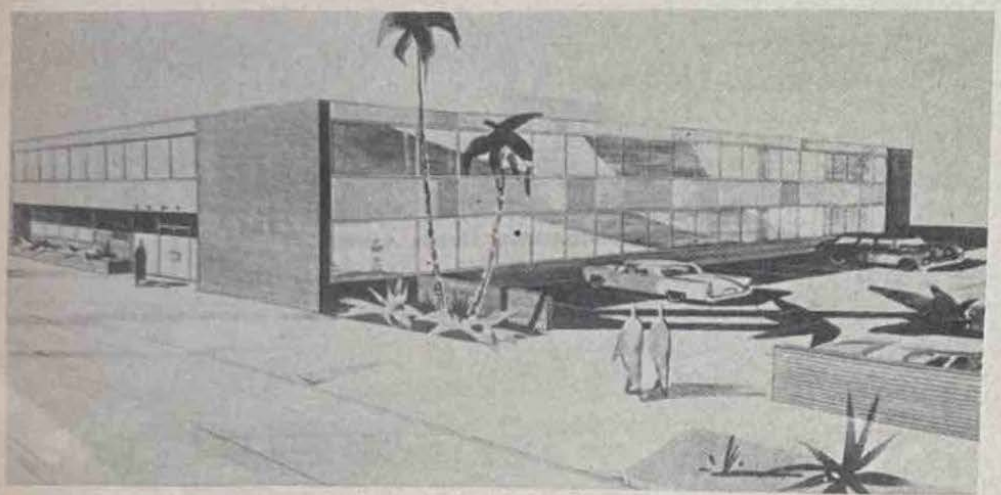
by Pacific architects



SEVEN-STORY ADDITION to St. Francis Xavier Cabrini Hospital (formerly Columbus Hospital) in Seattle will be faced with marble and brick and equipped with operating aluminum mold bar sash. One entrance will be through landscaped courtyard. Addition and alterations to existing building will bring bed capacity to 300. Architects-engineers: John Graham & Co.



PROPOSED $6 MILLION COURTHOUSE for San Joaquin County in Stockton, Calif., will be windowless structure except for few offices on entrance street level. Preliminary plans call for use of precast concrete walls and granite facings. Site on Weber Point is surrounded on three sides by Stockton Channel. Architects: Mayo, Johnson & de Wolf associated with Clowdsley & Whipple; consulting architects: Austin, Field & Fry; complete space study, desk by desk, by Michael Saphier Associates, Inc., New York.



NEARING COMPLETION in Los Angeles is two-story steel frame and reinforced brick office building for Century Properties. Aluminum frame windows and porcelain enamel wall panels have been used in design as well as structural elements. Lobby features free-standing "floating" steel stairway with terrazzo treads. Plan provides for complete flexibility of utility installations. Architect: Daniel L. Dworsky, AIA.

Building News - Trends - Views

FOUR WEST COAST ARCHITECTS (or firms) are among the five preliminary winners in a nationwide competition for the design of a Corregidor-Bataan Memorial, to include both a school and a library, for which Congress allocated $6 million in 1953. They are Paul Thiry, and Naramore, Bain, Brady & Johanson, both of Seattle; and Donald Powers Smith and Anshen & Allen, both of San Francisco. The fifth is a New York City firm—Katz, Waisman, Blumenkranz, Stein, Weber.

On the basis of brochures submitted to define their qualifications to do such a structure, 52 firms were invited to compete for the commission. The five preliminary winners will next compete with five additional firms who have done similar government work in the past. The memorial is intended "to reflect the hemispheric scope of the war in the Pacific."

SELECTION OF AN ARCHITECT to design Seattle's new public library apparently is the closing chapter in a controversy which was waged between the city librarian and the former Library Board, whose members were replaced several months ago. The commission has gone to the firm of Jones & Bindon, who had done preliminary design work without charge under a "gentlemen's agreement" with library head John S. Richards. The firm of Decker, Christenson & Kitchin was named associate architect.

The feud over the selection of an architect broke into the open shortly after voters approved a $5 million bond issue last spring to build the new library.

PRESSING PROBLEMS OF 1957—money, taxes, merchandising, materials and building methods—will get a going-over in panel discussions, workshops and general sessions when the NAHB holds its 13th annual convention and exposition in Chicago January 20-24. Among the speakers will be Dr. Ralph Lapp, director, Nuclear Science Service, who will discuss "Looking Ahead with America."

VOTERS LAST MONTH STIMULATED the construction boom by approving a record $2.5 billion worth of bond issues, the Associated General Contractors of America reports. The approved projects—mostly roads, schools, water works and housing—represented 93% of all bond proposals submitted on state, city and county ballots November 6. (See p. 33 for a roundup of Northwest projects.)

ANCHORAGE, ALASKA, ARCHITECTS are attempting to "educate" the Board of Education in how to cut school building costs by better planning. In a recent two-hour meeting, representatives of three firms suggested several methods to reduce costs on specific projects. All agreed that if the board gives architects more time to draw plans and allows more time for bidding and construction, cheaper schools can be built.

HOUSING DESIGN IN THE NORTHWEST has greatly impressed the editor in chief of the magazine Living for Young Homemakers, Edith Brazwell, who was in Seattle December 7 to address the Red Cedar Shingle Bureau annual convention. "Of course we could expect that," Miss Brazwell commented, "because Seattle has some of the best builders in the country and certainly some of the outstanding architects."

Miss Brazwell quite naturally had something nice to say about red cedar shingles too, explaining, "Our contemporary architecture needs the textured quality of shingles and shakes to offset the hard surfaces of so many materials used in housing today. The outside uses of these materials are well known but why not use a little ingenuity and develop uses for them inside the house."

R. D. Mackie of Aberdeen, Wash., was elected bureau president; Norman A. English, Vancouver, B.C., vice president; and Virgil G. Peterson, Seattle, reelected secretary-manager.

A NEW RECOGNITION OF WOOD as a remarkable and versatile material has resulted from "engineered timber construction," the American Society of Mechanical Engineers were told at their November annual meeting in New York. J. C. Van Dyke of Unit Structures, Inc., pointed out that the most spectacular example of huge laminated wood arches is the Jai Alai Sports Arena in West Palm Beach, Fla., which uses the world's largest glued-laminated arch, a span of almost 250 ft., rising to a height of 75 ft.

COLOR AND LIGHTING should be combined into a single architectural pattern to attain "character" and to suit the purpose of the proposed building or room, a British lighting engineer told a symposium at Cornell University last month. In hospital design, for example, he recommended a combination of natural and artificial ward lighting, so arranged that neither light source serves as a discomfort to bedridden patients.

In many instances a patient will be seriously disturbed by the brightness of a blue sky that would delight him if he were well and active, the engineer observed. Therefore, a direct view of the sky from a hospital bed is an impractical design, he concluded. Similarly, bright colored walls can be as great a source of irritation to a patient as the scrubbed white walls traditional to a large percentage of hospitals. He suggested soft pastel colors combined with concealed direct-indirect lighting as most suitable for hospital rooms.

A NEW CENTURY BECKONS will be the theme of the 89th national convention of the AIA in Washington, D.C., May 14-17, 1957, marking its 100th birthday.

A NEW BUILDING TECHNIQUE that promises to reduce framing costs on new houses by as much as 30% has been announced by the Los Angeles architectural firm of Palmer & Krisel. Speaking at a NAHB-sponsored housing conference in Washington, D.C., William Krisel, AIA, revealed that his firm is already designing houses for which entire walls, including doors and windows, will be manufactured to the architect's specifications at a local factory and assembled on the site.

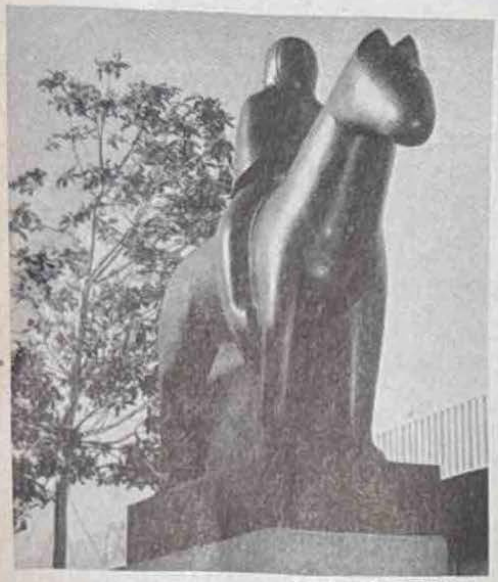
Unlike prefabricated homes which utilize standard machine-built sections in various arrangements, the new method is adaptable to custom houses and "represents a necessary step toward the eventual mass production of American housing without sacrificing the individuality that the consumer demands," Krisel said.

FIVE OF POLAND'S leading construction experts who are touring the nation to study housing and building development have included the West Coast on their itinerary. The group is being led by Prof. Czeslaw Babinski, deputy minister of building.

SALE OF GYPSUM BOARDS has increased about 35% since 1953, reflecting their use in all types of construction.

HOUSING NOTES: Of the houses built in the U.S. last year, 7.7% were constructed in Los Angeles and 49% in the six states of California, New York, Texas, Illinois, Michigan and Ohio. . . . Almost 10,000 new single-family nonfarm homes will be built this year in the nation without bathrooms. . . . The government has forecast a further decline in home building next year. However, total construction is expected to set a record, about $46.5 billion.

Shopping centers make news up and down the coast



Norton Pearl photo

ST. FRANCIS ON HORSEBACK: three tons of California black granite, 8 ft. 4 in. tall.

Peninsula's Hillsdale features Bufano's statuary

Boasting one of the finest art collections ever shown in combination with a commercial area, Hillsdale Regional Shopping Center in San Mateo, Calif., is now in business with 72 retail outlets, including such names as Macy's, Liebes, Newberry's, C. H. Baker and Sears.

A group of 11 statues by sculptor Beniamino Bufano is a part of a permanent installation of the landscaped pedestrian mall of the center, developed by the David D. Bohannon Organization and designed by Welton Becket & Associates.

Comprised of animals, Bufano's statuary is done in a simplified modern treatment and executed, for the most part, in California black granite. The pieces vary in height from a 3-ft. frog to a 12-ft. owl. The latter is a first for Bufano, in which he has combined two of the oldest forms of sculpture—wood carving and mosaic—with the most modern—stainless steel.

Born just outside of Rome, Italy, he has been sculpturing in various mediums all of his life. His San Francisco statue of Sun Yat-sen is stainless steel with a granite head and his popular "St. Francis" and "Peace" are done in this same combination. The museum at Stanford University has a collection of nearly 100 pieces of his work.

The driving force behind the acquisition of Bufano's statuary was Bohannon's belief that a shopping area is a true social as well as commercial center. He feels it is important to the attitude of a community to integrate the cultural atmosphere in the shopping areas along with the many advantages inherent in today's regional shopping center.

Tacoma center to be one of largest in Northwest

One of the Pacific Northwest's largest shopping centers is now under construction in Tacoma's Lakewood District, the 50-acre, $5 million Villa Plaza. Ultimate development of the project, to include apartment house units, will represent more than $10 million.

The 33 shops and stores in the central plaza will be connected by covered walkways. Building areas will cover 266,000 sq. ft. in the original development. Permanent parking will be provided for 4,000 cars. A reflection pool, lined with plantings, will be featured on the main mall approach.

To date 14 retailers have leased space. The Rhodes store, central unit, will have tilt-up concrete walls and concrete floors and roof. Other buildings will have concrete and concrete block walls, concrete floors and glued-laminated beam and purlin roof construction.

Natural gas will be used for all heating plants.

Entrances will be placed to provide for balanced traffic flow through the area.

Sites for future expansion are provided for in the design. In addition to the apartment house development, a separate location has been reserved for a hospital.

Thomas Albert Smith, AIA, of Seattle is architect for the overall project and supervising architect for the Rhodes and F. W. Woolworth units, designed by A. E. Alexander of San Francisco. Worthen & Wing are consulting engineers; Merritt Construction Co. is general contractor. Both are Tacoma firms.

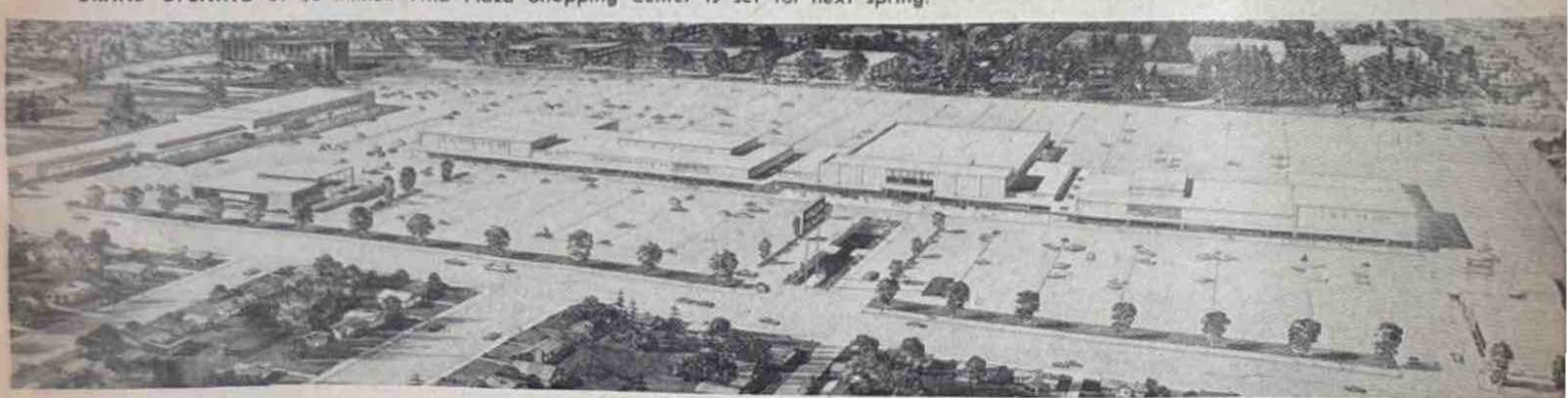
State's largest supermarket set for Montana project

While not a giant like some others being built in the West, the $2 million Miracle Mile Shopping Center planned for Great Falls, Mont., will give merchandising in that area a shot in the arm.

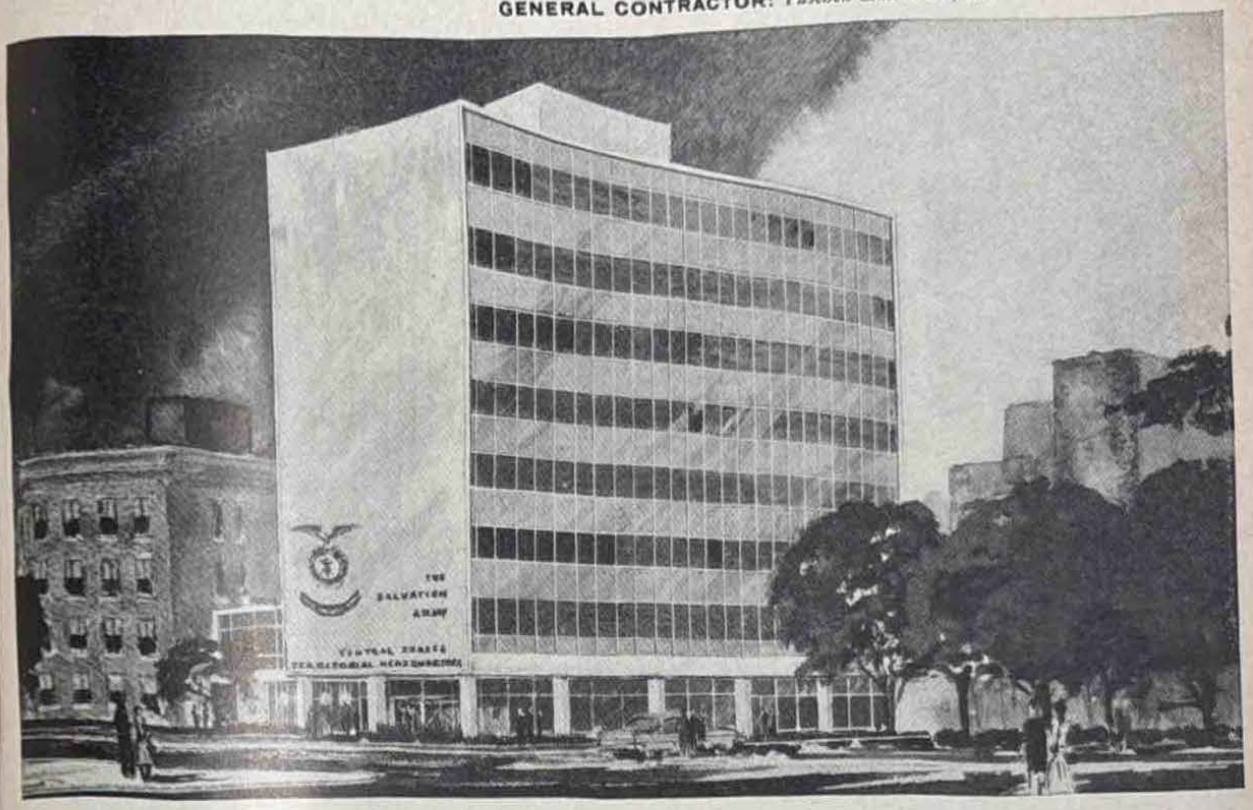
The center will occupy two blocks, with buildings occupying 73,295 sq. ft. Planned by architects George H. Shanley and Frank B. Shanley, it will provide facilities for 20 stores and shops. A major tenant will be Buttrey Foods, whose president, R. S. Williams, promises the most modern and largest supermarket in the state. With 21,000 sq. ft. of space, it will have 300 ft. of refrigeration cases and 10 automatic check stands.

The suburban project will provide parking for 600 cars.

GRAND OPENING of $5 million Villa Plaza Shopping Center is set for next spring.



TERRITORIAL HEADQUARTERS, THE SALVATION ARMY
ARCHITECT: *Skidberg-Olson Co., Chicago*
GENERAL CONTRACTOR: *Paschen Contractors, Inc.*



KAWNEER METAL WALL / *responsibility from the anchors on out!*

The new Salvation Army Territorial Headquarters in Chicago is another example of Kawneer's ability to engineer, produce and install a complete skin from the anchors on out. Kawneer works closely with the architect by helping him establish his design budget well in advance of the bids. Kawneer assures him that the translation of his design will be true and accurate. The curtain wall of this building will consist of Ingram Richardson 2" insulated porcelain enameled steel sandwich panels, double-glazed pivoted Kawneer aluminum windows and self-supporting aluminum mullions. Special weather-tightness features, adequate provision for expansion and contraction, and tested prefabrication methods assure the architect complete client satisfaction. For further information on how Kawneer can assist you in metal wall engineering write: Metal Wall Department, Kawneer, Niles, Michigan.

Other Kawneer metal wall jobs:

Tishman Buildings, Los Angeles
Equitable Life Building, San Francisco
Insurance Exchange Building, Oakland
Imperial Oil Co., Sarnia, Ontario
Newark Center Building, Newark
Kaiser Aluminum, Ravenswood, W. Va.
Fireman's Fund Insurance Co., San Francisco
Superior Oil Office Building, Los Angeles
Mutual Benefit Life Insurance Co., Newark

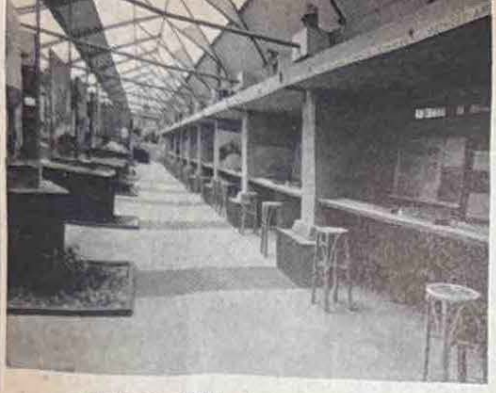
50TH ANNIVERSARY
Kawneer
General Offices
NILES, MICHIGAN
ARCHITECTURAL PRODUCTS DIVISION
1906 – 1956



Write for folders describing Kawneer metal wall jobs and windows.

All photos, except Hearst Gym, by Julius Shulman

ROOTS OF



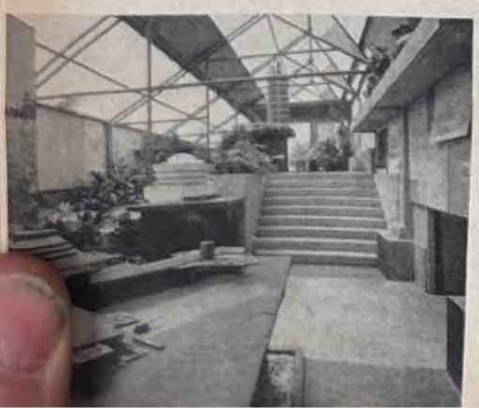
INTERIOR VIEW of Municipal Art Gallery in Barnsdall Park, Los Angeles, where "Roots of California Contemporary Architecture" had its premiere. Photo looks south and shows (at right) how Frank Lloyd Wright designed gallery to utilize foundations for pergola which led from Hollyhock House (end of steps in distance) to garage which now provides part of walls for adjoining assembly room, out of view at extreme right. Display spaces are formed by filling in areas between pergola supports and providing permanent shelf on which small paintings, sculpture, etc., may be exhibited.



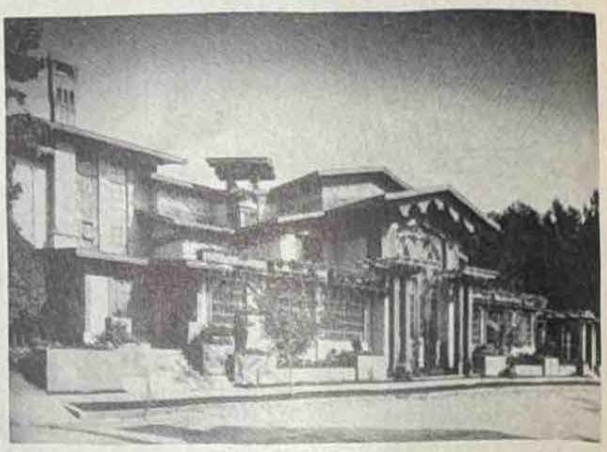
GALLERY DURING CONSTRUCTION in spring of 1954, with pitched roof of welded steel pipe being erected. Photo looks northeast from roof of Hollyhock House. In area among trees is public playground for children.



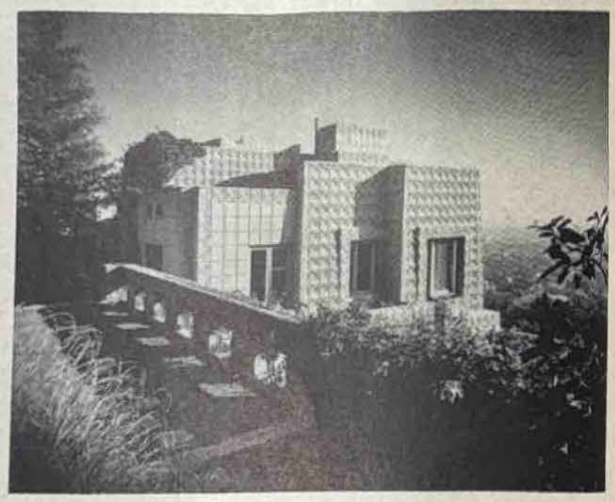
PARKING PATIO opens on northern part of long leg of gallery (at right) and square-shaped assembly hall (at left). Shown below is part of Wright's retrospective show which opened gallery in mid-1954.



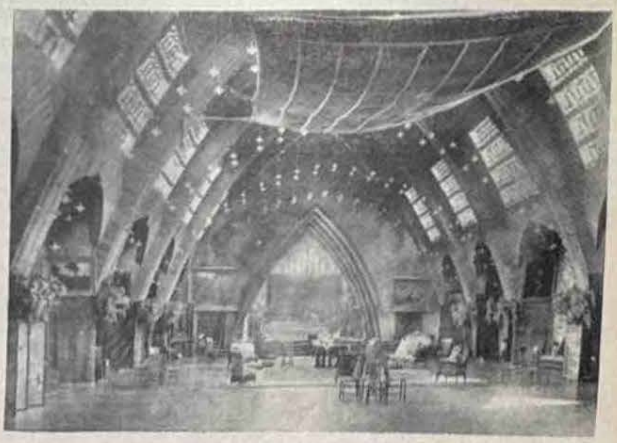
Rothschild photos



Handsomely economical use of **prefabricated panels** is demonstrated by Bernard Maybeck in **1910 Christian Science** Church at Berkeley.



A landmark in more ways than one, this **Frank Lloyd Wright** textile block house was built in 1922, **foreshadowed** use of severe planes in contemporary architecture.



Still comparatively new, fantastic in 1900, this use of laminated wood arches as seen in Hearst Gymnasium by Bernard Maybeck. Building was destroyed by fire in 1922.

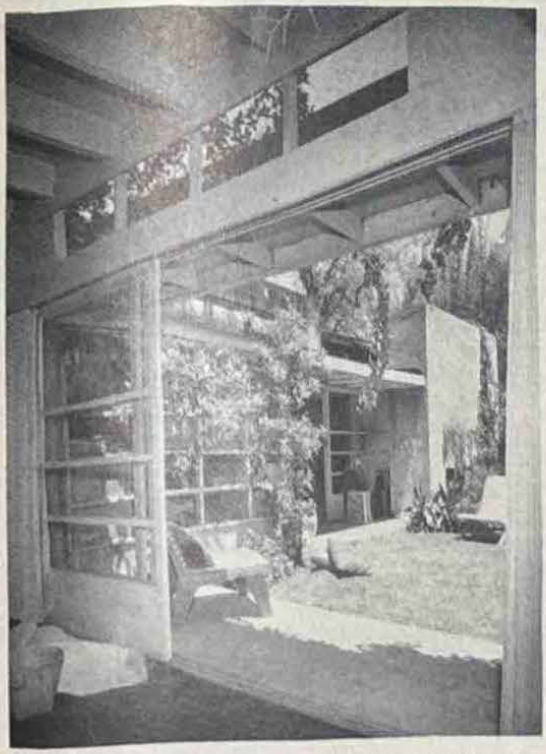
ONTEMPORARY CALIFORNIA ARCHITECTURE

The 1900 to 1930 work of

IRVING GILL
GREENE & GREENE
BERNARD MAYBECK
RICHARD NEUTRA
R. M. SCHINDLER
FRANK LLOYD WRIGHT

A SURVEY OF ARCHITECTURE done in California between 1900 and 1930 by men ahead of their time has become a traveling display after its initial showing at the Municipal Art Gallery in Barnsdall Park, Los Angeles. "Roots of California Contemporary Architecture" focuses attention on the contributions of Irving Gill, Greene & Greene, Bernard Maybeck, Richard Neutra, R. M. Schindler and Frank Lloyd Wright, all important technical and artistic innovators in that area. Through scores of photo-murals, models, drawings and explanatory texts, their work emerges as roots to a development which has been jet-propelled by the incredible population and industrial growth of southern California.

Maybeck's daring 1900 gymnasium with its use of laminated wood arches; Neutra's use of pneumatically applied concrete and Wright's use of concrete blocks; the airy space projections by Greene and Greene and the severe lack of ornamentation in Gill's houses; Schindler's cast concrete tilt-up wall construction—all of these find recognition in this survey arranged by the Architectural Panel, a group of Los Angeles professional and lay people interested in increasing public awareness of good contemporary architecture.



Indoor-outdoor integration as done in 1922 by R. M. Schindler who used cast concrete tilt-up walls.



Father of bungalow, 1907 Greene & Greene house shows many unusual advances—wide overhangs, exposed beams, oriental influences.



Built in 1917, this Irving Gill house was clearly ahead of its time in use of 90-deg. angles, integration of severe planes.

Setting standard for modern houses down to present day, this 1927 residence by Richard Neutra pioneered use of light framing members, employed asymetrical vertical and horizontal planes.

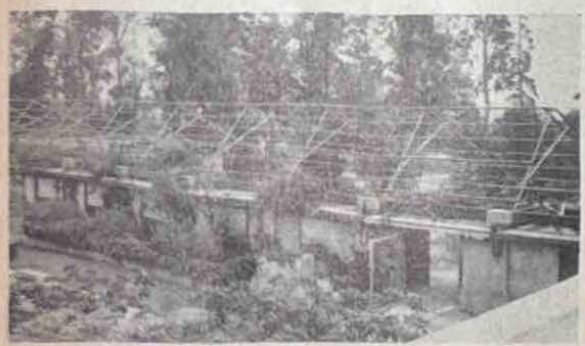


All photos, except Hearst Gym, by Julius Shulman

ROOTS OF



INTERIOR VIEW of Municipal Art Gallery in Barnsdall Park, Los Angeles, where "Roots of California Contemporary Architecture" had its premiere. Photo looks south and shows (at right) how Frank Lloyd Wright designed gallery to utilize foundations for pergola which led from Hollyhock House (end of steps in distance) to garage which now provides part of walls for adjoining assembly room, out of view at extreme right. Display spaces are formed by filling in areas between pergola supports and providing permanent shelf on which small paintings, sculpture, etc., may be exhibited.



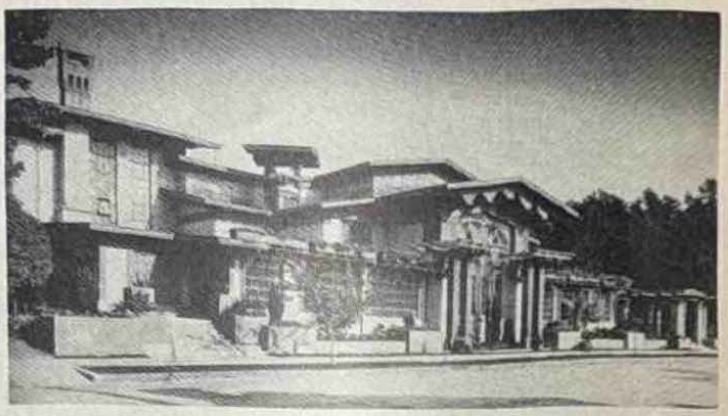
GALLERY DURING CONSTRUCTION in spring of 1954, with pitched roof of welded steel pipe being erected. Photo looks northeast from roof of Hollyhock House. In area among trees is public playground for children.



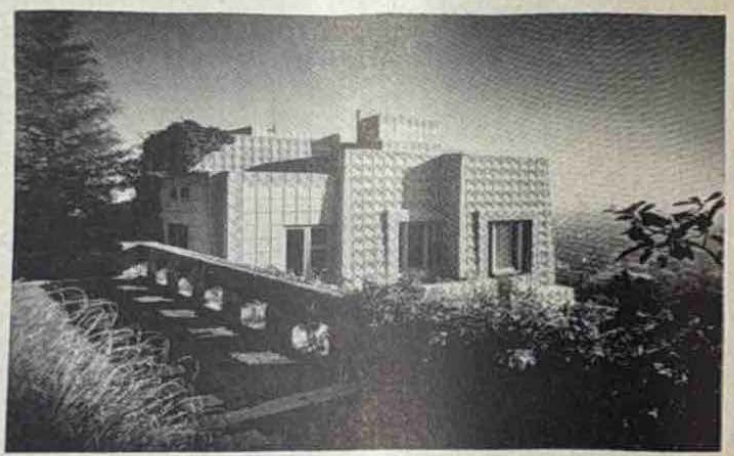
PARKING PATIO opens on northern part of long leg of gallery (at right) and square-shaped assembly hall (at left). Shown below is part of Wright's retrospective show which opened gallery in mid-1954.



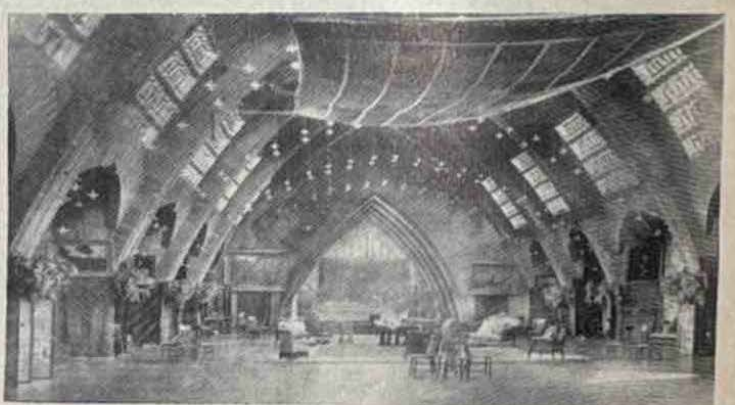
Rothschild photos



Handsomely economical use of prefabricated panels is demonstrated by Bernard Maybeck in 1910 Christian Science Church at Berkeley.



A landmark in more ways than one, this Frank Lloyd Wright textile block house was built in 1922, foreshadowed use of severe planes in contemporary architecture.



Still comparatively new, fantastic in 1900, this use of laminated wood arches as seen in Hearst Gymnasium by Bernard Maybeck. Building was destroyed by fire in 1922.

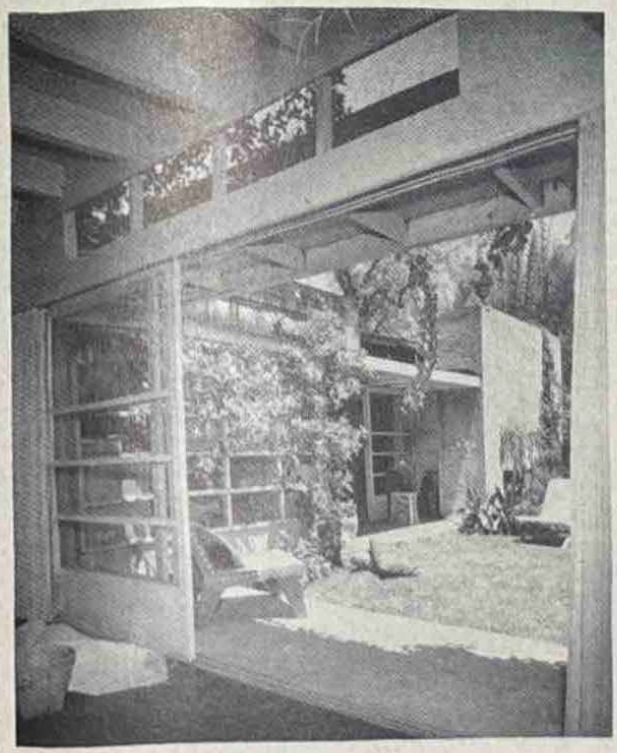
ONTEMPORARY CALIFORNIA ARCHITECTURE

The 1900 to 1930 work of

IRVING GILL
GREENE & GREENE
BERNARD MAYBECK
RICHARD NEUTRA
R. M. SCHINDLER
FRANK LLOYD WRIGHT

A SURVEY OF ARCHITECTURE done in California between 1900 and 1930 by men ahead of their time has become a traveling display after its initial showing at the Municipal Art Gallery in Barnsdall Park, Los Angeles. "Roots of California Contemporary Architecture" focuses attention on the contributions of Irving Gill, Greene & Greene, Bernard Maybeck, Richard Neutra, R. M. Schindler and Frank Lloyd Wright, all important technical and artistic innovators in that area. Through scores of photo-murals, models, drawings and explanatory texts, their work emerges as roots to a development which has been jet-propelled by the incredible population and industrial growth of southern California.

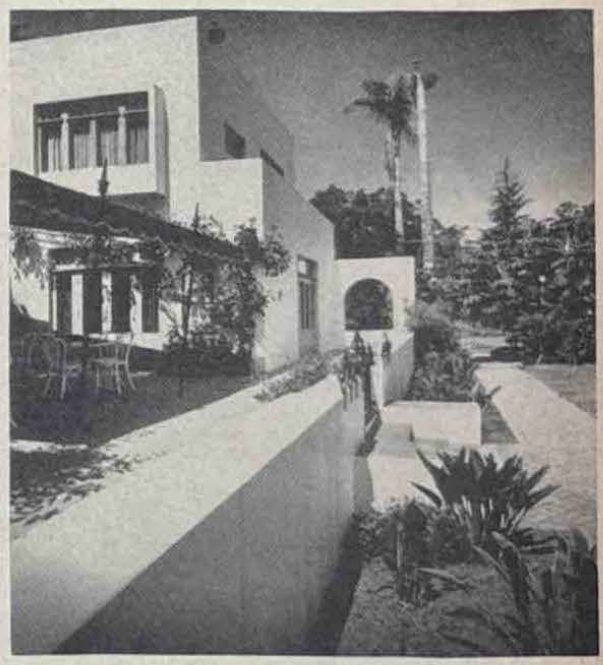
Maybeck's daring 1900 gymnasium with its use of laminated wood arches; Neutra's use of pneumatically applied concrete and Wright's use of concrete blocks; the airy space projections by Greene and Greene and the severe lack of ornamentation in Gill's houses; Schindler's cast concrete tilt-up wall construction—all of these find recognition in this survey arranged by the Architectural Panel, a group of Los Angeles professional and lay people interested in increasing public awareness of good contemporary architecture.



Indoor-outdoor integration as done in 1922 by R. M. Schindler who used cast concrete tilt-up walls.



Father of bungalow, 1907 Greene & Greene house shows many unusual advances—wide overhangs, exposed beams, oriental influences.



Built in 1917, this Irving Gill house was clearly ahead of its time in use of 90-deg. angles, integration of severe planes.

Setting standard for modern houses down to present day, this 1927 residence by Richard Neutra pioneered use of light framing members, employed asymetrical vertical and horizontal planes.



The architect as artist

by Dr. STEPHEN C. PEPPER

'As a profession, you have a social responsibility equal to that of doctors or teachers. You are responsible for the beauty of our environment, as doctors are for its health and educators for its intellectual integrity.'

FIRST OF ALL, I should like to consider for a few minutes what a work of architecture is.

Every structure, of course, is not a work of architecture. Many of them are just practical instruments with no aesthetic appeal. They are not even ugly. They are just aesthetically negligible. They may become ugly, however, if they are in a context of environment where they are called upon to be beautiful. But within a town or a city which has an overall beauty, they may be inoffensibly incorporated as a sort of texture surrounding building of positive beauty. A work of architecture is, properly speaking, a work of art.

What is a building as a work of art? It is not simply the physical materials as these would be described by a physicist or chemist. Perhaps I could best bring this out by reference to another kind of work of art easier to describe in aesthetic terms than a building—namely, a picture.

A picture as a work of art is not primarily its canvas and pigments. The properties of a canvas and pigments are basically those which a physicist or chemist would ascribe to these materials. These properties as customarily named by the physical scientists do not have color or line or texture as these are seen by the eye for aesthetic appreciation. The physical canvas and pigments stored in a closet emit no color or perceptual shape or texture, no contrasts of surface, no spatial composition, and clearly no representation of objects of nature if the picture happens to be a landscape or a portrait.

For these characters of a picture to emerge, the picture must be seen by a human eye. The physico-chemical picture must be brought out into the light where it can reflect light from its pigmented surface, so that the diverse rays of light can stimulate the eye and stir up a response in a human mind. In short, the picture that is appreciated for its colors and lines and masses in composition, and for its representative meanings as a landscape or a portrait must be a mental perception.

The object of appreciation when we look at a picture is clearly not the physical canvas and chemical pigments but the mentally perceived composition of color lines, meaningful representations and the like. It is a perception.

But this is not all. One momentary mental perception of a picture is not enough for grasping the complete picture as a thing of beauty. To get the full appreciation of a picture one must pass his eye over the picture and change the focus and center of attention from one detail to another: note the balance across the surface of one feature by another, the contrast of one form by another, the tensions of shape with shape, the texture and quality of colored surface, the graduations of colors and shapes, the repetitions and variations of motives, the skill of the brushwork; and if there is representation of men or of nature, the skill of draftsmanship, the placing of the figures, and perhaps their dramatic effect, the catching of the mood of the scene, or the character of the sitter. All these details that belong to the fully appreciated picture take time to appreciate and many successive perceptions to grasp in the mind.

What I am bringing to your attention here is that the fully appreciated work of art is an assemblage, a synthesis, a funding of many single perceptions. One momentary perception cannot grasp it all. Certainly one first glance at a complex work of art cannot take it all in at a single glance.

Now, what has come out of this brief analysis it that a work of art is not a single object but a nest of three closely interrelated objects. There is, first, the physical object that controls the stimuli for perception. There is, second, the perceptions stimulated at any one time by the physical object. And there is, third, the synthesis, the gathering together, of the successive momentary perceptions into the total aesthetic object, which is the fully appreciated picture. It is convenient to have separate terms for these three objects that are involved in a work of art. The first may be called the **control object**, since this is the object that controls the stimuli for the perceptions. The second may be called the **perceptual object**; and the third, the **object of criticism**, for this is the ultimate aesthetic object which we critically evaluate for aesthetic worth or beauty.

In a work of architecture, the control object is the structure of physical materials ordinarily built up on a site by a contractor under the supervision of the architect who had made the plans. The perceptual object is any single momentary perception by a person who visits the finished physical structure and is stimulated by some visual aspect of it.

Since a physical building is a three-dimensional object with an inside and an outside, there is no difficulty here in realizing that no single glance at the building is adequate for a full appreciation and critical comprehension of it as a total object of aesthetic worth. This total aesthetic object is clearly the result of many perceptual responses to the building from many aspects within and without together with the mental consideration of how these many visual aspects function together with one another in relation to the purpose for which the building was built.

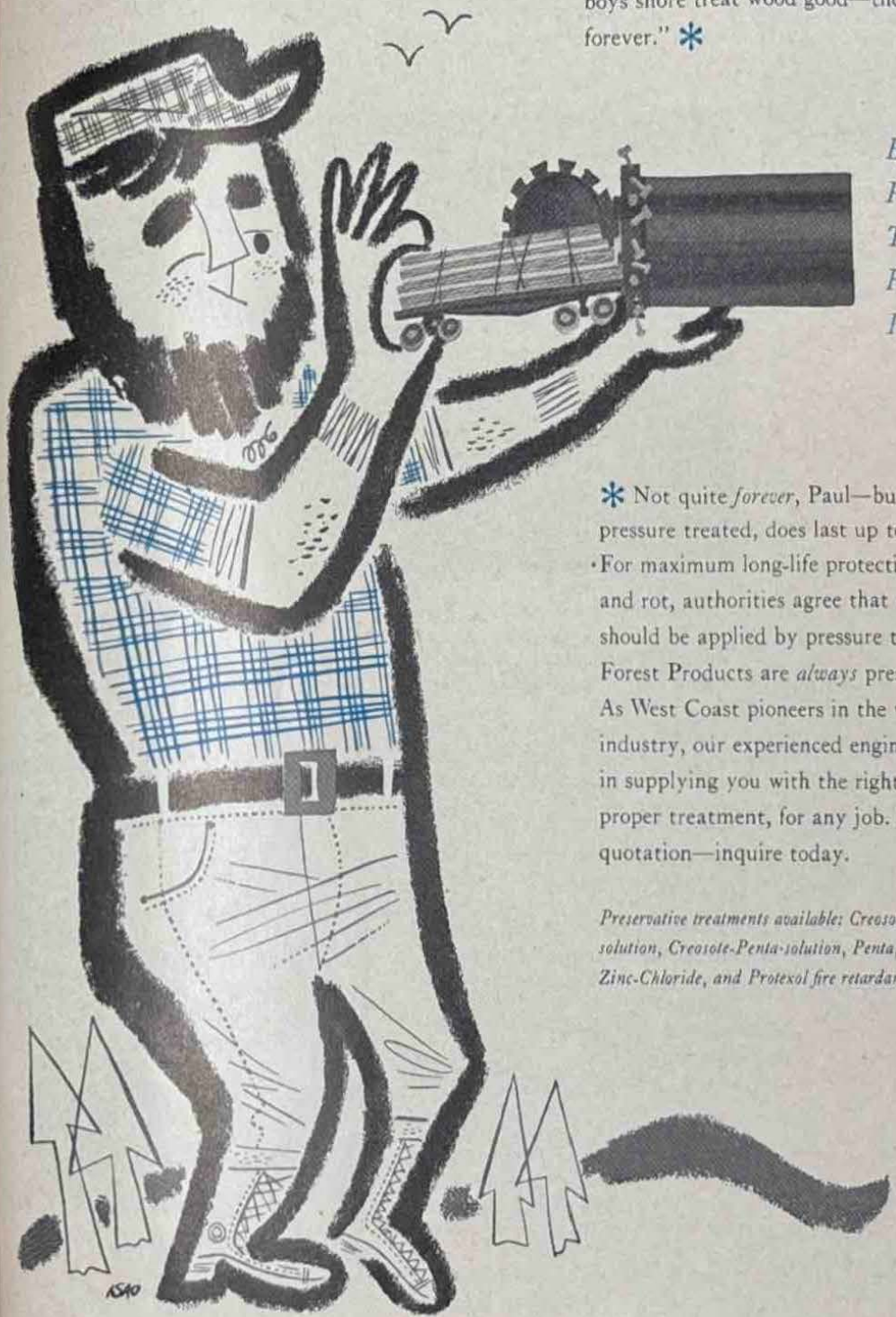
What is headed for as total aesthetic object in a building as a work of art is this final gathering together of all the perceptions a discriminating spectator can have of this building in its setting. This is a very complex thing. No one can be more aware of the complexity of this thing than you here who have had many occasions to plan and supervise the construction of such buildings.

The physical building is simply the control object for the final aesthetic object which is something perceived and comprehended by a human mind. If there were no human minds to respond to the physical building, there would be no final aesthetic object—no object of criticism — but simply some sticks and stones whirled round the sun like any other loose sticks and stones scattered over the surface of our globe. The ultimate aesthetic object — the thing of beauty — is a human thing, a thing of the human mind and for the human mind, and it is a thing of great value to man.

Continued on page 20

An address presented by Dr. Pepper, chairman of the University of California's department of philosophy, before the California Council of Architects.

"Babe, this here's a ree-tort," explained Paul Bunyan to his faithful Blue Ox. "Fer pressure treatin' wood. Them Baxter folks never dunk it, er spray it, er paint it. They got a real fancy process: They stick the wood inside this ree-tort, lock her up fer 20 hours, and when she comes out she's BAXCO pressure treated—chock full o' presarvatives." The great logger scratched his head with a pine tree. "I dunno how they do it, Babe, but them Baxter boys shore treat wood good—they make it last forever." *



BAXCO PRESSURE TREATED FOREST PRODUCTS

* Not quite *forever*, Paul—but wood, properly pressure treated, does last up to ten times longer. For maximum long-life protection against insects and rot, authorities agree that wood preservatives should be applied by pressure treating—and BAXCO Forest Products are *always* pressure treated. As West Coast pioneers in the wood preserving industry, our experienced engineering staff can assist in supplying you with the right preservative, the proper treatment, for any job. For a prompt quotation—inquire today.

Preservative treatments available: Creosote, Creosote-Petroleum solution, Creosote-Penta-solution, Penta, Chemonite, Chromated-Zinc-Chloride, and Protexol fire retardants.

© J. H. Baxter & Co. 1956

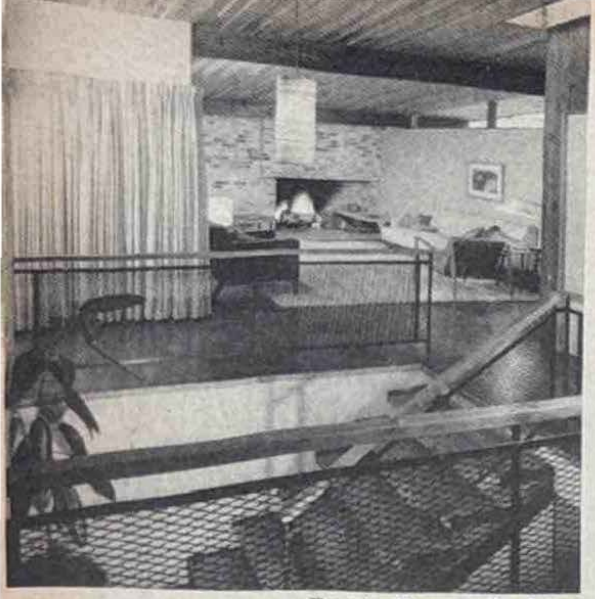
J. H. BAXTER & CO. *120 Montgomery Street, San Francisco 4, California*

House built around the stairs

John C. Rushmore Residence
Medina, Washington

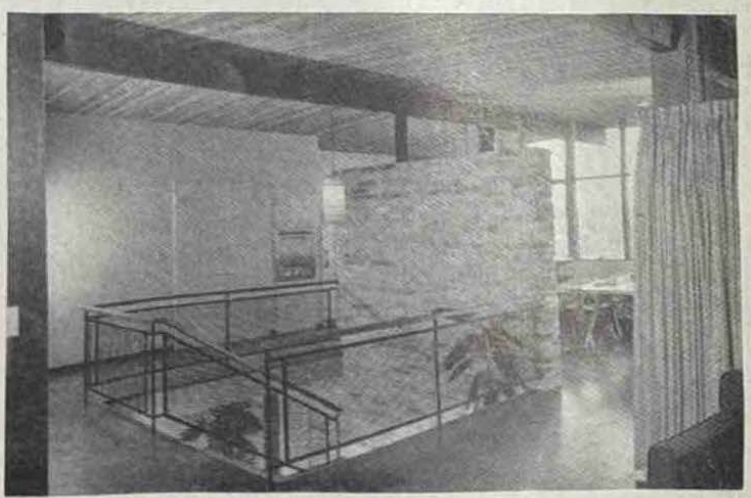
JOHN C. RUSHMORE, Architect

J. W. CARDEN, General Contractor



Douglas Simmonds photos

LIVING ROOM gets its color scheme from warm tones of used brick in fireplace and stairwell partition. Circulation pattern centers around central stairwell, from which all rooms are accessible. Exposed masonry wall separates stairway from dining area (right).



A HILLSIDE LOT, with sweeping view of Lake Washington and Mount Rainier, offered an interesting challenge to the architect in designing his own home.

He located the carport and main entrance on the lower level and made the central stairwell to the top level a focal point of design for the entire house. The stairwell serves as the heart of the traffic system for both floors, giving easy access to every room from the single area. All principal rooms are located toward the view.

The entrance and three minor rooms occupy the lower level, with one-third of the top level overhanging an outside carport and entrance court.

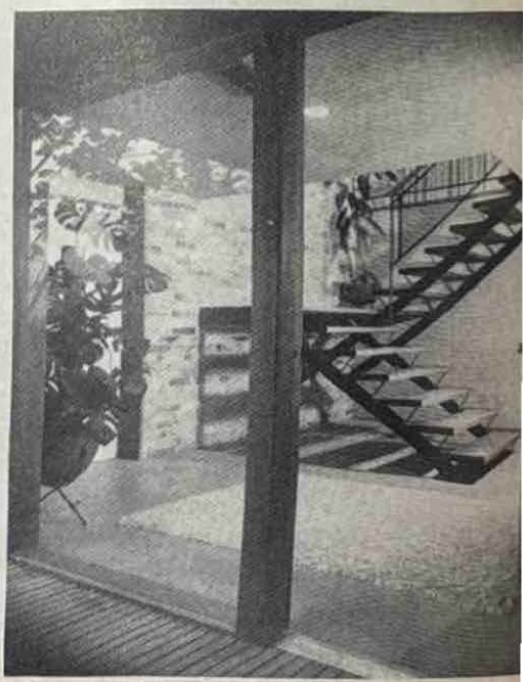
Rising from the floor of the lower level almost to the ceiling of the top level is a two-story exposed wall of used firebrick, matching the fireplace wall in the living room. The central wall provides a support for the stairway on the lower level, serves as a partition to separate the dining room from the hall and stairway on the top level, and makes an interesting visual feature in the center of the house.

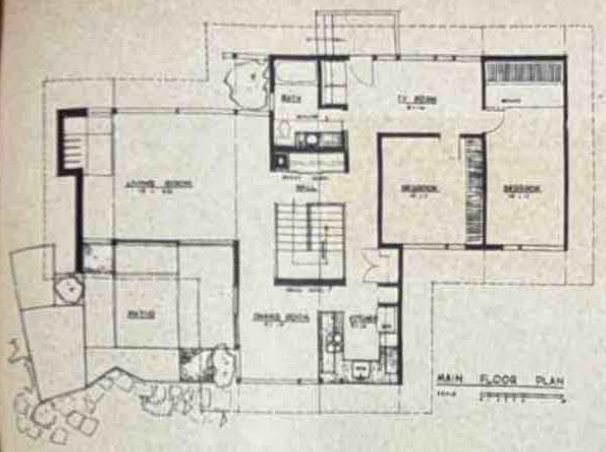
Glass areas are treated as walls and, where possible, extend from floor to ceiling.

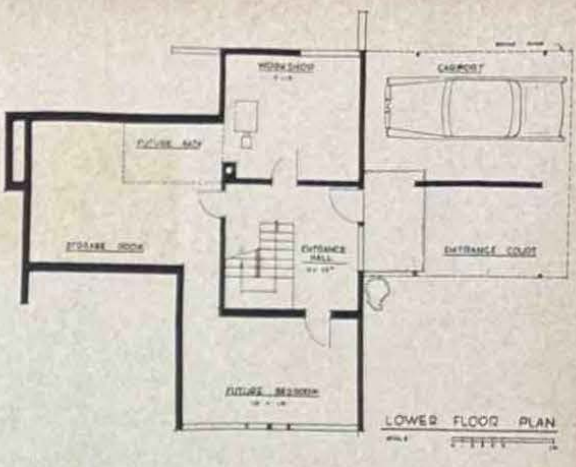
Materials and colors are natural for the most part, blending with the earthy colors of the used firebrick in the walls of fireplace and central partition. The colors are brown, beige, soft oranges, yellows and off-white. "The attempt was to coordinate a soft blending of color from the interior to the exterior with as little interruption as possible," the designer-client says.

Common in commercial construction but more unusual in a home is the laminated timber roof. It consists of No. 1 and No. 2 common cedar 2x4s, laid on edge. The architect likes it because it "offers thermal insulation, strength, fireproof qualities and handsome appearance."

FIR TREADS of stairs are supported by black-steel channels and single masonry wall. Ceiling and three walls of lower level entrance are covered by natural-colored burlap.







OUTLINE SPECIFICATIONS

Type of Construction: Poured concrete and frame.

Exterior Walls: Floor-to-ceiling glass and rough-sawn cedar.

Roof: Laminated 2x4 cedar on fir beams, 10 ft. and 12 ft. on centers.

Floors: Frame, with finish of masonite cut into 12x12-in. tiles.

Windows: Stopped in wood, aluminum vents.

Doors: Solid core fir exterior doors, hollow core masonite interior doors.

Interior Walls: Rough-sawn cedar and plasterboard on dry-wall partitions.

Fireplace: Used firebrick, with Wilkison stone slab bench.

Heating: Forced warm air.

Total Cost: $20,000 including land, loan costs, construction costs and owner's labor figured at reasonable market cost of $3,000.

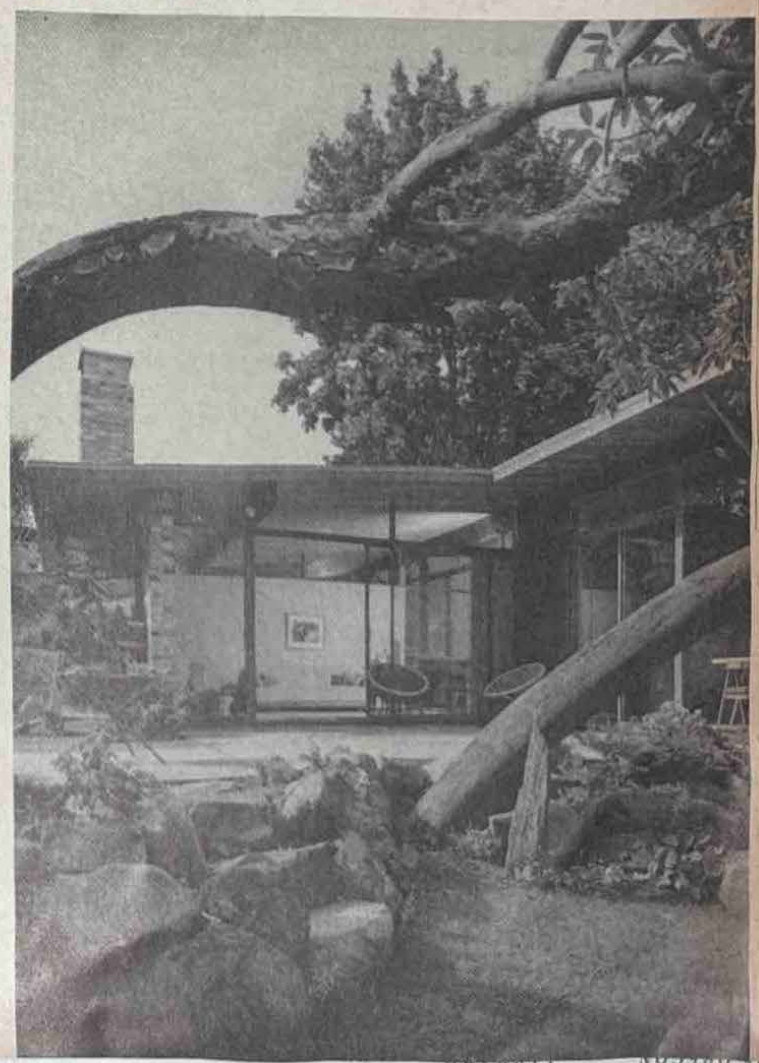
Total Area: 2,050 sq. ft. (1,260 sq. ft., main level; 800 sq. ft., lower level).

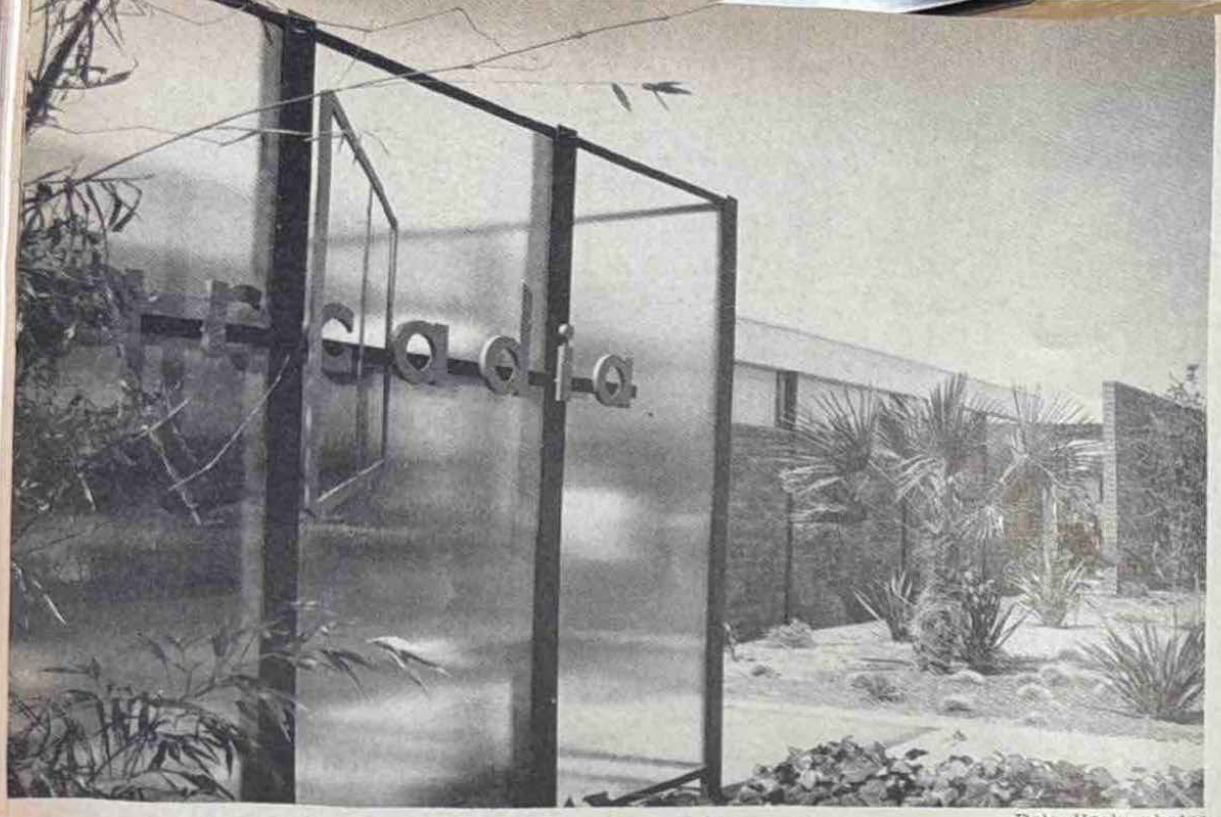
Cost per Square Foot: $12 for main floor; $6 for lower floor.



OPEN PLAN of kitchen and dining area includes central hanging storage cabinets with sliding doors that open into both kitchen and dining room.

PATIO IS ENCLOSED by living room (left) and dining room, with access through sliding glass doors from both rooms. Broad roof overhangs and floor-to-ceiling glass walls give feeling of spaciousness.





Dale Healy photos

OBSCURE GLASS SCREEN allows privacy to sales offices which open to garden behind. Fire-red dimensional steel sign was designed by architects from manufacturer's trademark.

A masterpiece of indoor-outdoor integration

Arcadia Metal Products Offices and Factory
Fullerton, California

THE PHRASE "indoor-outdoor integration" has been so widely used and abused that it is almost in the category of an architectural cliche. But in this smart, low office structure which fronts a manufacturing plant in a flat, industrial area, the architects have given the expression new meaning.

A significant part of their contribution has been to design the building, on a 10-acre site, "into" the surrounding orange groves. To accomplish this, they have used the client's own products—sliding glass doors—to good advantage so that the offices in reality double as a showroom. Flexibility of open planning also has been achieved. This is best illustrated in the continuous flow of space through the president's office, the vice president's office and its interior garden which forms the terminus of the lobby. The atrium provides overhead lighting through the day and gives a spacious character to the lobby area which never fails to please visitors.

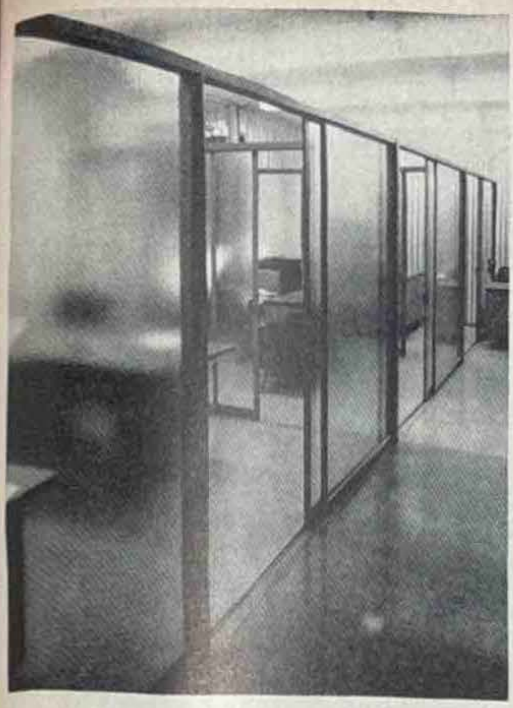
The small garden outside the president's office is one of several private terraces. A wood screen affords privacy and eliminates distractions from cars that travel on a side road. The height of the screen, however, allows enjoyment of the orange grove. The sales offices and the engineering department also open out to garden areas. Privacy is attained with free-standing masonry walls, wood screens and obscure glass screens.

Honest use of materials—predominantly brick and steel besides glass—are used in the same way both inside and out to provide a unified feeling. For example, the masonry wall of the brick entry continues into the lobby, as does the walkway itself; and even the roughened concrete paved area outside is repeated in the texture of the carpet in one office.

The offices have been planned on a 10-ft. module, allowing for use of sliding doors as wide as 20 ft., floor to ceiling in height. The slab type roof, supported on steel posts, provides a 5-ft. overhang where the sun condition requires protective planning.

The simple contemporary furnishings are in complete accord with the clean-cut design. Blue, brown and pumpkin are the major colors.

The architects planned the overall area for the factory although they did not design its interior. It has tilt-up concrete wall panels with poured-in-place concrete columns, interior steel columns and a concrete floor of dock height. A corrugated iron wall at the west end of the plant can be removed to allow for expansion of floor space as needed.



A. QUINCY JONES and FREDERICK E. EMMONS, Architects

MYRTON PURKISS, Landscape Architect

RICHARD R. BRADSHAW, Structural Engineer

DONALD R. WARREN CO., Mechanical Engineer
(Richard Greyson)

DONALD R. WARREN CO., Electrical Engineer
(Arthur McReynolds)

CHOTINER & CUMBINER, INC., General Contractors

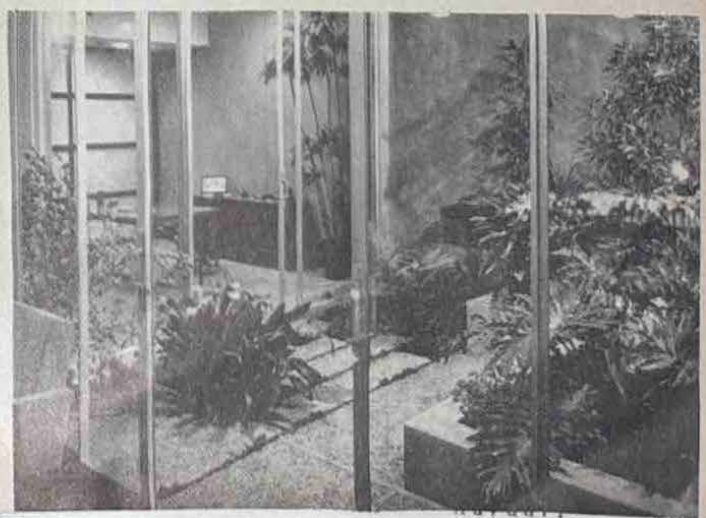
SALES OFFICES open to terraces and are divided by sliding screens, specially designed with two plate glass surfaces for sound protection. Below, looking into atrium from built-in reception desk. Interiors were done by Harry Saunders of architectural firm.

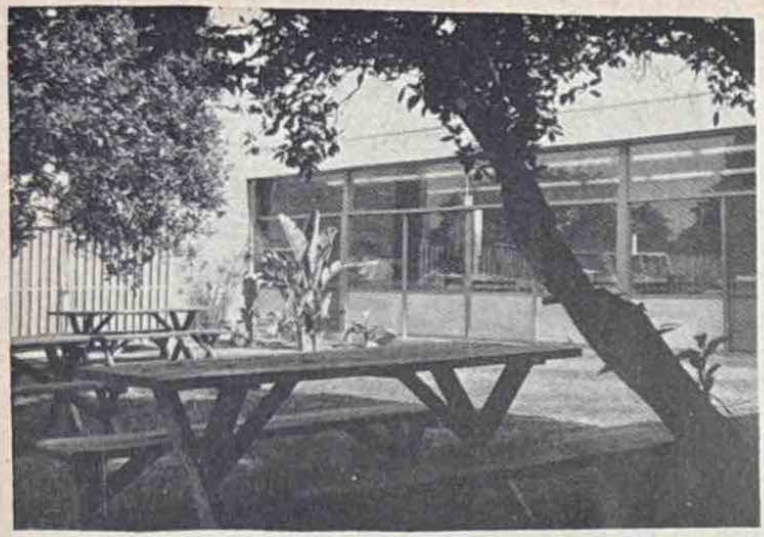


EXTERIOR BRICK WALL set in steel columns continues into lobby from entry walk and terminates in front of reception desk.

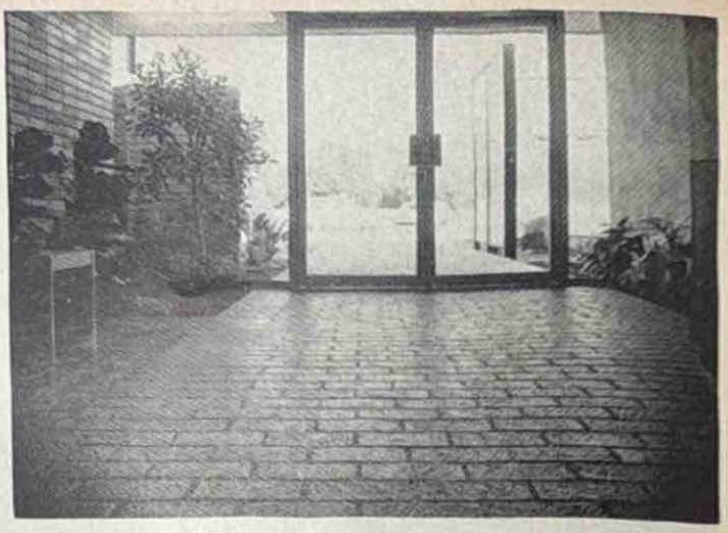


VIEW FROM LOBBY through interior garden which is open to sky; trees will eventually be visible from outside of building. Vice president's office is in background.



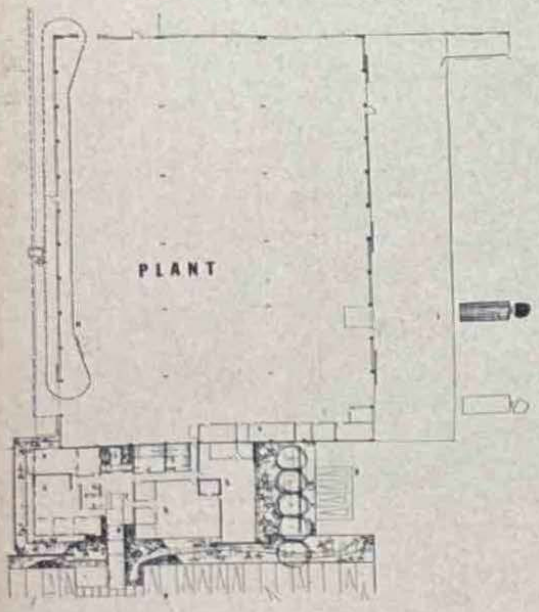


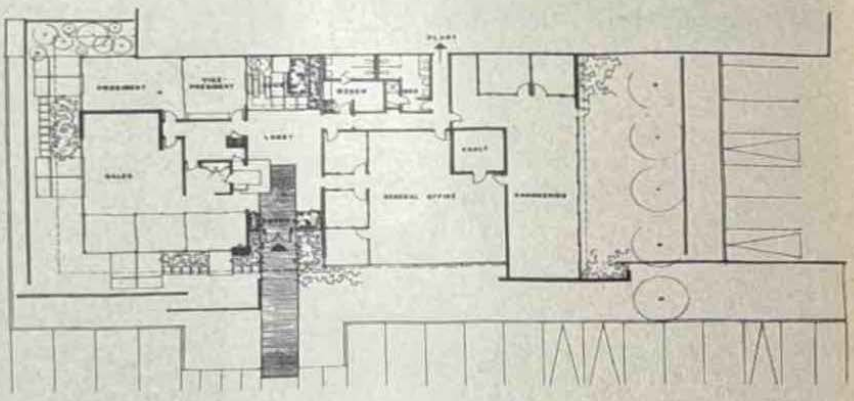
ENGINEERING OFFICE WALLS which open to outdoor garden are manufacturer's doors with masonite kick panels.



BRICK FLOOR OF LOBBY is continuation of entry walk; remainder of lobby is in cork-appearing tile.

Arcadia Offices and Factory





PERSPECTIVE INDICATES how architectural devices—free-standing masonry walls, wood screens and obscure glass screens—afford privacy for glass-walled offices.

OUTLINE SPECIFICATIONS
(offices only)

Type of Construction: Poured concrete.

Exterior Walls: Arcadia sliding glass, Davidson steel-tied brick and painted plaster; also free-standing brick walls, obscure glass screens and wood screens.

Roof: Concrete slab supported on steel posts.

Floors: Concrete slab with wood float finish of concrete at entrance walk, Maticork in lobby and halls, asphalt tile in offices, marbelized Maticork elsewhere; rough slab under paving brick used in entry walk and into lobby; pebble washed finish concrete for patio and garden court.

Doors: Arcadia sliding glass; some specially designed with two plate glass surfaces for sound protection.

Interior Partitions: Arcadia sliding glass doors; frame, lath and plaster.

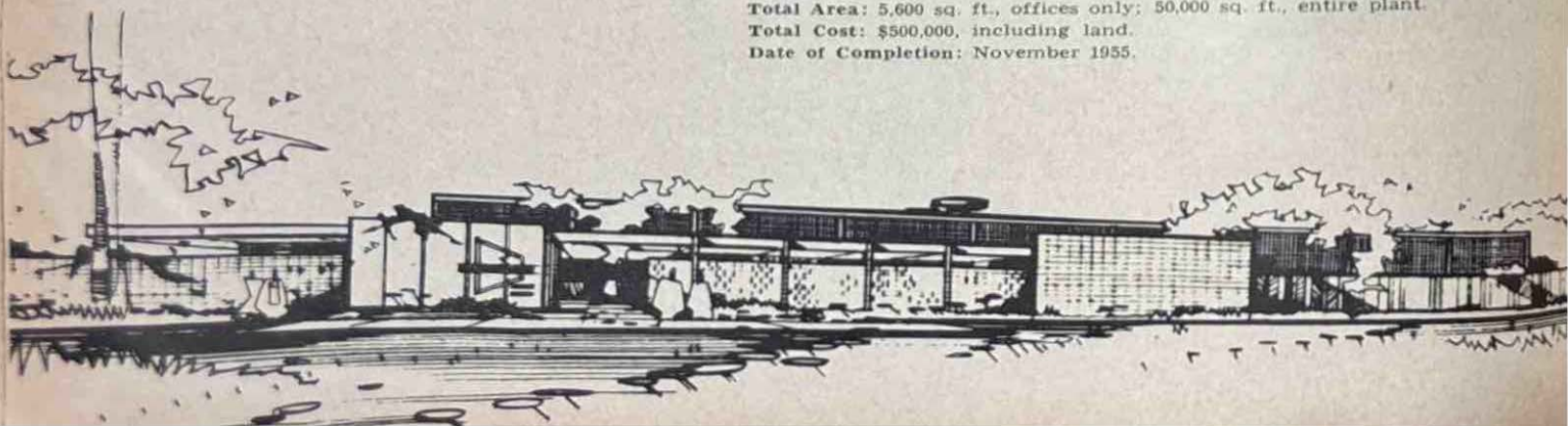
Interior Walls and Finish: Exposed Davidson steel-tied brick, wood paneling in lobby.

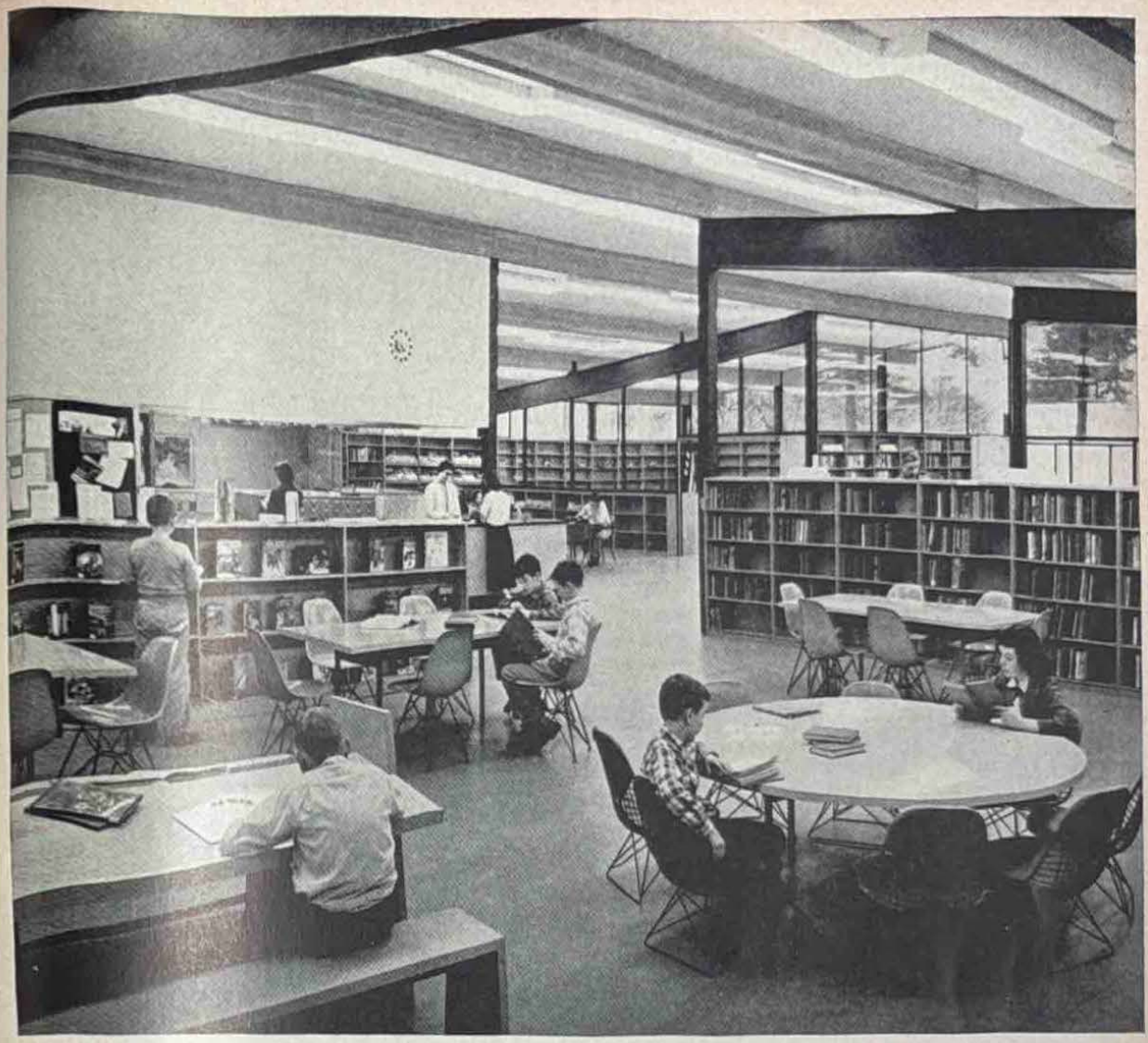
Ceilings: Flintkote ⅝-in., 12x12 random.

Total Area: 5,600 sq. ft., offices only; 50,000 sq. ft., entire plant.

Total Cost: $500,000, including land.

Date of Completion: November 1955.





Award winning library features exposed structural steel

This new Northeast Branch of Seattle's public library is a good example of exposed structural steel design. One of 15 branch libraries in Seattle, the building has won two architectural awards for beauty and utility. The steel beams, supplied by Bethlehem Pacific, span one-half of the library's width from outside to center, allowing large areas of interior space, uncluttered by an excess of supporting columns. Large areas of glass provide maximum daylight.

Architect: Paul Thiry; General Contractor: The Lewis Construction Co., both of Seattle.



BETHLEHEM PACIFIC COAST STEEL CORPORATION

Sales Offices: Los Angeles, Phoenix, San Francisco, Portland, Seattle, Spokane

BETHLEHEM PACIFIC

BETHLEHEM STEEL

The architect as artist (cont'd. from p. 12)

My reason for dwelling on this ultimate aesthetic object — this object of architectural criticism — is that it can be so easily lost sight of in the complexity of an architect's problem in making a building for a client who often does not fully know what he wants and yet must be satisfied. In relation to the central subject of these meetings here today (that of what we all should keep in mind toward surrounding ourselves in California with a congenial and, we hope, a beautiful architectural environment in the face of a great population influx that is predicted for the decades just ahead and the tremendous building boom this influx will stimulate), it is not the bare physical object with which we are concerned, nor is it the simple perception of a passing stranger, but it is this total thing of beauty which we are to be living with year in year out.

To maintain and enhance the beauty of our exceptional natural environment, we shall have to keep constantly in mind that the buildings and the cities to be built are not mere constructions of sticks and stones nor, to allude to another well known phrase, "machines for living," but are organizations of human perceptions and meanings. These organizations must be rich and satisfying. A beautiful building is like a person and has a character. A person's character is preserved in his physical body. But the physical body is not the person. A man's personality is an organization of human dispositions which we come to perceive and appreciate in terms of acts and intentions and emotional warmth — all mentally apprehended just as with the building taken in as an aesthetic object of appreciation. What we have to keep in mind in building up our coming California environment is the ultimate aim that our buildings and our cities have character.

With this in mind, let us consider a few things that we shall have to guard against and then some things we may positively seek to attain.

Among the many things to be guarded against, a number of them can be gathered under two heads: the menance of the hard-headed man and the menace of the imitative man. These two menaces are serious, for most men of power and wealth in our society turn out to be one or the other of these two menaces, or at least to have menacing tendencies in these directions.

The hard-headed man is the excessively practical man whose life has been devoted to money-making or to politics or to engineering or some other absorbing but narrow calling. Almost in proportion to his success in his calling, he is a source of danger to the future comfort and beauty of our state. The very terms "comfort," "beauty," "art," "aesthetic" and the like are repulsive to his nature. Propose anything on the grounds of its beauty or aesthetic appeal and he is at once against it as a waste of money, as a thing impractical, and effeminate, and possibly suspect of being un-American.

Two contemporary instances of the action of typical hard-headed men, first, are the roller-coaster bridge across San Francisco Bay from Richmond to San Rafael. This one can see, just to look at it, was the construction of some very hard-headed men. Even if something less ungainly would have cost more in money, it should have been undertaken in view of the cost to men's eyes and feelings that structure will incure for generations to come. And San Francisco Bay is one of the great objects of natural beauty in the world. Seeing this Richmond-San Rafael Bridge, I marvel how we are so fortunate as to have inherited such pleasing structures as the Bay Bridge and the Golden Gate Bridge. Whatever accounted for that difference, can we possibly take this lesson to heart and avoid repetitions over our landscape of such things as the Richmond-San Raphael Bridge.

The other instance is what is now going on about the plaza in front of the Ferry Building in San Francisco. Here too we perceive the action of a hard-headed man being supported evidently by admirers of hard-headed men, by which a beautiful feature enhancing one of the really beautiful cities in America is threatened with mutilation by a straight and uncompromising elevated highway planned for cheapness only and without any consideration for the character and charm of the city.

These are the sort of things that hard-headed men in positions of power and authority are likely to ram through without seeking the advice of aesthetically informed architects or of other competent men, indeed rejecting such advice when proferred.

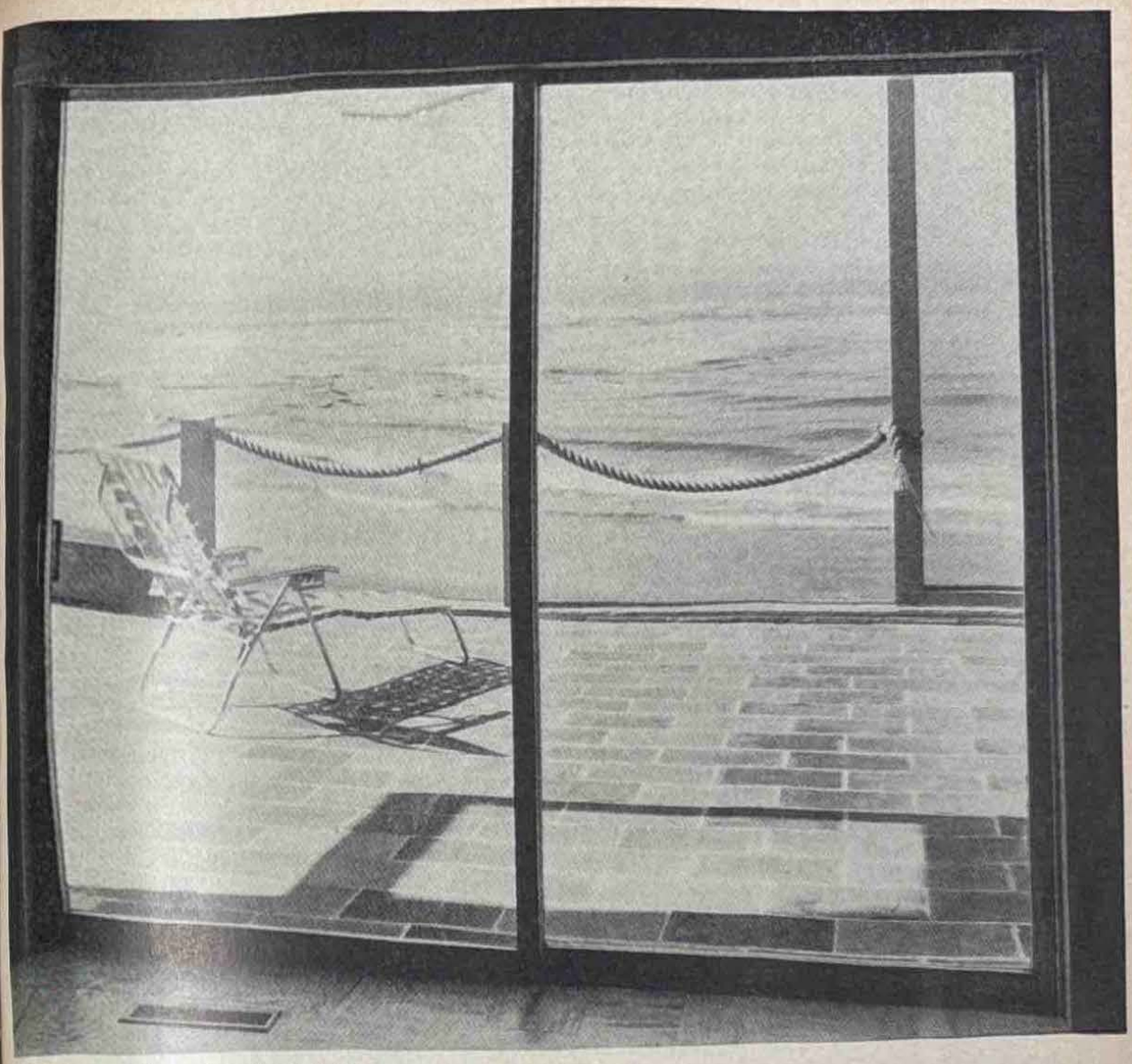
One of the great problems in dealing with this situation is the excessive admiration so many Americans have for this type of narrow, uncompromising hard-headedness. We are a people and this is a great virtue in the wide sphere where practicality is appropriate. But when practicality is carried to the excess of mutilating our cities and countryside, it is no longer humanly practical. How can we get this simple truth across to our hard-headed compatriots who are so unknowingly threatening the peace and comfort of our future?

A second menace, I said, is the imitative man. He is likely to be a man of considerable cultivation but aesthetically timid and unhappy in a highly experimental and exuberant architectural era. He wants the architecture of the present and the future to resemble the architecture of the past. In a static period, his influence would not be noticed and would on the whole be beneficial. But in a developmental period, he is a drag. This is the sort of man who has demanded conformity to his tastes in many of our largest building programs. He is the man whose taste has controlled the designs of many of our bank and office buildings, many state and federal buildings, including the building of schools, universities and post offices.

The way it works is this: the architect is chosen who is believed to be amenable. Besides, an architect is always under obligation to consider the desires of his client. The architect if given leaway could have designed a building of distinction. But he knows the limitations of his client's tastes and restrains his imagination. He comes out with something that is a compromise between his architectural ideals and the conservatism of his client. The resulting building is dull and uninspired. And such are often the buildings in prominent places. They set the character of a town into something that is itself dull and uninspiring. Remember the rivalry of the cathedral towns in the 12th and 13th centuries to excel one another in the excellence and imaginativeness of their central public structures.

In too many of our towns the aim appears to be only to put up buildings exactly imitating the buildings in the next town or county. So town after town as you drive through them has no more character than a row of tenpins all turned off of the same machine. This might not be so bad if the original tenpin design were itself imaginative — though still monotony has never been an aesthetic virtue. But I do not need to remind you of the architectural dullness of the model itself for so many of our town and city structures, especially today.

For today we are in an era of architectural awakening the like of which has not occurred for a number of centuries. We have become architecturally aware of the potentialities of a great variety of new materials and of modes of construction congen-



Residence of Mr. and Mrs. Leo F. Piazza
Binder and Curtis, Architects, San Jose, California

Arislide

Sliding Doors

Aluminum or Steel

Add new beauty and value to the homes you design and build! Specify Arislide Sliding Doors in aluminum or steel — and you're sure of quality workmanship in every detail:

Nylon bottom rollers for smooth, quiet operation.
Fully weatherstripped
6' to 20' widths, 6'10" and 8' heights.
Special types and sizes to meet your requirements.

Since 1912 ARISTON Metal Products

WRITE for catalogue!

Michel & Pfeffer Iron Works, Inc.
Metal Windows and Doors Division
212 Shaw Road
South San Francisco, California

ial to these materials. This is an age of steel and concrete when previously in our culture stone masonry construction dominated conceptions of architectural design.

The first realization of this change emerged in the period of rampant functionalism. The achievement of this extreme movement was to clear away old traditional **beaux arts** preconceptions and open minds to the vast architectural potentialities of new materials and modes of construction and design. This first shock attack upon deeply entrenched traditional conceptions has achieved its objective. What remains is to consolidate the new territory that has been won and realize its full potentialities. The present is one of the great developmental eras in architecture. Never has the creative imagination of the architect had greater scope for original and outstanding achievement. And here in California not only is the architect fortunate in the era in which he is born but also in being given an unusual chance to build. For we learn there is to be an enormous influx of population, capital and social need requiring a huge amount of building.

But we must earnestly try to find some way of overcoming the drag of the imitative man on the creative freedom of the architect who will be called upon to do the planning for this upsurge of building. The disposition of the funds for this period of building are likely to be very largely in the hands of either hard-headed or imitative men or both. Unless many of these men can be persuaded of the social damage they may be doing, we shall have much to apprehend in the decades ahead.

And at this point let me add that if among architects themselves as a professional group there happen to be some who are not appreciative of the present creative potentialities of their art — some even who may be classified among hard-headed or imitative men—then here is a special task of education close at home to be coped with.

Having pointed out certain dangers to be guarded against, I should like to turn to some positive suggestions for the decades of building expansion ahead.

First and perhaps most important of these is that the architectural profession notice the unusually great social responsibility it has for the future character of the cities and countryside of this state. The very character of California for 1960 and 1970 and on for a century or more is to be molded largely by their hands—by the hands of the present generation of California architects in cooperation with the city and regional planners.

One reason for my taking this time at the beginning to show what it is that an architect does in planning a building which is a work of art was to show that a building or a city as a thing of beauty is a being with a character, a sort of personality with which we may be friends. But if our city has an ugly personality, it will be a constant source of irritation and even disgust and hostility. It is the major responsibility of architects to give us towns and cities with a character of which we can be proud and with which we can be friendly. You must not let us who are your clients down. As a profession, you have a social responsibility equal to that of doctors or teachers. You are responsible for the beauty of our environment, as doctors are for its health and educators for its intellectual integrity. To be aware of the seriousness of this responsibility is essential to its being successfully met.

Other positive suggestions are all in the way of means for carrying out this central responsibility.

One such suggestion is to see to it that there is an adequate number of architectural schools from which to recruit your profession and that they are adequately staffed. As a profession your influence in this area is strong even if used indirectly. It is on the advise of architects known to be competent that administrative officers fill positions in architectural schools. The standing of a school is always essentially its standing in the judgment of the profession. It is most important that this judgment be honest, aesthetically sound and readily available. But where a new school is needed, the profession could actively move to get it into being.

Then also there is a great need to educate the public in the character of good architecture and in the awareness that a building is not an isolated entity but is a part of an environment in a neighborhood of other buildings and on a site with a natural setting. Something is accomplished in universities and colleges toward informing our future public about these aesthetic principles. Such is part of my personal responsibility as a teacher, and I trust that I and my colleagues have some effect.

But in the bulk, we teachers cannot reach many out of this total community, even though it is persons out of a picked group that we do reach. The architectural profession could help by supporting the need of instruction in the arts in higher education, because it is something rather new and still open to suspicion by many in the academic field. There is a strong tendency among scientific specialists and administration to try to make all art instruction scientific, in a pedantic way—to demand MA's and PhD's and verbal research papers, of all art instructors (including architects). For some art instruction these degrees are appropriate but not for all. So there is need of watchfulness here and the assistance of the architectural profession can be helpful.

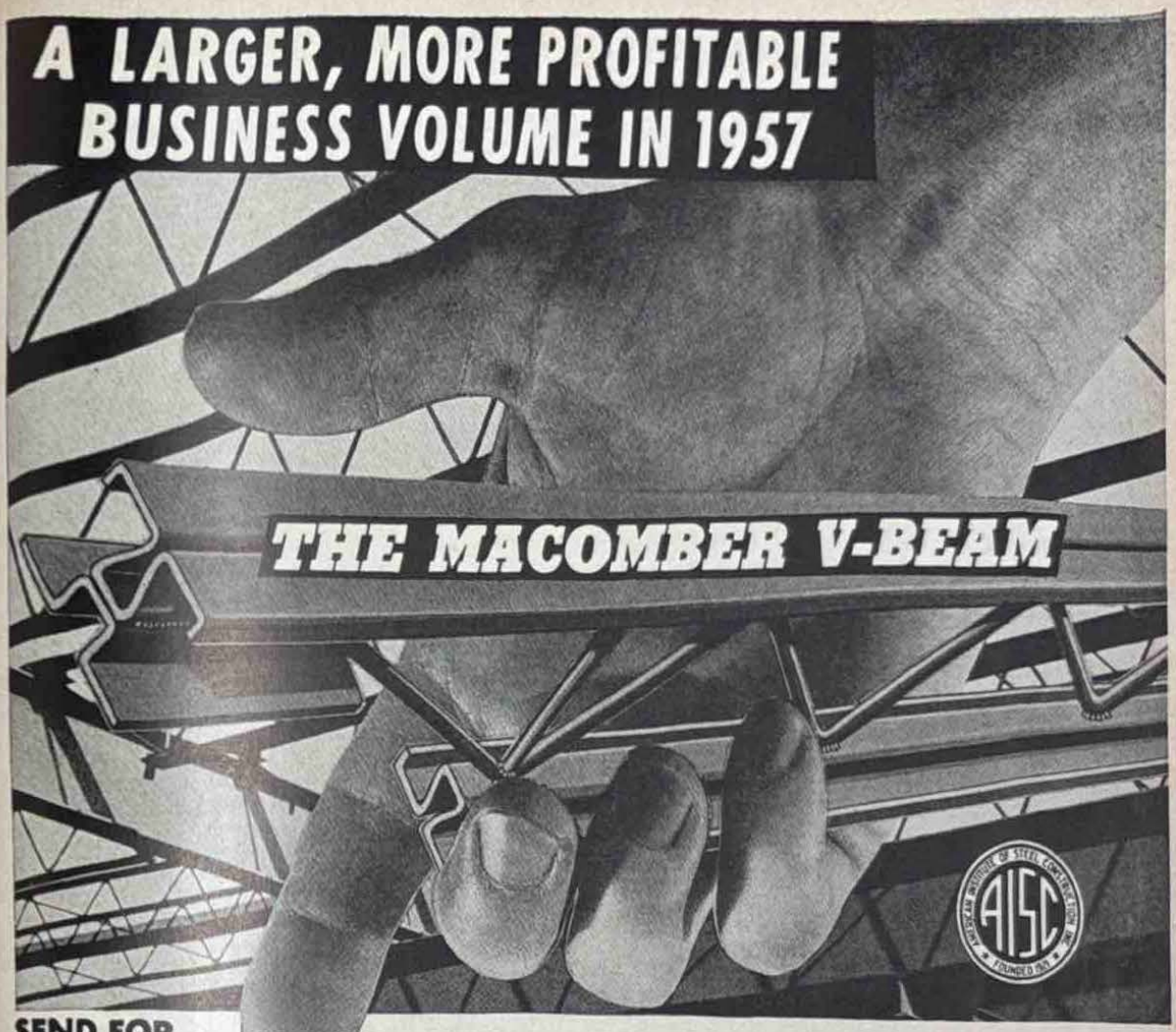
But there are other ways of educating the public, which have a wider (if less intensive) influence. Architectural exhibitions in museums or elsewhere can reach a wide public.

There is also another way that could be widely educative and that is the encouragement of newspapers and journals to engage competent architectural critics comparable to the music and literary critics they employ. This is something that would need special initiative on the part of the architectural profession and some mode of gaining security against legal or other punitive action by large architectural firms in case of unfavorable criticism. For except in a few journals like the New Yorker, which seems to have plenty of financial backing, one looks in vain for articles or columns of architectural criticism.

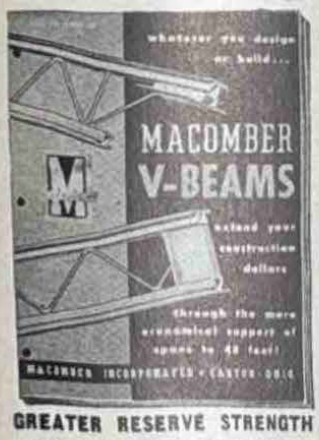
I have heard that the newspapers do not dare have architectural critics for fear of reprisal. A painter or poet or musician has no way of hurting a big daily. But there is, I have heard, fear that a big architectural firm might well do so. The result is unfortunate for there is no quicker way of arousing public interest and encouraging public discrimination in architecture than by developing a vigorous controversy over the quality of a building.

Quite apart from the accusations of being poor sports, a profession which keeps its achievements closed to free discussion likewise keeps them closed to public evaluation. If a thing can be given no worth, it is not known or appreciated and presently comes to be thought of as worthless. To show up the worth of a good thing and the unworthiness of its opposite, what is more educative and benificial than such an aesthetic discussion as the one that has just now been going on over the Ferry Building Plaza? Every architect should welcome free public criticism of his works for his own instruction (since who is omniscient?) but more especially for its educative value to his public. For by such means the architects' achievements can become publicly elevated to the place of great community worth which in truth when successful they do possess and through the ages have always possessed.

A LARGER, MORE PROFITABLE BUSINESS VOLUME IN 1957



SEND FOR CATALOG



GREATER RESERVE STRENGTH
INCREASED LATERAL RIGIDITY
WEIGHT AND COST REDUCTION

RIGHT IN THE PALM OF YOUR HAND

Not in our 35 years of fabricating experience has a framing product equaled the immediate acceptance of Macomber V-BEAMS.

TO YOU, THIS MEANS that engineers who design steel buildings and contractors who buy steel have discovered that Macomber V-BEAMS build a stronger building for less.

That catalog will enable you to check your loads and spans for a V-BEAM quotation on your next project with the Macomber Representative near you.

Just write — V-BEAM CATALOG — across your letterhead.

STANDARDIZED STEEL BUILDING PRODUCTS

MACOMBER INCORPORATED

CANTON 1, OHIO

• ENGINEERING • FABRICATING AND ERECTING •

NAILABLE STEEL JOISTS
•
LONGSPANS
•
BOWSTRING ROOF TRUSSES
•
METAL DECK
•
V-LOK STEEL FRAMING
•
STRUCTURALS

November building volume maintains lead

WITH HOME BUILDERS warily eyeing the future, the dollar volume of building permits in the five western states for November continued to hold a small lead over last year. The total for 116 major agencies is 9% higher than November 1955.

Gains ranged from 7% in Washington to 25% in Montana, with California reporting a 9% rise; Oregon, 16%; and Idaho, 13%. The pattern so far as individual agencies were concerned was fairly evenly divided, with 55% of the cities and counties reporting increases.

From the strictly home building viewpoint, Joseph B. Haverstick, president of the National Association of Home Builders, has termed 1956 the lowest profit year for builders since 1949 and estimated that home starts in 1957 would only approximate the 1 million expected by the end of this year. Another speaker at the recent National Association of Real Estate Boards convention, Albert M. Cole, Federal Housing and Home Finance Agency administrator, blamed the tight mortgage market on the 17% decrease in housing starts.

With 11 months already tucked away the picture in the five western states is just a shade brighter. The dollar volume now stands at $2,392,160,493, a bare 2% lead over the January to November total for 1955. All states report gains, with the exception of Washington which is down 3%. Oregon is up 8%; Montana, 6%; Idaho, 5%; and California, 2%.

Following is a breakdown of building permits issued by several of the major agencies during November.

	DWELLING UNITS		COMMERCIAL & INDUSTRIAL		PUBLIC	
Portland	75	($ 892,850)	24	($ 872,200)		
King County	249	(2,320,220)	38	(326,690)	7	($2,288,000)
Seattle	139	(2,060,960)	16	(969,500)	1	(15,000)
Tacoma	72	(348,875)	33	(457,965)		
Orange County	573	(5,524,257)	79	(672,740)	22	(2,111,561)
Sacramento Co.	441	(3,671,065)	49	(723,168)	19	(686,259)
Los Angeles Co.	2331	(18,571,637)	524	(4,089,694)	16	(507,100)

Building Permit Totals for 116 Western Agencies for November 1956

CALIFORNIA	Nov. 1956	Oct. 1956	Nov. 1955
Alameda County	$ 3,236,250	$ 2,999,200	$ 4,548,350
Anaheim	2,179,765	3,081,007	2,035,784
Bakersfield	751,159	418,524	729,395
Burbank	432,003	973,139	759,064
Contra Costa County	1,831,620	2,674,476	4,006,901
Fresno	1,050,329	1,175,649	784,738
Fullerton	1,081,614	1,165,477	2,979,039
Glendale	1,083,237	1,101,588	1,587,834
Inglewood	746,730	1,039,770	487,483
Long Beach	4,047,525	3,014,645	3,001,125
Los Angeles	42,204,772	37,433,124	27,406,540
Los Angeles County	24,073,834	30,236,940	17,431,281
Oakland	1,423,855	2,572,707	1,738,338
Ontario	897,060	864,182	3,240,087
Orange County	8,516,558	6,072,438	7,502,869
Palo Alto	1,782,919	1,814,483	1,839,923
Pasadena	1,161,067	1,069,156	1,901,702
Pomona	1,440,089	446,226	1,146,185
Richmond	938,365	1,091,697	1,864,700
Riverside	2,190,654	1,533,621	4,736,279
Sacramento	1,781,447	3,293,528	2,952,154
Sacramento County	5,120,216	3,907,248	7,819,640
San Bernardino	1,018,799	921,308	1,110,878
San Bernardino County	5,656,873	4,974,059	3,756,875
San Diego	8,262,874	18,801,760	7,095,962
San Diego County	4,223,900	4,136,250	2,785,370
San Francisco	7,276,744	3,916,641	7,940,125
San Jose	6,773,770	3,371,055	3,585,550
San Mateo	1,161,655	1,320,472	2,613,629
San Mateo County	2,232,553	1,988,649	2,505,174
Santa Ana	3,557,274	1,685,031	1,113,852
Santa Monica	3,624,506	2,211,453	1,923,046
Stockton	1,012,066	540,513	6,047,151
Sunnyvale	1,454,650	2,411,250	877,936
Torrance	1,033,127	3,361,068	974,512
West Covina	1,074,466	459,465	651,705
TOTAL	$156,334,325	$158,077,799	$143,481,176

OREGON	Nov. 1956	Oct. 1956	Nov. 1955
Albany	$ 79,950	$ 231,980	$ 122,500
Astoria	15,905	12,410	43,538
Baker	15,350	71,534	38,699
Bend	101,572	146,310	141,350
Coos Bay	38,050	77,051	94,357
Corvallis	322,000	239,975	219,520
Eugene	566,015	203,444	227,714
Grants Pass	175,150	83,760	125,430
Gresham	43,900	58,800	35,660
Hillsboro	50,850	63,079	12,950
Klamath Falls	123,309	203,616	68,100
LaGrande	56,340	166,242	13,610
Lane County	336,932	575,370	335,550
Medford	331,212	256,610	162,243
Multnomah County	1,345,044	1,931,640	2,224,935
North Bend	24,500	75,062	7,385
Oregon City	54,250	14,965	2,870
Pendleton	114,250	191,750	114,400
Portland	3,541,585	4,999,585	2,401,180
Roseburg	112,235	88,205	65,180
Salem	230,988	395,304	245,459
Springfield	74,645	170,625	112,155
The Dalles	296,745	192,638	138,314
TOTAL	$ 8,050,777	$ 10,449,955	$ 6,953,099

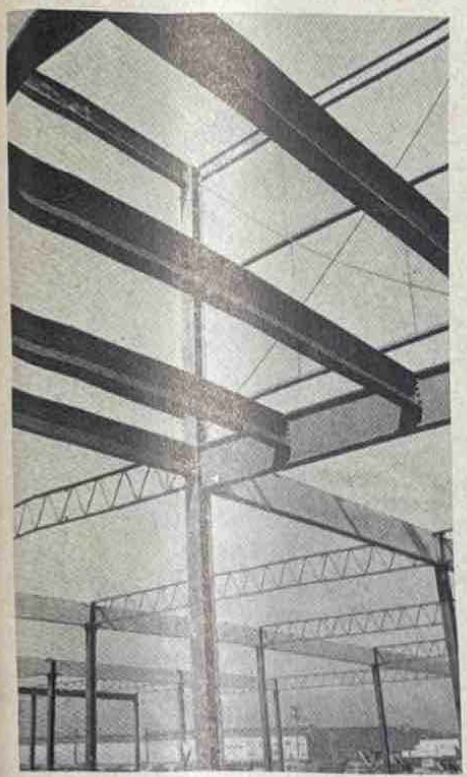
WASHINGTON	Nov. 1956	Oct. 1956	Nov. 1955
Aberdeen	$ 292,472	$ 82,460	$ 16,022
Anacortes	58,625	52,165	13,030
Auburn	46,595	126,190	29,573
Bellingham	242,309	409,084	148,341
Bremerton	56,330	76,720	90,794
Centralia	39,359	97,428	84,590
Chehalis	14,958	60,426	14,488
Clarkston	28,571	53,270	18,220
Ellensburg	42,425	37,286	121,770
Ephrata	27,530	46,213	32,225
Everett	232,008	289,095	170,688
Kelso	13,200	13,400	7,700
Kennewick	49,650	24,450	189,000
King County	4,938,910	3,552,620	4,280,667
Kirkland	43,750	101,400	97,500
Longview	87,215	443,895	139,179
Moses Lake	151,316	124,705	223,312
Olympia	131,958	682,271	201,737
Pasco	53,800	572,288	141,500
Pierce County	2,986,696	1,061,968	863,900
Port Angeles	21,635	21,650	66,450
Puyallup	42,050	87,050	60,885
Ritzville	1,800	1,725	900
Seattle	3,692,210	7,185,480	5,442,210
Shelton	13,300	24,825	33,050
Spokane	2,202,749	2,279,405	1,733,116
Spokane County	1,527,903	1,714,465	1,936,716
Sumner	29,398	17,575	16,550
Tacoma	1,049,054	1,210,475	710,457
Vancouver	410,815	336,198	396,963
Walla Walla	210,125	194,049	208,447
Wenatchee	90,609	88,465	150,190
Yakima	254,261	478,527	251,587
TOTAL	$ 19,083,586	$ 21,547,223	$ 17,892,256

MONTANA	Nov. 1956	Oct. 1956	Nov. 1955
Billings	$ 191,000	$ 320,750	$ 245,100
Bozeman	55,000	82,200	10,200
Butte	411,154	27,053	8,461
Glasgow	24,100	134,780	44,200
Glendive	31,450	121,200	158,647
Great Falls	573,078	512,998	196,531
Helena	98,740	395,169	82,600
Kalispell	66,400	93,500	12,000
Lewistown	104,300	48,500	56,690
Livingston	28,050	437,740	62,900
Miles City	47,945	66,871	27,735
Missoula	30,500	44,800	420,500
TOTAL	$ 1,661,717	$ 2,285,361	$ 1,325,564

IDAHO	Nov. 1956	Oct. 1956	Nov. 1955
Boise	$ 848,643	$ 420,639	$ 267,563
Caldwell	52,518	102,692	343,285
Coeur d'Alene	420,550	118,670	54,750
Idaho Falls	342,800	488,200	664,350
Jerome	32,300	7,300	4,300
Lewiston	40,520	124,193	104,707
Nampa	255,250	138,195	99,050
Payette	28,200	11,275	25,300
Pocatello	254,429	187,551	436,075
Sandpoint	3,000	3,900	6,475
St. Maries	Nil	1,000	Nil
Twin Falls	141,650	215,475	126,800
TOTAL	$ 2,419,860	$ 1,822,090	$ 2,132,655
GRAND TOTAL	$187,550,265	$194,182,428	$171,784,758

ANOTHER EXAMPLE OF CARCO "One Stop" STEEL SERVICE





Engineers — Austin Associates, Seattle
Builders — The Austin Company, Seattle

LARGE NEW BOEING OFFICE FACILITY USES CARCO FABRICATED STEEL

The introduction and sale of the Boeing 707 Intercontinental, a larger airplane than the Boeing 707 Stratoliner, make necessary additional manufacturing space.

As a result, the Boeing Airplane Company of Seattle is currently erecting new company-financed facilities to the extent of about $35,000,000.

Part of this large expansion program are new manufacturing and office buildings at Renton, Washington. The cost of the new Renton facilities is estimated at $13,000,000.

The office building occupies about 300,000 square feet. When completed it will house the company's new Transport Division.

This new building is to be a completely air-conditioned and sprinklered one-story steel frame structure with four penthouses to contain the heating, ventilating, air-conditioning and some of the electrical equipment.

Bay spacing of the steel columns is 24' by 36'. The fabricated steel beams are framed in the 24' direction. Open web bar joists spanning 36' at 6' centers are welded to the steel beams.

Pacific Car fabricated 360 tons of structural steel for the Boeing Transport Division's new office facility.

Carco offers buyers of structural steel not only the largest fabricating facilities in the Northwest but also a "one stop" steel service. This means money-saving ideas and suggestions, prompt engineering detail and estimates, fabrication and erection. Let Pacific Car help you solve your structural steel problems, whether your needs are large or small.

PACIFIC CAR AND FOUNDRY COMPANY

STRUCTURAL STEEL FABRICATION AND ERECTION, STEEL CASTINGS, FORGING, HEAT TREATING, MACHINING, HOT DIP GALVANIZING, TRACTOR EQUIPMENT: Winches, Hoists, Arches, Log Carts, Rigging.

CARCO®

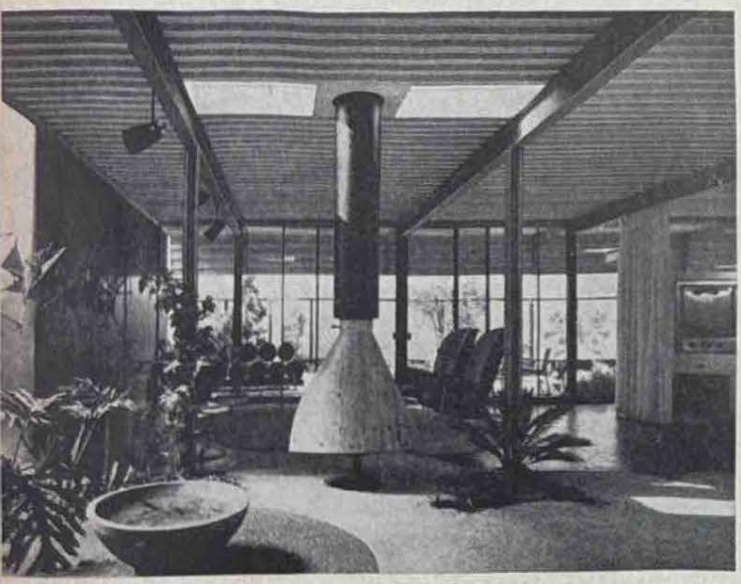
STRUCTURAL STEEL DIVISION—120 W. HUDSON—SEATTLE 4—RAinier 5355 MAIN PLANT AND OFFICES—RENTON, WASHINGTON—OLive 4511

News of another steel home from United States Steel

Steel brings the wide open spaces indoors

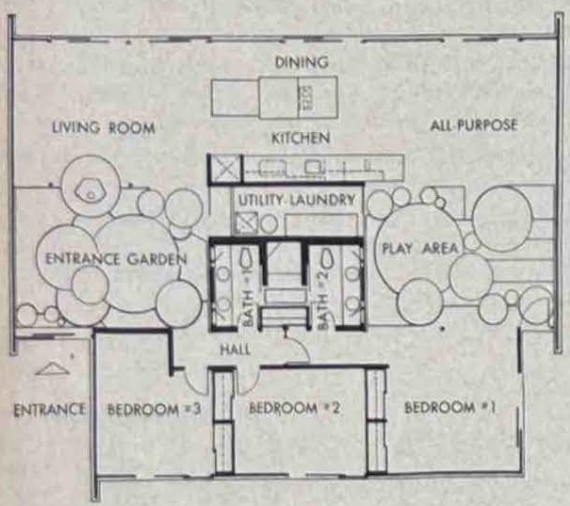
Eichler Homes' new experimental house, the X-100, takes a long, hard look into the future of production dwellings. Many of the forward-looking features previewed in this research house are steel, or they depend on steel: unconfined, inter-related space, indoor-outdoor integration and maximum design flexibility.

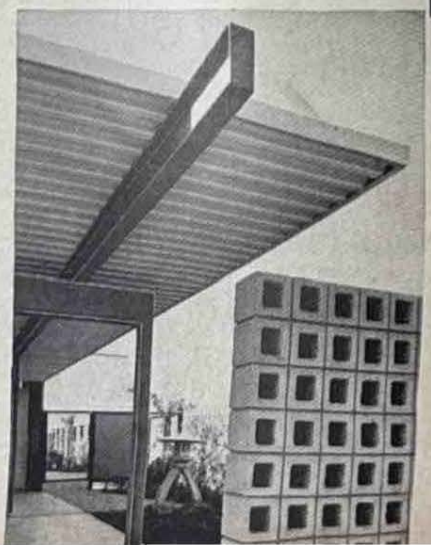
Discussing their interest in steel homes, Edward Eichler underlined the great stability and permanence of steel construction . . . the fact that it doesn't check or warp and paints economically. There's the barest minimum of upkeep necessary with a steel frame house and, of course, termites cease to be a problem.



Entering through this dramatic garden court, you pass into the living, dining, kitchen, all-purpose and children's play area without a wall to break the openness Eichler seeks. Only the bedrooms and "utility core" have partitions (non-bearing) or draw-drapes for privacy (and these can be moved according to the needs of a growing family or new owners.)









The X-100 was designed to utilize standard United States Steel sections: 4" H13# for vertical columns; 8" WF13# and 10" WF17# for roof beams. There was also a variety of small angles, T's and channels involved. Steel roof decking was fabricated by H. H. Robertson.





The thin crisp lines of small steel members produce a light, elegant feeling and a "floating roof." To replace an 8" steel ceiling beam (spanning 26') with a wood member of equivalent strength, the architect would need to specify bulky 16" timbers.

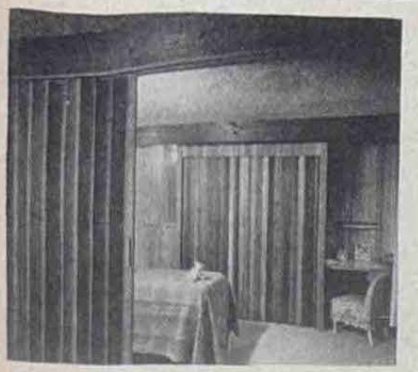
rchitect: A. Quincy Jones and Frederick Emmons, AIA, Los Angeles
teel Erection: Herrick Iron Works, Oakland
-100 Location: San Mateo Highlands, Calif.

ARCHITECTS & ENGINEERS: If you are interested in receiving more information on the use of United States Steel in residential construction, send us your name and address and we will forward the material as it becomes available. Write; Architects & Engineers Service, United States Steel Corporation, Columbia-Geneva Steel Division, 120 Montgomery Street, San Francisco 6, California.

estern homes of the future are now building with steel... **UNITED STATES STEEL**

Materials – Products – Tools

and the latest literature



WOOD PANEL FOLDING DOORS

FOLDING DOORS: A new line of folding doors with lifetime vinyl hinges are available in three woods: Alaska cedar, western red cedar and Philippine mahogany. Marketed as Space-Saver Dors by Wood Specialty Products, they are offered in two sizes, regular and giant. The former (3½-in. panels) is used generally in home and office installations; the latter (5½-in. panels) in commercial installations and may be specified to any size for custom production.

The wood panels are 7/16-in. thick and are kiln-dried to prevent warping or checking. The doors are easily hung and suspended from the track at the top of the door opening. There is no floor track.

(Item No. 1)

CERAMIC VENEER: To promote general purpose ceramic tile construction having the brick veneer appearance but with four-fifths of regular brick weight eliminated, Empress Bricktile has devised a drywall method of setting unglazed clay tiles for interior and exterior wall facing. The method employs small nailable clips in the vertical mortal joints between brick tiles. Each clip serves as an automatic space for both horizontal and vertical joints.

(Item No. 2)

INTERIOR PAINT: A new Zolatone process for interior painting called TextureTones, which resists chipping and scratching to a far greater degree than conventional finishes, comes in 42 different colors and gives a stippled effect. Its non-static quality keeps surfaces cleaner longer, making this finish especially suitable in the kitchen.

(Item No. 3)

SPACE DIVIDER: An 84-in. high partition of steel with aluminum trim permits an unlimited variety of office arrangements since the 20-gauge panels and 16-gauge posts are completely interchangeable. The Space Setter, newest addition to Rockaway's line of dividers, is free standing and does not interfere with existing lighting, heating or ventilating systems.

The partition is constructed of 39 in. of stretcher leveled steel, topped by 32 in. of clear flat, clear fluted or frosted fluted glass and by 12 in. of tempered hardboard. The standard size glass panel or all-steel door is equipped with aluminum hardware and rides on a full piano hinge. Glass inserts can be replaced with masonite, pegboard or acoustical material. Base panels that snap easily on to specially designed brackets are available for areas where complete base closure is desirable.

(Item No. 4)

FIREPROOFING STEEL: A method of fireproofing structural steel members and steel floor units in building construction developed by Keasbey & Mattison has been approved by Underwriters' Laboratories. Using sprayed Limpet asbestos, this method also presents a new concept for the protection of structural steel members against corrosion. Pure asbestos fibers are combined with an inorganic hydraulic-setting bonding material. The thickness of the coating on different members is varied as required to provide the desired rating in hours of fire protection.

(Item No. 5)

COOLING UNIT: To make its absorption cooling machine available to smaller buildings, Carrier has introduced 60- and 80-ton sizes. Electronically controlled by a stop-go push-button, time clock or thermostat, the unit produces variable cooling as required. Low pressure or waste steam, or any hot fluid can be used to provide refrigeration. All of the parts which would ever need to be replaced reportedly can be carried in a small briefcase.

(Item No. 6)

DOOR SAFETY DEVICE: An entrance door safety device developed by Overly Manufacturing is one answer to the hazard of smashed fingers. Called the Fing-R-Gard edge, it is intended for use on doorways for all types of institutional, industrial and commercial buildings.

Besides protecting unwary fingers, the door edge is weatherproof and seals out cold or heat and moisture. It is made of vinyl plastic and attached as an integral part of the door, shaped in the form of a U and applied to the door's entire length.

(Item No. 7)

SHEET COPPER: For both interior and exterior applications, Chase's newest sheet copper pattern features a deep ripple or wave design which produces interesting shadow effects. Available in standard 16-oz. weight, 39x 96-in. sheets, the pattern lends itself to such uses as cornices, box gutters, fireplace hoods, range canopies, paneling, flower boxes wood baskets and other decorative effects.

(Item No. 8)

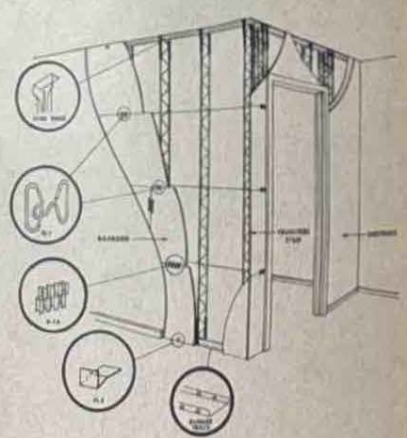
WIREWAY: General Electric's hinged-cover wireway, completely open for lay-in wiring, is particularly useful where space is limited and building contours are complicated. Labeled Type HW, it eliminates the customary method of threading the conductor through collars. The wireway comes in 1-, 2-, 3-, 4- and 5-ft. lengths and is made in three different sizes—4x4 in., 6x6 in. and 8x8 in. A complete line of standardized fittings also is available.

(Item No. 9)

DRYWALL ASSEMBLY: U. S. Gypsum recommends its drywall construction assembly for non-load bearing and free-standing partitions in commercial, institutional and multiple-unit residential construction. Designated the Sheetrock-Trussteel stud partition system, its components are metal studs, attachment clips, metal runner tracks, stud shoes, a new product called Baxbord and ⅜-in. Sheetrock wallboard.

The system is adaptable to new construction or remodeling where ceiling height or free-standing partitions are specified. Partitions are hollow, permitting electrical conduits and pipes to be run vertically or horizontally. Baxbord provides an easy-to-handle, low cost base for lamination of the Sheetrock face layer.

Item No. 10)



PARTITION SYSTEM

Latest Handbooks, Manuals and Literature

Yours for the Asking

FIRE STATION DESIGN: Architects and engineers with assignments for designing municipal fire stations, city halls or combination fire-police buildings will want to add Circul-Air's 64-page publication to their reference library. "Fire Station Design" presents floor plans, perspectives and descriptive data for about 100 of America's newest stations from all sections of the country. Almost every conceivable type of structure—from single-engine companies to central headquarters—is represented in a wide range of architectural treatment costing from $20,000 to $500,000.

(Item No. 11)

METAL DOORS, FRAMES: United Steel Fabricators describe their standardized modular dimensioned, metal doors and frames for residential and commercial applications in a 12-page bulletin. It shows some production steps in their forming, complete specifications on doors and frames, illustrations of both swinging and sliding standard doors, detail drawings of typical frame installations and standard frame designs, and engineering details of hardware reinforcements and locations.

(Item No. 12)

STRUCTURAL WOOD: Latest information on solid timber structural assemblies is found in Rilco's 12-page booklet. "Structural Wood Products" contains technical data on fabricated timber systems such as roof trusses, post and beam construction, arch centering, theater screen towers and falsework and bridge stringers.

(Item No. 13)

EXTERIOR SIDINGS: Numerous color photographs of houses which illustrate the various siding materials developed by Masonite highlight a 16-page booklet, "For Modern Exteriors Choose Modern Materials." These include horizontal siding and vertical panel siding in various treatments and textures. Installation directions are given in brief form.

(Item No. 14)

WOOD PRESERVATION: "Recommendations for Preservation of Wood in Building Construction" covers the types of preservatives, methods of treatment and degree of treatment required for the various items of lumber, millwork, etc., commonly used in residential construction.

In developing these specifications Protection Products Manufacturing has employed the same geographical regions as were used by the Building Research Advisory Board in the studies which it recently completed for the FHA: Region 1—California, Gulf Coast states and southeastern states; Region 2—the balance of the states except a strip across the northern part of the country; Region 3—extreme northern part of the country.

Recommendations also are provided in detail for the three basic types of residential construction: slab on ground, basement and crawl space.

(Item No. 15)

NUCLEAR POWER: For anyone interested in nuclear reactor power plants, a 12-page handsome bulletin published by Alco is a must. The publication features a five-page transvision of a pressurized water reactor core designed and built by Alco for the Army Package Power Reactor. It also depicts photographically the company's new Criticality Facility at Schenectady and contains a heat balance diagram of a typical Alco nuclear power design with an accompanying characteristics chart.



COMMERCIAL ATOMIC PLANTS

(Item No. 16)

PRESTRESSED CONCRETE: Advantages of prestressed concrete structural products are described in an eight-page brochure, along with the method of making and installing the Leap double tee. Three pages are devoted to tables of loading for roof and floor members.

(Item No. 17)

CURTAIN WALL: An exterior curtain wall system incorporating 10 standard modular components and specifically planned for one-, two- and three-story construction is introduced in Kawneer's 10-page brochure. Called Unit Wall, the system permits a total of 2,852 possible design combinations, using the complete range of sizes and types of panels, sash and doors.

(Item No. 18)

SCHOOL FRAMES, WINDOWS: "Wood Frames and Windows in Modern Schools" is the title of the latest in a series of brochures issued by the Architectural Woodwork Institute. The 20-page booklet contains photographs and details of 15 outstanding woodwork installations in schools in all sections of the country and Canada.

(Item No. 19)

CEMENT COLOR CARD: Landers-Segal is offering a pocket-size cement color card which illustrates 24 shades to architects, builders, concrete manufacturers, mason contractors and building material dealers. Also available is a companion folder, "Suggestions for Using Lansco Cement Colors."

(Item No. 20)

WEATHER CONTROLS: A chart scheduling the most suitable outdoor controls for use with different types of heating systems under varying conditions and requirements highlights a bulletin prepared by Automatic Devices. Also included are guide specifications in outline form.

(Item No. 21)

PERLITE PLASTER: A six-page booklet, "Perlite Plaster for Quality Home Construction," is designed for builders as a promotion piece to be given to prospective home buyers. The Perlite Institute discusses the fireproofing, noise reducing, insulating and strength - with - lightness characteristics of perlite plaster.

(Item No. 22)

READER SERVICE

Pacific Architect and Builder
2418 Third Ave., Seattle 1, Wash.

Please send the literature or data about the material, products and tools listed on these pages.

DECEMBER 1956

ITEM NO. (Circle those you wish):

1	2	3	4	5	6	7	8				
9	10	11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30	31	32

Name_____ Title_____

Firm_____

Address_____

City_____ Zone____ State_____

T-square talk

about architects • planners • engineers

NEW OFFICE: Kalispell, Mont., architects Taylor, Thon, Schwartz & Kirkpatrick have opened a new office in the First State Bank Building in Libby, where the firm will be represented by Kenneth Kirkpatrick.

ON THE MOVE: Harry L. Percy Jr., architect, and Sidney P. Lathrop, engineer, are now located in a new building at 1975 S.W. Fifth Ave., Portland.

✓ Architect Dan F. Miller of Edmonds, Wash., is now practicing in the Beeson Building (MYrtle 2929).

DIED: Johannes Van Teylingen, 64, senior partner in the architectural firm of Van Teylingen, Knight & Van Teylingen, Great Falls, Mont., died November 13. He designed many of the major buildings in that city and served as president of the Montana chapter, AIA, in 1952.

A native of Holland, Van Teylingen was a widely known chess player, having won at least six state, national and international chess titles.

✓ Death took Roy C. Stanley, 70, an architect and structural engineer, in Seattle last month. His partnership with Arden Steinhart, formed in 1951, expanded to the firm of Steinhart, Stanley, Theriault & Anderson, with whom he was associated before he became ill in July.

A graduate of the University of California in 1910, Stanley came to Seattle from Los Angeles. In the 1930s he was a regional architectural engineer for the Public Works Agency and later the Federal Works Agency.

REORGANIZED FIRM: Reorganization of the San Francisco architectural-engineering firm of Ernest Frederick Winkler and Harold M. Hansen has been announced by Hansen and Edwin Winkler, brother of the partner who met his death in an airplane accident last August. Known as Hansen & Winkler, the reorganized firm, with offices at 251 Post St., is continuing the work of school planning and designing of hospitals and other public buildings which made up a substantial part of the business of the predecessor organization.

A graduate of Columbia University School of Architecture, Hansen joined Ernest Frederick Winkler shortly after the latter established his practice in 1946. Edwin Winkler also was associated with his brother as field engineer for supervision of construction and administration of contracts. He holds a degree in mechanical engineering from the University of California.



NEW ASSOCIATES of architectural firm of Wilmsen & Endicott, Eugene, Ore., are Richard R. Rhodes (left), AIA, and James C. Longwood (right), AIA. In center is Ramon Gonzalez of Montevideo, Uruguay, who was associated with firm during first half of 1956 before returning home in August.

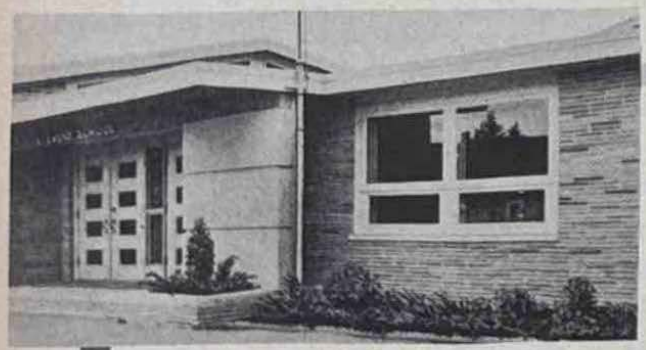
HONORED: Designer Robert K. Grubb of Portland has received an Award of Merit from Institutions magazine for his work on Palaske's Hillvilla Restaurant (featured in PA&B for April 1956).

NAMED: Robert L. Durham, AIA, has been chosen president of the Seattle Art Commission, succeeding another architect, John S. Detlie, AIA.

PR HEAD: Welton Becket & Associates, architects-engineers, have named Jack Whitehouse as director of the firm's newly created department of public relations, with headquarters in Los Angeles. He formerly headed Pacific Coast press relations for Shell Oil Co.

PLANNERS: Thomas F. Hargis Jr., AIA, has been appointed to the Yakima (Wash.) City Planning Commission.

✓ The City of Bellingham, Wash., has hired its first full-time city planner, 30-year-old Bruce G. Finke, who has been associated with Hadley & Hadley, Seattle consulting engineering firm, in structural design work.



architect:
JONES & BINDON

contractor:
RALPH CHISHOLM

Chehalis Buff Roman Brick

. . . adds charm, color, economy
to new **Stevens School** in Aberdeen

More and more architects are specifying the Northwest's most distinctive brick—Chehalis Brick—for school construction. Chehalis Brick combines the appealing colors and textures that are typical of the area with all the natural advantages of brick: attractive design, permanence, and fire-safety—plus the long-range economy of lower maintenance costs.

STRUCTURAL CLAY PRODUCTS INSTITUTE SCPI

CHEHALIS BRICK and TILE Co.

BOX 868, CHEHALIS, WASHINGTON

Builders and Suppliers

headlining the news



• **Crown Zellerbach Corp.** has created a fiber division, headed by William R. Works, at its San Francisco headquarters to promote Crezon, a weatherproof overlay for plywood. He will be assisted by sales representatives J. H. O'Donnell of Seattle and E. C. Stadler Jr. of Portland.

Now used by seven plywood manufacturers on their panels, Crezon was actually perfected in 1950 but was not fully developed and ready for an extensive marketing program until mid-1955.

• **American Fabricators** has opened a branch office in the Pittock Block, Portland, with A. C. (Clayt) Heffelfinger as manager. The glue-laminated timber company, which has its fabrication plant in Bellingham, Wash., now is represented nationally.

• **United States Plywood Corp.** has opened a branch operation, including a warehouse and office at Santa Ana, Calif. Beryl Abbott, with the company since 1936, has been made manager.

• **Ray Johnston Co.** of Seattle has been appointed as Pacific Northwest representative for the sales of industrial slides by Grant Pulley and Hardware Corp. of Los Angeles and New York.

• **Symons Clamp and Mfg. Co.** has named J. Frank Pearson as its manager of West Coast operations at the firm's new plant in San Leandro, Calif.

• **Worthington Corp.** has acquired a West Coast manufacturing plant in Alhambra, Calif., as a further step in the company's expansion in the year-round home air conditioning field.



ALMOST EVERY MAJOR MARKET on the West Coast will be visited by Worthington Corp's. "Climate Van" by March 1, 1957. Looking like an ordinary truck when in transit, van converts into combination showroom, conference room and motion picture theater when set up for exhibit. Turn lever and sides, roof and floor of vehicle slide out to width of 15 ft. 2 in.; stairway folds out from rear to provide entrance.

• **Simpson Logging Co.** of Shelton, Wash., has integrated the Oregon plywood and door plants of the former M and M Wood Working Co. into a single division headed by Hal W. McClary of Shelton, plywood and door manager.

Sales headquarters for the enlarged Simpson organization have been established in the former M and M offices at 2301 N. Columbia Blvd., Portland. Harold Johns, Simpson plywood and door sales manager, has transferred to the Portland sales office from Shelton.

Clay Brown, who headed M and M Wood Working prior to the integration, is now devoting full time to his



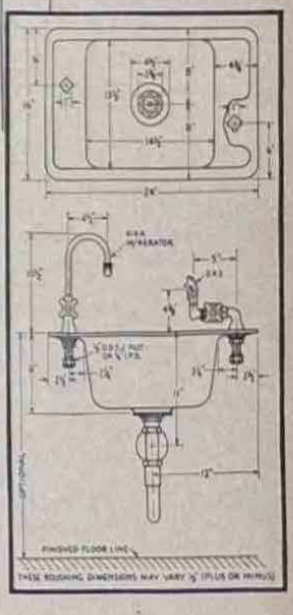
New School Project on the Board?

...add "the touch" that makes it really new...

HAWS classroom DECK-TYPE FOUNTAINS



Acid resisting porcelain enameled cast iron receptor, 16" x 24", equipped with drinking faucet and pantry faucet...with HAWS advanced sanitation features for utmost cleanliness and safety.



Specify water facilities where they're needed most—right in the classroom! HAWS versatile deck-type fountains are available with optional combinations of VANDAL-PROOF faucets and fixtures to meet any classroom need.

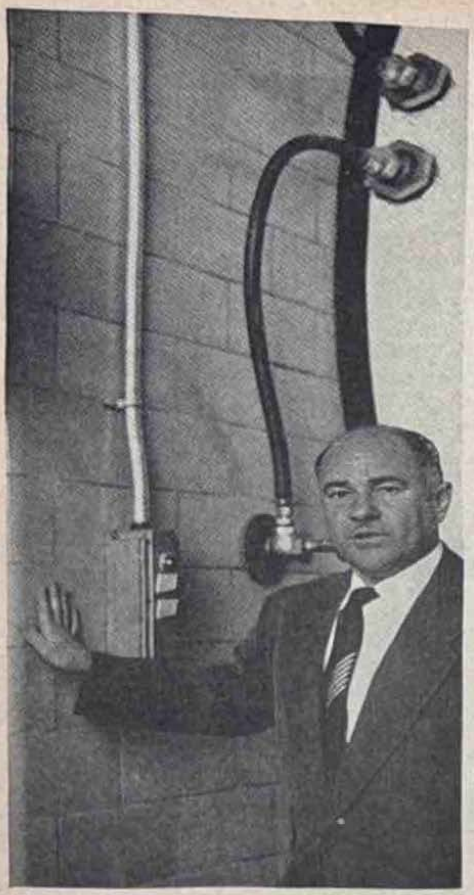
And for appearance... they can't be beat! Handsomely designed in lifetime stainless steel or *acid resisting* enameled iron, they add pleasing functional beauty. Five basic series fit every space and service situation. Make your school refreshingly new *throughout*—with HAWS Deck-Type Fountains. *Write for detailed information...TODAY!*



HAWS features complete lines of drinking fountains, electric water coolers, emergency eye-wash fountains—and **KRAMER Flush Valves,** *for every make plumbing fixture.*

HAWS DRINKING FAUCET CO.

1443 FOURTH STREET (SINCE 1909) BERKELEY 10, CALIFORNIA



HENRY W. OPPEL
Brewmaster,
S. F. Brewing Co.

"GLAZED STRUCTURAL WALLS MAKE BREWERY SANITATION EASY"

Burgermeister's vital problem of controlled sanitation has been greatly simplified and reduced in cost with walls of Western Glazed Structural Units.

In three remodeling and expansion programs since 1952, the brewery has installed 37,620 sq. ft. of this gleaming ceramic finished tile.

Wall and finish are one — no framing, lathing, plastering or finishing required. Hard, smooth surface resists wear, stains, odors; never needs painting. Clear glaze, plus 12 attractive colors. Standardized sizes and shapes for every requirement. For shape chart and specification details write to KRAFTILE Co., Niles, Calif.; or WASHINGTON BRICK & LIME CO., Spokane, Washington; members of

WESTERN STRUCTURAL TILE INSTITUTE

personal business interests in Oregon and California. He is president of Brown Timber Co. of Portland, general manager of the Fortuna Sawmills at Fortuna, Calif., and owner of the Eureka Redwood Lumber Co. sales yard in Downey, Calif., Brown currently is president of the Portland Pacific Coast League baseball club.

● **Sequoia Manufacturing Co.** of San Carlos, Calif., has named David C. Lindsey to head up its national sales organization planned for its new Sequoia Vacuum System subsidiary. The vice president of sales has been active for the past three years in the design and development of the central built-in vacuum cleaning system which the firm is now ready to market and install through a network of heating dealers.

● **Georgia-Pacific Corp.** has purchased all the assets of Hammond Lumber Co., with principal places of business in San Francisco and Samoa, Calif., and Chicago, for a total of about $75 million, the largest financial transaction ever recorded in the forest products industry in California.

● **Utility Fan Corp.** of Los Angeles has a new sales engineer, Marc W. McGuire who will travel throughout the United States on his new assignment. A graduate of the University of Southern California's School of Engineering, he was sales engineer for U. S. Electrical Motors prior to joining Utility.

● **Acme Concrete Co.** of Spokane, which recently completed a $100,000 modernization program, has appointed Donald H. Herak as manager. He formerly was with the Portland Cement Association in charge of its Spokane district office, which has been closed. However, the association will have a field engineer, Walter C. Cram, in the Spokane area.

● **Douglas Fir Plywood Association** has named B. V. Hancock, executive vice president of Cascades Plywood Corp. of Lebanon, Ore., as president to serve the unexpired term of Howard Garrison, who resigned after leaving the fir plywood industry. The latter was former vice president of Evans Products Co. of Coos Bay, Ore.

● **Long-Bell Division** of International Paper Co. will continue operations of the newly merged organizations, Long-Bell Lumber Co. and Long-Bell Lumber Corp. J. D. Leland, formerly head of both Long-Bell companies and now vice president of International Paper, will be in charge of Northwest activities with headquarters in Longview, Wash. The parent firm's home city is Kansas City, Mo.

NATIONAL NOTES



STRUCTURAL DEVELOPMENT LABORATORY being built by Portland Cement Association in Skokie, Ill., will be of tilt-up wall construction, with decorative designs cast into concrete wall panels. This project and companion structure, Fire Reasearch Center, will cost $2,750,000. Plans were drawn by Chicago architects Dunlap & Esgar, Inc., in cooperation with PCA staff.

●

● **Structural Clay Products Institute** has reelected John H. Stewart, who heads Stark Ceramics, Inc., Canton, Ohio, as its president for 1956-57. The 39-member board of directors includes Alex Corbett, Granger Clay Products Co., Yakima, Wash., and four Californians — John C. Boggs, Stockton Brick and Tile Co., Stockton; Norman J. Gatzert, San Jose Brick and Tile Ltd., Oakland; John W. Rice Jr., Union Brick Co., San Diego; and A. E. Barnes, Gladding, McBean & Co., San Francisco.

● **Roof Drainage Manufacturers Institute** at its organizational meeting in Chicago last month elected E. J. Cullen of Inland Steel Products Co. as chairman of the board; R. L. Seiple of Republic Steel Corp., Berger Division, vice chairman; and Hunter-Thomas, Associates of Cleveland, managing directors. Among the charter members is William Wallace Co. of Belmont, Calif.

BUILDING PRODUCTS LITERATURE COMPETITION

Building products literature and space advertising published since December 31, 1955, will be considered in the 1957 competition co-sponsored by the AIA and Producers' Council. A panel of five nationally known architects will judge the submissions, and the award winners will be exhibited at the AIA's centennial celebration in Washington, D.C., May 14-17, 1957.

The ninth annual competition is open to all manufacturers of building materials and equipment, to associations of such manufacturers and to other firms who have technical literature of value to the architect. Complete details can be obtained by writing the Publications Department, Producers' Council, Inc., 2029 K St., N.W., Washington 6, D.C.

A roundup of bond issues approved by Northwest voters

PUBLIC WORKS in the Pacific Northwest will zoom to new levels in 1957, judging from the large number of bond issues for schools, hospitals, city halls and fire stations approved by the voters this year.

In the November 6 elections alone, voters in Oregon, Washington, Idaho, and Montana okayed a whopping $68,893,661 in bond issues and special levies, mostly for schools. With the $26,111,894 already approved at special elections, the total comes to $95,005,555, of which $76 million will be spent on schools.

In a generous mood voters accepted plans for 87% of the projects submitted to them, slightly under the average for the entire nation, estimated at 93% by the Associated General Contractors of America.

The summary below, divided according to states, gives the city, amount allocated, type of work planned, name of school district or other agency in charge, architect if one has been retained and status of plans wherever possible. Bond issues starred were passed in November 6 elections.

WASHINGTON

AMANDA PARK — $13,000 — School construction. A 10-mill levy will go into school building fund. Work includes school bus garage of rigid frame steel construction. Quinault School District No. 97, Amanda Park. **Contract for bus garage awarded to Barton-Swanson Steel Building Co., Olympia for $9,597.**

ANACORTES — $600,000 — Elementary School. Money will finance construction of school at Gibraltar road site. Plans call for 12 classrooms, gymnasium and kindergarten facilities. Fidalgo School District No. 2, Skagit County, Anacortes; architect, William Arild Johnson & Associates, First National Bank Building, Everett. **Preliminary plans completed; bids to be called soon.**

ANACORTES — $100,000, plus levy for $110,000—Elementary school. Bond issue plus the 20-mill levy will finance 12-room elementary school at 24th and J Streets. Anacortes School District No. 322; architect, Don L. McKee, 915 Fifth St., Anacortes. **Plans underway. Bonds sold in October.**

ARLINGTON—$95,000—Additions and remodeling. Levy will finance addition to physical education plant, razing a classroom portion of junior high school and rebuilding entrance to auditorium and gymnasium, plus work at Lincoln school. Arlington School District.

BAY CENTER—levy—School—Special 60-mill levy will finance school building. Bay Center School District No. 22.

*BELLEVUE—$1,950,000 — Schools. Money will go for various projects in the district. Bellevue School District No. 405, Box 67, Bellevue.

*BELLEVUE—$25,000—Maintenance shop. Work will include street equipment yard and shop for city. City Council, City Hall, Bellevue.

*BELLINGHAM — $700,000 — School additions. Funds plus proposed state matching funds will finance $179,000 addition to Columbia School, $377,000 addition to Fairhaven Junior High School, $35,000 addition to Carl Cozier School, music rooms and bus garage at Bellingham High School costing $126,000. Bellingham School District No. 501, Gordon Carter, superintendent, Roeder School, Bellingham; architect, Galen Bentley, 1130 State St., Bellingham. **Work will start when it has been determined which of the projects are needed first.**

BENGE—$64,000—School. Money will finance construction of school building to replace one destroyed by fire in July. School will have two classrooms and multipurpose room. It will be one-story, solid masonry brick, block walls, concrete slab floors, steel girders, flat steel roof. Benge Consolidated School District No. 122; architect, Culler, Gale, Martell & Norrie, 615 Realty Bldg., Spokane. **Bids to be opened December 13.**

BURLINGTON — $600,000 — Elementary school and other work. Program includes modernization and renovations to Edison Elementary School; construction of new 16-room elementary school in southeast district of Burlington and addition of science-home economics unit for high school. Burlington - Edison Consolidated School Districts, Burlington; architect, Galen Bentley, 1130 State St., Bellingham.

CARNATION—$30,000—Schools. Tax levy of 10 mills will finance school construction.



The latest in modern savings institutions: a drive-in facility . . . made finer with the last word in construction. Here, on Los Angeles' fashionable Wilshire Boulevard, beautiful porcelain enamel panels match the luxury surroundings. The broad spandrel belt is faced with Aircomb-insulated porcelain enamel panels, assuring lasting color quality, resistance to deterioration, and freedom from maintenance.

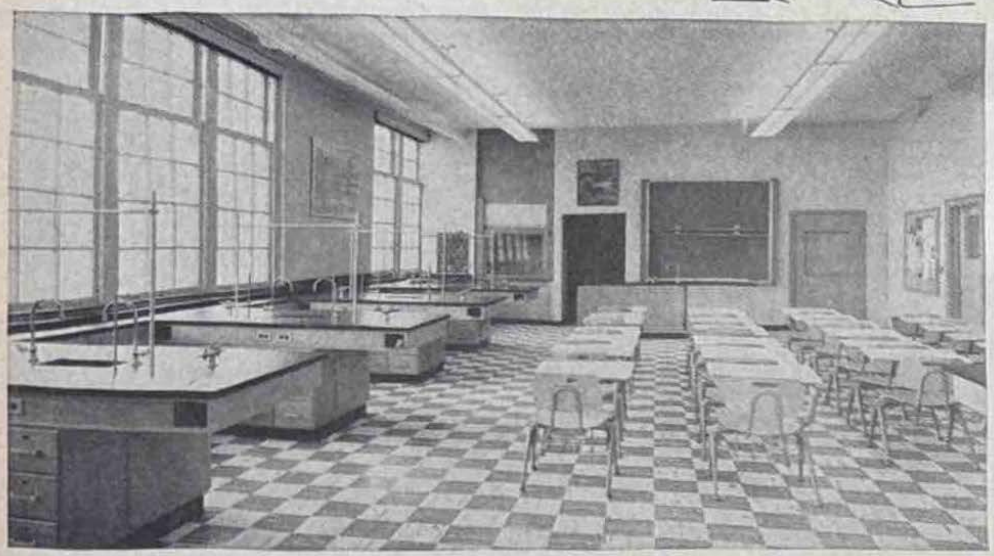
•

Specify **PORCELAIN ENAMEL:** your key to new versatility. Write, today, for full information and color guide.

ARCHITECTURAL DIVISION
PORCELAIN ENAMEL PUBLICITY BUREAU
P. O. BOX 186 • EAST PASADENA STATION • PASADENA 8, CALIFORNIA
1444 WEBSTER STREET • ROOM 4 • OAKLAND 12, CALIFORNIA

PLANNING
makes the difference





in Kewaunee Educational Furniture for
SCIENCE, ARTS & CRAFTS, HOMEMAKING LABORATORIES

From first to last—from the initial design of every unit to its final installation—*planning* makes the difference in Kewaunee Educational Equipment.

Based on a half century of experience in the educational field, each Kewaunee unit and complete floor layout is *planned* for maximum classroom efficiency, maximum flexibility, long life and low cost per year of service.

Whatever *your* educational equipment needs may be—for science, arts and crafts, or homemaking laboratories—consult Kewaunee. Our *planning* services are yours for the asking, without cost or obligation.

TO SERVE YOU BETTER!

Kewaunee Manufacturing Company is pleased to announce that sales and service of Kewaunee equipment in the entire state of California will now be handled *exclusively* by

TWO DIRECT FACTORY OFFICES

SAN FRANCISCO AREA
Kewaunee Mfg. Company
2442 Park Boulevard
Palo Alto, California
Tel: Davenport 2-4790

LOS ANGELES AREA
Kewaunee Mfg. Company
1270 Temple Terrace
Laguna Beach, California
Tel: Hyatt 4-7110

A call or letter to either office will start the complete Kewaunee planning, engineering and installation service to work for you on your laboratory requirements.



FREE PLANNING AIDS. 44-page Educational Laboratory Equipment Catalog; 48-page Planning Manual. Write for copies.

Kewaunee

KEWAUNEE MFG. COMPANY
5124 S. Center St., Adrian, Michigan

Lower Snoqualmie Valley School District No. 407, Box 218, Carnation.

CENTRALIA—$1,000,000, plus $70,000 by levy—New junior high school, elementary school reconstruction. Bond issue will finance junior high school in western part of the city. Levy is for consolidation of two grade schools and reconstruction work. State matching funds of $360,000 will be added to the total. Junior high school will consist of four separate buildings, all one-story with poured concrete, frame walls, concrete slab floors, timber girders, beams, columns; glued laminated roof; plaster interior wall finish; concrete exterior. Units will include two general classroom sections, vocational shops and physical education. Centralia School District No. 410, 415 W. Fear St., Centralia; architect, William Arild Johnson & Asociates, First National Bank Building, Everett.

*CHEHALIS—$125,000—City hall construction. City Council, City Hall, Chehalis.

CLARKSTON—5-mill levy — School construction. Clarkston School District No. 250.

COLTON—Est. $25,000—Vocational agriculture shop. Building fund of $8,000, plus the estimated $25,000 from 8.3 mill special levy will finance building. Shop is one-story with steel, rigid frame walls, corrugated sheathing walls and roof. Colton School District No. 306, Joe Reisenauer, clerk, Colton; architect, McClure & Adkison, N. 108 Washington St., Spokane. **Contract awarded to General Machinery Co., Spokane, $29,516.**

*CONCRETE—$220,000—School construction. Concrete School District No. 102, Concrete.

CONNELL—$43,000—Renovation and bus garage. Levy for $24,000 will finance renovation expenses in the district; $19,000 will pay for construction of bus garage and maintenance building. Connell School District No. J51-162, Connell.

*DARRINGTON — $172,000 — High school. New high school will be built on five-acre site adjoining Community Center land. Application for state funds will be made. Darrington Consolidated School District No. 330, Harry Edwards, superintendent, Darrington.

*DES MOINES — $60,000 — Fire station. Bond issue will finance construction of fire station and equipping it. King County Fire District No. 26, Seattle.

ELTOPIA — $10,900 — Help finance school construction. Money will come from 12-mill levy. Addition to elementary school will include eight classrooms and multi-purpose unit. Building will be one-story with tilt-up concrete walls, glued laminated arches in multipurpose room, glued-laminated beams in classrooms. Eltopia School District No. 15, Franklin County, Everett Jones, district clerk, Eltopia; architect, Charles A. Baylon & Associates, 912 Elliott Ave. W., Seattle. **Working drawings underway; bids to be called early in 1957.**

*ENUMCLAW—$70,000—Farm shop addition. Enumclaw School District No. 216, 2222 Porter St., Enumclaw.

*EPHRATA—$86,500—New library. Plans call for one-story and basement structure, concrete block and brick walls, built-up roof and concrete slab floors. Building will be designed to handle 60,000 volumes. City Council, City Hall, Ephrata; architect, John I. Mattson & Associates, Lowman Building, Seattle. **Plans underway.**

FORKS—$400,000—Additions at elementary and high school. Improvements will include $150,000 combination shop, science, home economics and band room building, a $175,000 physical education building, $75,000 addition to Forks Elementary School. Additions are wood frame with laminated beams, plaster walls, acoustical tile ceilings. Quillayute Valley School District 402, Forks.

Continued on page 39

PACIFIC ARCHITECT AND BUILDER

Cumulative Index of Editorial Content

Volume 62

January through December 1956

Design: Buildings

Residential

Bellevue, Wash., Frank E. Hodge residence—Dale D. Pedersen, architect ... March 10
Bellevue, Wash., A. O. Strandberg residence—Mithun & Nesland, architects ... January 10
Carmel, Calif., Dr. Ernest Nelson Moore residence—Anshen & Allen, architects ... January 16
Fullerton, Calif., Midland Properties builder house—Palmer & Krisel, architects ... April 16
Gravelly Lake, Wash., David M. Johnson residence addition—Alan Liddle, architect ... September 14
Los Angeles, award-winning apartment house—Carl Louis Maston, architect ... November 16
Medina, Wash., John Rushmore residence—John Rushmore, architect ... December 14
Mercer Island, Wash., builder house for E. B. Vaughters—Seth M. Fulcher, architect ... October 22
Mill Valley, Calif., Donn Emmons residence—Wurster, Bernardi & Emmons, architects ... August 14
Sausalito, Calif., Norman Hodgkin residence—Corlett & Spackman, architects ... March 18
Seattle, Skyline House, award-winning apartment building—Durham, Anderson & Freed, architects ... November 14
Spokane, Wash., John G. F. Hieber residence—Warren Cummings Heylman, architect ... June 22
Tigard, Ore., Richard A. Carlton residence—Charles Gilman Davis, architect ... July 16

Religious

El Monte, Calif., Church of the Nativity—Chaix & Johnson, architects ... March 14
Los Angeles, Calif., Mormon Temple—Edward O. Anderson, architect ... April 10

Commercial and Industrial

Apple Valley, Calif., Bank of Apple Valley—McFarland, Bonsall & Thomas, architects ... May 27
Beverly Hills, Calif., 8820 Wilshire Building (office)—Absmeier, O'Leary & Terasawa, architects ... August 10
Beverly Hills, Calif., UAW-AFL office building—W. Harry Hillier, architect ... March 17
Corte Madera, Calif., Marin Joe's Restaurant—Mario L. Gaidano, architect ... February 10
Fullerton, Calif., Arcadia Metal Products offices and plant—A. Quincy Jones and Frederick E. Emmons, architects ... December 16
Los Angeles, Pacific Mercury Television Manufacturing Corp., factory—Ulrich Plaut, architect ... July 14
Portland, Palaske's Hillvilla Restaurant—Robert K. Grubb, designer ... April 14
Portland, Pierre's (women's specialty shop)—Holman J. Barnes, architect ... September 20
San Francisco, advertising headquarters (remodeling)—Bruce E. Heiser, architect ... September 19
San Francisco, Fior d'Italia Restaurant—Mario L. Gaidano, architect ... February 11
San Francisco, Mannings, Inc., cafeteria—William B. McCormick and Harry John Dutton, architects ... July 18
San Jose, Calif., Macy's Valley Fair (unit in shopping center)—Victor Gruen & Associates, architects ... October 18
Santa Barbara, Calif., Miramar Convention Center (remodeling)—Lutah Maria Riggs, architect ... September 15
Seattle, Metropolitan Federal Savings and Loan Association (offices)—LaMonte J. Shorett, architect ... February 16
Seattle, Phil Youdene Co. drive-in showroom for fabrics—LaMonte Shorett, architect ... September 18
Springfield, Ore., Springfield Cleaners (remodeling)—Donald H. Lutes, architect ... September 17
Tacoma, Wash., National Bank of Washington, Industrial Branch—Robert Billsbrough Price, architect ... August 22
Yakima, Wash., Lou Johnson's apparel shop—Thomas F. Hargis Jr., architect ... March 16

Health Facilities

Eugene, Ore., Eugene Hospital and Clinic addition—Balzhiser & Seder, architects ... January 14
Retsil, Wash., Washington State Veterans' Home—Victor N. Jones & Associates, architects ... May 16
San Francisco, medical office building—Ward Thomas, architect ... May 25

Public Buildings

Los Angeles, Police Administration Building—Welton Becket & Associates and J. E. Stanton, architects ... May 10

Educational

Loma Linda, Calif., Library and Administration Building College of Medical Evangelists—Earl T. Heitschmidt, architect ... January 11
Los Angeles, Calif., University of Southern California—Kappa Alpha Fraternity House and Kappa Alpha Theta Sorority House—Albert C. Martin & Associates, architects ... February 14
San Mateo, Calif., Hillsdale High School—John Lyon Reid & Partners, architects ... June 18

Architect's Offices

Kalispell, Mont., Weed & Fehlberg ... January 28
Seattle, Grant, Copeland & Chervenak ... April 35

Other Articles

Design and the Profession

Architects and speculative builders: a need for both—Richard Waller ... March 4
Architecture unlimited—Edgardo Contini ... November 18
Integration of the arts in architecture—Joe Young ... May 15
Role of architectural school outlined by director of the School of Architecture, University of Washington ... May 35
Role of the architect in the community—Arthur F. O'Leary ... October 4
Tacoma architecture ... August 18
The architec as artist—Dr. Stephen C. Pepper ... December 12

City Planning and Urban Redevelopment

Palo Alto, Calif., looks at its downtown ... October 8

Power substations integrated into the neighborhood—October 20
What's the matter with down town?—Frank Emery Cox
Whither urban (re)development?—January 20
Northwest's Urban Development Conference—April 18
Victor Gruen's plan for a city center
Life in a traffic jam as seen by a New Yorker

Building Methods

Civil Defense control center (Portland)—Edmundson & Kochendoerfer, architects, and Evan R. Kennedy, engineer—November 24
Corrugated aluminum sheeting applied on steel frame without scaffolding (Kaiser Gypsum Co. storage warehouse, Long Beach, Calif.)—May 33
How a contractor beats Old Man Winter with portable gas furnaces and plastic covered framework (high school, Missoula, Mont.)—March 21
Mobile outriggers on crane speed up tilt-up wall construction (W. T. Grant Co. store, Eugene, Ore.)—February 20
Precast floors help make a fast pour (Everett Medical-Dental Building)—October 31
Prestressed concrete (Industrial Branch, National Bank of Washington, Tacoma, Wash.)—August 22
Sectional shoring—here's what they're doing—September 28

Product Development

Eichler Homes X-100 is steel showcase (San Mateo, Calif.)—September 10
Monsanto's house of tomorrow for Disneyland—September 10
Ceramic mosaics put on a good front—November 28
Daylighting with new kind of functional skylight—June 21
How red cedar shingles are made—August 38
Moving sidewalks and the modern shopping center—A. E. Conover—March 20
Porcelain enamel (architectural primer)—J. G. Terry—February 18
Steel framed houses get push in Far West—May 32

Home Building Aids

Climate control for builder's subdivision (Rollingwood, Calif.)—July 28
Fox Nailer—talks with contractors by Glenn M. Canaday—January 25
How do you like your concrete slab: brick or tile?—June 32
Recreational unit to serve variety of purposes—July 28
Room divider can be practical and aesthetic asset—January 18
Tubular steel bar used by builder to haul long lumber—February 20

News Articles

AIA honors West Coast projects in annual competition for outstanding American architecture—June 10
AIA, Oregon chapter cites four buildings in first design competition—July 11
AIA, Washington State chapter, annual Honor Awards competition cites five Seattle area projects—July 10
AIA, Washington State chapter, gets new executive secretary—January 28
Air Force Academy, Colorado Springs, to let first construction contract—September 8
Alameda, Calif., one of world's largest dredges pumps fill for Bay area shopping center—July 29
Architects help design first push-button surgery suite—November 40
Architectural preview—Oregon's School of Architecture, Eugene—Annand, Boone & Lei and Sidney W. Little, architects—May 28
Architectural preview—Olympic Hotel addition, Seattle—April 32
Bond issues approved by Northwest voters—December 33
Architectural traveling exhibit—early California architecture—December 10
Construction Materials Center, San Francisco, starts expansion—August 34
Finish architectural exhibit tours West Coast—July 8
Gove, George, FAIA, dies—September 7
IBM's coastwise expansion—June 24
Idaho school district tries pay-as-you-go plan—January 18
Los Angeles to get construction center—September 8
NAHB regional vice presidents headed by John A. Jacobson—April 28
NAHB reports on its air conditioned village—July 30
Portland, International Airport Terminal building—Burns, Bear, McNeil & Schneider, architects—February 8
Pumice block school house, Fort Rock, Ore.—August 35
Reynolds Metals Co. marks publication of two volume work, "Aluminum in Modern Architecture"—November 7
San Francisco selects Hall of Justice site—August 35
San Mateo, Calif., Hillsdale shopping center features Bufano's statuary—December 8
Sunset magazine headquarters at Menlo Park, Calif. named western winner in industrial landscaping competition—September 8
Tacoma shopping center to be one of largest in Northwest—Thomas Albert Smith, architect—December 8
Welded girders for Rose-Derry Co. plant in Los Angeles—August 39
West Coast architects judge competition in Turkey—October 28
West leads nation in housing activity during 1955, nonfarm housing starts in relation to population—February 24
What makes split-level house really split?—June 36
Yellowstone Park expands facilities—October 8

Conferences and Conventions

AIA 88th annual convention, Los Angeles—June 12
AIA, Northwest Regional Council annual conference—October 11
CAA annual convention, Yosemite—November 10
NAHB annual convention, Chicago—April 24
Urban Redevelopment Conference, Tacoma—April 18
Washington statewide school building conference—October 32
Women's Congress on Housing—November 8

Editorials

About FLW and his 'awesome needle'—November 4
A look at urban redevelopment; remodeling the architect's ivory tower—Robert W. Evans—April 8
An architect's report: White House conference on education—Henry L. Wright—February 4
California: architectural grab bag—Donald Beach Kirby—May 8
What speculative home builders expect of architects—Edward P. Miller—January 4

Authors

Adler, Mortimer—Some philosophical questions about design—August 12
Burchard, John Ely—Architecture for the good life: Part 1—June 15
Part 2—July 20
Canaday, Glenn M.—Straight from the shoulder talks with contractors: The Fox Nailer—January 25
Chatelain, Leon Jr.—A message for students—July 4
Conover, A. E.—Moving sidewalks and the modern shopping center—March 20
Contini, Edgardo—Architecture unlimited—November 18
Cox, Frank Emery—Honky tonk and donkey dust: what's the matter with down town?—January 20
Cox, Frank Emery—The big shopping center question mark—October 13
Cummings, George Bain—A definition of the good life—August 31
Eckbo, Garrett—Design and the landscape in which we live—September 12
Frisch, Max—Why don't we have the cities we need?—August 30
Heitschmidt, Earl T.—Library and Administration Building, College of Medical Evangelists, Loma Linda, Calif. (analysis of own design)—January 11
Karolevitz, Bob—If Ben Franklin were in the building business—January 8
Karolevitz, Bob—Village living keynotes veterans' home expansion (Retsil, Wash.)—May 16
O'Leary, Arthur F.—Role of the architect in the community—October 4
Pellegrini, Angelo M.—Behind the awards there is a people and a way of life—June 8
Pepper, Dr. Stephen C.—The architect as artist—December 12
Price, Robert Billsbrough—A plea for design: our very best—September 4
Terry, J. G.—Architectural primer for porcelain enamel—February 18
Waller, Richard—Architects and speculative builders: a need for both—March 4
Young, Joe—Integration of the arts in architecture—May 15

Construction News Bulletin

Vol. 62—No. 26 (PA&B) News Section of Pacific Architect and Builder December 15, 1956

D. F. McCormick ..... News Editor
G. M. Westman ..... News Staff
Win Romtvedt ..... Portland News Manager
S. S. Phillips ..... News Staff

Newsroom • 2418 Third Avenue, Seattle 1, Washington • Phone MAin 0285

BUILDING NEWS

Washington, Oregon, Idaho, Montana, Wyoming, Utah, Alaska

- ● Bids Called
- ★ Contract Awards
- ▲ Low Bids—Bids Received
- ■ Planholders—Prospective Bidders

OREGON

■HIGH SCHOOL EXPANSION— Albany, Ore.

Additional planholders announced for addition to Albany High School. Bids to be opened 8 p. m., December 20, by School District No. UH-8, Linn County, John Cox, clerk, Albany High School, Albany. Plans with Annand, Boone & Lei, architects, 1530 S.W. Taylor St., Portland. No deposit.

Additional planholders: Thomas E. Gates & Son, 120 Oak Lane, Lebanon; Starr Builders, 1765 S. Main St., Lebanon; Donald W. Knight, Route 4, Box 306, Albany; George Irwin, Canby; Hampton C. Platt, P.O. Box 27, Salem; George Moore & Associates, 923 S.W. 17th Ave., Portland.

WB 12-12. Previous report 12-10

■GRADE SCHOOL ADDITION—Aloha, Ore.

Planholders announced for addition to Beaver Acres School, S.W. 170th St., west of Beaverton. Bids to be opened 8 p.m., December 19, by School District No. 107, Washington County, Ethel Parr, clerk, Aloha-Huber Grade School, 1770 S.E. Blanton St., Aloha. Plans with Anand, Boone & Lei, architects, 1530 S.W. Taylor St., Portland. No deposit.

Planholders: Blanchard Construction Co., 2546 S.W. Vista Ave.; Harry G. Johnson, 7117 S.E. Main St.; A. C. Bardi, 8105 S.E. Duke St.; Sterner Construction Co, 13845 S.E. Rhine St.; Weston Construction Co., 7415 N.E. Glisan St.; Reinhardt Bros., 7635 S.W. 82nd Ave.; Heigele Home Construction Co., 4034 N.E. 18th Ave.; Allen C. Lawson, 2520 S.W. Hamilton Court; Fred W. Carter Co., 6034 N.E. 60th Ave.; Charles S. Campian, 2035 S.W. 58th Ave.; Barnard & Kinne, 4200 S.W. 103rd Court, Beaverton; Adolph Mohr & Co., Peterson Bldg., Hillsboro. Of Portland except as noted. WB 12-12. Previous report 12-1

NEW HIGH SCHOOL— Beaverton, Ore.

Tentative floor plan approved by Union High School District No. 10Jt., Washington County, D. Herbert Armstrong, superintendent, Beaverton, for new high school adjacent to Sunset Valley School. Plans by Freeman, Hayslip, Tuft & Hewlett, architects, 2040 S.W. 3rd Ave., Portland. School to have 56 teacher stations, and capacity of about 1500 students. Five-year tax levy of $450,000 was approved last June to construct first unit of school.

WB 12-4. Previous report 7-10

★HEATING SYSTEMS— Bonneville, Sandy, Ore.

Award to Iron Fireman Manufacturing Co., 3205 S.E. 13th Ave., Portland, $16,032, by Oregon State Fish Commission, 307 State Office Bldg., Portland, for furnishing and installing heating systems at Sandy River Salmon Hatchery, near Sandy, and a Bonneville Salmon Hatchery, Bonneville.

WB 12-12. Previous report 11-15

●RESIDENCE— Cave Junction, Ore.

Bids to be opened 10 a. m., December 21, by U. S. Forest Service, Frank Walisch, regional supply officer, 729 N.E. Oregon St., Portland, for construction of three-bedroom residence at Cave Junction, Josephine County, Oregon, Siskiyou National Forest. Plans with regional supply officer, or Supervisor, Siskiyou National Forest, Post Office Bldg., Grants Pass, Ore. WB 12-11

▲HEATING SYSTEM RENOVATION— Charleston, Ore.

Bids received by 13th Coast Guard District, room 922, 618 2nd Ave., Seattle, for repair and renovation of heating system at the U. S. Coast Guard Coos Bay Lifeboat Station, Charleston, Ore.; Bid No. FS-1506. BIDS: Bay Area Plumbing and Heating Service, 303 S. Broadway, Empire, $2,007; Bick Plumbing and Heating Co., 135 Curtis Ave., Coos Bay, $2,129; Chambers Heating Co., Inc., 282 S. 2nd, Coos Bay, $2,159. Bids opened December 11.

GW 12-12. Previous report 11-27

★GRADE SCHOOL ADDITION— Coos Bay, Ore.

Award to C. W. and Willis A. Hill, 1975 Beach St., Salem, $116,834, by Coos Bay School District No. 9-C, M. B. Winslow, superintendent-clerk, Coos Bay, Ore., for addition to Michigan Grade School. Plans by Stanton, Boles, Maguire & Church, architects, 208 S.W. Stark St., Portland.

WB 12-8. Previous report 12-1

FRATERNITY HOUSE— Corvallis, Ore.
(Estimated cost $90,000-$100,000)

Working drawings under way by Donald B. Parks, architect, 229 Governor Bldg., Portland, on Phi Kappa Psi fraternity house at 13th and Jackson streets in Corvallis. Bid call expected in January. Two-story dormitory wing with study area on one side and sleeping area on the other; dining room-living room-kitchen wing has basement area for recreation, chapter rooms, storage, housemother's room. Frame construction except brick cavity walls on either end of dormitory wing; laminated and solid beam ceilings in living room and dining room; flat, pitched roof; clerestory lighting in dining-living wing; parking area. House to accommodate 54 men. WB 12-8

●SCHOOL ADDITION— Creswell, Ore.

Bids will be opened 8 p. m., December 27, by Creswell School District, Creswell, for a six-classroom addition to the Creslane grade school in Creswell. Plans with Wilmsen & Endicott, architects, 863 E. 13th Ave., Eugene.

Frame construction; concrete slab floor; board and batten siding; built-up composition roofing; asphalt tile flooring; plywood; interior walls; fiberglass ceiling boards; skylights; blackboards, tack boards; millwork and cabinets; painting; unit ventilators connected to existing hot water heating system.

DW 12-11

HIGH SCHOOL— Elgin, Ore.
(Estimated cost $325,000)

Working drawings starting by Freeman, Hayslip, Tuft & Hewlett, architects, 2040 S.W. 3rd Ave., Portland, for high school for School District No. 23, Union County, Elgin. Plans to be complete early in March.

WB 12-6

★TELEPHONE BUILDING— Estacada, Ore.

Award to Sterner Construction Co., 13845 S.E. Rhine St., Portland, $44,005, by Estacada Telephone & Telegraph Co., Floyd W. Day, president, Estacada, for central office telephone building. Plans by W. W. Halsey, designed. 7152 S.W. 35th Ave., Portland. Construction started December 3.

WB 12-12. Previous report 11-16

ADMINISTRATION BUILDING— ADDITIONS— Eugene, Ore.
(Estimated cost $1,300,000)

Revised preliminary plans have been approved by Oregon State Board of Higher Education, Dr. John Richards, chancellor, Johnson Hall, Eugene, for additions to Johnson Hall on the University of Oregon campus. Previous plans were only for administration wing addition; office wing addition for use of faculty is now planned. Plans by Hollis Johnstone, architect, 603 Concord Bldg., Portland. Construction subject to approval by 1957 Oregon Legislature.

WB 12-8. Previous reports 9-15 and 11-5-55

ARMORY, ROTC BUILDING—Eugene, Ore.
(Estimated cost $918,000)

Preliminary plans have been approved by Oregon State Board of Higher Education. Dr. John Richards, chancellor, Johnson Hall, Eugene, for an armory and ROTC building to be added on to men's physical education building at the University of Oregon. Further plans pending action of 1957 Oregon Legislature. Included in additions to the physical education building will be a swimming pool (Estimated $344,000), which is also pending legislative approval. Wick & Hilgers, 909 Portland Trust Bldg., are architects for the latter. Hollis Johnstone, 603 Concord Bldg., Portland, is architect for the armory and ROTC additions.

WB 12-8. Previous reports 9-15 and 2-1

★BUILDING DEMOLITION, REMOVAL— Eugene, Ore.

Award to Inter-City Sand & Gravel Co., 3698 Franklin Blvd., Eugene, $9,990, by Lane County Commissioners, Courthouse, Eugene, for the demolition and removal of all structures and appurtenances on the property located in the quarter block to the north of the present courthouse at Eugene. Plans by Wilmsen & Endicott, architects, 836 13th Ave. E., Eugene.

SP 12-8. Previous report 11-29

RESERVE TRAINING CENTER— Eugene, Ore.

The City of Eugene has optioned a tract of land at the corner of 13th and Chambers in Eugene to the U. S. Army for a site for a new 200-man reserve training center. Construction date is unannounced. Army reserve advisor is Major L. J. Chase, 970 Monroe, Eugene. DW 12-6

SAVINGS AND LOAN BUILDING— Hillsboro, Ore.

Preliminary plans underway by Logan & Murtaugh, architects, 1940 S.W. 4th Ave., Portland, for new quarters for Washington Federal Savings & Loan Association, Alf Johnson, executive vice president, 3rd and Main streets, Hillsboro. Existing structure to be wrecked, with bid call expected in a few weeks. New one-story structure to house the association and one tenant. Bid call expected about February. WB 12-12

FAMILY HOUSING— Klamath Falls, Ore.
(Estimated cost $5,280,000)

Plans will be complete by January 28, 1957, for construction of 220 family housing units to be located in the Miller Hill area, about 2½ miles southwest of the Klamath Falls Municipal Airport, near Klamath Falls, for U. S. Air Force, Klamath Falls AFB. Plans by Howard R. Perrin, architect, 1121 Main St., Klamath Falls. Bids will be called for opening about March 15 for 220 units. An adidtional 100 units have been unofficially approved and will be constructed under a separate contract.

ZZ 12-5. Previous report 10-13

SAWMILL FIRE— Junction City, Ore.

The Charles F. Johnson sawmill, two miles south of Junction City, was heavily damaged by fire on December 6. A planing mill in a separate building was saved but the main mill was gutted. A loss estimate has been withheld pending a complete survey of the damage. SC 12-11

HIGH SCHOOL ADDITION— Milwaukie, Ore.
(Estimated cost $200,000-$250,000)

Plans nearly complete by Freeman, Hayslip, Tuft & Hewlett, architects, 2040 S.W. 3rd Ave., Portland, for addition to high school now under construction on Lake Road and Webster Road, Milwaukie, for School District No. U.H. 5, Clackamas County, Fred F. Paulson, clerk, Superintendent's Office, Milwaukie. Frame construction with brick veneer. WB 12-6. Previous report 7-3

NURSING HOME— Mt. Angel, Ore.
(Estimated cost $300,000)

Preliminary plans nearly complete and bids will be called in February for construction of the Benedictine Sisters Nursing Home, to be located on the Silverton Road adjacent to the Benedictine convent property in Mt. Angel. Plans by Louis Schmerber, architect, 3085 N. River Road, Salem; One-story; reinforced concrete construction; concrete block walls; brick and stone exterior finish; built-up roofing; forced hot water heating system. SC-12-5

★PARISH BUILDINGS— Oswego, Ore.

Award to A. N. Minden Co., 11320 N.E. Marx St., Portland, approximately $1,000,000, by the Sisters of St. Francis, Mother Mary Agnes, Provincial, Convent of Our Lady of Angels, 0858 S.W. Palatine Hill Road, Oswego, for construction of four parish buildings, chapel, refectory, gymnasium, and chaplain's residence in Oswego. Plans by John W. Maloney, architect, 754 Central Bldg., Seattle, Wash.

WB 12-11. Previous report 11-23

● SAW REPAIR SHOP— Portland, Ore.

Bids to be opened 3 p. m., December 21, in office of Leslie Poole, engineer, 301 Royal Bldg., Portland, for construction of shop building for Saw Repair & Supply Co., 1037 S.E. Ash St., Portland. Plans with engineer.

Structure, 50'x75', to be located on S.E. 7th Ave. between Mill and Market streets, will include area for filing and repairing saws, and small display area for hardware. Tilt-up concrete construction; concrete floor on grade; bow-string trusses with wood roof and built-up roofing ;wood overhead door; steel entrance door; some plate store front windows; partitions will not be installed in this contract, except for one toilet room which will have stud walls with sheet rock.

WB 12-11

▲ADDITIONAL POWER SERVICE— Portland, Ore.

Bids received by Corps of Engineers, Seattle District, 4735 E. Marginal Way, Seattle, for construction of additional power service, A. C. & W. building at the Portland International Airport, Portland, Ore.; ENG-45-108-57-66. LOW BID: Emory & Bohm Electric Co., 516 N.W. 14th, $3,445. ONLY OTHER BID: Owen & McIntyre Construction Co., Oregon Shipyards, $3,885. Both of Portland. Engineer's estimate, $4,300. Bids opened December 10. GW 12-11. Previous report 11-13

●■ UNION BUILDING— Portland, Ore.

Bids will be opened 2 p. m., January 3, in office of Dougan & Heims, architects, 401 Royal Bldg., Portland, for construction of building at S.W. 12th Ave. and Market St. for International Union of Operating Engineers, Labor Temple, Portland. Select list of bidders.

PLANHOLDERS: Charles Camplan, 2035 S.W. 58th Ave.; Juhr & Sons, 1339 S.E. Gideon St.; Vincent Raschio, 7231 S.E. Clay St.; E. E. Settergren, 3723 S.E. 21st Ave.; A. B. Taylor, 3534 N.E. Klickitat St.; William Wechner, 214 N. Russell St.; H. A. Starr, 2425 N. Commercial St.; Anfelt B. Hansen, 4115 S.E. Ogden St.; C. M. Corkum, 2630 S.W. 2nd Ave. Of Portland.

Main floor, 60'x94' includes assembly hall, offices, call room, lounge and toilet facilities; basement 50'x60'. Masonry construction; frame interior partitions; glued laminated beam roof with 3" hemlock decking; bonded roofing; plaster wall finish; asphalt tile and some terrazzo flooring; baseboard heating and ventlating system.

WB 12-8. Previous report 11-28

ADMINISTRATION BUILDING— Portland, Ore.

(Estimated cost $30,000)

Construction half completed by James Miller, 1814 S.E. 7th Ave., Portland, on administration building for Skyline Memorial Gardens, Equitable Bldg., Portland, at the gardens, one mile north of Thompson Road on Skyline Blvd. Plans by Hollis Johnstone, architect, 603 Concord Bldg., Portland.

Executive offices on first floor; bookkeeping department in basement; chapel to be added later. Frame construction with brick veneer; shingle roof; wood sash; plaster and some black walnut panelling on interior walls; acoustical tile ceilings; asphalt tile flooring in basement; carpeting and cork flooring upstairs; incandescent and fluorescent lighting; oil-fired, warm air perimeter heating. WB 12-8

INDUSTRIAL OFFICE BUILDING— Portland, Ore.

Construction underway by owner-builder, James A. C. Tait & Co., 316 S.E. Madison St., for industrial office building at their batching plant site at S.E. 4th Ave. and Ivon St. Plans by Richard Marlitt, architect, Concord Bldg., Portland. Penn Mutual structural steel to be furnished in prefabricated sections by Portland Wire & Iron Works, 444 S.E. 17th Ave.

One-story structure, 35'x45', with general office, dispatcher's space and private office. Light steel frame, roof and Macomber deck, and rafters and stud walls; stucco exterior; pitched, built-up gravel roof with 4' overhang; stucco soffits; plaster interior; concrete slab floor poured on existing concrete; Soule steel industrial sashh; gas - fired hot water perimeter heating; incandescent lighting. WB 12-8

DENTAL BUILDING— Portland, Ore.

Construction underway by Wechner Construction Co., 214 N. Russell Ave., Portland, on a dental building for Dr. Sam Lee at S.E. 52nd Ave. and Mitchell St. Bids were opened last July, but start of construction was delayed until November. Plans by Dougan & Heims, architects, 401 Royal Bldg., Portland.

One-story and basement structure to house two dentists; brick veneer exterior; hot air heating; asphalt tile flooring; composition roofing; off-street parking.

WB 12-7. Previous report 7-12

REMODEL YMCA— Portland, Ore.

Working drawings under way by Wick & Hilgers, architects, 909 Portland Trust Bldg., Portland, for remodeling at Northwest Branch, Young Men's Christian Association, 1630 N.E. 38th Ave. Bid call to be issued about mid-January. Plans are being prepared for a new kitchen, increase in club-room space, new flooring, new entrance lobby, and painting, but part of the work may be delayed until a later time. WB 12-7

SCHOOL ADDITION— Portland, Ore.

Working drawings starting by Wick & Hilgers, architects, 909 Portland Trust Bldg., Portland, for addition to John Jacob Astor School at 5601 N. Yale St. Bid call to be issued about April by Portland School District No. 1, L. J. Baker, business manager, 620 N.E. Halsey St., Portland.

Addition of 10 classrooms, cafetorium, gymnasium, home economics room, industrial arts room, student lavatories, music facilities and expanded heating plant. Concrete slab floor on grade; frame construction, except reinforced concrete gymnasium; built-up roof; aluminum sash; asphalt tile flooring; plaster wall finish; acoustical ceilings; ceramic tile in showers and toilet rooms; fluorescent lighting; unit ventilators in classrooms; convectors in cafeteria and gymnasium; equipment to be furnished by school district.

WB 12-7. Preivous report 11-8

SAFEWAY STORES— Portland, Ore.

Preliminary plans under way by Max P. Williams and Robert B. Martin, architects, 1919 S.W. 12th Ave., Portland, for new Safeway Stores at Roseburg, Medford, Portland (47th Ave. and E. Burnside St.) and Baker. No dates have been set for start of construction. Bids will be called by Bramwell Construction Co., division of Safeway Stores, Inc., 1208 S.E. 7th Ave., Portland. WB 12-4

REAL ESTATE OFFICE— Portland, Ore.

Site on west side of Barbur Blvd., between S.W. Viewpoint Terrace and Hamilton St., acquired by Ward Cook, Inc., 7386 S.W. Barbur Blvd., for new west side realty and mortgage loan office. Office will move to the site temporarily; construction of permanent building expected to start this spring. WB 12-5

HISTORICAL MUSEUM— Portland, Ore.

Site at S.W. Park Ave. and Jefferson St. acquired by Oregon Historical Society, Davis T. Mason, president, 235 S.W. Market St., Portland, for a museum and library. Funds for the site building being raised by private subscription. WB 12-5

(Continued on page 42)

BOND ISSUES

(Continued from page 34)

architect, William Arild Johnson & Associates, 3506 Broadway, Everett. **Contract for addition to elementary school, vocational unit and high school gymnasium awarded to DelGuzzi Bros., Port Angeles, $255,000, and Lent's Inc., Bremerton, $122,980.**

*DEMING—$200,000—Industrial arts building addition. Funds also will be used for enlargement of the Deming grade school for use by handicapped children, remodeling administration offices, a warehouse and board room. Mount Baker School District, William I. Castles, superintendent; architect, Galen Bentley, 1130 State St., Bellingham.

HOCKINSON — $39,324 — Classroom addition. Money will finance part of the construction and equipping of classroom addition to Hockinson School and Hockinson's share toward capital improvements at Battle Ground High School. Hockinson School District No. 98.

*KALAMA—$325,000 — Physical education and music building. Gymnasium will have main floor seating space for 963 spectators with additional balcony space which can be converted to seating space later. Kalama School District No. 402, Kalama; architect, Freeman, Hayslip, Tuft & Hewlett, 2040 S.W. 3rd Ave., Portland. **Bids will be called about January 15. Construction will start early in 1957.**

KENNEWICK — $500,000 — Junior high school—Bond issue, plus state matching funds and district money already on hand will finance $1,600,000, 28-classroom school building. Benton County School District No. 17, Edward F. Bloom, superintendent, 500 S. Dayton St., Kennewick. **Construction to be completed for 1958 fall term.**

KENT—$600,000 and $120,000 special levy—New buildings and additions. Bond issue will provide matching funds for school sites, buildings and equipment. Special levy is for construction of administration office, bus storage area and central kitchen. Kent School District No. 415, 9800 Kent-Black Diamond Rd., Kent; architect (for new junior high school), Waldron & Dietz, 215 Eighth Ave. N., Seattle. **Bids to be called early in 1957 for junior high school.**

*KETTLE FALLS—$40,000—High school. Money will provide additional amount needed to cover construction costs of new high school at Kettle Falls. The $375,000 building will be one-story block and brick construction with steel beams and pipe columns to support roof in classroom wing. Plans call for portable interior wall partitions. Works also will include a gymnasium wing and separate vocational agriculture building. State Consolidated School District No. 196, Elmer E. Dubes, superintendent, Kettle Falls; architect, Culler, Gale, Martell & Norrie, Realty Building, Spokane. **Bid call expected soon with opening date about January 16.**

*KIRKLAND—$975,000—Additions. Money will finance high school additions, three elementary additions, a junior high school addition and other work. Lake Washington School District No. 414, Box 188, Kirkland.

*LA CONNER—$75,000—Completion of alterations and additions at high school. La Conner School District; architect, Grant, Copeland & Chervenak, 420 E. Howell, Seattle. **Construction now underway by Sanford Wright, Everett.**

MARYSVILLE—$450,000—Physical education plant—Special levy. School District No. 25, C. M. Butters, chairman, Marysville.

*McCLEARY — $37,161 — Building fund. Special levy. McCleary School District No. 106.

*MERCER ISLAND—$700,000 and $135,000 levy—Junior high school and other work. Bond issue is for Lakeview Junior High School and site purchases and 13-mill levy is for building and site funds. Mercer Island School District No. 400, King County, Robert S. Studebaker, superintendent, Box 215, Mercer Island.

*MORTON—$80,000—High school. Money will finance completion of new Morton High School. Construction is campus type now underway by K. T. Henderson Construction Co., of Longview under a $500,000 negotiated contract; Morton School District No. 214-R, Lewis County; architect, William Arild Johnson & Associates, First National Bank Building, Everett.

*MOSSYROCK—$433,000—High school and gymnasium. One-story building will have 30,000 sq. ft. space. Mossyrock School District No. 206; architect, William Arild Johnson & Associates, First National Bank Building, Everett. **Bids will be called in spring.**

MOUNT VERNON — $670,000 — Hospital. Money will come from two bond issues and federal government for construction of 65-bed hospital at 15th Street in east end of Mount Vernon. Building will be two-story with reinforced concrete walls, concrete slab floors, plaster interior wall finish, asphalt tile flooring. Public Hospital District No. 1, Skagit County, City Hall, Mount Vernon; architect, John W. Maloney, 754 Central Bldg., Seattle. **Bids received late in November; low bidder Elford Construction Co., Bellingham, $934,444.**

NEWPORT—$230,000—Hospital. The 25-bed hospital is estimated at $350,000, with 40% of cost paid by federal government. Building will be one-story with fire-resistant masonry walls. Hospital District No. 1, Pend Oreille County, Harold Richards, chairman, Newport; architect, McClure & Adkison, N. 108 Washington St., Spokane. **Preliminary plans approved by Washington State Board of Health.**

*OPPORTUNITY—$800,000 — Elementary schools and junior high. Funds will finance construction of 18-classroom elementary school at 8th and Adams, another one at Broadway and MacDonald, a six-classroom addition to the McDonald School and a junior high school near Sprague and Evergreen streets. Central Valley School District No. 356, 607 Pines Road, Opportunity.

PACIFIC BEACH — $9,500 — Special levy will provide additional facilities in connection with new school now under construction. One-story structure now being constructed by Fraser Construction Co. under $63,954 contract. Pacific Beach School District No. 76; architect, Jensen & Mills, 308 S. Tacoma Way, Tacoma.

*PASCO—$575,000—New junior high school and academic structure for Columbia Basin Junior College. Pasco School District No. 1, 517 N. Third St., Pasco. **Plans and construction are expected to be completed within two years.**

PULLMAN—$300,000 and $136,300 levy—Elementary schools. The 14½-mill levy passed in March, plus bond issue approved in September and matching state funds will finance a building program exceeding $500,000. Work will include eight-room elementary school on Military Hill and $135,000 four-room addition to Franklin Elementary School. Military Hill School will be one-story with 20,000 sq. ft. Franklin School will be one-story with 9,818 sq. ft.; of frame construction with masonry end panels. Pullman School District No. 307, Louis Bruno, superintendent, Pullman; architect, McClure & Adkison, N. 108 Washington St., Spokane; structural engineer, Lyle M. Campbell, 523 Realty Bldg., Spokane, mechanical, Kendall M. Wood & Associates, 228 Hutton Bldg., Spokane; electrical, Joseph M. Doyle, Realty Bldg., Spokane. **Construction expected in spring.**

*PUYALLUP—$180,000—New physical education plant for senior high school. School district has $200,000 from a previous bond issue and expects state matching funds. An additional $120,000 that was to come from a 9½-mill levy was defeated in same election. Puyallup School District No. 3, 605 W. Main, Puyallup.

*PUYALLUP—$35,000—High school shop, bus garage and gymnasium. Firwood School District No. 99, Route 6, Puyallup.

*RANDLE—$150,000—High school addition. Money will finance addition and improvements at White Pass High School. White Pass School District No. 303, Lewis County, R. J. Cebull, superintendent and board secretary, Randle. **Bids will be called this month.**

SEATTLE — $86,630 levy — Boiler alterations, cyclone fencing and other projects. Work is at Showalter and other schools. South Central School District No. 406, 14208 42nd Ave. S., Seattle. **Bids for boiler alterations may be called this month.**

*SEATTLE—$1,165,000 and $890,000 levy. Money will finance construction of new schools, remodeling and site acquisition. Highline School District No. 401, 225 S. 152nd St., Seattle.

*SEATTLE—$950,000 and $225,000 levy—School construction. Shoreline School District No. 412, E. 158th and 20th N.E., Seattle.

*SEATTLE — $7,500,000 — Civic center. Money will finance acquisition of property and construction of two auditoriums for Seattle Civic Center to be located in Civic Auditorium area. City Council, County-City Building.

*SEATTLE—$25,000,000—New high schools and elementary schools and additions. New high school construction includes Southeast Seattle High School, $3,300,000, and Northeast Seattle High School, $3,300,000. Lincoln Franklin and Ballard high schools will be remodeled at estimated cost of $1,000,000; physical education facilities will cost $3,900,000. New elementary schools will include Roxhill, $700,000; Sand Point, $625,000; Sacajawea, $625,000; and Cedar Park, $625,000. Additions include Harrison, $500,000; Pinehurst, $400,000; Arbor Heights, $400,000; and Whitworth, $300,000. For vocational education, a $200,000 second unit will be built at the Rainier Branch, $900,000 spent on grounds improvements, $1,000,000 on improvements to existing school, and $1,000,000 for site acquisition and expansion. Portables and other expenditures will cost $300,000 and improvement district assessments, $175,000. Seattle School District No. 1, Ernest W. Campbell, superintendent, 815 Fourth Ave. N.

*SEDRO WOOLLEY—$148,000—Junior high school. The 17-mill levy will finance purchase of equipment and furnishings for new junior high school now under construction and landscaping. Work now under construction includes four one-story buildings—two academic, one shop and one physical education—under contract to Wick Construction Co., Seattle, $453,700 (general). School District No. 101, Sedro Woolley; architect, Mallis & DeHart, 631 Lyon Bldg., Seattle.

*SELAH—$100,000 (plus $120,000 approved in September)—Junior high school. School District No. 119, Elmo L. Steinke, superintendent, Sunrise Park, Selah; architect, Rothe & Rothe, 807 W. Yakima Ave., Yakima.

*SPANAWAY—$350,000 and $135,000 levy—Junior high school. Bond issue is for construction; levy for equipment. Bethel School District No. 403, Route 1, Box 289-AB, Spanaway; architect, Botesch & Brown, Commerce Building, Everett. **Plans underway.**

*SUMNER — $400,000 and $51,200 levy — Help finance school construction in district. Work will include new high school, $672,000; addition to Maple Lawn elementary school, $160,000; and grand stand, $70,000. High school will be of reinforced concrete construction with built-up roofing. Sumner School District No. 302, C. Willard, superin-

tendent, 1625 Main St., Sumner; architect, Lea, Pearson & Richards, 240 S. Stadium Way, Tacoma. **Bids will be called early in 1957.**

*SPOKANE—$8,000,000—New schools and additions. Work will include three new junior high schools, $4,200,000; completion of technical-vocational school, $1,000,000; additions to John Rogers High School, $600,000; $230,000 six-classroom addition to Ridgeview school; $150,000 12-classroom addition to Linwood School; purchase of school sites, $120,000; $40,000 four-room addition to Lidgerwood School; $60,000 Cooper primary unit; six additional rooms and multipurpose unit at Pratt School, $220,000; $70,000 six-room addition at Comstock School; six-room addition and multipurpose unit at Lincoln Heights School, $220,000; six-room addition and multipurpose unit at Hamblen School, $220,000; $160,000 central service unit; $200,000 for equipment; and $230,000 for other school sites. Spokane School District No. 81, John A. Shaw, superintendent, W. 502 Fourth Ave., Spokane.

*TACOMA — $500,000 — Rehabilitation of Tacoma Stadium. Tacoma School District No. 10, Eighth and Tacoma Ave.; architect, E. J. Bresemann, Perkins Building, Tacoma.

*TACOMA—$850,000—High school remodeling. Work will include new roofing, alterations in administration, music, home economics and science rooms, library and kitchen, new fire escapes, modernized heating and ventilating systems and plumbing, reconditioning of gymnasium and locker rooms, asphalt tile floors, plastering and acoutiscal treatment in auditorium. Tacoma School District No. 10, Eighth and Tacoma Ave.; architect, Lea, Pearson & Richards, 240 S. Stadium Way, Tacoma.

*TACOMA — $324,000 and $67,500 levy — New schools and acquisition of building sites. University Place School District No. 83, 2708 W. Grandview, Tacoma.

TACOMA — $1,195,000 — New elementary schools and addition to high school. Money will finance purchase of two sections of land, construction of $400,000 Star Lake area elementary school to accommodate 360 students; construction of $400,000 Terracene Housing Development elementary school to accommodate 360; and construction of $380,000 addition to Federal Way High School, including shops, music facilities and science laboratories. Federal School District, Tacoma.

*TACOMA—$3,661,000—Complete County-City Building. Building now under construction by Macdonald Building Co., Tacoma, under $4,845,730 contract. Pierce County Commissioners, Jack Sonntag, clerk, Room 206 City Hall, Tacoma; architect, Gordon A. Lumm, 321 S. 11th, Tacoma.

*TACOMA — $650,000 — School building. Clover Park School District No. 400, 5214 Steilacoom Blvd., Tacoma.

VANCOUVER — $1,225,000—Junior college and additions to other schools. Funds will help finance work on new Clark Junior College on former Vancouver Barracks property; addition to Peter Ogden Elementary School; renovations to Fort Vancouver High School; and possible construction of new grade school. Vancouver School District No. 37, Clark County, L. C. Matson, business manager-secretary, 2223 Kaufman St., Vancouver; architect (for junior college), McCoy & Bradbury, 7007 Highway 99-N, Vancouver. **Working drawings under way for junior college. Bid call planned for late winter, 1957.**

*WENATCHEE — $580,000 — Library. Two bond issues, each for $290,000, approved by Chelan County and Wenatchee voters for each government unit's share of library to be built in Wenatchee. Plans call for reinforced concrete building with ground floor serving Wenatchee area and basement set up as central library handling all servicing for branch libraries in county. Chelan County Library Board, Otto Jahns, chairman, North Central Regional Library, 18 S. Mission, Wenatchee.

*WINSLOW—$200,000—Schools. Bainbridge Island School District No. 303, Winslow.

*WOODINVILLE — $109,000 and $45,000 levy. High school expansion. Money will finance expansion at Bothell High School and work at Cottage Lake School; Woodinville School District No. 212. The 27-mill levy is for other building work.

YAKIMA—$130,000 levy—New elementary school and additions. The levy will provide 11-room elementary school, six-room addition at Ahtanium Valley School, addition to house kitchen, cafeteria, stage and auditorium at new high school and shower rooms at three grade schools. West Valley School District No. 208, Harold Griffith, superintendent, Route 4, Yakima; architect, Maloney & Whitney, Larson Building, Yakima.

*YAKIMA—$400,000—Library. Bonds will finance construction of new library to be located at site of existing structure. New building will be two-story with full basement. Yakima Public and Regional Library, Helen Gilbert, head librarian, Third and "A" streets, Yakima; architect, John S. Villesvik and Maurice Smith, associate, 109 N. Third St., Yakima.

*ZILLAH — $40,000 levy — Building fund. Approximately $32,000 will be used for renovations to the old grade school building and purchase of new furniture. School District No. 205, W. Lyndle Moore, Zillah.

OREGON

*ASTORIA—$20,000 levy—Clatsop County library. One-mill tax levy will help finance construction at 10th and Duane streets in Astoria. Project already had $60,000. Cost is estimated at $74,000. Clatsop County Commissioners, Astoria.

BEAVERTON — Estimate $450,000 — First unit of new high school. Tax levy of $450,000 to be assessed over a five-year period. Union High School District No. 10Jt, Washington County, Beaverton; architect, Freeman, Hayslip, Tuft & Hewlett, 2040 S.W. Third Ave., Portland.

*BEAVERTON—$200,000—Municipal Building. One-story 17,300-sq. ft. concrete structure with three main wings will be built on Fifth Street between Hall and Tucker streets at estimated cost of $250,000. Main portion will house city offices, council chambers and police department. Fire department wing, 2,750 sq. ft., will be connected by covered promenade, third section will house library; City, Al Rossi, mayor, City Hall, Beaverton; preliminary plans by architect, James C. Gardiner, 3158 S.W. 87th Ave., Portland. **Working drawings started; bids to be called early in 1957.**

BEAVERTON—$358,000—Addition to Cedar Hills School. Bond election for $58,000 and annual tax levy raising $60,000 each year for five years will finance seven-classroom addition, plus superintendent's office. Addition has reinforced concrete outer walls, stucco exterior finish, frame and wallboard interior partitions. Barnes School District 57Jt, Russell Van Buren, clerk, 295 S. Cedar Hills Blvd., Beaverton; architect, Stokes & Allyn, 205 Hughes Bldg., Portland. **Contract awarded to Reinhardt Bros., Portland, for $116,036 in June.**

CHARLESTON—$15,000—School addition. Money will finance 1,000-sq. ft. addition to Charleston School. Charleston School District, Charleston.

CULVER—$48,000—Elementary school addition. Four rooms will be added to Culver Elementary School and alterations made to the heating plant. Culver School District No. 4, Culver High School, Culver.

DALLAS — $300,000 — Elementary school. Starter unit for 24-classroom school. Immediate construction includes eight classrooms, multipurpose room with kitchen and stage, offices, teachers' room, health room, library, boiler room and storage. Frame construction with brick veneer exterior. School District No. 2, Polk County, Gayle Kreason, clerk, Dallas High School, Dallas; architect, Freeman, Hayslip Tuft & Hewlett, 2040 S.W. Third Ave., Portland. **Contract awarded in October to John M. Steinmuller Jr., Eugene, for $285,815.**

GARDINER—$275,000—Grade school. Ten-classroom school at High Point and Front streets will be two-story structure with multipurpose room, small library, general offices, health room and boiler room. Lower floor will be reinforced concrete construction with brick veneer exterior; upper story, frame. School District No. 9, Douglas County, Wildis Hull, clerk, Gardiner; architect, Freeman, Hayslip, Tuft & Hewlett, 2040 S.W. Third Ave., Portland. **Contract awarded in October to J. M. Steinmuller Jr., Eugene, for $257,834.**

*HERMISTON — $550,000 — New grade school and additions. Bond issue will finance Eastside Grade School, 20-classroom structure, one-story, with multipurpose room and cafeteria. Four classrooms will be added to West Park School. Reinforced concrete construction for both. Hermiston School District No. 14, Umatilla County, Hermiston; architect, Annand, Boone & Lei, 1530 S.W. Taylor St., Portland. **Preliminary plans completed. Construction expected to start early in 1957.**

LEBANON—$11,000—Addition. Money will finance one-classroom addition to three-classroom school at Sodaville near Lebanon. Sodaville School District No. 13, Linn County, Principal, Sodaville School, Lebanon.

MADRAS—$205,000—School construction. First project will be addition to grade school including two classrooms, two toilet rooms, boiler room and supply room. Addition will be frame and brick veneer with built-up roofing, acoustical ceilings and plaster walls. School District No. 509-C, Sophia Lierman, clerk, Madras Grade School, Box 729, Madras; architect, Whitney, Hinson & Jacobsen, 512 Failing Bldg., Portland. **Bids were called in November; low bidder was DeGree Construction Co., Bend, Ore., $110,885.**

MOLALLA—$145,000—Grade school addition. Two bond issues, one in March and one in July, were necessary to finance erection of four new classrooms, completion of two rooms and gymnasium at grade school. Construction will be frame on concrete slab. Molalla Consolidated Grade School District No. 35-C, Clackamas County, Karl R. Treadwell, clerk, New Grade School Building, Molalla; architect, Freeman, Hayslip, Tuft & Hewlett, 2040 S.W. Third Ave., Portland. **Contract awarded to Fred Blomenkamp, Molalla, for $129,434.**

PENDLETON—$1,250,000—New high school. Site of 30-room $2,000,000 school will be at golf course of Pendleton Country Club. Six interrelated units will be constructed on a modified campus plan with capacity for 750 students. Buildings will be one-story, reinforced concrete footings and foundations, prefabricated curtain walls of glass and porcelain enamel; precast prestressed concrete beams, concrete built-up roof, concrete masonry partitions. Umatilla County School District 16-C, Wallace McRea, superintendent, 515 S.W. Fourth St., Pendleton; architects, Culler, Gale, Martell & Norrie, 515 Realty Bldg., Spokane; structural engineer Kenneth P. Norrie; mechanical engineer, Lyle E. Marque & Associates, 208 Realty Bldg., Spokane; electric engineer, Joseph M. Doyle, 509 Realty Bldg., Spokane. **Working drawings underway; bid call expected in January.**

PORTLAND—$290,000—Elementary school addition. Work will include six-classroom addition at Cherry Park School, six-classroom addition at Menlo Park School,

grounds improvements and sites for future schools. Russellville School District No. 40, Multnomah County, Frank C. Dempsey, clerk, 124 S.E. 102nd Ave., Portland; architect, Freeman, Hayslip, Tuft & Hewlett, 2040 S.W. Third Ave., Portland.

*PORTLAND—$223,000—New grade school. Ten rooms of school at S.E. 128th Ave. and Holgate will be built initially. In addition to 10 classrooms, initial work will include multipurpose room with stage, kitchen, boiler room, administrative offices, teachers' room and health room. Building will be two-story on sloping site; concrete slab lower floor, glued laminated beam upper floor supporting mill construction flooring, SCR brick exterior walls, acoustical tile ceilings, built-in work counters. Gilbert School District No. 45, Multnomah County, Mrs. Bessie H. Oleman, clerk, 6425 S.E. 122nd Ave., Portland; architect, Warren Weber, 610 Fenton Bldg., Portland. **Working drawings underway.**

PORTLAND—$1,425,000—New junior high school, addition to grade school, new school sites. Junior high school, estimated to cost $1,000,000, will include 20 classrooms, gymnasium, cafetorium, library, music and choral room and shops; will be precast concrete construction with flat slab roof. Addition to Thompson Street School includes four classrooms, grading and paving, painting exterior concrete surfaces. Parkrose School District No. 3, Multnomah County, Helen Zeller, clerk, 10613 N.E. Prescott St., Portland; architect, Annand, Boone & Lei, 1530 S.W. Taylor St., Portland. **Bid call expected in early 1957 for junior high school; addition to Thompson Street School awarded to Contractors, Inc., Portland.**

PORTLAND — $114,000 — Addition — One-story wing at Southwest Lynch School will be concrete construction, include seven classrooms, health office and administrative offices. Lynch School District No. 28, Multnomah County, Harold E. Oliver, superintendent, 16301 S.E. Division St., Portland; architect, Annand, Boone & Lei, 1530 S.W. Taylor St., Portland. **Contract awarded to Juhr & Sons, Portland, $121,980.**

SALEM—$2,900,000—Two new schools, remodeling others. School at Lansing Avenue near Silverton Road, estimated to cost $1,200,000, will be of frame construction with classrooms for 1,000 pupils. Other school on Jones Road near Hrubetz Road will be similar. Remodeling program will include new music room at North Salem High School, enlargement of classrooms at Parrish Junior High School and Leslie Junior High School. The new schools, Judson Junior High School and Waldo Junior High School, will be one-story, concrete footings and foundation, aluminum roofing, brick and concrete exterior walls. Salem School District No. 24CJ, Marion County, 1309 Ferry St., Salem; architect, William I. Williams, 1390 N. Capitol, Salem; structural engineers, Miles K. Cooper & Rowland S. Rose, Builders Exchange Building, Portland; mechanical engineer, Thomas E. Taylor, Portland Trust Building, Portland; electrical engineers, Grant Kellet & Associates, 1008 S.W. Sixth Ave., Portland. **Bids called for two new schools in November; low bidder, Viesko & Post, 1440 S. 13th, Salem, $2,716,260.**

*SPRINGFIELD—$150,000—Library—New public library will be built at Third and N. "A" streets in Springfield. Building will be one-story, poured or tilt-up concrete walls, concrete slab floors, timber girders, beams, columns, flat roof, frame partitions; have forced air heating system. Library Board, Veva Morgan, city librarian, City Hall, Springfield; architect, Donald H. Lutes, U. S. National Bank Building, Springfield; mechanical and electrical engineer, Robert F. Marquess, 797 Willamette, Eugene. **Bids will be called for opening about March 1.**

SPRINGFIELD—$965,000—New junior high school, additions to others. Junior high school adjacent to Moffitt Elementary School will include 16 classrooms, special education rooms, gymnasium, shops and 16,800 sq. ft. covered walkways. Cost is estimated at $578,000. Other work will include addition to Springfield Junior High School, with five classrooms, library, shop and home economics room, costing $125,000; similar addition to Thurston Junior High School, costing $125,000; and multipurpose room at Walterville Elementary School, costing $50,000. School District No. 19, Lane County, Harold Beall, superintendent, 1030 G St., Springfield; architect for junior high school, Wilmsen & Endicott, 863 E. 13th Ave., Eugene. Contracts awarded for additions to Springfield and Thurston junior high schools ($224,302 to Gale Roberts, Springfield) and for Thurston and Walterville elementary schools (Cascade Contractors, $32,361, and Albert Vik & Son, $46,946). **Final plans and specifications for junior high school will be complete this month.**

SWEET HOME—$200,000—High school addition—Funds will finance four classrooms with connecting hallways, combination study hall-recreation room, additions to existing heating plant and roof for swimming pool. Sweet Home Union High School District No. 2, Sweet Home.

WOODBURN—$19,000—Cafeteria. Unit will serve Washington and Lincoln schools with food transported on carts. Additional money will be taken from building fund. Building is wood frame, with composition flooring, acoustical tile ceilings and wood shingle roof supported by laminated wood beams and joists. School District No. 103C, Marion County, Frank Proctor, clerk, Woodburn, Ore.; architect, Wolff & Zimmer, Pearson Fourth Avenue Building, Portland. **Contract awarded to Hampton C. Platt Salem, $27,500.**

IDAHO

IDAHO FALLS—$1,160,000—New elementary schools and other work. Construction program calls for 14-classroom grade school in south Idaho Falls; 12-classroom grade school on Seventeenth Street east of Holmes Ave.; 14-classroom grade school in Temple View; industrial arts building at Idaho Falls High School; remodel Central Intermediate School for use as junior high school. Bonneville Class A School District No. 91, Clair Gale, superintendent, 150 N. Water Ave., Idaho Falls; architects, Lloyd E. Stalker, Rogers Bldg., 479 Shoup Ave., Idaho Falls, and M. E. Whitney of Norman J. Hamill & Associates, Earl Building, 523 Park Ave., Idaho Falls. **Bids will be called early in 1957 with construction expected to start in spring.**

BOISE—$2,118,000—New senior high school and other work. Bond issue will finance $1,709,610 senior high school; purchase of three sites for senior high schools; and renovation of existing senior high school, estimated at $204,004. New high school will consist of three buildings—main classrooms, shop and gymnasium. They will be one-story, solid masonry, with block and frame walls, concrete slab floors, timber and steel girders, beams, columns, flat roof, steel truss roof for gymnasium, brick exterior. Boise Independent School District, Administration Building, 1207 Fort St., Boise; architects, Anton E. Dropping, 2504 Kootenai; Hummel, Hummel & Jones, 1324 Idaho; and Wayland & Cline, Idaho Building, all of Boise. **Plans will be completed in February.**

KELLOGG — $795,000 — District hospital. Bond issue plus Hill-Burton funds will finance 60-bed hospital which eventually will be expanded to 100 beds. Plans call for one-story wing for service facilities and two-story nursing wing; reinforced concrete construction, brick veneer, two connecting links between wings enclosing a central court with walls of glass on three sides of court. West Shoshone Hospital District No. 1, Kellogg; architect, Skidmore, Owings & Merrill, 2040 S.W. Jefferson St., Portland. **Bids will be called this month.**

KUNA—$150,000—Grade School. Bond issue will finance egiht-classroom building to be constructed at Kuna on site of old grade school building destroyed by fire. It will contain an all-purpose room and utility facilities for four additional rooms. Class A School District No. 3, Ada and Canyon counties; architects, Charles W. Johnston, 13 N. Eighth St., Payette. **Contract awarded in September to David G. Dorsey, Caldwell, $160,807.**

LEADORE—$210,000—School improvements Leadore Class B School District.

*LEWISTON — $50,000 levy — Health department building. Two-mill levy will help finance $100,000 health department build-

If the job calls for FIRE HYDRANTS specify GREENBERG!



BRONZE PRODUCTS by GREENBERG

Fire Hydrants are one of hundreds of Bronze Products manufactured by M. Greenberg's Sons for the past 103 years.

M. GREENBERG'S SONS
765 Folsom St · EXbrook 2-3143
San Francisco 7 · California
Offices in Principal Cities throughout the United States

Underwriters' Approved

No. 74 California Wet Barrel Double Hydrant. (For non-freezing weather. INDEPENDENT valves for each outlet; integral curved deflector head; full 6" waterway through hydrant body. Greenberg "Cascade" Dry Barrel Hydrants are also available for freezing climates.



No. 74 GR-UN

ing to be located adjacent to the courthouse at Lewiston. Levy will be matched by Hill-Burton funds. Plans call for semi-fireproof structure, exterior of Transite panels and brick with reception room, business office, library, conference, examination and x-ray rooms, laboratory and offices for North Central District Health Department. Nez Perce County Commissioners, Courhouse, Lewiston; architect, Hugh Richardson, Weisgerber Building, Lewiston. **Tentative plans completed. Construction cannot start until spring of 1958 since tax money will not be collected until late 1957 or early 1958.**

*MERIDIAN—$1,450,000—New high school and other work. Money will finance a new high school and addition to the Eagle Junior High School, estimated at $730,000 and an elementary school building program expected to cost $720,000. This was a resubmission of a bond proposition defeated in June. Joint Class A School District No. 2, Ada and Canyon counties, Roy G. Denton, superintendent, Meridian.

NAMPA — $562,000 — Additions at high school, primary school. Bonds will finance construction of three additional units at the campus-type high school site, including a one-story classroom building, a vocational building and a gymnasium and physical education building; a one-story primary addition and a heating plant at Sunny Ridge School. Class A School District No. 131, Nampa; architect, Anton E. Dropping, 2504 Kootenai Ave., Boise. **Following contracts awarded: additional classroom at high school, G & M Construction Co., Boise, $123,990; addition to Sunny Ridge School, Emery Conner, Nampa, $18,146; vocational building, G & M Construction Co., $99,000; and gymnasium, Kreiger Construction Co., Nampa, $226,300.**

POCATELLO—$1,225,000—New schools and additions. Program includes combined junior high-elementary school, $825,000; nine-room elementary school, neighborhood type $100,000; addition of domestic science and manual arts rooms and extensive renovations to Franklin Junior High School, $100,000; renovation of existing buildings, school equipment and sites, $200,000. Class A School District 25, Gerald R. Wallace, superintendent, Pocatello; architect (for junior high school), Ray Hunter, Dietrich Building, Pocatello. **Following awards made: additions to Franklin Junior High School, Erhardt Andersen Construction Co., 167 Foothill Blvd., Pocatello, $111,400; junior high school, C. H. Elle Construction Co., Pocatello, $785,831; elementary school, Erhardt Andersen, $103,000.**

POTLATCH — $165,000—School additions. Plans include six-classroom addition to elementary school, improvements in high school gymnasium, modernization of science classrooms, construction of sidewalks and playground. Potlatch School District, J. Lowell Scott, superintendent, Potlatch; architects, Ralph J. Bishop, W. 1526 Riverside; and George C. Ritter, Hyde Building, both of Spokane. **Bids for elementary school received in October; low bidder, Hansen & Parr, Spokane, $127,500. Other work completed.**

RUEBENS—$8,000—City Hall, City Council, Wallace Scott, city clerk, City Hall, Ruebens.

WALLACE—$735,000—Construction of new schools and improvements to existing structures. Work will include two-story addition to Osburn elementary school. School District No. 393, Wallace; architect, George M. Rasque & Son, Washington Trust Building, Spokane.

MONTANA

BIGFORK—$50,000 — Vocational education building. Work also includes remodeling of existing shop room into school lunchroom at high school. Bigfork High School District, Board of Trustees, Arthur B. Whitney, chairman, Bigfork. **Award in September to Collins Construction Co., Kalispell, $32,713 (general).**

BILLINGS—$26,000—Help finance school addition. Building at site of existing school southeast of Billings will be of masonry and wood construction and include two classrooms, lavatories, storage space and kitchen. Yellowstone County School District No. 17, Billings; architect, Vernon Drake, Empire Building, Billings. **Contract awarded in November to B. E. Clark Construction Co., Billings, $46,446.**

*BROWNING — $45,000 — New city hall. Browning City Council.

*BUTTE—$2,100,000—County hospital. New hospital will be constructed adjacent to present Silver Bow County General Hospital, south of Butte. Four-story building will have 150-bed capacity, expandable to 200; old building will be used as home for the aged. Silver Bow County Commissioners, Courthouse, Butte; architects, Norman J. Hamill, 122 W. Granite St., Butte.

*CHESTER — $80,000 — Hospital addition. Funds will finance 15-bed addition to Liberty County Hospital in Chester. Liberty County Commissioners, Chester; architect, Holland & Lund, Electric Building, Great Falls.

*COLUMBIA FALLS—$1,490,000—New high school. Building will house 600 students and will be located on an 8.4-acre site on Fourth Avenue West in Columbia Falls. Plans call for one story housing cafeteria, theater and offices and two-story classroom wing with 110,000 sq. ft. space; reinforced concrete footings and foundation. Flathead School District No. 6, Columbia Falls; architect, Weed & Fehlberg, Sundelius Building, Kalispell; mechanical engineer, W. M. Walterskirchen, 107 E. Main, Missoula; electrical engineer, General Engineers Co., 320 N. Higgins Ave., Missoula. **Plans are expected to be completed in May; construction completed by January 1960.**

*CONRAD—$330,000—Home for the aged. Pondera County Commissioners, Courthouse, Conrad.

GLENDIVE—$450,000—Elementary school. Dawson County School District No. 1, Glendive; architect, Carlo DiCicco, 117½ N. Merrill Ave., Glendive.

*GREAT FALLS — $1,900,000—County hospital and convalescent home. Building in Great Falls will be one-story with wing for administration section, children's section, general hospitalization, assembly room, wing for kitchen and dining room. Cascade County Commissioners, Courthouse, Great Falls; architect, Van Teylingen, Knight & Van Teylingen, Medical Arts Building, Great Falls. **Final selection of site has not been made; construction will start in 1957.**

HARDIN—$125,000—Hospital addition. Big Horn County Commissioners, Courthouse, Billings; architect, Nordquist & Sundell, 1233 N. 27th, Billings.

HIGHWOOD — $16,000 — School repairs. Work includes installation of oil burner, miscellaneous repairs and one classroom addition. Highwood High School District No. 4 and School District No. 28, Choteau County, Highwood. **Awards made to Ace Plumbing & Heating Co., Fort Benton, $3,724 for oil burner and Dent Construction Co., Great Falls, $10,866 for addition and repairs.**

KALISPELL—$39,240—New grade school. Three-classroom structure will be first stage of six-classroom unit. Evergreen School District, Kalispell; architect, Taylor, Thom, Schwartz & Kirkpatrick, Ford Block, Kalispell.

POWER—$105,000—Three-classroom addition. Power School District.

*SHELBY — $175,000 — Hospital addition. Bond issue and federal funds will finance 34-bed addition to Toole County Hospital at Shelby. Building will be two-story, reinforced concrete with brick exterior. Toole County Commissioners, Courthouse, Shelby; architect, McIver, Hess & Haugsjaa, Strain Building, Great Falls.

SHELBY — $300,000 — School additions. School District No. 14, Toole County, Shelby.

*STANFORD—$270,000—New grade school and high school remodeling. Project includes constructing one-story 25,000 sq. ft. building with reinforced concrete footings and foundation. Some 10,000 sq. ft. of high school will be remodeled. Judith Basin School District No. 12, Stanford; architect, Bordeleau, Pannell & Amundson, 309 First Ave. N., Great Falls. **Plans will be completed in March.**

*WHITEFISH—$175,000 — Remodeling and extension of City Hall. City Council, City Hall, Whitefish; architect, Taylor, Thom, Schwartz & Kirkpatrick, Ford Block, Kalispell. **Bids will be called in February and construction to be completed by end of 1957.**

VIDA—$50,000—Elementary school. Building includes three classrooms, gymnasium, toilets and furnace room. It is one-story, concrete block walls, glued laminated beams and post construction. Vida School District No. 134; architect, Carlo DiCicco, 117½ N. Merrill Ave., Glendive. **Award to Schwartz Construction Co., Glendive, $35,580 (general).**

BUILDING NEWS

(Continued from page 38)

MANUFACTURING PLANT—Portland, Ore.

Zone changes approved for Oregon Saw Chain Co., 9701 S.E. McLoughlin Blvd., for manufacturing plant for new division of the company, Precision Cast Parts Co., at S.E. Harney Drive and S.E. 45th Ave. Edward Cooley will manage the new division. Plans are underway for 20,000 sq. ft. concrete structure, and construction is expected to start late December. WB 12-12

NEWSPAPER PLANT— Roseburg, Ore.

A 4.7-acre tract of land has been purchased by Roseburg News-Review Co., Charles V. Stanton, editor and general manager, 540 S.E. Main St., Roseburg, for construction of a one-story factory-type newspaper plant with provision for future expansion. The site is located in North Roseburg at the corner of Prune and Vine streets, in a new suburban business center about one mile from Roseburg city limits. Construction may start early in the 1957 building season. ZZ 12-5

● COUNTY SHOP BUILDING— Roseburg, Ore.

Bids will be opened 10 a. m., December 27, by Douglas County Commissioners, Courthouse, Roseburg, for construction of a county shop building to be located on Diamond Lake Blvd. and Rifle Range Road, just east of Roseburg city limits. Plans with Lyle Blenn, architect, 309 Pacific Bldg., Roseburg. $50 deposit.

Rigid steel frame construction; 8" concrete block on lower walls and galvanized corrugated steel on upper walls; concrete slab floors; steel sash with some corrugated plastic inserts; insulation in roof; asphalt tile, quarry tile flooring; plastered walls and acoustical ceilings in office; fluorescent lighting; radiant heat in floor slab, some unit heaters. There will be three 30' bays. Center bay will carry a 10-ton crane the full length; one side bay will support 5-ton crane; other side bay will contain large storage area with one-ton monorail hoist. SC 12-12

SHOPPING CENTER, SAFEWAY STORE— Salem, Ore.

Development of a new shopping center on Portland Road, north of Salem city center, seems assured now by the zoning action taken by Salem Planning Commission. A

new Safeway store will also be constructed just north of the proposed new shopping center site. TW 12-5

TRADING POST— Seaside, Ore.

The Oregon Trail Trading Post recently destroyed by fire will be rebuilt soon. Construction to get underway very soon, according to J. H. Knox, owner, Seaside, and work will be completed by March 1, 1957. GC 12-7

■HIGH SCHOOL ADDITION— Sweet Home, Ore.

Planholders announced for construction of an addition to the high school at Sweet Home. Bids will be opened 8 p. m., December 28, by Union High School District No. 2, Harold Dishaw, superintendent, Sweet Home. Plans with Raymond Kermit Thompson and Pelly Povey Thompson, architects, 1728 N.W. 32nd Ave., Portland.

Planholders: Thomas E. Gates, 120 Oak St., Lebanon; Starr Builders, 1765 Main, Lebanon; Cutts Construction Co., Box 84, Lebanon; H. G. Carl Construction Co., Box 387, Salem. DW 12-11. Previous report 12-7

SCHOOL EXPANSION— Victor Point, Ore.

Bond election is being held today, December 11, by Victor Point School District, Victor Point, for a $22,000 bond issue to finance an expansion program at the Victor Point School. The planned expansion includes enlargement and alteration of the kitchen, addition of a janitor's supply storage room, a small office for the principal's use and an additional classroom. A new furnace will be installed to meet the need of heating the larger room volume. SC 12-11

MENTAL HOSPITAL— Wilsonville, Ore.
(Estimated cost $14,000,000)

General layout for new mental hospital at Wilsonville has been approved by Oregon State Board of Control, room 124, State Capitol Bldg., Salem. Architects, Stanton, Boles, Maguire & Church, 500 Concord Bldg., Portland, have been authorized to make over-all plans for 1,500 bed institution. However only $,631,000 has been appropriated to date, and initial construction will include heating plant, sewage disposal plant, well drilling, administration building, outpatient clinic, 70 receiving beds, 100 intensive treatment beds, 100 convalescent beds, 90 medical beds, 50 surgical beds and 90 beds for chronic medical convalescents. WB 12-8. Previous report 10-6

●CONCRETE FOUNDATIONS— Winchester Bay, Ore.

Bid opening extended from December 16 to 2 p. m., December 17, by Coast Guard District, room 922, 618 2nd Ave., Seattle, for constructing a concrete footing, concrete block foundation wall with vents, treated sill plate and replacing rotted structural structures and framing at the Umpqua River Lifeboat Station, Winchester Bay, Ore.; Inv. No. FS-1508. Plans with Coast Guard. DM 12-12. Previous report 12-6

Profitable leads on building and engineering projects in the six Pacific Northwest states and Alaska appear in these columns.

WASHINGTON

OIL REFINERY— Anacortes, Wash.

Final decisions on construction, procedures and contracts are yet to be made on the proposed $500,000,000 Texaco Oil refinery for the Anacortes district. Facts and figures on the location of the refinery are still being assembled and analyzed at the New York office of the oil concern. A company official has reported that research and analysis is still to be done and that any speculation as to the actual date construction might begin would be premature.

Almost all options at the proposed refinery site have been picked up. The refinery will occupy portions of an 880-acre site at March's Point, near Anacortes. ET 12-7

GAP FILLER FACILITIES— Anacortes, Wash.

Bids will be called soon for the second time for a bid opening early in January, by Corps of Engineers, Seattle District, 4735 E. Marginal Way, Seattle, for construction of gap filler facilities at Anacortes; ENG-45-108-57-91. Bids were originally called for a July opening under ENG-45-108-56-211 but the call was cancelled in September. Upon issuance, plans may be obtained from the Seattle district office.

Project involves construction of a communication building which will have approximately 1,420 sq. ft. floor space, concrete foundation and floor slab, concrete block walls, open web steel roof joists and metal deck with insulation and built-up roof; heating and ventilating system; perimeter chain link fence, concrete walks, reinforced concrete tower foundation. DM 12-6

▲JUNIOR HIGH SCHOOL— Auburn, Wash.

Bids received by Auburn School District No. 408, King County, Rolland C. Upton, superintendent, 9420 240th Place, Auburn, for construction of the five-building junior high school in Auburn. Bids were opened December 4. GENERAL: Leavitt-Chandler & Co., Box 6, Bellevue, $364,000; Wick Construction Co., 720 N. 35th, Seattle, $369,322; Ness Construction Co., 1125 W. 53rd, Seattle, $376,910; Brady Construction Co., 707 Spokane, Seattle, $414,000; Mowat Bros. Construction Co., 2833 Eastlake, Seattle, $424,480; H. Halvorson, Inc., 10054 Pacific Highway S., Seattle, $427,707; Hedeen Construction Co., 1404 N. 143rd, Seattle, $452,400. Bids on the mechanical and electrical contracts for the school will be opened 8 p. m., December 18, by the school district in Auburn.

Six one-story buildings; 46,000 sq. ft. total area; covered walkways will connect the buildings. Plans, which were prepared by Jones, Lovegren, Helms & Jones, architects, 706 Republic Bldg., Seattle, provide for future expansion. Structural components and finishes: wood frame, concrete slab floor, brick veneer end walls, glass sidewalls, built-up roofing with batt insulation, glued laminated beams, aluminum sash, plastered interior wall finish, asphalt tile flooring with ceramic tile over glazed block in toilets and showers, acoustical tile ceilings, wood doors, chalk and tack boards, built-in wood cabinets, oil fired hot water heating system with two boilers. DM 12-7. Previous report 11-28

BANK— Bellingham, Wash.

Architects, John W. Maloney, 754 Central Bldg., Seattle, has been retained by Seattle First National Bank, Lawrence M. Arnold, president, Main Office, 2nd and Cherry, Seattle, to draw plans for the construction of a new branch bank in Bellingham. New structure will be on the site of the existing bank. The new building will occupy site of the present bank building which will be razed to make room for the new structure. GW 12-5

BUILDINGS— Bellingham, Wash.

Value of new buildings erected in Bellingham during the 11 months just passed comes to $4,739,000. During that period, 140 new homes were erected, accounting for $1,464,000 of the figure. The total value surpassed the report for the same period one year ago by $1,130,000. New home valuations, however, were down a bit in 1956 as compared with the 1955 figure. Overall building during the month just passed was higher than during November 1955 by $44,000. (November of 1956 accounted for $242,000 worth as against $148,000 for November of 1955.)

November's tally in Bellingham was far less than the count for October of 1956, $409,000. One reason according to Wayne Beasley, building inspector, is the weather, as winter months usually result in considerable drop in both commercial and residential building activity. ET 12-6

SCHOOL ADDITION— Benton City, Wash.

Bond issue for $100,000 and special levy of 15 mills approved by voters in November election to finance school construction. Kiona-Benton City School District No. 52, Robert Anderson, superintendent, Benton City, will use the funds for financing construction of a six-classroom addition to the elementary school, proposition No. 1, a two-classroom addition to the high school, proposition No. 2. The third proposition was to raise $33,000 to raze the old building. GW 12-7. Previous report 10-12

TUNGSTEN PLANT— Blaine, Wash.

Factory representatives of Kennametal, Inc., of Latrobe, Pa., are considering the Blaine area as a possible location for the tungsten ore processing plant. An option to purchase a 60-acre site near Ferndale was not renewed by the firm. ET 12-5. Previous report 1117, under Ferndale

●STEEL BUILDING— Bremerton, Wash.

Bids will be opened 10 a.m., December 19, by E. H. T. McGowan, city clerk, City Hall, Bremerton, for the erection of a steel building, approximately 50'x100', for the Water Department. Specifications with above office. SC 12-8

●MAINTENANCE BUILDING ADDITION— Buckley, Wash.

Bids will be opened 3 p.m., December 20,

A Winning Team -- Pioneer Materials And An A.I.A. Licensed Architect!

Major construction jobs all over the Pacific Northwest have been designed and supervised by licensed architects and engineers, serviced by Pioneer for building materials. Pioneer deems it a privilege to work with these forward planning men whose competent building is securing the future greatness of our Pacific Northwest. Pioneer is headquarters for more than 353 building material items.

PIONEER SAND & GRAVEL CO.

901 Fairview Ave. N. • 910 W. Spokane St. • Seattle • MAin 2900

by G. Lee Sandritter M.D., acting director of institutions, Department of Institutions, Olympia, for construction of an addition to the Rainier State School in Buckley. Plans with John B. Firmin, department supervising engineer, Olympia. SH 12-12

SCHOOL CONSTRUCTION— **Cashmere, Wash**

Voters in Cashmere School District No. 122, James M. Thrasher, superintendent, Cashmere, have approved a bond issue and two levies that will finance school construction in the district. A 30 mill levy ($97,800) was approved in September, a 20 mill levy ($65,200) in November and a bond issue for $250,400 in November, representing a total of $665,000 in local money needed for the school work. The remaining portion of the funds needed will come from the state and from non-high participation. Plans for the proposed construction are being prepared by Alvin Erickson, architect, Central Bldg., Wenatchee. DM 12-7. Previous report 10-6

▲RECREATION FACILITY ADDITION— **Deep Creek AF Station, Wash.**

Bids received by Corps of Engineers, Seattle District, 4735 E. Marginal Way, Seattle, for construction of an addition to the existing multipurpose recreation facility at Deep Creek Air Force Staiton, Wash.; ENG-45-108-57-70. BIDS: Sceva Construction Co., 602 Realty Bldg., $93,993; Vista Construction Co., Inc., $99,665. All of Spokane. Bids opened December 10. Engineer's estimate, $74,054. GW 12-11. Previous report 11-17

BANK— **Dishman, Wash.**

Plans announced by Seattle First National Bank, Spokane and Eastern Branch, Charles H. Parks, vice president and manager, W. 601 Riverside, Spokane, for construction of a new branch bank in the 8500 block on East Sprague, about one block east of the present branch bank, in Dishman. The new site has 150' frontage on Sprague Ave. and a depth of 150', giving adequate space for drive-in teller facilities and off-street parking. Construction will start in 1957. MH 12-12

★LYNNDALE ELEMENTARY SCHOOL— **Edmonds, Wash.**

Final awards announced by Edmonds School District No. 15, Senior High School, Edmonds, for construction of the Lynndale Elementary School at 191st S.W. and 72nd W. in Edmonds. Plans by Dan Miller, architect, 420 Bell St., Edmonds. AWARDS—GENERAL: Dahlgren Construction Co., 1700 21st Ave. S., Seattle. MECHANICAL: Stoll & Freese Plumbing & Heating Co., 103 Main St., Edmonds. ELECTRICAL: Ewing Electric Co., Box 815, Edmonds. Awards were recommended earlier this month to the above firms on the following negotiated figures: $355,097 (general), $90,106 (mechanical) and $38,089 (electrical). SC 12-12. Previous report 12-1

CLINIC— **Elma, Wash.**

Construction underway by P. J. Kugen, contractor, Montesano, on remodeling of the Chehalis Valley clinic, formerly the Elma General Hospital. Project will include tearing out walls in the second story preparatory to its complete removal and connstruction of a new flat roof over the one-story ground floor offices. GC 12-7

CHURCH— **Ephrata, Wash.**
(Estimated cost $72,000)

Plans will be complete in spring of 1957 for construction of a new sanctuary and educational unit to be located at C and 1st N.W. Streets in Ephrata, for Community Methodist Church, H. A. Parker, building chairman, 117 C Street N.W., Ephrata. Plans by Eddy, Carlson & James, architects, N. 1205 Washington, Spokane.

One-story with provision for future second floor; daylight basement; 6,000 sq. ft., first unit; reinforced concrete footings and foundation; masonry walls; concrete slab floors. CE 12-1. Previous report 10-19

JUNIOR COLLEGE— **Everett, Wash.**
(Estimated cost $1,700,000)

Following is the description for construction of the new Everett Junior College to be located at 8th and Wetmore streets in Everett. Bids will be opened 8 p.m., January 14, by Everett School District No. 4, Auditorium Bldg., Everett. Plans with Harold W. Hall, architect, 402 Commerce Bldg., Everett. $100 deposit. Bid bond 5%. Structural engineer is Arthur A. Graves, Commerce Bldg.; mechanical engineer, Norman Omodt, Commerce Bldg.; electrical engineer, Beverly Travis; all of Everett. Area of all buildings is 134,000 sq. ft.

ADMINISTRATION, CLASSROOM BUILDING: Two-story; basement for mechanical room only; concrete footings and foundation; poured concrete, frame walls; frame, concrete slab floors; timber and concrete girders, beams, columns; glued laminated flat roof; frame partitions; concrete stairways; aluminum windows; brick exterior, hardwood interior wall finish; aluminum exterior, hardwood interior trim; drywall partitions; asphalt tile, terrazzo flooring; acoustical ceilings; aluminum exterior, hardwood interior doors; rigid board insulation in roof; central heatng system. SCIENCE BLDG.: Two-story; no basement; concrete footings and foundation; solid masonry cavity walls; frame, precast floors; timber, steel girders, beams, columns; flat steel roof; frame partitions; concrete stairways; aluminum windows; brick exterior, hardwood interior wall finish; drywall partitions; asphalt tile flooring; acoustical ceilings; rigid board insulation; central heating system. CAMPUS CENTER: One-story; basement for mechanical room only; concrete footings and foundation; poured concrete cavity walls; concrete slab floors; timber girders, beams, columns; flat roof; frame partitions; wood stairways; aluminum windows; brick exterior, hardwood interior wall finish; drywall partitions; asphalt tile flooring; acoustical ceilings; aluminum exterior doors; folding doors, refrigeration; rigid board insulation in roof; central heating system. VOCATIONAL BUILDING Nos. 1, 2: One-story; no basement; concrete footings and foundation; poured concrete cavity walls; frame floors; steel girders, beams, columns; flat roof; frame partitions; aluminum windows; brick exterior, plywood interior wall finish; drywall partitions; asphalt tile, wood and concrete flooring; acoustical ceilings; rigid board insulation in roof; central heating system. P E BUILDING: One-story; no basement, concrete footings and foundation; block walls; concrete slab floors, hardwood in gymnasium; timber girders, beams, columns; arch roof; masonry partitions; wood, aluminum windows; brick and block exterior, hardwood interior wall finish; exposed masonry partitions; hardwood (gymnasium), asphalt tile, ceramic tile flooring; acoustical, concrete ceilings; aluminum exterior doors; backstops; rigid board insulation in roof; central heating system. HEATING PLANT, MAINTENANCE BUILDING: One-story; no basement; concrete footings and foundations; block cavity walls; concrete slab floors; timber girders, beams, columns; flat roof, masonry partitions; aluminum windows; brick exterior wall finish; exposed masonry partitions; concrete flooring; wood deck; transformer vault; rigid board insulation in roof; low pressure steam heating system, oil fuel. SP 12-4. Previous report 11-9

REFINERY— **Everett, Wash.**
(Estimated cost $65,000,000)

Construction which was to start in 1957 has been delayed until 1958 for the refinery to be located on a 2,400 acre site south of Everett, for Standard Oil Co. of California, T. S. Peterson, president, San Francisco, Calif. The refinery will have a capacity of between 60,000 and 100,000 bbl. SC 12-12. Previous report 8-28

■TERRACINE ELEMENTARY SCHOOL— **Federal Way, Wash.**

Planholders announced for the construction of the 13-classroom Terracine Elemtary School at S. 314th, Federal Way. Bids will be opened 8 p.m., December 20, by Federal Way School District No. 210, in the office of Kenneth C. Jones, superintendent, Federal Way School, Federal Way. Plans with John W. Maloney, architect, 754 Central Bldg., Seattle.

Planholders—GENERAL: Ness Construction Co., 1125 W. 53rd; J. C. Boespflug Construction Co., 1912 4th Ave. S.; Wick Construction Co., 720 N. 35th; Riley Pleas Inc., struction Co., 1418 E. Lynn; E. F. Shuck Construction Co., 535 Pontius; Cawdrey & Vemo, 3601 Fremont; Leavitt-Chandler & Co., Box 6, Bellevue; Bona Fide Builders Inc., 2430 E. 11th, Tacoma. MECHANICAL: George H. Lucken Plumbing and Heating Co., 922 Leary Way, W. E. Beggs Inc., 234 9th Ave. N.; West Coast Heating and Plumbing Co., 4125 9th Ave. N.W.; University Plumbing and Heating Co., 3941 University Way; Hi-Line Plumbing and Heating Co., Inc., 462 S.W. 152nd; Boyker Plumbing and Heating Co., 2627 Eastlake; L. G. Massart Plumbing and Heating Co., 4501 9th Ave. N.W.; Thorn & Marble Co., Inc., 4225 23rd Ave. W. ELECTRICAL: Hooper Electric Co., 215 Marion; Carlson-Collingwood Inc., 8945 Aurora; Carlson Electric Co., Inc., 4025 Stone Way; City Electric and Fixture Co., 433 8th Ave. N.; Donald W. Close Co., 2921 13th Ave. S.W.; Chapman Electric Co., 911 Walla Walla, Renton; Van S. McKenny Co., 104 Wall. All of Seattle unless otherwise stated. GW 12-8. Previous report 11-28

●■MESS HALL REHABILITATION— **Geiger Field, Wash.**

Bids will be opened 2:30 p.m., December 18, by U.S. Air Force, Contracting Office, Geiger Field, Spokane, for rehabilitation of mess hall Bldg. No. 268 at Geiger Field. Specifications with above office.

Planholders: Sceva Construction Co., N. 2928 Madelia; Warner & Brown, N. 2904 Madelia; AAA Construction Co., N. 729 Helena; H. Halvorson, Inc., Box 6, Yardley; Fred Koch, W. 1312 Kiernan; A. J. Popp Construction Co., W. 205 29th; Walter G. Meyers & Son, N. 1407 Calispell; Lester Johnson, Box 81, Yardley; P & B Co., Inc., E. 8903 Main; Arne Bye, E. 4824 Sprague. All of Spokane unless noted. SP 12-12

●SEMINARY— **Kenmore, Wash.**

Bid opening extended from December 11 to 2 p.m., December 18, by Catholic Archdiocese of Seattle, Most Rev. Thomas A. Connolly, archbishop, 907 Terry Ave., Seattle, for the general contract on construction of a new major seminary to be known as St. Thomas. Site is about ¼ mile from the existing St. Edward's seminary, on a 350-acre tract on the north shore of Lake Washington between Juanita and Kenmore. Plans with John W. Maloney, architect, 754 Central Bldg., Seattle. $50 deposit. Certified check, cashier's check or bid bond 5%. GW 12-8. Previous report 11-20

▲CIVIL DEFENSE CONTROL CENTER— **Kent, Wash.**

Bids received by King County Commissioners, 402 County-City Bldg., Seattle, for construction of a civil defense control center east of Kent on Highway 5-A, across from the Kent-Meridian High School, for King County Civil Defense, County-City Bldg., Seattle. Plans by Peterson & Adams, architects, 1905 Smith Tower, Seattle. Following are basic bids. LOW BID: Ballard Contractors, 4601 6th Ave. N.W., $81,100. OTHER BIDS: Dale M. Madden, 3010 E. 63rd, $86,748; Clair E. Prescott, 3516 Airport Way, $87,469; H. Halvorson, Inc., 20054 Pacific Highway S., $87,598; Kurth Construction Co., 1509 100th Ave. S.E., Bellevue, $88,888; Glacier Construction Co., 5536 Coniston Road, $89,900; Armstrong Construction Co., Auburn, $89,983; C & R Builders, 1619 8th Ave. N., $92,600; E. F. Shuck Construction Co., 535 Pontius, $94,210; Jenhoff & Forbes, 927 W 46th, $96,330; Absher Construction Co., 1109 25th Ave. S.E., Puyallup, $96,684; Wayne Construction Co., 3819 Stone Way, $98,390; R. C. James & Son, Ditty Bldg., Bellevue, $105,889. All bidders of Seattle unless otherwise stated. Bids opened December 10. GW 12-11. Previous report 11-27

★PARISH BUILDINGS— **Kirkland, Wash.**

Awards by Catholic Archdiocese of Seattle, Most Rev. Thomas A. Connolly, archbishop, 907 Terry Ave., Seattle, for construction of parish buildings, Holy Family Parish,

at 12th Ave. N.E. between N.E. 70th and 75th, east of Kirkland in the Rose Hill Area. Plans by Johnston-Campanella, architects, 600 Orpheum Bldg., Seattle. AWARDS—GENERAL: A. W. Robertson, 8233 Overlake Drive, Bellevue, $399,900 (parish hall, church, school, rectory, convent). MECHANICAL: University Plumbing and Heating Co., 3941 University Way, Seattle, $74,696 (parish hall, school, church). ELECTRICAL: Lindberg Electric Co., 4600 Leary Way, Seattle, $17,900 (parish hall, school, church. Mechanical and electrical work for the convent and rectory were included in the general contract. GW 12-11. Previous report 11-8

BANK— Longview, Wash.

Site has been selected by Seattle First National Bank, Lawrence M. Arnold, president, 2nd and Cherry, Seattle, for a new branch bank at Longview. The property is located 1½ blocks north of the existing location at 1315 N. 14th, Longview, and approximates 40,000 sq. ft. The site occupies 210' on Commerce St., 300' on Vandercook St. and 260' on Maple. An architect will be retained soon. GW 12-5

JUNIOR HIGH SCHOOL— Mead, Wash.

Bond issue approved by the voters in the November election for $700,000 to finance construction of an 18-classroom junior high school in Mead. Funds will be used by School District No. 354, Mead. Plans underway by Culler, Gale, Martell & Norrie, architects, Realty Bldg., Spokane.
GW 12-7. Previous report 11-2

HOSPITAL— Metaline Falls, Wash.
(Estimated cost $185,000)

Bids will be called in February for opening sometime in March, 1957, by Paul Oreille County Hospital District, L. M. Kinney, chairman, Metaline Falls, for construction of a 20-bed hospital at Metaline Falls. Plans by Culler, Gale, Martell & Norrie, architects, 615 Realty Bldg., Spokane. Building will be built with provision for future expansion.

One-story; light steel frame with masonry and concrete construction; concrete floors with tile flooring; brick exterior wall finish; steel sash; hot water heating system.
PN 12-11. Previous report 8-16

CHURCH ADDITION— Montesano, Wash.
(Estimated cost $40,000)

Plans underway by Burleigh Krona, architect, 1205 Fairview Drive, Tacoma, for construction of a new sanctuary for Presbyterian church in Montesano. The project will also include remodeling the educational wing and constructing the new sanctuary at ground level replacing the present one.
GC 12-7

★HOSPITAL— Mount Vernon, Wash.

Award to Walker & Florence, 319 E. Champion, Bellingham, $916,576 (basic bid), by Public Hospital District No. 1, Skagit County, Walter Blade, chairman, City Hall, Mount Vernon, for construction of a 65-68 bed hospital to be located on 15th St. near Montgomery Hill district in the east end of Mount Vernon. Approval by both state and federal health departments must be received before construction can be started. As the above low bid is below the estimated cost, several alternates are being considered.
DM 12-8. Previous report 12-1

HOSPITAL— Newport, Wash.
(Estimated cost $300,000 to $350,000)

Bids will be called in February for opening about March 1, 1957, by Hospital District No. 1, Pend Oreille County, Kay Bush, administrator, Newport, for construction of a 24-bed hospital in Newport. Plans by McClure & Adkison, architects, N. 108 Washington St., Spokane. Project is being financed by local and federal funds. One-story; 280'x300'; partial basement; structural concrete construction; brick walls; steel joists; interior partitioning of studs and block; concrete floors; built-up roof; aluminum sash; gravel surfacing on roof; tile flooring; oil-fired hot water heating system. Building to be constructed with provision for future expansion. PN 12-11. Previous report 4-17

GYMNASIUM, SHOP BUILDING— Newport, Wash.

Bond issues providing for school construction, were defeated by voters in the November election. Funds totaling $225,000 would have been used by Newport Consolidated School District No. 56-415, Pend Oreille County, Newport, to finance construction of a new high school gymnasium estimated at $149,000 and acquisition of a site for and construction of a combined agriculture-metal shop building, $76,000.
GW 12-7. Previous report 10-12

●BUILDING ALTERATIONS, REPAIRS— Olympia, Wash.

Bids will be opened 3 p. m., December 27, by H. D. Van Eaton, director of general administration, 218 General Administration Bldg., Olympia, for alterations and repairs to the Central Stores Bldg., 1058 Capitol Way, Olympia. Plans with above office. $10 deposit. SC 12-12

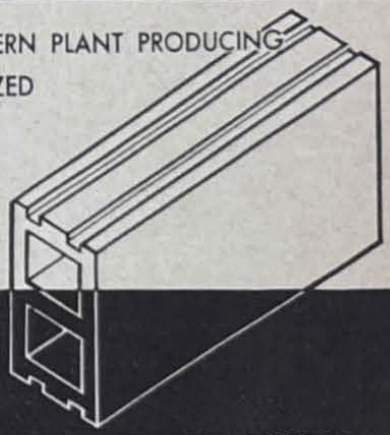
NAVAL FACILITY— Pacific Beach, Wash.

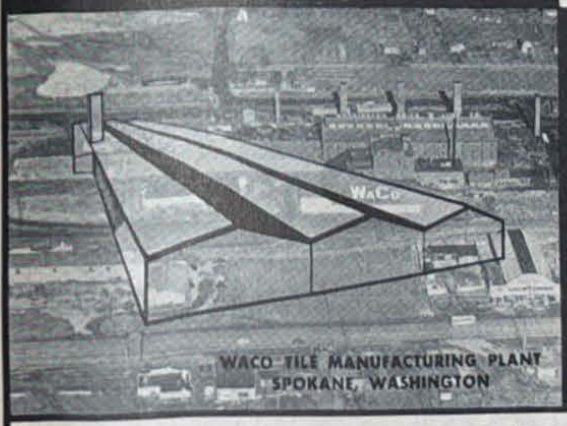
Bids will be called December 11 for opening about January 15 by 13th Naval District, room 100, Bldg. 232, U. S. Naval Station, Seattle, for construction of a U. S. Naval Facility at Pacific Beach, 25 miles north of Aberdeen, Wash. Plans with above office after December 14. $150 deposit.

Personnel Building: two-story; 13,100 sq. ft. in first floor plan area; reinforced concrete construction. Special Service Building: One-story; 7,100 sq. ft.; reinforced concrete construction. Garage, Fire Station and Boiler Room Building: one-story; 4,100 sq. ft.; reinforced concrete construction. Storehouse Building: involves the rehabilitation of an existing 4,000 sq. ft. warehouse building. Other small structures include a guard shelter building, transmitter building, generator building, small arms magazine and an incinerator. Terminal equipment building

WACO TILE

A NEW MODERN PLANT PRODUCING QUALITY GLAZED STRUCTURAL TILE FOR YOUR JOB





WACO TILE MANUFACTURING PLANT
SPOKANE, WASHINGTON

● ARCHITECTURALLY-SELECTED COLORS
● QUALITY CONTROLLED
● PERMANENT MODERN BEAUTY

WaCo-Tile is distributed over the Pacific Northwest and Alaska . . . the nearest source to your job.

Write now for specifications and detailed information!

WASHINGTON BRICK & LIME CO.

SPOKANE ● PORTLAND ● SEATTLE

MEMBER WESTERN STRUCTURAL TILE INSTITUTE

plans will be the subject to an addendum at a later date. SP 12-4

▲CRYPTO ROOM, MESSAGE CENTER— Paine AFB, Wash.

Bids received by U.S. Air Force, Purchasing and Contracting Office, Paine AFB, for crypto room and message center modification at the base; Inv. No. 45-60-57-23. Bids opened December 7. LOW BIDS: D & A Construction Co., 1829 N. 103rd, Seattle, $7,500; Jack Fast, 22 Etruria, Seattle, $8,593; Sanford Wright, 302 Clark Bldg., Everett, $9,643. HH 12-8. Previous report 11-16

★FIRE HALL— Pasco, Wash.

Award announced by Adah M. Perry, city clerk, City Hall, Pasco, for construction of fire station No. 2 at Court St. and Road 36 in Pasco. Plans by Frewen & Ross, 105½ S. 4th St., Pasco. Bids opened December 4. AWARD: Elvrum Construction Co., 316 N. 12th, Pasco, $13,669. 2ND LOW: Hale Construction Co., Box 782, Pasco, $14,078. 3RD LOW: Charles C. Dunham, 2437 W. Albany, Kennewick, $14,776.

SP 12-8. Previous report 11-23

★FIRE STATIONS— Richland, Wash.

Award to Jensen-Rasmussen & Co., Box 89, Sunnyside, $158,900, by Atomic Energy Commission, Engineering & Supply Division, Bldg. 703, Richland, for construction of two fire stations in Richland.

SP 12-11. Previous report 11-21

▲VINYL TILE FLOORING— Seattle, Wash.

Bids received by Paul R. Hendricks, city purchasing agent, room 511, County-City Bldg., Seattle, for furnishing and installing vinyl floor covering and base in the city treasurer's office, County-City Bldg., Seattle. LOW BID: R. D. Hurst Co., 325 Westlake Ave. N., Seattle, $1,636. Bids opened December 5. GW 12-7. Previous report 11-30

PLANT— Seattle, Wash.

Final plans awaiting approval of owners, Sinclair & Valentine, at the eastern office, in New York (local office, 1308 Western Ave., Seattle) for construction of a new office building and manufacturing plant at Andover St. and Maynard Ave., Seattle. Bids will be called about January 15, and will be opened probably in the office of Bittman & Sanders, architects, 301 Securities Bldg., Seattle, from select list of bidders.

GW 12-11. Previous report 10-4

● HOSPITAL ADDITION— Seattle, Wash.
(Estimated cost $2,500,000)

Bids to be opened 2 p.m., January 17, by Missionary Sisters of Sacred Heart in the office of John Graham & Co., architects and engineers, 1426 5th Ave. Bldg., Seattle, for construction of a seven-story addition to St. Francis Xavier Cabrini Hospital, formerly Columbus Hospital, 1019 Madison, Seattle. The work will also include alterations to the existing building. Select list of bidders. Private bid opening. Plans with architects.

Addition will be connected to existing building and will consist of seven-story main wing approximately 56'x130', three-story wing 50'x120' facing Terry Ave.; 70,000 sq. ft.; reinforced concrete, concrete joists; built-up bonded roof; concrete stairways; concrete slab floors; marble and brick facing; operating aluminum mold bar sash; covered concourse for the loading and unloading of patients; new boiler plant to house oil fired boilers for steam heat; plaster interior walls and ceilings; some acoustical tile suspended ceilings; vinyl and terrazzo flooring; wood doors, aluminum entrance doors; sprinkler system to the existing building; stainless hospital fixtures.

GW 12-11. Previous report 11-2

★CARPENTERS CENTER— Seattle, Wash.

Awards by District Council of Carpenters Union, Harry L. Carr, business manager, 1620 4th Ave., Seattle, for construction of the carpenters center on the east side of 2nd Ave. between Wall and Vine streets, Seattle. Plans by John Graham & Co., architects, and engineers, 1426 5th Ave. Bldg., Seattle. AWARDS: Kuney Johnson Co., 1266 Mercer, $331,813 (second low bidder, but completion time 2½ months ahead of low bid). MECHANICAL: West Coast Heating and Plumbing Co., 4125 9th Ave. N.W., $71,577. ELECTRICAL: Beckstrom's Electric Co., 14058 Bothell Way, $31,868. All of Seattle. Construction started December 10.

GW 12-12. Previous report 11-29

● SUNSET JUNIOR HIGH SCHOOL— Seattle, Wash.

Bids to be opened 2 p.m., January 8, by Highline School District No. 401, King County, Carl Laudenbach, business manager, Administration Bldg., 253 S.W. 152nd, Seattle, for construction of Sunset Junior High School at Des Moines Highway and 136th Ave. S.W., Seattle. Plans will be available soon from Steinhart, Stanley, Theriault & Anderson, architects, Eastlake and Galer, Seattle. $25 deposit. Certified check, cashier's check or bid bond 5%.

Project will include two, two-story classroom buildings, with 2nd floor cantilevered balcony corridors; two one-story buildings; total of 71,000 sq. ft. of space; 27 teaching stations; steel frame structures; steel roof deck; concrete slab floors; reinforced brick and SCR brick walls; vinyl asbestos flooring; some acoustical tile ceilings. The shop building and storage areas will have exposed metal decking; ceramic tile flooring; oil fired steam heating system; unit ventilators; portable chalk boards with alternate on fixed boards; tack boards; wood doors, wood cabinets; aluminum sash; incandescent lighting power folding door between the physical education stations in the gymnasium building; parking area; football field; dressing rooms for the gymnasium on a lower level of sloping suite under the physical education building; covered walkways with aluminum deck. GW 12-12. Previous report 11-20

● RESTAURANT— Seattle, Wash.

Bids will be opened 4 p.m., January 7, by T. R. Burchadean, owner, for Gil Centioli, lessee, in the office of Jack Bryant, architect, 13609 1st Ave. S., Seattle, for construction of a restaurant on 1st Ave. S., near S.W. 152nd, Seattle. Plans with architect. General and mechanical work will be combined on one contract. The electrical work will be by Mars Electric Co., 800 23rd Ave. S., Seattle, on a cost plus basis. The kitchen equipment will be bid at a later date through the lessee, Gil Centioli.

One-story; 24,000 sq. ft.; with an asphaltic concrete parking area for 70 cars; building will be essentially a frame structure; concrete slab floors, hardened and colored; glued laminated beams, with 3" t&g roof decking; built-up roof; aluminum sash; aluminum doors, some sliding; electric heating system. The drive-in portion of the project will be cafeteria style, and there will be a dining room for service.

GW 12-12. Previous report 11-30

● CAPEHART FAMILY HOUSING— Seattle, Wash.

Bids will be opened 2 p.m., January 8, by Corps of Engineers, Seattle District, 4735 E. Marginal Way, Seattle, for construction of 108 Capehart Family Housing units in the Seattle Defense Area, involving Poulsbo, North Seattle, Midway, Vashon, Winslow and Youngs Lake, Wash.; ENG-45-108-57-11. Specifications with above office. Bidders are invited to submit bids on any or all schedules and/or on an all or none basis. To be considered bidders for a given schedule must bid on all items of that schedule, including the additive items, except that bidders may bid on either Item 1a or 1b or both.

SCHED. A—POULSBO: Includes 16 single family buildings with grooved plywood siding (Item 1a) or wood shingle siding (Item 1b). Quantities: 5,670 sq. yd. stripping; 3,400 c.y. excavation; 100 c.y. borrow; 2,480 sq. yd. subgrade preparation; 340 c.y. base course; 5 ton prime coat; 250 ton asphalt concrete; 16 ton asphaltic cement; 170 sq. yd. concrete walks; 490' storm drain; 62' culvert; 1,685' sanitary sewer; 1,385' water line. SCHED. B—NORTH SEATTLE: Includes 12 single family building with grooved plywood siding (1a) or wood shingle siding (1b). Quantities: 10,000 sq. yd. stripping; 3,900 c.y. excavation; 1,900 sq. yd. subgrade preparation; 260 c.y. base course; 4 ton prime coat; 180 ton asphaltic concrete; 13 ton cement; 130 sq. yd. concrete walks; 620' sanitary sewer; 3,300' drain tile; 12, 750-gallon septic tanks; 1,045' water line. SCHED. C—MIDWAY: Includes 32 single family buildings with siding as previously mentioned. Quantities: 25,000 sq. yd. stripping; 9,100 c.y. excavation; 3,800 sq. yd. subgrade preparation; 550 c.y. base course; 160 c.y. leveling course; 8 ton prime coat; 280 ton asphaltic concrete; 26 ton asphaltic cement; 115' concrete steps; 192' pipe handrail at steps; 372' curbs; 510 sq. yd. concrete walks; 480' storm drain; 292' culvert; 3,130' sanitary sewer; 9,700' drain tile; 270' steel pipe; 32, 750-gal. septic tanks; 2,270' water line. SCHED. D—VASHON: Includes 16 single family dwellings with above siding items. Quantities: 9,400 sq. yd. stripping; 5,100 c.y. excavation; 2,300 sq. yd. subgrade preparation; 320 c.y. base course; 100 c.y. leveling course; 4.5 ton prime coat; 230 ton asphaltic concrete; 16 ton asphaltic cement; 195 sq. yd. concrete walks; 68' culverts; 645' sanitary sewer; 2,800' drain tile; 16, 750-gal. septic tanks; 1,385' water line. SCHED. E—WINSLOW: Includes 16 units with above siding items. Quantities: 5,800 sq. yd. stripping; 4,400 c.y. excavation; 215 c.y. base course; 2,600 sq. yd. subgrade preparation; 5.2 ton prime coat; 275 ton asphaltic concrete; 19 ton asphaltic cement; 170 sq. yd. concrete walks; 86' culvert; 1,710' sanitary sewer; 1,630' water line. SCHED. F—YOUNGS LAKE: Includes 16 units with above siding items. Quantities: 11,000 sq. yd. stripping; 4,400 c.y. excavation; 2,200 sq. yd. subgrade preparation; 370 c.y. base course; 4.5 ton prime coat; 220 ton asphaltic concrete; 16 ton asphaltic cement; 180 sq. yd. concrete walks; 104' culvert; 720' sanitary sewer; 3,000' drain tile; 1,650' water line. Additive items have not been included in this brief description.

SP 12-12. Previous report 12-7

●■ CATHOLIC CHURCH— Seattle, Wash.

Bid opening extended from December 18 to 2 p.m., January 23, by Catholic Archdiocese of Seattle, Most Rev. Thomas A. Conolly, archbishop, 907 Terry Ave., Seattle, for construction of a new church, to be known as St. Edward's, at Orcas and 42nd S.W., Seattle. Plans with John W. Maloney, architect, 754 Central Bldg., Seattle. $50 deposit. Certified check, cashier's check or bid bond 5%.

One-stroy; 187'x94'; reinforced concrete thin shell; exterior walls rough Wilkeson stone; built-up roofing, with an alternate on copper on barrel; aluminum sash for double glazing; terrazzo flooring, some vinyl tile; plaster walls; oak millwork; marble high and side altars and communion rail; an extension of existing hot water heating system in present school building.

Planholders: J. C. Boespflug Construction Co., 1912 4th Ave. S.; Wick Construction Co., 720 N. 35th; Jentoft & Forbes, 927 W. 46th; Cawdrey & Vemo, 3601 Fremont. All of Seattle. GW 12-7. Previous report 11-27

CAPEHART FAMILY HOUSING— Seattle, Wash.

Invitation No. ENG-45-108-57-11, for construction of family housing units in the Seattle Defense area, will not be issued as scheduled by the Corps of Engineers, Seattle District, 4735 E. Marginal Way, Seattle, due to instructions from higher authority. Original bid opening was scheduled for December 6, involving 32 units at the Midway site; 16 each at Youngs Lake, Winslow, Vashon, Poulsbo, 12 at North Seattle.

GW 12-7. Previous report 11-8

GYMNASIUM— Seattle, Wash.

Theo Damm, architect, 516 James, Seattle, has been retained to draw plans for the construtcion of a new gymnasium building at Ballard High School, 14th Ave. N.W. and W. 65th, Seattle. Bids will be called by Seattle School District No. 1, Frank M. Brock, secretary, 815 4th Ave. N., Seattle. There will be some classroom remodeling included in the project. GW 12-8

HOLLY PARK FRIENDS CHURCH— Seattle, Wash.

Construction as a congregation project will get underway soon by Holly Park

Friends Church, for the first unit of a new church plant at 43rd Ave. S. and Othello, just off Empire Way, Seattle. Plans have been completed by Durham, Anderson & Freed, architects, 1100 Denny Way, Seattle.

Two-story structure, 5,000 sq. ft.; upper floor will house the nave, narthex and parlor; daylight basement on lower floor will house the fellowship hall; glued laminated arches support a heavy wood plank built-up roof; plasterboard interior finish; window walls; concrete slab floors, on lower area; oil fired forced warm air heating system.

GW 12-8. Previous report 11-21

●EXHAUST VENTILATION DUCT WORK— Seattle, Wash.

Bids to be opened 9:30 a. m., January 7, by King County Commissioners, W. R. Carroll, county purchasing agent, room 606, County-City Bldg., Seattle, for exhaust ventilation duct work at King County Hospital, 325 9th Ave., Seattle. Specifications with county purchasing department. Certified check, cashier's check or bid bond 5%.

●INTER-COMMUNICATION FACILITIES— Seattle, Wash.

Bids to be opened 9:30 a. m., January 7, by King County Commissioners, W. R. Carroll, county purchasing agent, room 606, County-City Bldg., Seattle, for furnishing labor and materials to supplement the existing inter-communication facilities at King County Hospital, 325 9th Ave., Seattle. Plans with county purchasing department. Certified check, cashier's check or bid bond 5%.

GYMNASIUM— Seattle, Wash.

Architect John W. Maloney, 754 Central Bldg., Seattle, has been retained by Seattle School District No. 1, Frank M. Brock, secretary, 815 4th Ave. N., Seattle, to draw plans for the construction of the new gymnasium building at Franklin High School, 31st S. and Mount Baker Ave., Seattle. There will also be some remodeling of existing classroom space and other facilities. GW 12-6

ST. CATHERINE'S CHURCH—Seattle, Wash.
(Estimated cost $300,000)

Preliminary plans underway by James Klontz & Associates, 784 Dexter Horton Bldg., Seattle, for construction of a new church for St. Catherine's parish, to be located at 813 E. 86th, Seattle, on the same location as the existing church, which will be moved to another location on the property, and used for educational purposes. Fund raising campaign completed and successful, Max L. Gray, chairman of the campaign committee. GW 12-8

NORTH SERVICE CENTER— Seattle, Wash.
(Esimated cost $1,000,000)

Plans nearly completed by Young, Richardson & Carleton, architects, 521 Central Bldg., Seattle, for construction of the north service center, for city light, in the north end of town, between N. 97th, N. 100th, Ashworth and Stone avenues, in Seattle. Bids will be called by the Board of Public Works, E. G. Henry, secretary, room 512, County City Bldg., Seattle, for City Light. Plans by engineering division of City Light, Galland Bldg., 1217 2nd Ave., Seattle. The following schedule has been tentatively set: approval at Board meeting December 12; letter of approval January 4; call for bids to be advertised January 8; opening of bids February 6; award of contract February 13.

L-shaped; 456'x294'; warehouse area will be one-story, office to be two-story; auditorium, with locker rooms, shower rooms, one-story; service and garage building one-story and basement; all connected by separation walls. Structure components: steel frame with masonry filler walls; brick veneer exterior; built-up roofing; concrete slab floors; reinforced concrete slab in shop and garage areas; interior finishes in office areas will be plaster and block walls; acoustical ceilings; asphalt tile flooring; flush wood and hollow metal doors; steel rolling overhead doors; rigid insulation in roof; concrete stairways; ceramic tile in toilets and glazed block in shower rooms; oil fired hot water and steam heating system; asphalt concrete parking area and pole yard; steel roof trusses in warehouse area. Structural engineers on the project are Worthington & Skilling, 601 Lloyd Bldg., Seattle.

★RESIDENCE— Selah, Wash.

Contract let to George Cyr, general contractor, 1413 Pleasant Ave., Yakima, by Guy McPherson, owner, c/o Champ Sanford, designer, 602 S. 5th Ave., Yakima, for construction of a one-story residence at Selah. Bids were previously rejected and the project postponed until spring, but construction is now underway.

IG 12-8. Previous report 11-3

CHURCH ADDITION— Spokane, Wash.
(Estimated cost $69,000, first unit)

Bids will be called in spring of 1957 by Hays Park Methodist Church, Everett L. Groves, pastor, E. 1725 Bridgeport Ave., Spokane, for construction of a new sanctuary addition located east of the present church. Plans by Eddy, Carlson & James, architect, N. 1205 Washington, Spokane.

One- and two-story; no basement; 4,000 sq. ft.; reinforced concrete footings and foundation; masonry cavity walls; concrete slab floors; glued laminated roof; masonry, frame partitions; wood stairways; aluminum windows; aluminum foil "Lofan" type 6 insulation in ceiling and walls; radiant floor heating system, natural gas fuel.

SP 12-1. Previous report 11-24

BON MARCHE FIRE— Spokane, Wash.

Fire which broke out in a sixth floor furniture repair shop caused an estimated $250,000 damage to the Bon Marche Department store in Spokane on November 30. SC 12-11

FIRE STATION— Spokane, Wash.
(Estimated cost $50,000)

Architect will be retained soon by Spokane Fire Department, W. A. Dunham, fire chief, Spokane, to prepare plans and specifications for a fire station to be constructed at Mission and Greene Streets in Spokane. Bids will be called early in January, 1957, for the station which will be large enough to house a ladder truck, if merited by increased population growth. Initially, however, a hose wagon pumper will be used.

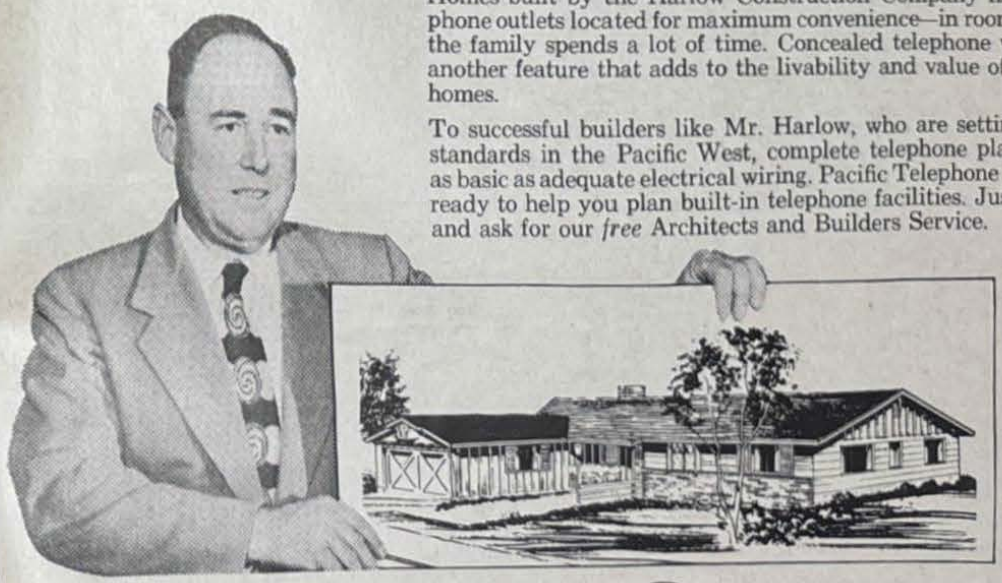
SC 12-11

TELEVISION PROJECTS— Spokane, Wash.
(Estimated cost $5,000 per new channel)

Paramount Agencies, Don R. Carmichael, field engineer, S. 121 Monroe St., Spokane, has reported several Washington, Oregon and Idaho television projects now underway or being surveyed. Paramount Agencies will supply the necessary equipment for the

Built-in telephone outlets are a big selling point in today's home

says H. J. HARLOW, Jr., Harlow Construction Company, Sacramento, California



Homes built by the Harlow Construction Company have telephone outlets located for maximum convenience—in rooms where the family spends a lot of time. Concealed telephone wiring is another feature that adds to the livability and value of Harlow homes.

To successful builders like Mr. Harlow, who are setting living standards in the Pacific West, complete telephone planning is as basic as adequate electrical wiring. Pacific Telephone is always ready to help you plan built-in telephone facilities. Just call us and ask for our *free* Architects and Builders Service.

Specify built-in telephone facilities —a sign of good planning

Pacific Telephone

local distributor for each project. No major construction is involved in these projects which will include construction of small buildings, wire stringing and equipment installation. The following projects are included: 1—Ellensburg: construction underway and equipment being tested for translator station to be operated by Kittitas Valley TV Association. 2—Salmon, Idaho: preliminary engineering survey underway for translator station to pick up television from Idaho Falls. 3—La Grande, Ore.: engineering completed and application filed with Federal Communications Commission for translator station to pick up television from Spokane. 4—Lewiston, Idaho: two application filed for translator stations at Lewiston Orchards. 5—Manson, Wash.: experimental station on the air, applications filed for two stations. 6—Benton City, West Richland, Wash.: engineering completed for translator station, however, plan lacks approval of Atomic Energy Commission for placing equipment on Rattlesnake Mountain overlooking Hanford project. 7—John Day, Ore.: survey underway for translator station to pick up Boise TV stations. 8—Milton-Freewater, Ore.: survey underway for station to pick up TV from Spokane stations. 9—West Glacier, Mont.: survey underway for station to pick up Spokane stations. 10—Oxbow, Brownlee, Idaho (sites of two of the three Idaho Power Co. dams in Hells Canyon part of Snake River): surveys completed and applications filed for stations. PN 12-12

VOCATIONAL SCHOOL ADDITION— Tacoma, Wash.

Working drawings underway by Maguire & Muri, architects, 231 Broadway, Tacoma, for construction of an addition to the Tacoma Vocational-Technical school at 1101 S. Yakima, Tacoma. Bids will be called in January by Tacoma School District No. 10, Pierce County, S. 8th and Tacoma Ave., Tacoma. GW 12-11

▲BANK— Tacoma, Wash.

Bids for construction of the West End Branch of the Puget Sound National Bank are being held for further consideration. The figures submitted at the December 4 bid opening were high. Bids were opened by Reno Odlin, president of Puget Sound National Bank, 1119 Pacific Ave., Tacoma. Plans were prepared by McGuire & Muri, architects, 231 Broadway, Tacoma, and call for a one-story structure to be located on the north side of 6th Ave. between Rochester and Howard streets in Tacoma.
DM 12-7. Previous report 12-1

CHURCH FACILITIES— Tacoma, Wash.
(Estimated cost $400,000)

A five-acre site at S. 12th and Pearl streets in Tacoma has been purchased by Church of Jesus Christ of the Latter-Day Saints, Elvin E. Evans, president of Tacoma LDS Stake, 1210 Division, Tacoma, to serve all wards of the church in Tacoma. The building and grounds will provide facilities for the religious as well as the activity and recreational programs of the church. Plans include an auditorium with a seating capacity of 2,000 to 2,500 members; basket ball courts; parking area. Preliminary studies underway on specifications and a fund raising campaign has been started among members. SC 12-1

METERING STATIONS— Tacoma, Wash.
(Estimated cost $3,689)

A proposal is being drawn for the approval of City Council, City Hall, Tacoma, for the construction of two metering stations on Leach Creek in Tacoma, according to David Rowland, city manager, at above address. The stations, which would be located at S. 40th St., just south of Fircrest, and downstream by Bridgeport Way, would indicate the increase of the West End storm and water through the 60" storm drain being constructed through Fircrest. Construction would be financed jointly by the city and the U.S. Geologic Survey. SC 12-12

■ SCHOOL— Tumwater, Wash.

Planholders announced for construction of a 12-room grade school on Dennis Road in Tumwater. Bids will be opened 8 p.m., December 21, by Tumwater School District No. 33, Thurston County, Tumwater. Plans with William Arild Johnson & Associates, architects, 3506 Broadway, Everett.

Planholders — GENERAL: Noel Construction Co., 11014 Main St., Bellevue; Cascade-Olympic Construction Co., Route 2, Box 131, Shelton; A. G. Holmann, Box 37, Lacey; Venne Beauchamp, Box 637, Everett. MECHANICAL: Capitol Plumbing & Heating, 424 Jefferson St., Olympia; Rainier Mechanical Contractors, 2702 E. 112th, Tacoma; Cascade Heating & Plumbing, 402 W. 5th, Olympia; Kaelin Plumbing & Heating, 1301 Center St., Tacoma. ELECTRICAL: Larson Electric Service, 111 N. Columbia, Olympia; Glassey-Roth Electric, 221½ S. 38th, Tacoma; McInnis Electric Co., 221 State St., Marysville. HH 12-12. Previous report 12-5

● ALTERING EXIT FACILITIES— Vancouver, Wash.

Bids to be opened 1 p.m., December 20, by Washington Department of Institutions, Dr. Lee Sandritter, acting director, Olympia, Wash., for alterations to exit facilities in administration building, primary classroom building, and two dormitory buildings at State School for the Blind, Vancouver. Plans with Weaver and LaLonde, architects, 204 Central Bldg., Vancouver. $15 deposit. Certified check or bid bond 5%.

Includes altering portions of administration building to enclose existing stairways, providing exit facilities from the gym, construction of an exterior stairway on a light court adjacent to gym, a roof walk-way in primary classroom building, an exterior stairway from a second floor infirmary, construction of stair enclosures and providing room doors in two dormitories, and minor additions and extensions of electrical facilities. WB 12-11

CHURCH ADDITION— Wenatchee, Wash.

Fund raising campaign underway by Central Christian Church, Rev. David Nutting, pastor, William McHaney, campaign chairman, 12 N. Chelan, for construction of an addition and parking facilities at the existing church. Additional property adjoining the present site has already been purchased. More than $30,000 has been contributed to the fund during the past year, and if a like amount can be secured, construction will be started soon. GC 12-7

SHOP BUILDING— Wenatchee, Wash.

Bids will be called soon by City Council for construction of a shop building on a section of the city fill on the river bank in Wenatchee. The structure will be Y-shaped and will house city offices, repair and storage areas for city vehicles, cleaning and repairing section for garbage cans, plumbing and meter repair area for water department, carpentry and painting section, parts center. Specifications are with Chester Murray, city engineer, City Hall, Wenatchee. DC 12-7

▲OXYGEN STORAGE TRANSFER FACILITY— Whidbey Island, Wash.

Bids received by 13th Naval District, Public Works Office, room 100, Building 232, U. S. Naval Station, Seattle, for construction of temporary liquid oxygen storage and transfer facility, U. S. Naval Air Station, Whidbey Island, Oak Harbor, Wash.; NBy-6629; Spec. No. 6629/56. This as a rebid. The original project was cancelled under NBy-6569, as the bids received were too high. Project was re-issued under the new number. BIDS: Goren Construction Co., 506 14th, Bellingham, $11,177; Farlin J. Sahli, Coupeville, $11,395; Jack Fast Construction Co., 22 Etruria, Seattle, $12,429. James I. Barner Construction Co., Central Bldg., Seattle, bid $11,895, but was disqualified because he did not note acceptance of addendum No. 1. Bids opened December 7.
GW 12-8. Previous report 11-29

HOSPITAL ADDITION— Yakima, Wash.
(Estimated cost $250,000)

Preliminary drawings underway for construction of an addition to the southwest wing of the Yakima Valley Memorial Hospital, W. Tieton Drive, Yakima. Plans by John S. Villesvik, architect, and Maurice Smith, associate, 109 N. 3rd St., Yakima. Four or five wings and the basement of the hospital will be extended. Reinforced concrete frame and floors; brick exterior facing to conform to existing building. W. E. Kershaw is president of the Hospital Board.
IG 12-4

WAREHOUSE— Yakima, Wash.

Architect Thomas H. Hargis, Jr., Miller Bldg., Yakima, has been retained by W. P. Fuller & Co. to construct a new warehouse in Yakima. Site has not yet been selected.
IG 12-7

▲REFRIGERATION EQUIPMENT INSTALLATION— Yakima, Wash.

No bids received by General Services Administration, room 126, Federal Office Bldg., Seattle, for installation of refrigerator at the Federal Civil Defense Administration warehouse in Yakima; Project No. CR-10-602. Project will be readvertised soon.
GW 12-7. Previous report 11-24

SHOP, STORAGE BUILDING— Yakima, Wash.
(Estimated cost $200,000)

Gray & Osborne, consulting engineers, 228 S. 2nd St., Yakima, have been retained by Yakima County Commissioners, Courthouse, Yakima, to prepare plans for and supervise construction of a new maintenance shop and storage sheds, to be located on Fairview Ave. in Yakima, for Yakima County Highway Department.
IG 12-1. Previous report 10-12

HARDWARE STORE REMODELING— Yakima, Wash.

Preliminary plans nearly complete for complete remodeling of the Yakima Hardware Co. store, 116 E. Yakima, for Yakima for Federal Savings & Loan Co., Glen Bouton, assistant manager, 118 E. Yakima Ave., Yakima. Plans by Cowan & Paddock, architects, Larson Bldg., Yakima. Work consists if some structural changes and a complete rearrangement of the interior. IG 12-1

CHURCH— Yakima, Wash.
(Estimated cost $150,000)

Preliminary plans approved by Wesley Memorial Methodist Church, Rev. Blanton, pastor, Yakima, for construction of a new church at Glenside and Orchard Drive in Yakima. Plans by Cowan & Paddock, architect, Larson Bldg., Yakima. Plans include a sanctuary, religious educational building and fellowship hall to be connected by covered sidewalks. There will also be a wing consisting of choir room-story and parlor adjoining the sanctuary. Exposed frame buildings; tile roofing; cedar siding with concrete block; wood lath and plaster interior walls, some wood paneling; part plaster and part acoustical tile ceilings; concrete floors with carpeting and asphalt tile. Construction will start in early spring of 1957. I G 12-6

★CHURCH— Yakima, Wash.

Award to W. D. Ikenberry, Wenatchee, no amount released, by West Park Evangelical United Brethren Church, Rev. Lyle Willard, pastor, 39th and Summitview Ave., Yakima, for construction of a church in West Park Addition in Yakima. Plans by Champ Sanford, designer, 602 S. 5th Ave., Yakima.

One-story; full basement; poured concrete footings and foundation; 8" block masonry walls; frame, concrete floors; glued laminated, built-up roof; frame partitions; concrete stairways; steel windows; warm air perimeter heating system.
IG 12-12. Previous report 5-3

SERVICE STATION— Yakima, Wash.
(Estimated cost $20,000)

Construction underway, under the supervision of Standard Oil Co. contractor, for a new service station at 5th and W. C St. in Yakima, for Standard Oil Co. of California. D. E. Severson, N. Front and I Streets, Yakima. Poured concrete foundation; concrete slab floors; concrete block masonry walls; porcelain enamel exterior wall finish; 2x4 joints; Douglas fir joists and beams; roofing of plyscord sheathing to be laid with long side perpendicular. IG 12-12

Our news covers the six Pacific Northwest states and Alaska.

IDAHO

●BUILDING ALTERATIONS—Boise, Idaho

Bids to be opened 3 p.m., P.S.T., December 21 by General Service Administration, Federal Office Bldg., 909 1st Ave., Seattle, for alterations to quarters occupied by the internal revenue service in the Broadway Holding Co. Bldg., in Boise. Bidding material may be obtained from the custodian of the building, Boise; the regional office in Seattle; GSA Bldg., 19th and F streets N.W., Washington, D.C.

Alterations include furnishing and installing wood frame, glass and plywood partitions and wood frame railings, partition alterations, masonry partition removal, asphalt and acoustical tile patching, plastering and plaster patching, insulating air duct, electrical and plumbing alterations, painting and other miscellaneous related items. Completion time 25 calendar days.
DM 12-8

CHURCH— Boise, Idaho

Preliminary plans underway for a new church to be bordered by 11th and 12th Streets and Hays and Franklin in Boise, for First Methodist Church, 1012 State St., Boise. Plans by architects Harold Wagoner of Philadelphia, Pa., and Hummel, Hummel & Jones, 1324 Idaho St., Boise, $1,146,000 in funds have been subscribed for the project.
SC 12-8

BOY SCOUT BUILDING—Caldwell, Idaho

Site purchased in downtown Caldwell for the construction of a new office building and home for the Oregon-Idaho Boy Scout Council, Don Benson, president of the executive board. An architect will be retained soon by Harvey Hoff of Caldwell, chairman of the building committee.
GC 12-7

●■ ACTUATOR FACILITY— Idaho Falls, Idaho
(Estimated cost $40,000)

Bids will be opened 3 p.m., December 21, by Atomic Energy Commission, Box 1221, Idaho Falls, for construction of an actuator facility at the Aircraft Nuclear Propulsion Area of the National Reactor Testing Station in Idaho; Inv. No. AT(10-1)-885. Specifications with above office. Bid bond 10%. Completion time 90 calendar days.

Planholders: E. P. Wassler Sheet Metal Co., 209 N. 16th, Boise; Quinney Construction Co., 1474 S. 6th West, Salt Lake City, Utah; Wadsworth Construction Co., 255 Broadway, Idaho Falls; Arrington Constructino Co., Inc., Box 881, Idaho Falls.

Work includes construction of a 40'x67' building consisting of two sections of standard prefabricated building, (a) 40' wide by 42' long with 20' eave heights, and (b) 40' wide by 25' long with 10' eave height. Building to be complete with insulation and sheet metal wall covering, interior partitions, heating and ventilating, plumbing, lighting and electrical services. Work also includes extension of outside utilities including water, sewer, process piping and 13.8-kv power line with transformer bank.

Prospective bidders wishing to visit the site of the work should arrange to be at the AEC Area Engineer's Office, located outside the main gate to the ANP Area, by not later than 1 p.m. on either December 17 or December 18. SP 12-8. Previous report 12-5

●■ MAINTENANCE SHOP— Idaho Falls, Idaho
(Estimated cost $200,000)

Bids will be opened 3 p.m., January 4, by Atomic Energy Commission, Box 1221, Idaho Falls, for construction of MTR-ETR maintenance shop (MTR-653) at the MTR Area, National Reactor Testing Station, Idaho; Inv. No. AT(10-1)-841. Specificaitons with above office. Bid bond 10%. Completion time 210 calendar days.

Building will be 102'x169' with a wall height of 25'; concrete foundation; concrete slab floors; pumice block walls; structural stee lframework; metal roof deck over open web steel joists; built-up roofing. Work includes construction of area utilities and services including a 4160/480 volt (750 kva) electrical substation, switchgear, and modification of cubicle; underground steam supply and condensate return lines; sewer, water and air lines; electrical feeder lines (underground); telephone and fire alarm underground conduit; stainless steel drain line and substation yard fencing.

Planholders: Teller Construction Co., 845 N. Graham, Portland, Ore.; The Zack Co., 561 Market St., San Francisco, Calif.; H. G. Carl Construction Co., Box 387, Salem, Ore.; M. J. Brock & Sons, Inc., 28904 Rowena Ave., Los Angeles, Calif.; Wadsworth Construction Co., 255 Broadway, Idaho Falls; Arrington Construction Co., Inc., Box 881, Idaho Falls; C. W. Watkins & Son, Box 1786, Boise; Mountain States Construction Co., 36 E. 4th South, Bountiful, Utah.
SP 12-8. Previous report 10-10

▲BUILDING ADDITIONS, MODIFICATION— Idaho Falls, Idaho

Bids received by Atomic Energy Commission, Box 1221, Idaho Falls, for additions and modifications to buildings in the Central Facilities, Chemical Processing Plant and Experimental Breeder Reactor areas at the National Reactor Testing Station in Idaho; Inv. No. AT(10-1)-877. Bids opened December 5. LOW BIDS: C. W. Watkins & Sons, Box 1786, Boise, $63,482 (basic bid), $65,582 (alt.); Wadsworth Construction Co., 255 Broadway, Idaho Falls, $67,990, $68,990; Arrington Construction Co., Box 881, Idaho Falls, $68,621, $70,821.
SP 12-11. Previous report 11-28

HOT CELL AREA— Idaho Falls, Idaho
(Estimated cost $500,000)

Bids will be called late in December by Atomic Energy Commission, Box 1221, Idaho Falls, for construction of hot cell area at the ANP Project, National Reactor Testing Station, Idaho; Inv. No. AT(10-1)-873. Completion time 240 calendar days. Project includes the following: 1—Construction of a building 50'x106' with wall height of 16'; reinforced concrete grade beam and drilled pier foundations; structural steel frame; pumice block walls; steel roof deck, roof insulation and 5-ply built-up roofing with gravel. Features of building include hot cells constructed of high density concrete having wall thicknesses of approximately 3'. Cells will have high density lead glass viewing windows. Also included are 5-ton monorail hoist; three 100 lb. capacity bridge cranes; heating, ventilating, cooling and exhaust air systems; compressed air system including air dryer; vacuum cleaning system, high vacuum system; intercommunication system; extension of existing alarm system; plumbing, process piping and electrical systems. 2—Certain modifications to existing Pool Area of Bldg. ANP-607 including installation of a 30-ton bridge crane with related rails and beams, and modification of lighting and ventilation systems. 3—Construction of extensions and modifications to existing utilities and facilities in the yard area including water, sewer and waste lines; site grading; and relocation of gravel-surface driveways.
SP 12-12

CAFETEEN BUILDING MODIFICATION— Idaho Falls, Idaho
(Estimated cost $35,000)

Bids will be called late in December by Atomic Energy Commission, Box 1221, Idaho Falls, for modifications to MTR-ETR cafeteen building No. MTR-616 in the MTR Area at the National Reactor Testing Station at Idaho; Inv. No. AT(10-1)-884. Completion time 120 calendar days. Profect includes the following: 1—Construction of an addition to the existing MTR Cafeteen Bldg.; pumice block construction; 10'x51'; pumice block walls; concrete slab floor; built-up wood roof with 5-ply felt roof covered with gravel. 2—Modification of existing building and rooms, and with the above addition, providing for a new dining area to seat 90 persons. Work includes removal and construction of pumice block walls, wood stud - gypsum board board walls and ceilings; installation and modifications to heating and ventilating, plumbing and electrical systems; painting; floor covering; and furnishing or relocating cafeteria equipment and furnishings and all other work to complete the building as specified.
SP 12-12

■ HOSPITAL BUILDING, UTILITIES— Mountain Home AFB, Idaho

Planholders announced on construction of a hospital building and utilities at Mountain Home AFB, Elmore County, Idaho; ENG-45-164-57-11. Bids will be opened 2 p.m., P.S.T., January 15 by Corps of Engineers, Walla Walla District, Bldg. 602, City County Airport, Walla Walla.

Planholders: Wilson & Dodge Contractors, Box 93, Mountain Home; Donovan Construction Co., 1725 Carroll Ave., St. Paul, Minn.; J. H. Wise & Son, Inc., Box 267, Boise; C. W. Watkins & Son, Box 1786, Boise; E. H. Moore & Sons, 693 Mission St., San Francisco, Calif.; Max A. Boesiger, 185 E. 2nd N., Mountain Home; Baabbitt Construction Co., 1620 Taggart St., Boise; M. J. Brock & Sons, Inc., 2895 Rowena Ave., Los Angeles, Calif.; Donald M. Drake Co., 1600 N.W. Savier St., Portland, Ore.; Eiford Co., 1750 State St., Bellingham, Wash.; Sound Construction and Engineering Co., 1300 Aloha, Seattle, Wash.; Newell J. Olsen & Sons, 128 S. 1st E., Logan, Utah; R. E. Rice Construction Co., Box 5046, Boise.

Revised specifications will be issued soon for the project, which involves construction of a one-story building, utilities and site work.
DM 12-7. Previous report 12-5

▲SWIMMING POOL— Payette, Idaho

Bids received and will be released December 17 by City Council, City Hall, Payette, for the addition of 35' to the dressing rooms, a filter system, heating and lighting for the municipal swimming pool in Payette. Bids opened December 3. Improvements are being financed by the $30,000 bond issue approved in the November 6 election.
SC 12-12. Previous report 10-12

ENGINEERS and DRAFTSMEN

Architectural, Structural, Mechanical Electrical & Civil Detailers, Draftsmen, Specifications Writers for design & process of industrial buildings and plants.

Checkers, Expeditors, Inspectors, Construction Supervisors.

Openings for all grades, including supervisory.

Top paying permanent positions with fastest growing aluminum firm in America. Ample housing available near to plant. Many fringe benefits include paid holidays, paid vacation, group life and hospital insurance. Openings in Northwest and California.

All replies treated as confidential.

Personal interviews may be obtained with Mr. Shale, Director of Engineering Personnel, during regular hours or evenings up to 9:00 o'clock on Mondays, Tuesdays and Wednesdays, or write setting forth complete details on background and position desired.

HARVEY ALUMINUM

19200 S. Western Ave.
Torrance, California
NEvada 6-7685 or FAirfax 8-0660, Ext. 314

MONTANA

HIGH SCHOOL— Broadus, Mont.

Bond issue for $400,000 approved by the voters at the November election to finance

the construction of a new high school building at Broadus. Preliminary plans underway by Vernon Drake, architect, Empire Bldg., Billings, for Powder River School District, Broadus. GW 12-7. Previous report 10-3

CLINIC— Broadus, Mont.

Bond issue defeated by voters in the November 6 election for $40,000 to finance the construction of a health clinic in Broadus. Bond issue was put on the ballot by Powder River County Commissioners, Courthouse, Broadus. GW 12-7. Previous report 10-3

COUNTY HOSPITAL— Butte, Mont.

(Estimated cost $2,000,000)

Plans will be complete in May, 1957, for the new Silver Bow County Hospital to be located south of Butte. Preliminary plans underway by Norman J. Hamill & Associates, architects, 122 W. Granite St., Butte. SP 12-11. Previous report 11-15

YOUTH CENTER, CHURCH ADDITION— Butte, Mont.

(Estimated cost $100,000)

Bids will be called in spring of 1957 by Gold Hill Evangelical Lutheran Church, Rev. Fred D. Dommer, pastor, 934 Placer St., Butte, for construction of a new youth center and church addition for the church. Plans by Eldred F. Moyle, architect of Kestle-Godtland-Moyle, 409 Silver Bow Bldg., Box 1965, Butte.

The addition will be constructed as an L-shaped building merging with the present structure. The two-story structure will provide the following: 16 classrooms plus other areas available for classes; Sunday school office; nursery; pastor's study and church office; extension of church worship sanctuary permitting enlarged choir and chancel facilities; fellowship hall; full kitchen facilities; fireside fellowship room; choir room facilities; large children's chapel; added lavatory facilities. A building fund campaign is now unedway under the direction of D. J. McCaig, chairman of the committee. SP 12-11. Previous report 10-27

SCHOOL CONSTRUCTION— Butte, Mont.

Construction of two new elementary schools and repairs and alterations to nine existing schools have been recommended by Board of Trustees, School District No. 1, Silver Bow County, 111 N. Montana St., Butte. Report recommends the school district be bonded for $2,000,000. New building is recommended for the present Baline school to be located in a more centralized area west of the existing school building and east of McGlone Heights; Lincoln school to be replaced with a new one-story primary building for grades one, two and three on the same site. Consideration will be given a new junior high school in the northern part of the city; new building to replace and consolidate the Harrison and Franklin schools and another building to replace the Monroe and Jefferson schools. A new building will also be required in the Emerson district. GC 12-7

COUNTY HOME FOR THE AGED— Conrad, Mont.

Plans are underway by Holland & Lund, architects, Electric Bldg., Great Falls, on a pioneer home for the aged for Pondera County. An election was held recently by Pondera County Commissioners, Courthouse, Conrad, at which a $330,000 bond issue was approved by the voters to finance construction of the building. EE 12-7. Previous report 11-15

JET TEST CELL— Glasgow AFB, Mont.

Bids will be called soon and opened about January 16 by Corps of Engineers, Walla Walla District, Bldg. 602, City-County Airport, Walla Walla, for construction of a jet test cell at Glasgow AFB near Glasgow, Valley County, Mont.; ENG-45-164-57-16. Bid bond 20%. Plans will be with the Walla Walla district office.

Project involves: (a) Jet test cell structure having reinforced concrete roof, walls and floors, jet engine test augmentor and insulated tuned duct, insulation protected with aluminized steel pumphouse with metal roof and siding; fuel (one 100, one 300 and one 2,500 gal. tank), water (one 2,500 gal. tank), drainage, carbon dioxide and electrical systems; and installation of government furnished equipment. (b) Exterior work involving site grading, extension of water, sewer and electrical distribution system. DM 12-8

● TEACHER APARTMENTS— Wyola, Mont.

(Estimated cost $13,000)

Bids opening extended from December 20 to 8 p.m., January 9, by Big Horn County School District No. 29, Wyola, for remodeling the existing Wyola grade school to provide three teacher apartments. Plans with Drake & Gustavson, architects, Empire Bldg., Billings. $35 deposit. Project includes new partitions and new plumbing. EE 12-12. Previous report 12-5

● ELEMENTARY SCHOOL— Wyola, Mont.

Bids opening extended from December 20 to 8 p.m. January 9, by Big Horn County School District No. 29, Wyola, for construction of a new elementary school building at Wyola. Plans with Drake and Gustavson, architects, Empire Bldg., Billings. $50 deposit.

One-story; no basement; 217'x142', 16,000 sq. ft. area; T-shaped structure; concrete footings and foundation; solid masonry walls;; concrete slab floors; timber girders, beams, columns; flat roof, glued laminated roof over gymnasium; masonry, frame partitions; concrete stairways; aluminum windows; drywall, fir plywood and structural glazed tile interior wall finish; exposed masonry, drywall partitions; maple (gymnasium), vinyl asbestos tile, ceramic tile flooring; acoustical ceilings; wood exterior, wood and metal interior doors; equipment includes classroom wardrobes and lockers, and blackboards; rigid insulation in roof; hot water heating system, coal fuel. EE 12-12. Previous report 12-5

WYOMING

SCHOOL CONSTRUCTION— Basin, Wyo.

Plans are underway by Chandler C. Cohagen, architect, Hedden Bldg., Billings, for an elementary school in Basin. School District No. 17 in Basin has scheduled a special election for January 5 at which voters will consider a $265,000 bond issue to finance school construction in the district. EE 12-7. Previous report 11-28

CHURCH— Cheyenne, Wyo.

Bids will be called about February 1 by St. Christophers Episcopal Church, Rev. Wilbur Harvard, pastor, 2602 Deming, Cheyenne, for construction of a new church to be located northeast of Cheyenne. Plans nearly complete by Sam C. Hutchings, Jr., architect, 211 Read Bldg., Cheyenne. LY 12-11. Previous report 9-21

▲WARDEN STATION— Cokeville, Wyo.

Bids received by Wyoming State Game & Fish Commission, 400 State Office Bldg., Cheyenne, for construction of a deputy game warden station at Cokeville. Plans by Porter & Bradley, architects, 1009 E. Lincolnway, Cheyenne. LOW BID: Continental Construction Co., 1509 Carbon, Cheyenne, $26,500. SC 12-8

▲SCHOOL ALTERATIONS— Dayton, Wyo.

Bids received and subsequently rejected by Tongue River School District, Sheridan County, Wyo., for remodeling the activity center at a school near Dayton. Plans by Harrison L. Cook & Associates, architects, 119 N. Main, Sheridan. Bids opened November 9. LY 12-11. Previous report 11-7

UTAH

COMMUNITY TOWNSHIP— Utah, Arizona

Plans for a new community near the $400,000,000 Glen Canyon damsite near the Utah-Arizona border, were announced by Grand Development Co., Theodore I. Geurts, president, 169 E. 4th S., Salt Lake City. The 320-acre tract will be known as Canyon City and will be located about five miles northwest of the damsite. It will be in Arizon, but accessible only from the Utah side of the Colorado River.

Plans call for streets, water, drainage, light and other facilities, designed to serve a community of 10,000. GC 12-7

CLASSROOM ADDITIONS— Bountiful, Layton, Utah

Federal funds of $500,000 to $600,000 has been requested by Davis County Board of Education, Samuel Morgan, superintendent, Farmington, for classroom additions at Bountiful and Layton. If the funds are granted, 24 to 28 new classrooms will be constructed, including additions to the Central junior high school and Tolman elementary school at Bountiful and possibly a complete new school building in the district. GH 12-11

FORESTRY, BIOLOGICAL SCIENCE BUILDING— Logan, Utah

Plans announced by Utah State Building Board, Jerry G. King, superintendent of construction, 419 State Capitol Bldg., Salt Lake City, for construction of a new forestry and biological science building for the Utah State Agricultural College in Logan. An appropriation of $2,399,325 will be sought from the next legislature. The new building is to be located immediately north of the new agricultural science building on 9th East between 6th and 7th North in Logan. GH 12-11

HILLCREST ELEMENTARY SCHOOL— Ogden, Utah

(Estimated cost $570,000)

Working drawings will be complete January 1 for construction of the Hillcrest elementary school to be located northeast of the new Ben Lomand high school on 7th St. and Van Buren Ave. in Ogden. Plans by Eber F. and John L. Piers, architects, 2726 Harrison Blvd., Ogden. GH 12-11. Previous report 10-2

SHOPPING CENTER— Orem, Utah

Plans announced by Orem Investment & Development Co., George B. Carter, director, Orem, for a new shopping center to be located on the west side of State St. in Orem. First Security Bank has purchased the first lot in the new development. GH 12-11

COUNTY BUILDING— Price, Utah

(Estimated cost $55,000)

Working drawings underway by Fred L. Markham, architect, 45 N. University Ave., Provo, for construction of a new county building to be located at the corner of Carbon Ave. and 1st Ave. N. in Price. The building will house new offices, courtroom and jail for Carbon County Commissioners, Courthouse, Price. GH 12-11. Previous report 10-19

CHURCH UNIT— Roy, Utah

Haines & Purhonen, architects, 65 E. 4th South, Salt Lake City, have been retained by Our Savior Evangelical Lutheran Church, Rev. A. E. Wickstrom, pastor, Roy, to prepare plans for construction of the first phase of the church building program, a worship, social and educational unit, in Roy. GH 12-11

HOSPITAL— Roy, Utah

Preliminary plans approved by Weber County Commissioners, Municipal Bldg., Ogden, for a new 200-bed chronic disease hospital in Roy. Plans by Keith W. Wilcox, architect, 410 Kiesel Bldg., Ogden. The building is to be constructed behind the present structure which will be razed when the new building is completed. One-story building with six wings will contain 96,000 sq. ft., including partial basement. GH 12-11

SCHOOL ADMINISTRATION ADDITION— Salt Lake City, Utah

Preliminary plans underway for construction of an addition to the administration building at 1st South and 4th East, to be used for warehouse space, for Salt Lake City Board of Education, Dr. M. Bennion, superintendent, 440 E. 1st South, Salt Lake City. Plans by Fetzer & Fetzer, architects, 415 Zions Savings Bank Bldg., Salt Lake City.

COUNTY JAIL RENOVATION— **Salt Lake City, Utah**

(Estimated cost $109,900, first phase)

Deseret Architects & Engineers, Ness Bldg., Salt Lake City, have been retained by Salt Lake County Commissioners, Lamont B. Gunderson, chairman, City-County Bldg., Salt Lake City, to prepare plans for renovation of the county jail in Salt Lake City. The first phase of the repair work includes renovation of the plumbing system ($40,000), roof work ($3,500), cell remodeling ($25,000), cell gates, tracks and controls ($17,500), shower room repair ($3,900) and new wiring ($10,000). GH 12-11

GOVERNOR'S RESIDENCE— **Salt Lake City, Utah**

Governor-elect George D. Clyde will recommend to the legislature the construction of a Governor's residence. By virtue of a bill adopted in the 1955 legislature the present mansion at 603 E. S. Temple, Salt Lake City, will pass to the State Historical Society when Governor J. Bracken Lee moves out. GC 12-7

●**OFFICE, DISPLAY, WAREHOUSE BUILDING—** **Salt Lake City, Utah**

Sub-bids are being taken by General Builders Supply, owner-builder, 255 W. 27th South, Salt Lake City, for construction of a new office, display and warehouse building at the present site in Salt Lake City. Plans by Bruce J. McDermott, architect, 366 S. 5th East, room 105, Salt Lake City.

One-story; brick and lava block exterior walls; glued laminated beams; built-up gravel roofing; air conditioning in office and display area. GH 12-11

★**OFFICE, WAREHOUSE BUILDING—** **Salt Lake City, Utah**

(Estimated cost $55,000)

Contract negotiated with John DeYoung, general contractor, 1466 S. 10th East, Salt Lake City, by Dunkley Distributing & Produce Co., 70 E. Kelsey Ave., Salt Lake City, for construction of a new office and warehouse building to be located at California St. and 1st West in Salt Lake City. Plans by Bruce J. McDemott, architect, 366 S. 5th East, Salt Lake City.

GH 12-11. Previous report 11-9

●■**OFFICE HEADQUARTERS REMODELING—** **Vernal, Utah**

Bids will be opened 3 p.m., December 18, by Moon Lake Electrical Association, Vernal, for remodeling the office headquarters at Vernal. Plans with Jackson & Jackson, architects, 457 S. 3rd East, Salt Lake City. Bid bond 5%. A recent federal loan grant will finance this and two other projects.

Work includes converting part of building into new office area, 2,000 sq. ft.; new floor coverings and ceilings; alterations to heating plant; electrical work.

Planholders: Mitchell & Allred, Altamont; Campbell & Hatch, Vernal; Turner Construtcion Co., Vernal. GH 12-11

ALASKA

VILLAGE REHABILITATION— **Fairbanks, Alaska**

The Alaska Rural Development Board, James Hawkins, director, Juneau, has authorized an initial expenditure of $15,000 to aid the rehabilitation of the native village of Beaver, about 100 miles north of Fairbanks. The village, which is slowly being washed away by erosion from the Yukon River, will be rebuilt next spring, ½ mile from the present site. SC 12-8

●**WALL FOUNDATION REPLACEMENT—** **Ketchikan, Alaska**

Bids will be opened 2 p.m., December 20, by Alaska Communication System, Contracting Officer, 4735 E. Marginal Way, Seattle, for replacement of north wall foundation for sill of Alaska Communication System building No. 200 (two-family quarters) in Ketchikan; DA 45-041-sc-57-15. Specifications with above office. Completion time September 1, 1957. Project consists of excavating, filling and backfilling for building, concrete work and carpentry.

SP 12-11

■**WINDOW REPLACEMENT—** **Ladd and Eielson AFB, Alaska**

Planholders announced for replacing windows in one 500-man barracks and six 200-man barracks at Ladd AFB, and in nine 200-man barracks at Eielson AFB; ENG-95-507-57-53. Bids will be opened 11 a.m., December 18, by Corps of Engineers, Alaska District, D-E Bldg., Anchorage.

Planholders: The Coast Sash & Door Co., 1002 E. F St., Tacoma; Xato Products, Inc., North County Road, Rocky Point, L. I., N.Y.; B-E-C-K Constructors, 3647 Stone Way, Seattle; J. H. Manning, Inc., 29 Harriett Ave., Fairbanks; Elmer-Moody Millwork Co., 3635 Thorndyke Ave., Seattle; Palmer G. Lewis Co., Inc., 550 W. Idaho St., Seattle; Wayne Construction Co., 3810 Stone Way, Seattle; Grove, Shepherd, Wilson & Kruge, 120 6th Ave. N., Seattle; Acme Millwork, Inc., Box 668, Kirkland; C P & L Millwork, 24300 W. 60th St., Mountlake Terrace; Austin Millwork Co., 811 W. 47th St., Seattle.

SP 12-11. Previous report 12-4

PULP MILL— **Sitka, Alaska**

(Estimated cost $50,000,000)

In a public hearing at Sitka, conducted recently by the territorial Water Pollution Control Board, several reports were given concerning the proposed construction of a pulp mill in the Sitka area by Alaska Lumber & Pulp Co., 201 Central Bldg., Seattle. Plans by Harold D. Cavin, consulting engineer, 4840 Fremont, Bellingham. The head of the Commercial Fisheries Section of the Fish & Wildlife Service disclaimed any intention of delaying the construction. However, financing apparently has been slowed pending final clearance of the construction plan, principally that portion dealing with water pollution in the Silver Bay herring-spawning ground. It was proposed that a permit be granted under which final location of the mill's waste system would depend on completion of scientific surveys next year. A preliminary report of ocean currents in the Silver Bay area said there was still insufficient data available on the water flow during the winter and spring months. Donald L. McKernan, member of the Water Pollution Control Board, favored approval of a plan providing that construction of the discharge units be made at a maximum point outside the bay. These plans then could be changed if the new studies show less expensive control efforts are needed.

SC 12-12. Previous report 11-15

A Message To You--

EVERY advertisement in this issue of Pacific Architect and Builder contains information of interest to you.

Through our advertising pages you keep informed of recent developments in products and material. They tell the story of progress in the building industry.

Read them carefully. They contain facts that are not only interesting but that will add to your profits.

PACIFIC ARCHITECT & BUILDER

2418 Third Ave., Seattle 1, Wash.

Phone MAin 0285

Center of Everything

HOTEL

COMMODORE



Ideal location for making the most of your California trip. Tours leave our front door twice daily to Movie Studios, TV stations, Disneyland, and many, many other fabulous places to visit.

The Commodore is five minutes walk from the finest department stores and theaters—five minutes drive to Hollywood, still The Commodore offers quiet relaxed comfort away from the congestion of downtown traffic Superb dining facilities at moderate prices.

250 outside rooms with view

Tariff:							
Single	$4.00,	4.50,	5.00,	5.50,	6.00*,	6.50*,	7.00*
Double	6.00,	6.50,	7.00,	7.50,	8.00,	9.00*,	10.00*
Twin	6.50,	7.00,	7.50,	8.00,	9.00*,	10.00*	

**Studio rooms converting from sitting room into bedroom are available in this price range: perfect for conference or for your office away from home.*

1203 WEST SEVENTH STREET

LOS ANGELES 17

Telephone: TRinity 7431

ENGINEERING NEWS

Washington, Oregon, Idaho, Montana, Wyoming, Utah, Alaska

- ● Bids Called
- ★ Contract Awards
- ▲ Low Bids—Bids Received
- ■ Planholders—Prospective Bidders

COLORADO

★HEATING PLANT— Colorado Springs, Colo.

Award to J. F. White Engineering Co., Box 144, Englewood, Colo., $1,883,908, by Air Force Academy Construction Agency, Box 1670, Colorado Springs, for construction of two heating plants on the Air Force Academy site located about 10 miles north of Colorado Springs; Inv. No. (IFB) 05-613-57-6.

Heating plants—(1) Academic plant, 100' long, 75' wide, 65' high. (2) Service and Supply plant, 57' long, 50' wide, 52' high. Hot water generating equipment for these plants is under separate contract and is not a part of this project.

DM 12-7. Previous report 12-4

OREGON

WATER DEVELOPMENT— Four Corners, Ore.

Bond issue for $326,000 approved in December 3 election held in the Community Hall by East Salem Development Council, Four Corners, for water development for the Suburban East Salem Water District.

SC 12-8. Previous report 11-27

●GENERATOR— Green Springs Power Plant, Ore.

Bids to be opened February 6 by Bureau of Reclamation, Building 53, Denver Federal Center, Denver, Colo., for furnishing and installing one 16,842 kva, 95% fp, 600 rpm, 4,160 volt, 3 phase, 60 cycle, vertical-shaft, outdoor type, alternating current, hydraulic driven generator having water cooled heat exchangers for Green Springs Power Plant, Rogue River Basin Project near Ashland, Ore.; DC-4818. Information with reclamation office in Denver and Box 386, Camp White, Ore. Completion time 540 days for shipment, 120 days to install. DM 12-11

●GRADING, ROCK BASE, SURFACING— Portland, Ore.

Bids to be opened 10:30 a.m., December 20, by Board of Multnomah County Commissioners, John W. West, purchasing agent, 504 County Courthouse, Portland, for furnishing grading, constructing rock base, and surfacing with bituminous macadam, penetration type, on N.E. 137th Ave. from N.E. Halsey St. to N.E. San Rafael St. Plans with Roadmaster, Paul Northrup, 2115 S.E. Morrison St., Portland. $2 charge. Certified check or bid bond 10%.

Quantities: 2,663 c.y. unclassified excavation; 72' of 8" tongue and groove concrete pipe; 2 sumps; 4 catch basins; 987 c.y. 2½" minus and 330 c.y. ¾" minus material-in-base; 427 c.y. oil rock; 44 tons bituminous cement; 2,310 gal. PS-400 fuel oil; 19 ton asphaltic concrete B mix; 54" mail box posts.

WB 12-11

▲STEEL BROOM WIRE— Portland, Ore.

Bids opened by city purchasing agent, 208 City Hall, Portland, for furnishing spring steel broom wire. BIDDERS: Colorado Fuel & Iron Corp., 1350 N.W. Raleigh St., $15,254; Feenaughty Machinery Co., 112 S.E. Belmont St., $17,800; American Brush Co., 116 N.E. 6th Ave., $17,800. Of Portland. Bids received December 7.

WB 12-11. Previous report 11-28

▲CUTBACK ASPHALT— Portland, Ore.

Bids opened by Board of Multnomah County Commissioners, John W. West, purchasing agent, 504 Courthouse, Portland, for furnishing cutback asphalt for road department for year 1957. BIDDERS: American Bitumuls & Asphalt Co., 5501 N.W. Front Ave., Douglas Oil Co. of California, 5500 N.W. Front Ave., Union Oil Co. of California, Yeon Bldg., and Shell Oil Co., Terminal Sales Bldg., all Portland, each bid $55,812. Bids opened December 6.

WB 12-11. Previous report 11-27

●TOWER SIGNS— Portland, Ore.

Bids will be opened 3 p.m., December 19, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for furnishing and delivering fob, Kent, Wash. (Group A), Mead, Wash. (Group B), and Waconda, Ore. (Group C), tower signs and appurtenances; Inv. No. 8233. Specifications with above office. Delivery time 90 calendar days.

SP 12-11

●CAST IRON FITTINGS— Portland, Ore.

Bids to be opened 2 p.m., December 18, by city purchasing agent, 208 City Hall, Portland, for furnishing cast iron special fittings for Bureau of Water. Certified check or bid bond 10%.

WB 12-8

●CAST IRON PIPE— Portland, Ore.

Bids to be opened 2 p.m., December 19, by city purchasing agent, L. W. Rayner, 208 City Hall, Portland, for 540' of 24" and 3,000' of 2" cast iron water pipe. Certified check or bid bond 10%.

WB 12-8

●COPPER TUBING— Portland, Ore.

Bids to be opened 2 p.m., December 19, by city purchasing agent, 208 City Hall, Portland, for furnishing copper tubing for Bureau of Water. Certified check or bid bond 10%.

WB 12-8

FIRE TRUCK— Portland, Ore.

Tax levy for $38,000 approved by Rural Fire Protection District No. 12, Errol Heights, 5125 S.E. Ogden St., Portland, to finance purchase of two fire trucks. Bids on one tank truck will be called about July, after vote is certified. The other truck will not be purchased until more money from the levy is available.

WB 12-8

★MUCK SAND— Portland, Ore.

Award to Portland Gravel Co., 6917 N.E. Marine Drive, Portland, at unit prices quoted, approximately $12,000, by city purchasing agent, 208 City Hall, Portland, for muck sand. WB 12-7. Previous report 11-27

★CRUSHED ROCK, CRUSHED GRAVEL, UNCRUSHED GRAVEL— Portland, Ore.

Awards to Pacific Building Materials Co., 400 N. Thompson, Willamette Tug & Barge Co., Foot of N. Portsmouth St., and Ross Island Sand & Gravel Co., 4129 S.E. McLoughlin Blvd., all Portland, at unit prices quoted, for total of approximately $78,700, by city purchasing agent, 208 City Hall, Portland, for crushed rock, crushed gravel and uncrushed gravel.

WB 12-7. Previous report 11-27

▲STREET IMPROVEMENTS—Portland, Ore.

Bids received by city auditor, Will Gibson, City Hall, Portland, for street improvements. BIDDERS—S.W. ALTADENA AVE.: Barger Construction Co., 1319 N.W. Eastman Ave., Gresham, $9,668; Oregon Asphaltic Paving Co., 0441 S.W. Porter St., $9,782; Portland Road and Driveway Co., 7295 S.E. King Road, $9,864; Logan, Taylor & Co., 7800 N.E. Killingsworth St., $10,233; Parker & Fuhrman, 11524 S.E. Foster Road, $10,489; Charles S. Camplan, 2035 S.W. 58th Ave., $10,930. S.W. FREEMAN ST.: Barger Construction, $10,824; Parker & Fuhrman, $11,073; Oregon Asphaltic Paving Co., $11,369; Portland Road and Driveway Co., $11,418; Logan, Taylor & Co., $11,661; Charles S. Camplan, $13,575. Of Portland except as noted. Bids opened December 5.

WB 12-7. Previous report 11-30

▲STREET SWEEPER— Portland, Ore.

Bids received by city purchasing agent, 208 City Hall, Portland, for one automotive street sweeper. BIDDERS: Feenaughty Machinery Co., 112 S.E. Belmont St., Portland, $10,240; Contractors Equipment Corp., 2727 S.E. Union Ave., Portland, $11,480. Bids opened December 4.

WB 12-7. Previous report 11-28

▲SEWERS— Portland, Ore.

Bids received by city auditor, Will Gibson, City Hall, Portland, for sanitary sewers. BIDDERS — ALLEY IN BLOCK 23, VERMONT HILLS: P. S. Lord Mechanical Contractors, 4507 S.E. Milwaukie Ave., Portland, $2,993. S.E. 41ST AVE.: Don Thornton, 2809 W. 21st St., Bancouver, $948; P. S. Lord, $1,019; S. K. Azar, 5306 S.E. 99th Ave., Portland, $1,193. Bids opened December 5.

WB 12-7. Previous report 11-30

●PANELBOARD— Portland, Ore.

Bids to be opened 1 p.m., P.S.T., December 20, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for panelboard, fob Eavan Spur, Vancouver, Wash.; Inv. No. 8231. Specifications with BPA, Portland.

DM 12-7

★STATE HIGHWAY PROJECT— Portland, Ore.

Award by Oregon State Highway Commission, Salem, for a highway construction project on which bids were opened September 27 in Portland.

WHITESON SECTION—Grading, asphaltic concrete paving 0.50 mile and construct 275' concrete and timber bridge on Pacific Highway West about four mile south of McMinnville, Yamhill County; FAP No. F-58(2).

AWARD: Workman & Wilson, Route 1, Box 30, Canby, $139,862.

GW 12-7. Previous report 9-29

●BUS AND CABLE FITTINGS— Portland, Ore.

Bids to be opened 3 p.m., P.S.T., December 27, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for bus and cable fittings; Inv. No. 8230. Specifications with BPA, Portland.

DM 12-7

★GRADING— Portland, Ore.

Award to Funderburk Construction Co., P. O. Box 633, Sutherlin, $274,861, by Bureau of Public Roads, 753 Morgan Bldg., Portland, for grading 6.830 mi. Oregon Timber Access Road Project BLM 6-A, Yellowstone Creek Road, Bureau of Land Management-Salem District, Linn County, Ore.

WB 12-12. Previous report 12-1

▲FROST COVERING— Portland, Ore.

Bids received by Commission of Public Docks, Thane E. Brown, chief engineer, 3070 N.W. Front Ave., Portland, for fabrication and installation of wood frost covering for the high tank riser pipe at Terminal No. 4, Portland. BIDDERS: Lorentz Bruun, 3636 S.E. 20th Ave., $2,408; National Tank & Pipe Co., 2301 N.E. Columbia Blvd., $2,700; Charles S. Camplan, 2035 S.W. 58th Ave., $2,859. Of Portland. Bids opened December 7.

WB 12-12. Previous report 12-4

■GRADING, BRIDGES— Portland, Ore.

Additional planholders announced for grading 0.853 mi.; constructing a 126' reinforced concrete bridge, Oregon Forest Development Road Project, Siskiyou 376-B, Chetco River Road, Siskiyou National Forest, Curry County, Ore. Bids to be opened 10 a.m., December 19, by Bureau of Public Roads, 753 Morgan Bldg., Portland. Plans

with F. E. Andrews, division engineer, BPR, Portland.

Additional planholders: John Burman & Sons, General Delivery, Crescent City, Calif.; Inland Construction Co., 6202 S.E. Harmony Road, Milwaukie; Basalt Rock Co., Inc., Napa, Calif.; Q. L. Rufener, Inc., 4729 S.E. Ash St., Portland; Fred Rouse, 515 Hood St., Salem; Miller & Strong, Inc., P. O. Box 366, Eugene; John A. Roeblings' Sons Corp., 900 1st Ave. S., Seattle.

WB 12-12. Previous report 12-6

★STEEL AND CONCRETE BRIDGE— Roseburg, Ore.

Award to West Coast Steel Works, 5609 N.E. 77th, Portland, $17,950, by Douglas County Court, Courthouse, Roseburg, for construction of the Floyd C. Frear bridge over the North Umpqua River on Road No. 200. SP 12-12. Previous report 12-4

SOFTBALL COURT— Salem, Ore.

Kent Mathewson, city manager, City Hall, Salem, and Vern Gilmore of Salem School District, requested the State Board of Control to permit the city to erect a softball court on State Hospital property in the vicinity of 15th and Walker streets, Salem.

SC 12-12

SEWERS, SEWAGE TREATMENT PLANT— Weston, Ore.

Plans to be completed soon by Walter L. Woodward, consulting engineer, Empire State Bldg., Spokane, for construction of sewage system and treatment plant on Highway No. 11 for City of Weston. A bond issue of $146,000 to finance the work was approved by the voters in October.

PN 12-7. Previous report 10-23

WASHINGTON

★PUMP INSTALLATION—Anacortes, Wash.

Award to B & B Plumbing & Heating Co., 501 Commercial, Anacortes, $1,393 (installation), $350 to $400 (electrical work), by City Hall, Anacortes, for installation of a third pump at the city's Ranney well water installation at Anacortes. ET 12-11

STORM SEWER— Anacortes, Wash.

Bond issue defeated by voters in the November election, for construction of a storm sewer in Anacortes. City council plans to again place the measure on the ballot early in 1957. ET 12-7

STREET IMPROVEMENTS, SEWERS— Anacortes, Wash.

Election will be held again in March in Anacortes on a bond issue to finance storm sewers and street improvements in Anacortes. A bond issue of $225,000 for this project was defeated in the November election. ET 12-8. Previous report 11-10

BREAKWATER— Anacortes, Wash.

Material is expected to arrive by December 15 for construction of one of the Cap Sant breakwaters, according to Lloyd Foster, port manager, Anacortes. Larson Construction Co., Box 120, Astoria, Ore., was awarded the contract for dredging the waterway and expects to move its dredger to Anacortes by the middle of the month. ET 12-7

BRIDGE, CULVERT, FILL— Bellingham, Wash.

A $200,000 general obligation bond issue was approved December 3 by City Council, Alfred B. Loop, city comptroller, City Hall, Bellingham, to finance construction of a bridge and a culvert and fill in Bellingham. The bridge will be located on the west end of Central Ave., giving access to Pacific Coast Paper Co. and Puget Sound Pulp Mill operations in Bellingham. The culvert and fill are known as the Commercial and Young St. Project, and crosses Whatcom Creek, adjacent to the City Hall, connecting the Bellingham business area with residential and school areas directly to the north. Both spans will be placed in areas of heavy traffic and will offer shorter routes, speedier accommodations and better means of fire protection to the city. With the passage of the ordinance, city engineer, Ted Scholz has been asked to prepare the plans and specifications for the two projects.

ET 12-7. Previous report 11-27

NATURAL GAS CORPORATION FRANCHISE— Bellingham, Wash.

The Cascade Natural Gas Corp., Securities Bldg., Seattle, has been granted a 50-year franchise to locate, construct, operate and maintain, and finally remove, gas transmission and distribution pipelines in, over along and under Whatcom County roads, highways and other county property. The franchise provides that all construction and installation work where crossing county roads or rights-of-way or other county property outside of corporate limits of any incorporated town are subject to approval and pass the inspection of the county engineer. ET 12-7

■ WATER MAIN— Bellevue, Wash.

Planholders announced for the furnishing and installing 3,500′ of 8″ and 1,200′ of 6″ class 150 asbestos-cement water main; alternate bids will be accepted on class 150 cast iron, mechanical joint water main. Bids will be opened 8 p.m., December 17, by King County Water District No. 68, Richard Montgomery, secretary, district office, Meydenbauer Hill, S.E. 7th and 96th S.E., Bellevue. Plans with Howard T. Harstad & Associates, consulting engineers, 1000 Lenora, Seattle. $10 deposit. Certified check 5%.

Planholders: Frank Coluccio Construction Co., 7778 Seward Park Ave.; Shoreline Construction Co., 12519 15th Ave. N.E.; Lauray Crane Service Co., 1438 130th N.E., Bellevue; Pacific Waterworks Supply Co., 2900 1st Ave. S.; H. D. Fowler Co., Inc., 901 Lane; Deer Construction Co., 4223 Graham; West Coast Construction Co., Inc., 835 W. 48th; Bellevue Plumbing and Heating Co., 102nd and Main, Bellevue. All of Seattle, unless otherwise stated.

GW 12-7. Previous report 12-1

★FENCING— Burbank, Wash.

Award to Robinson & Robinson, Moses Lake, $6,300, by U.S. Fish & Wildlife Service, Interior Bldg., 1001 N.E. Lloyd Blvd., Portland, for construction of 11.09 miles of boundary fence at the McNary National Wildlife Management Area in Burbank; Inv. No. FWI-3935.

WB 12-8. Previous report 11-15

RAIL SPUR— Chehalis, Wash.

Construction will be underway soon for construction of ½ mi. of railroad spur in a 35-acre industrial site in Chehalis where the Goodyear Rubber Co. plans to construct a plant. This is a civic project to attract new industries to the city. Chehalis residents will be asked to buy 1,600 railroad ties at $4 each. Ties are to made from timber logged in the Chehalis area and prepared there. The Goodyear plant will occupy about half of the site. GC 12-12

INFILTRATION PLANT— Connell, Wash.

The City Council recently met at a special meeting with representatives from the engineering firm of Clark, Groff & Cave, 3249 Triangle Drive, Salem, to discuss tentative plans for building an infiltration plant for an additional water supply in Connell. The engineering firm has been engaged to draw plans and estimate costs for the project.

DC 12-7

● DISTRIBUTION TRANSFORMERS— Covington, Vancouver, Wash.

Bids will be opened 1 p.m., December 27, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for furnishing and delivering fob Covington, 3 single phase outdoor distribution transformers, and fob Eavan Spur, Vancouver, one three phase outdoor distribution transformer; Inv. No. 8234. Specifications with above office. Delivery times 100 (Covington item) and 150 (Vancouver item) calendar days. SP 12-11

★STOCKPILING GRAVEL— Ephrata, Wash.

Award to Connell Sand & Gravel, Inc., Box 156, Connell, $14,402, by Bureau of Reclamation, Box 368, Ephrata, for furnishing, placing and stockpiling gravel for road surfacing, Block 47, six miles southeast of Othello, Adams and Franklin counties, Wash.; Spec. No. 117C-395.

SP 12-11. Previous report 11-16

▲TRAFFIC SIGNAL CONDUIT— Everett, Wash.

Bids received by John L. Sugars, city clerk, City Hall, Everett, for the necessary trench excavation and backfilling for the installation of traffic signal conduit and installation of a manhole and concrete pull box on Pacific Ave. from Colby to Wetmore in Everett. Bids opened December 6. LOW BIDS: Odegarde Construction Co., Box 735, Everett, $1,053; Pohl Landscaping, Everett, $1,244; Excavators, Inc., 5756 29th N.E., Seattle, $1,529. HH 12-8. Previous report 11-27

▲WATER MAIN— Everett, Wash.

No bids received by John L. Sugars, city clery, City Hall, Everett, for installation of a 6″ water main, fire hydrant and necessary appurtenances in Alverson Blvd. from the north line of Marine Park Addition to approximately 200 south of center line of 3rd St., Everett. Bids were to have been opened December 7. Project will be readvertised.

HH 12-8. Preivous report 11-27

▲POWER TRANSFORMER— Frenchman Springs Pumping Plant, Wash.

Bids received by Bureau of Reclamation, Bldg. 53, Denver Federal Center, Denver, Colo., for a power transformer for Frenchman Springs pumping plant switchyard, Columbia Basin Project, Wash.; DS-4773. Bids opened December 6. LOW BID: Wagner Electric Corp., St. Louis, Mo., $43,847. 2ND LOW BID: Legnano Electric Corp., New York, $44,600. Both fob Quincy.

SP 12-12. Previous report 11-23

●■ FLIGHT SECURITY FENCE RELOCATION— Geiger Field, Wash.

Bids will be opened 2 p.m., December 19, by U.S. Air Force, Purchasing & Contracting Office, Geiger Field, Spokane, for relocation of flight line security fence at Geiger Field. Specifications with above office.

Planholders: Sceva Construction Co., N. 2928 Madelia; Warner & Brown, N. 2904 Madelia; Allied Industries, 1028 E. 1st; Colonial Construction Co., 615 W. Mansfield; Lester Johnson, Box 81, Yardley; Modern Construction Co., N. 6605 Division; Walter G. Meyers & Son, N. 1407 Calispell; A. J. Popp Construction Co., W. 205 29th; P & B Co., Inc., E. 2803 Main. All of Spokane unless noted. SC 12-12

■ RAILWAY RELOCATION— Green River, Wash.

Planholders announced for relocation of Northern Pacific Railway, Mile 81.5 to Mile 81.6, Section 3, Eagle Gorge Reservoir, Green River, Wash.; CIVENG-45-108-57-22. Bids will be opened 2 p.m., P.S.T., January 10, by Corps of Engineers, Seattle District, 4735 E. Marginal Way, Seattle.

Planholders: Larsen Construction Co., 468 Colman Bldg., Seattle; Morrison-Knudsen Co., Inc., 603 Hoge Bldg., Seattle; S. S. Mullen, Inc., 621 9th Ave. N., Seattle; Louis Elterich Co., Box 868, Port Angeles; Carl M. Halvorson, Box 1449, Portland, Ore.; Lee Hoffman, Box 37, Beaverton, Ore.; Charles C. Steward, Box 1191, Birmingham, Ala.; General Construction Co., Box 3845, Seattle; Acme Construction Co., Box 257, Solon, Ohio; L. A. Alberto Construction Co., 6922 W. Armitage Ave., Chicago, Ill.

DM 12-7. Previous report 12-4

● PRESTRESSED CONCRETE BRIDGES— Mt. Rainier Project, Wash.

Bids will be opened 10 a.m., December 20, by Bureau of Public Roads, F. E. Andrews, division engineer, 753 Morgan Bdlg., Portland, for construction of 70′ and 192′ prestressed concrete bridges, Mt. Rainier National Park Project 3-A9 and 5-C4, White River Road and Eastside Road, Pierce County, Wash. Specifications with above office.

Quantities: 525 c.y. unclassified excavation; 360 c.y. concrete; 37,200 lb. reinforcing steel; 12 prestressed girders; 604′ steel hand rail. SP 12-8

★**DEEP WELL PUMP—** **Naches, Wash.**

Award by U. S. Forest Service, regional supply officer, 729 N.E. Oregon St., room 18, Portland, Ore., for furnishing and completely installing an automatic electric driven submersible type deep well water pump complete with motor control box at Naches Ranger Station near Naches, Wash. AWARD: Pomona Service and Supply Co., 2311 Fruitville Blvd., Yakima, $825. OTHER BIDS: Polson Implement Co., 631 Western, Seattle, $995; W. B. Henderson, 417 Pacific Ave., Ellensburg, $1,020; Western Drilling and Equipment, 1545 E. Bay St., Tacoma, $1,334; M. I. Stuckey, 9011 S.E. 40th, Mercer Island, $1,847. Bids opened December 5. WB 12-8. Previous report 12-6

■ **STATE HIGHWAY PROJECTS—** **Olympia, Wash.**

Planholders announced for highway construction on which bids will be opened 10 a.m., December 18, by Washington State Highway Commission, Transportation Bldg., Olympia.

MEGLER TO KNAPPTON — Clearing, draining, grading 2.857 mi. SSH No. 12-B, Pacific County; FAP No. F-003-1(5).

Planholders: Peter Kiewit Sons' Co., Box 1777, Vancouver; Strong & Macdonald, Inc., 4045 Ruston Way, Tacoma; P. J. Anderson & Sons, 13501 Aurora, Seattle; Bocek Bros., Box 666, Houiam; Erickson Paving Co., Route 2, Box 2155, Bellevue; Natt McDougall Co., 824 Pittock Block, Portland, Ore.; Osberg Construction Co., 1132 N. 128th, Seattle; American Bitumuls and Asphalt Co., Box 489, Portland; J. N. Conley, 4332 N.E. Royal Court, Portland; Erland & Blickle, 8265 N. Borthwick, Portland; N. Fiorito Co., Inc., 844 W. 48th, Seattle; Morrison-Knudsen Co., Inc., 603 Hoge Bldg., Seattle; Palmberg Construction Co., Box 991, Astoria, Ore.; United Construction Co., Box 5075, Portland; Hart Plumbing and Heating, Inc., 11555 27th Ave. N.W., Seattle.

NORTH BURN ROAD TO CONWAY JCT. Clearing, draining, grading, surfacing, construction of two reinforced concrete slab bridges on 6.027 mi. PSH No. 1, Snohomish and Skagit counties; FAP No. IN-001-4(17).

Planholders: American Pile Driving Co., Inc., Pier 2, Everett; Peter Kiewit Sons' Co., Box 1777, Vancouver; Mount Vernon Sand and Gravel Co., 802 N. 1st, Mount Vernon; Thos. Scalzo Co., 3211 Airport Way, Seattle; Wilder Construction Co., Inc., 7840 State, Bellingham; P. J. Anderson & Sons, Seattle; J. E. Collins & Co., 1314 E. 43rd, Seattle; Fiorito Bros., 1100 Leary Way, Seattle; Goren Construction Co., 506 14th, Bellingham; Grove, Shepherd, Wilson & Kruge, Inc., 120 6th N., Seattle; Northwestern Construction Co., 3950 6th N.W., Seattle; Osberg Construction Co., 1132 N. 128th, Seattle; Soule Steel Co., Box 2685 Terminal Annex, Seattle; J. P. Surace Construction Co., 3238 Seaview, Seattle; J. J. Welcome Construction Co., Box 641, Redmond; American Bitumuls and Asphalt Co., Box 389, Portland; Associated Sand and Gravel, 2508 Colby, Everett; J. N. Conley, 4332 N.E. Royal Court, Portland; Erland & Blickle, Portland; N. Fiorito Co., Inc., Seattle; Harry H. Hawkins, 16274 39th N.E., Seattle; Palmberg Construction Co., Box 991, Astoria; Hart Plumbing and Heating, Seattle.

N.E. 132nd STREET OVERCROSSING—Reinforced concrete slab bridge on 0.022 mi. SSH No. 2-A, King County; FAP No. U-025-1(12).

Planholders: R. C. James & Son, Box 743, Bellevue; J. E. Collings & Co., 1314 N. 43rd, Seattle; American Pile Driving Co., Inc., Pier 2, Everett; General Construction Co., Box 3845, Seattle; Larsen Construction Co., 468 Colman Bldg., Seattle; John E. Alexander, 17295 15th N.W., Seattle; Lake City Gravel and Materials, Inc., 10728 Bothell Way, Seattle; MacRae Bros., 5900 1st Ave. S., Seattle; Soule Steel Co., Seattle; Wilson & Simpson, Box 1070, Port Angeles; N. Fiorito Co., Inc., Seattle; Harry H. Hawkins, 16274 39th N.E., Seattle.

GLADE NORTH ROAD—Draining, grading, surfacing on 6.516 mi. Franklin County road, FAS No. S-1035(2).

Planholders: Frank G. Baulne, Inc., 5305 E. Boone Ave., Yardley; C & E Construction Co., Inc., Box 1545, Yakima; Curtis Construction Co., Box 106, Spokane; F. H. DeAtley & Co., Box 648, Lewiston, Idaho; C. J. Painter, 947 W. Court, Pasco; Grant Construction Co., Box 351, Coeur d'Alene, Idaho; J. W. Hardison, Box 48, Yakima; R. H. Sussex, 2850 State Highway 2-A, Bellevue; B & B Crushing Co., Box 587, Mill City, Ore.; J. N. Conley, Portland; W. F. Herret Co., 1619 Baldwin, Spokane; D. Sullivan, Box 37, Parkwater Station, Spokane; Ray Weist, Box 919, Yakima; Clifton & Applegate, E. 5521 Railroad Ave., Yardley; James Crick & Sons, Box 4205 Station B, Spokane; L. W. Vail Co., 1948 N. 4th, Pasco.

HOQUIAM NORTH - SCALE HOUSE — Draining, grading, surfacing asphaltic concrete paving, removing and resetting scales and scale house in Grays Harbor County; a State Project.

Planholders: Bocek Bros., Box 666, Hoquiam; Lake City Gravel and Materials, Inc., 10728 Bothell Way, Seattle.

DM 12-11. Previous report 11-30

▲**ACCESS ROAD—** **Paine AFB, Wash.**

Bids received by U. S. Air Force, Purchasing and Contracting Office, Paine AFB, for construction of an access road to the TACAN facility at Paine AFB; Inv. No. 45-602-57-22. Bids opened December 4. LOW BIDS: Bass Construction Co., 12526 Aurora, Seattle, $5,955; Excavators, Inc., 5756 29th N.E., Seattle, $6,783; P. J. Anderson & Sons, 13501 Aurora, Seattle, $6,960.

HH 12-8. Previous report 11-9

●**WATER TANK REPAIRING, PAINTING—** **Pasco, Wash.**

Bids will be opened 8 p.m., December 19, by City Clerk, City Hall, Pasco, for cleaning, scaling, repairing where necessary and painting the exterior and interior of a 400,000-gallon steel elevater water tank at Pasco. Specifications with George R. Fisher, city engineer, City Hall, Pasco. SC 12-11

■**SANITARY SEWER LINES, WATER DISTRIBUTION—** **Pasco, Wash.**

Planholders announced for construction of sanitary sewer and water distribution lines in LID No. 62, Pasco. Bids will be opened 8 p.m., December 18, by Adah M. Perry, city clerk, City Hall, Pasco.

Planholders: Kenneth Nelson, Route 2, Pasco; Warren Excavation Co., 910 S. 9th, Pasco. SP 12-8. Previous report 12-5

SEWERS, SEWAGE TREATMENT PLANT— **Palouse, Wash.**

(Estimated cost $85,000)

Bids will be called soon by City Council, City Hall, Palouse, for construction of sewer improvements in the city. Plans have been completed by Walter L. Woodward, consulting engineer, Empire State Bldg., Spokane, for the project, which includes construction of a sewer interceptor and a treatment plant. PN 12-7

▲**NATURAL GAS DISTRIBUTION SYSTEM—** **Richland, Wash.**

Bids received by General Electric officials, c/o Atomic Energy Commission, Bldg. 703, Richland, for construction, operation and maintenance of a natural gas transmission and distribution system in Richland. Bids opened December 5. No amounts were released by the officials. TWO LOW BIDS: Hallmac Construction Co., Spokane; Columbia Basin Natural Gas Co., Spokane.

SC 12-12. Previous report 11-23

▲**EARTHWORK, STRUCTURES—** **Moses Lake, Wash.**

Bids received by Bureau of Reclamation, P. R. Nalder, project manager, Box 368, Ephrata, for earthwork and structures for block 89 wasteway extensions, west of Moses Lake, Grant County, Wash.; Spec. No. 117C-404. LOW BIDS: George W. Lewis, 1938 S. Hartford Place, Kennewick, $33,314; Glen Dusky, Moses Lake, $34,520; A. R. Syme and George A. Grant, 832 W. Marie, Pasco, (joint venture), $35,081. Engineer's estimate, $48,589. There were 17 bids submitted at the opening on December 11.

GW 12-12. Previous report 11-14

●**MANHOLES—** **Seattle, Wash.**

Bids to be opened 9:30 a.m., December 17, by King County Commissioners, 402 County-City Bldg., Seattle, for constructing three manholes. Specifications with purchasing department, 606 County-City Bldg. DM 12-7

●**CONCRETE PIPE PRODUCTS—** **Seattle, Wash.**

Bids to be opened 9:30 a.m., December 17, by King County Commissioners, 402 County-City Bldg., Seattle, for furnishing concrete pipe products for the year 1957. Specifications with purchasing department, 606 County-City Bldg. Bid bond 5%. DM 12-7

●**ELECTRICAL DISTRIBUTION, FORT LAWTON—** **Seattle, Wash.**

Bids to be opened 2 p.m., P.S.T., December 20, by Corps of Engineers, Seattle District, 4735 E. Marginal Way, Seattle, for electrical distribution for off-site utilities, Capehart Family Housing, Fort Lawton, Seattle; ENG-45-108-57-72. Bid bond 20%. Specifications with Seattle district office. Completion time 75 calendar days.

DM 12-8. Previous report 11-30

●**AUTOMATIC SPRINKLERS—** **Seattle, Wash.**

Bids to be opened 9:30 a.m., January 7, by King County Commissioners, W. R. Carroll, county purchasing agent, room 606, County-City Bldg., Seattle, for furnishing all labor and materials necessary to install automatic dry pipe sprinklers at King County Hospital, 325 9th Ave., Seattle. Specifications with purchasing department, above address. Certified check, cashier's check or bid bond 5%. For physical inspection of areas contact chief engineer, MU. 3050.

The sprinkler system will be installed on the hospital grounds in the following areas: emergency entrance level, below loading platforms in shipping areas, under marquees. A control valve will connect the outside sprinklers to the inside system. GW 12-8

●**LIQUID ASPHALT—** **Seattle, Wash.**

Bids to be opened 9:30 a.m., December 17, King County Commissioner, 402 County-City Bldg., Seattle, for furnishing liquid asphalt. Specifications in room 606, County-City Bldg. Certified check or bid bond 5%. DM 12-7

●**TRANSFORMERS—** **Seattle, Wash.**

Bids to be opened 10 a.m., January 15, by Paul R. Hendricks, city purchasing agent, room 511, County-City Bldg., Seattle, for furnishing 10, 750 kva volt network transformers; 7, same 500 kva 14400 volt; Spec. No. 1466. Plans with purchasing department above address. GW 12-7

●**NETWORK PROTECTORS—Seattle, Wash.**

Bids to be opened 10 a.m., December 20, by Paul R. Hendricks, city purchasing agent, room 511, County-City Bldg., Seattle, for furnishing 10, 2500 amp network protectors; 7, same 1600 amp. Specifications with purchasing department. GW 12-7

▲**WIRE—** **Seattle, Wash.**

Bids received by Paul R. Hendricks, city purchasing agent, room 511, County-City Bldg., Seattle, for furnishing 7,000' wire, three-conductor No. 3/0 PILC; 3,000' wire, three-conductor, No. 4 PILC. LOW BIDS: W. T. Henley, London, England, $17,164 (7,000'), $5,040 (3,000'); Enfield Cable Co., London, England, $17,500, $5,040; Phelps Dodge Copper Products Corp., Habirshaw Cable and Wire Division, 300 Park Ave., New York, $21,672, $6,480. Bids opened December 6. GW 12-7. Previous report 11-16

●**WATER MAIN, PIPELINE—Seattle, Wash.**

Bids to be opened 2 p.m., December 26, by Board of Public Works, E. G. Henry, secretary, room 512, County-City Bldg., Seattle, for construction of a water main pipeline on Warren Ave. from Mercer St. to approximately 100' north of Lee St., in Seattle; Ord. No. 85369B. Plans will be available after December 17 from William E. Parker, city engineer, room 404, County-City Bldg., Seattle. $10 deposit. Certified check, cashier's check or bid bond 5%.

Quantities: 2,585' excavation and backfill for 20" cast iron pipe; 35' excavation and backfill for 12" cast iron water main; 10' excavation and backfill for 6" cast iron pipe water main; 2,440', 20" cast iron pipe, class 150; 145', 20" cast iron pipe class 250; 35', 12" cast iron pipe class 250; 10', same; 5', 4" cast iron pipe class 150; 16', 20" cast iron

pipe class 250; 40', 2" galvanized steel pipe; 25 c.y. concrete blocking; 25 c.y. select backfill material; valves, valve chambers, valve assemblies, blow-off assemblies; 1,000 lb. special castings; 500 lb. shackle rods; 50 c.y. extra excavation; 50 c.y. gravel. GW 12-7

●SPUR AND TRACK EXTENSION, FOUNDATIONS, SITE IMPROVEMENTS— Snohomish, Wash.

Bids will be opened 2 p.m., December 21, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for construction of Snohomish substation spur and transfer track extension, foundations, and site improvements, Snohomish County, about ½ mile north of the Snohomish city center; Inv. No. 8232. Specifications with above office. $5 deposit. Bid bond 25%. Completion times 100 (spur and track extension, surfacing, transformer foundations and switchyard extension, fence relocation at end of spur) and 130 (completion of balance of contract) calendar days.

Quantities: 260 c.y. excavation and grading; 1,600 c.y. borrow; 200 c.y. structural excavation; 78 c.y. reinforced concrete footings; 300' spur and transfer track extension; 2,110 wood drainage flumes; 350' wood outlet flumes; 230' drainage ditch reconstruction; 3,900 sq. yd. cover crop; 320 c.y. crushed rock. SP 12-11

▲CURBING, PAVING, GRADING— Spokane, Wash.

Bids received by City Council, City Hall, Spokane, for paving, necessary curbing and necessary grading of Belt St. from Walton Ave. to Garland Ave., and of Walton Ave. from Belt St. to Hemlock St., Spokane. All bids exceeded the estimate and have been referred to Board of Public Works. Bids opened December 6. LOW BIDS: S & F Construction Co., Route 2, Box 188, Spokane, $7,170; United Paving Co., Route 1, Box 188S, Geiger Field Quarry, Spokane, $7,260; Inland Asphalt Co., Box 4116, Station B, Spokane, $7,321. EM 12-11. Previous report 11-20

● SITE PAVING— Tacoma, Wash.

Bids will be opened 2 p.m., December 18, by Port of Tacoma Commissioners, Transit Shed No. 1, Pier No. 2, Port of Tacoma Terminal, Tacoma, for paving the filled area of Pier 1 with asphaltic concrete. Specifications with above office. Certified check or bid bond 5%. SC 12-8

▲SANITARY SEWER— Tacoma, Wash.

Bids received by Board of Contracts and Awards, David D. Rowlands, chairman, room 404, City Hall, Tacoma, for construction of a sanitary sewer in LID No. 1963, in Tacoma. LOW BIDS: Rogers Construction Co., Tacoma, $2,520; E. J. Rody & Sons, 1608 E. 72nd, $2,697; Paine & Gallucci, 1521 S. Grant, Tacoma, $2,760. Bids opened December 10. GW 12-11. Previous report 12-5

AIRPORT IMPROVEMENTS—Yakima, Wash.

Project postponed indefinitely by City Council, City Hall, Yakima, for construction of a 500' asphaltic concrete runway extension (this is being delayed in court as an access road has not been constructed as promised), including relocation of Washington Ave., and installation of a high intensive lighting system on Runway 9-27 at the Yakima Municipal Airport. Specifications by Sam Hobbs, city engineer, City Hall, Yakima (runway, road relocation) and Leo Daly & Associates, civil engineers, Securities Bldg., Seattle (lighting). The project has been postponed because of financial trouble. IG 12-11. Previous report 11-15

BRIDGE— Yakima, Wash.

(Estimated cost $27,000)

Plans will be completed early in 1957 by Harold Sweel, Yakima County engineer, Old Courthouse Bldg., Yakima, for a steel and reinforced concrete bridge to replace the existing Gurley Road bridge in Yakima County. It is planned by the county commissioners to call for bids so that contract can be awarded and construction underway in February, according to Lee Crossen, chairman of the board.

The structure will be located on Thacker Road about 0.1 mile north of the Gurley Road and will be approximately 0.85' long and 24' wide. IG 12-7

INDUSTRIAL SEWER SYSTEM— Yakima, Wash.

(Estimated cost $395,000)

The City Council has authorized Sam Hobbs, city engineer, to prepare plans for an industrial sewer system in the city. The project is contingent upon matching funds from the federal government. It would be necessary to have a separate line paralleling the railroad tracks in order to collect sewage and cannery wastes and to conduct it to the city disposal plant. IG 12-7

IDAHO

SUBSTATION— American Falls, Idaho

(Estimated cost $3,500,000)

Construction will start this winer, weather permitting, by Idaho Power Co., L. W. Brainard, division manager, 807 Idaho St., Boise, for a new substation at American Falls. The substation will transform electricity from 230,000 to 138,000 volts and the lines of the latter voltage connecting American Falls and Pocatello will be increased from two to three. The substation, designed to be one of the two largest in Idaho Power's system, will include four 100,000-kva transformers and two synchronous condensers, one weighing approximately 180 tons. Some preliminary work has been completed and some of the materials for the terminal have arrived. SC 12-11

POWER PROJECT— Boise, Idaho

System-wide transmission and substation developments now underway, including a $3,500,000 American Falls substation (see Substation, American Falls in this issue), will provide for the increasing electric requirements of this area, according to L. W. Brainard, division manager, Idaho Power Co., 807 Idaho St., Boise. In the future, electricity will be flowing from the west to the teminal in American Falls over 230,000-volt trunk lines. There will be two 230,000-volt lines into American Falls from Boise where a substation is being built to handle the higher voltage. The Boise substation will be fed by three big lines from the company's $63,000,000 Brownlee hydroelectric development. These and other developments are part of an expansion program which will double and then quadruple Idaho Power's capacity. The Brownlee project, on the Snake River upstream from Hells Canyon, will be first to have four generators capable of producing 360,000 kilowatts. Plans provide for the addition of two more generators. The company also is licensed to develop the Oxbow and Hells Canyon sites below Brownlee. Three microwave stations, one at American Falls, one at the Don substation, and a repeat station southeast of American Falls, are being installed to increase these stations to a total of 13, reaching from Brownlee all the way across the valley to Pocatello. SC 12-11

★BRIDGE— Boise, Idaho

Award announced by City Council, City Hall, Boise, for removal of the existing concrete structure and construction of a reinforced concrete bridge on Owyhee St. across the Ridenbaugh Canal south of Rose Hill St. in Boise. Bids opened November 29. AWARD: Babbitt Construction Co., Box 4038, Boise, $13,642. 2ND LOW: E. A. Fulton Co., 1709 Main St., Boise, $14,077. 3RD LOW: D. C. Weaver and Crane & Excavation Co., Inc., Eagle, $15,068 (joint venture). SC 12-8. Preivous report 11-21

★ASPHALT STORAGE TANKS— Boise, Idaho

Awards announced by Ted Cramer, state purchasing agent, 225 State House, Boise, for asphalt storage tanks and heater assemblies for the highway department. AWARDS—Beall Pipe and Tank Corp., 225 Broadway, Boise, $3,218 (asphalt storage tanks). Phillips Petroleum, Seattle, Wash., $8,910 (heater assemblies). Bids were opened November 29. DM 12-7. Previous report 11-23

▲STATE HIGHWAY PROJECTS— Boise, Idaho

Bids received by Idaho Department of Highways, 603 Main St., Boise, for construction of two highway projects. The bid opening was held December 4 in Boise.

SAUNDERS CORNER SOUTH BEND—Reconditioning existing roadbed and constructing roadmix bituminous surfacing on 2.290 mi. road in Jerome County; FAP No. S-2744(2).

LOW BID: Holmes Construction Co., Heyburn, $46,359. OTHER BIDS: Barnhart & Wheeler, 716 Fir St., Pocatello, $49,747; Twin Falls Construction Co., Addison Ave. E., Twin Falls, $50,127; Aslett Construction Co., Twin Falls, $52,502; Nelson & Deppe, Boise, $53,683; Carl E. Nelson Construction Co., Logan, Utah, $58,314; C. Wright Construction Co., Meridian, $59,136; Fife Construction Co., Brigham City, Utah, $63,565.

BLISS - EAST — Constructing roadway, a bituminous surface treatment and a 100' concrete bridge on 6.696 mi. U.S. Highway 26, FAP No. F-2351(1), and providing maintenance stockpile at Bliss, Proj. No. 128, Gooding County.

LOW BID: Carl E. Nelson Construction Co., Logan, Utah, $480,089. OTHER BIDS: Quinn Bros. & Robbins, 703 S. 16th, Boise, $506,183; Fife Construction Co., Brigham City, Utah, $519,638; Eagle Construction Co., Boise, $541,616; Pickett & Nelson Construction Co., Idaho Falls, $542,969; Peter Kiewit Sons' Co., Idaho Falls, $559,528; Aslett Construction Co., Twin Falls, $559,535; Earl L. McNutt Co., Eugene, Ore., $563,427.

DM 12-7. Previous report 11-15

★GALVANIZED IRON— Boise, Idaho

Award to Salt Lake Hardware Co., 702 S. 8th, Boise, $895, by Ted Cramer, state purchasing agent, 225 State House, for galvanized iron for the highway department. Bids were opened December 3. DM 12-7. Previous report 11-28

★BLACK IRON PIPE— Boise, Idaho

Award to Waterwork Equipment Co., 149 W. 2 S., Salt Lake City, Utah, $1,045, by Ted Cramer, state purchasing agent, 225 State House, Boise, for black iron pipe for the highway department. Bids were opened December 3. DM 12-7. Previous report 11-28

★TRUCKS, DUMP BODIES— Boise, Idaho

Award to Starline Equipment Co., 503 S. 16th, Boise, $72,147, by Ted Cramer, state purchasing agent, 225 State House, Boise, for 15 trucks and dump bodies for the highway department. Bids were opened November 30. DM 12-7. Previous report 11-21

★TREE REMOVAL— Boise, Idaho

Award to Cluster Tree Service, Boise, $1,116, by Boise Independent School District, Clyde Langlois, assistant superintendent, School Administration Bldg., 1207 Fort St., Boise, for the removal of trees at Washington school in Boise. Bids opened November 26 and were held under advisement. SP 12-12. Previous report 11-17

RAILROAD EXTENSION—Idaho Falls, Idaho

(Estimated cost $250,000)

Bids will be called late in December by Atomic Energy Commission, Box 1221, Idaho Falls, for extension of railroad from CPP junction to the Naval Reactor Facility at the National Reactor Testing Station in Idaho; Inv. No. AT(10-1)-886. Completion time 150 calendar days. Bidders must visit the site of the work, just west of Idaho Falls, and will be required to check in with the Security Office in the Central Facilities Area at the site, which will arrange for a representative of the Construction Branch to give information necessary at the site.

Project includes the following: Construction of a 40' bridge with concrete abutments and wing walls, steel deck and center pier; construction of approximately 6.1 miles of single track railroad and 0.9 miles of spur trackage complete with appurtenant roadbed, drainage system (including pipe culverts, ditches, sump pump), road crossings, motor-car set off, track and roadway signs, wheel stops and derails. SP 12-12

TRANSMISSION LOOP (PHASE 2)— Idaho Falls, Idaho
(Estimated cost $1,500,000)

Bids will be called late in December by Atomic Energy Commission, Box 1221, Idaho Falls, for construction of 132-kv transmission loop (Phase 2) at the National Reactor Testing Station in Idaho; Inv. No. AT(10-1)-879. Completion time 330 calendar days. Project will include the following: 1—Construction of approximately 50 miles of 132-kv transmission line and approximately 2 miles of 13.8-kv transmission feeder lines. 2—Modification of existing 132/13.8-kv substation at ANP Area including extension of switching facilities and installation of one government-owned transformer. 3—Construction o 132-kv switching yard adjacent to existing MTR substation. 4—Construction of a new 132-kv switching station (Station "A") in ANP Area including a control house and switching yard. 5—Construction of a 132-13.8-kv (2,000-kva) semiportable substation.
SP 12-12

●**CURB, SIDEWALKS— Jerome, Idaho**

Bids will be opened 8 p. m., December 18, by Guy S. Simons, city clerk, City Hall, Jerome, for construction of curb and sidewalks in Improvement District No. 9, Jerome. Specifications with Carrol F. Wilcomb and Sumner M. Johnson, consulting engineers, Box 1131, Jerome. $15 deposit. Certified check or bid bond 5%. SC 12-11

SEWAGE TREATMENT PLANT, SEWERS— Lewiston, Idaho

A second bond election will be held January 8 by Lewiston Orchards Sewer District No. 1, to provide funds for a sewage collection and disposal system. At the November election, the $784,000 bond issue was defeated. Plans for the project were prepared by Walter L. Woodward, consulting engineers, 206 Empire State Bldg., Spokane.
DC 12-11. Previous report 12-6

SEWERS, TREATMENT PLANT— Priest River, Idaho

Preliminary plans underway by Walter L. Woodward, consulting engineer, Empire State Bldg., Spokane, for a new sewer system and treatment plant for the City of Priest River. The sewers may cost from $15,000 to $20,000 and the treatment plant approximately $75,000. PN 12-7

NATURAL GAS DISTRIBUTION SYSTEM— Sandpoint, Idaho

The City Council, City Hall, Sandpoint, has granted Bonner Gas, Inc., Sandpoint, the right to consruct, maintain and operate a natural gas transmission and distribution system throughout the city. The right extends to include a 50-year period and construction of the system may start next spring. MH 12-12

▲**LEVEE RESTORATION—St. Maries, Idaho**

Bids received by Corps of Engineers, Seattle District, 4735 E. Marginal Way, Seattle, for restoration of the levee, St. Joe River, in the vicinity of St. Maries, Idaho; CIVENG-45-108-57-36. LOW BID: P. J. Anderson & Sons, 13501 Aurora, Seattle, Wash., $6,385. ONLY OTHER BID: Carl Hohner, E. 6208 Sharp, Spokane, $15,700. Engineer's estimate, $7,749. Bids opened December 7.
GW 12-8. Previous report 11-17

MONTANA

★**TRACTOR SHOVEL— Billings, Mont.**

Award by Yellowstone County Commissioners, Courthouse, Billings, for furnishing a tractor shovel of 1½ c.y. capacity. AWARD: Industrial Equipment Co., 415 N. 27th St., Billings, $14,624. OTHER BIDS: Montana Powder & Equipment Co., 1204 4th Ave. N., Billings, $16,955; Western Construction and Equipment Co., 505 N. 24th, Billings, $17,478. The low bid of Hall-Perry Machinery Co. of $13,988 was rejected in the best interest of the county. EE 12-8

★**WATER MAIN— Billings, Mont.**

Award by Yellowstone County Commissioners, Courthouse, Billings, for installation of a 6" water main on Burlington Ave., from 23rd St. W. to Dennis Drive, then south to Lewis Ave.; RSID 357. Plans by Sage Engineers and Land Planners, Inc., 1010 Poly Drive, Billings. AWARD: Walter J. Hoven, 1016 Vaughn Lane, $2,563. OTHER LOW BIDS: Barry O'Leary, Inc., 215 N. 16th, $3,015; Cop Construction Co., 617 Central Ave., $3,036. All of Billings. Bids opened December 4. EE 12-7. Previous report 11-14

★**STREET EQUIPMENT— Billings, Mont.**

Awards announced by City Council, City Hall, Billings, for the following equipment: 1—One rubber-tired loader with bucket capacity of 1 c.y. 2—One sand spreader with power take-off, steel body of 5 c.y. water level capacity, full conveyor, rotary spreader with baffle plates. 3—One refuse collection body, 20 c.y. capacity, equipped with hydraulically operated tail gate and parking ram and hydraulic hoist for elevating body when dumping. 4—Two gravimetric type and two volumetric type dry chemical feed machines. Specifications by Black & Veatch, consulting engineers, 4706 Broadway, Kansas City, Mo. Bids opened December 4. LOADER—AWARD: Industrial Equipment Co., 415 N. 27th St., $12,608. 2ND LOW: Hall-Perry Machinery Co., 902 Central Ave., $12,432. 3RD LOW: Western Construction Equipment Co., 525 N. 24th St., $13,170. SAND SPREADER — AWARD: Industrial Equipment Co., $1,299. 2ND LOW: Montana Powder & Equipment, 1024 4th Ave. N., $1,400. 3RD LOW: HCL Equipment Co., 421 N. 20th St., $1,411. REFUSE COLLECTOR—AWARD: Erwin H. Johnson, Inc., 1020 3rd N.W., Great Falls, $5,026. 2ND LOW: Western Construction Equipment Co., $5,875. 3RD LOW: HCL Equipment Co., $4,930. CHEMICAL FEED MACHINES—AWARD: Omega Machine Co., Providence, R. I., $9,754. ONLY OTHER BID: Wallace & Tiernan, Inc., Newark, N. J., no amount noted. All of Billings unless otherwise noted. EE 12-8. Previous report 11-20

★**TRUNK LINE— Billings, Mont.**

Award announced by City Council, City Hall, Billings, for construction of Section 2 of the sanitary sewer trunk line, consisting of 5,000' of 33" sanitary sewer main in the south portion of Billings. Bids opened December 4. AWARD: Cop Construction Co., 617 Central Ave., Billings, $139,516. 2ND LOW: Long Construction Co., Lockwood Flats, Billings, $158,758. 3RD LOW: Dudley Construction Co., Box 546, Great Falls, $159,488. EE 12-8. Previous report 11-20

●**GRADING, CURB, GUTTER, DRAINAGE DITCH— Great Falls, Mont.**

Bids will be opened 7:30 p. m., December 19, by Fred L. Hill, city clerk, at the Park Board Office, Great Falls, for grading and graveling 1st Ave. N.W. from 7th to 9th St. N.W., constructing integral curb and gutter along Kiwanis Park on 1st Ave. N.W. from 7th St. N.W. to the west boundary line of Kiwanis Park, and constructing a drainage ditch along the west boundary line of Kiwanis Park from 1st Ave. N.W. to 2nd Ave. N.W., Great Falls. Specifications with city engineer, City Hall, Great Falls. $10 deposit. Certified check 10%. SC 12-11

★**SANITARY SEWER— Great Falls, Mont.**

Award to Robertson & Cave, Inc., Box 1488, Great Falls, $4,637, by City Council, City Hall, Great Falls, for construction of an 8" sanitary sewer in 8th Alley N.W. from the west line of 12th St. N.W. to 10' west of the center line of 16th St. and a 10" sanitary sewer in 16th St. N.W. from the center line of 8th Ave. N.W. to the existing manhole at 8th Alley N.W., SID No. 908, Great Falls. SP 12-8. Previous report 11-30

▲**TRAVELING CRANE— Helena, Mont.**

Bids received by Bureau of Reclamation, Bldg. 53, Denver Federal Center, Denver, Colo., for furnishing and delivering fob cars at the shipping point or fob cars at Louisville, Mont., for carload shipments, and Canyon Ferry, Mont., for less than carload shipments, at the option of the bidder, one 20-ton shingle-trolley, motor operated outdoor traveling crane for Helena Valley Pumping Plant, Helena-Great Falls Division, near Helena, Mont.; DS-4788. Bids opened December 4. LOW BIDS: Moffett Engineering, Inc., Albany, Calif., $26,297, fob Oakland, Calif.; Berger Engineering Co., 3236 16th S.W., Seattle, Wash., $28,100, fob Seattle; Crane Hoist Engineering Corp., Bell, Calif., $32,323, fob Louisville, Mont.
SP 12-11. Previous report 10-20

★**TRACTOR-BACK HOE— Kalispell, Mont.**

Award to Manion Motors, 3rd Ave. E. and Railroad St., Kalispell, $5,425, by City Council, City Hall, Kalispell, for furnishing a combination tractor and back hoe machine for the city water department. SC 12-11

TELEPHONE FACILITIES— Missoula, Mont.

R.E.A. second loan of $48,000 approved for Blackfoot Telephone Cooperative Association, Jay W. Preston, manager, Missoula. These funds together with $488,000 first loan will be used to provide new and improved service to 645 rural subscribers in Granite, Lake, Missoula, Powell and Sanders counties. System will consist of 411 miles of line, and dial offices at Arlee, Clinton, Elliston and Ovando. WB 12-7

TELEVISION PROJECT— Mount Royal, Mont.
(Estimated cost $8,000 to $10,000)

Correction: Engineering work for the installation of a television translator on Mount Royal in the Sweet Grass Hills, Mont., is being done by Video Utility Co., S. 121 Monroe St., Spokane, rather than Northwest Electronics, Inc., of Spokane, as reported in PCD 12-4. PN 12-11. Previous report 12-4

WYOMING

★**SIDEWALKS— Casper, Wyo.**

Awards announced by Casper - Midwest School Board, 930 S. Elm, Casper, for construction of sidewalks and retaining wall at Garfield, and sidewalks at Roosevelt and Lincoln schools in Casper. AWARDS—GARFIELD: Rex Robertson Co., 1515 Burlington Ave., Casper, $2,381. OTHERS: L. E. Holmes, 122 E. 9th, Casper, $.2695. LY 12-11

▲**EARTHWORK, STRUCTURES, BRIDGE— Casper, Wyo.**

Bids received by Bureau of Reclamation, Glendo, for construction of earthwork ,structures, bridge and surfacing for access road to Fremont Canyon powerplant and surfacing for Alcova powerplant, access road and parking area, near Casper, Natrona County, Glendo Unit, Oregon Trail Division, Missouri River Basin Project and Kendrick Project, Wyo.; DC-4793. Bids opened December 6. LOW BIDS: Knisley-Moore, Box 77, Douglas, Wyo., $479,352; Inland Construction Co., Box 157, Cheyenne, $575,456; Long Construction Co., Inc., Box 1291, Billings, Mont., $581,899. Engineer's estimate $441,627.
SP 12-12. Previous report 11-3

★**STATE HIGHWAY PROJECT— Cheyenne, Wyo.**

Award by Wyoming State Highway Comission, State Office Bldg., Cheyenne, on the following project on which bids were opened November 20.

THERMOPOLIS-SHOSHONI ROAD—Grading, draining, base course surfacing oil treatment by the roadmix method, sand-gravel seal coat and miscellaneous work on 3.123 mile and metal plate guard fence on an addition 2.965 mile road in Wind River Canyon, Hot Springs County; FAP Nos. F-118(9), F-118(10) and F.L.H.-12(2).

AWARD: Taggart Construction Co., Cody, $693,422. DM 12-11. Previous report 12-7

★**STATE HIGHWAY PROJECTS— Cheyenne, Wyo.**

Awards have been made by the Wyoming State Highway Commission, State Office Bldg., Cheyenne, on two highway projects on which the awards have been held up since the November 20 bid opening. One other job on which award was held at the above bid opening, is still delayed.

ALBIN CONNECTION ROAD — Grading, draining, base course surfacing, plantmixed

surfacing course, stone chips seal road in Laramie County; FASP No. S-27(4).

AWARD: Blanchard Construction Co., Derby, Colo., $357,338.

SARATOGA-RIVERSIDE ROAD—Grading, draining, base course surfacing, plantmix surface course, stone chip seal coat, including combined curb and gutter and storm sewer in the Town of Saratoga, construction of four 12'x6'6" reinforced concrete culverts, two structural plate stockpasses, construction of one bridge consisting of three continuous reinforced concrete slab spans over Spring Creek and miscellaneous work on 5.632 miles road in Carbon County; FAP No. F-022-1(1).

AWARD: W. E. Barling, Inc., Meeteetse, $590,872.

THERMOPOLIS-SHOSHONI ROAD—Grading, draining, base course surfacing oil treatment by the roadmix method, sand-gravel seal coat and miscellaneous work on 3.123 mile and metal plate guard fence on an addition 2.965 mile road in Wind River Canyon, Hot Springs County; FAP Nos. F-118(9), F-118(10) and F.L.H.-12(2).

Award is still pending on this project. Low bidder was Taggart Construction Co., Cody, $693,422.

DC 12-7. Previous report 11-24

BRIDGE— Cheyenne, Wyo.
(Estimated cost $7,000)

Project approved by City Council, City Hall, Cheyenne, for construction of a concrete and wood bridge across Crow Creek at 5th and Pioneer in Cheyenne. Construction will start soon by the city street department. SC 12-11

● COPPER CABLE— Glendo, Wyo.

Bids will be opened 2 p. m., December 19, by Bureau of Reclamation, Bldg. 53, Denver Federal Center, Denver, Colo., for furnishing and delivering fob Glendo, 97,000 M ft. (Sched. 1), 12,600 M ft. (Sched. 2), 220 M ft. (Sched. 3) and 370 M ft. (Sched. 4) copper cable; Spec. No. (D) 69, 755-A. Specifications with above office. Delivery time 120 calendar days. SP 12-8

TRUCK ROUTE— Sheridan, Wyo.
(Estimated cost $2,000,000)

Voters in Sheridan approved the city's truck route proposal in the December 4 special election, according to George R. Anderson, northeast district engineer, Wyoming State Highway Commission, Sheridan. Construction may start next fall on the two-year project which includes a 10-mile route east of Sheridan. To meet federal requirements of access for the route, the State Highway Department found construction of bypasses would be the only feasible means. Similar bypasses have been approved in Buffalo, Newcastle and Manville. The bypass is in operation around Buffalo and under construction at Casper and Cheyenne. Requests for location surveys which would show where bypasses would be placed have been received from eleven other Wyoming towns. LY 12-8

UTAH

★PAVING— Ogden, Utah

Award to Wheelwright Construction Co., Box 109, Ogden, $20,578, by City Council, Municipal Bldg., Ogden, for furnishing labor and materials for constructing Paving District No. 177. DM 12-7. Previous report 11-7

● STATE HIGHWAY PROJECTS— Salt Lake City, Utah

Bids to be opened 2 p. m., December 21, by Utah State Road Commission, State Capitol, Salt Lake City, for two highway construction projects. Plans with commission office in Salt Lake City. $2 deposit. Certified check, cashier's check or bid bond 5%.

HENEFER-DEVILA SLIDE SECTION—Plantmix bituminous surfacing 5.809 mi. U.S. No. 30-S, Morgan and Summit counties. FAP F-023-1, First Contract.

Quantities: 33,300 ton plantmix; 2,790 ton bituminous material; 86,200 ton gravel; 696,000 c.y. unclassified roadway excavation; 21,343' deep beam highway guard rail (concrete posts).

UTAH-ARIZONA LINE SECTION—Roadmix bituminous surfacing, 2½" on 12.041 mi. F.A. Route No. 35, Kane County, between nine miles east of Paria Creek and the Utah-Arizona state line; FAP FLP 32(1) and SP 1583.

Quantities: 2,289 ton bituminous material; 178,500 ton gravel; 696,000 c.y. unclassified roadway excavation. DM 12-7

● NATURAL GAS SUPPLY LINE— Vernal, Utah

Bids will be opened 2 p. m., December 18, by Moon Lake Electric Association, Inc., Vernal, for installation of pipe equipment and other materials for approximately 3.5 mile of 4' natural gas supply pipeline at Vernal. Plans with C. H. Guernsey & Co., engineers, 2701 N. Oklahoma, Oklahoma City, Okla. $5 deposit. Bid bond 5%. LY 12-8

▲PUMPING UNITS— Weber Basin Project, Utah

Bids received by Bureau of Reclamation, Bldg. 53, Denver Federal Center, Denver, Colo., for furnishing and delivering fob bidder's shipping point or fob Ogden, four motor-driven, horizontal, centrifugal-type pumping units for P2.8R Pumping Plant, Weber, Aquaduct, Weber Basin Project, Utah; DS-4789. Bids opened December 6. LOW BIDS: Food Machinery & Chemical Corp., Peerless Pump Division, Indianapolis, Ind., $33,440 freight allowed; Fairbanks, Morse & Co., Kansas City, Mo., $44,286 fob Kansas City, Kansas; Allis-Chalmers Mfg. Co., Milwaukee, Wis., $44,671 fob Ogden.

SP 12-12. Previous report 10-23

SEWAGE COLLECTION SYSTEM— West Jordan, Utah

Bond election will be held early in 1957 by Town of West Jordan, Joseph J. Schmidt, chairman of West Jordan Citizens Sewer Committee, West Jordan, for funds to finance a new sewage collection system on 13th West, 1530 South, 78th South and 8660 South in West Jordan. Specifications by Caldwell, Richards & Sorenson, constulting engineers, 308 Zions Savings Bank Bldg., Salt Lake City. Project includes construction of a small pumping station. GH 12-11

ALASKA

HARBOR IMPROVEMENT, FLOOD CONTROL PROJECTS— Anchorage, Alaska
(Estimated cost $5,500,000)

Seven harbor improvements and flood control projects have been scheduled for 1957 under the Civil Works Program of the Alaska District, Corps of Engineers, D-E Bldg., Anchorage. Work now remaining to be done at Petersburg and Wrangell under the present construction contract is expected to be completed by the end of this year, thus completing all 1956 dredging and construction work. Following is a brief description of projects scheduled to be awarded in fiscal year 1957 with work planned for calendar year 1957. Ketchikan and Kodiak Harbor work will start in spring of 1957 with continuation of work after July 1 contingent upon further allocation of funds by Congress.

CRAIG HARBOR: Dredging mooring basin at South Cove 11' deep at mean lower low water, 225' wide and 700' long, including entrance channel at same depth, over width of 100'. Bids to be opened about March 11, 1957; estimate $100,000 to $1,000,000. ELFIN COVE: Off Cross Sound on northern tip of Chichagof Island. Dredging channel 10' deep at mean lower low water and 60' wide through other entrance, and channel 8' deep at mean lower low water and 40' wide through the inner entrance to a natural landlocked harbor. Bids to be opened about April 25, 1957; estimate $100,000 to $1,000,000. GOLD CREEK, JUNEAU: Construction of reinforced concrete channel lining 1,717' long for the portion of Gold Creek remaining to be lined (passes through Juneau), together with necessary intake and downstream energy dissipating structure. Bids to be opened about February 5, 1957; estimate $1000,000 to $1,000,000. KETCHIKAN HARBOR: Dredging additional small boat basin at Bar Point 780,000 sq. ft. area to depth of 15' below mean lower low water or to rock, and construction of two rock breakwaters 700' to 1,100' long. Bids to be opened about March 11, 1957; estimate $1,000,000 to $5,000,000. KODIAK HARBOR: Dredging small boat basin, 11.7 acres area with dept of 8' at mean lower low water for the inner 20% to 12' for the remaining 80%, and construction of two rock breakwaters 1,250' and 780' long. Bids about March 11; estimate $1,000,000 to $5,000,000. PELICAN HARBOR: Dredging small boat basin, 250,000 sq. ft. area to a depth of 12' at mean lower low water, and construction of a rock breakwater 900' long. Bids about March 11; estimate $100,000 to $1,000,000. VALDEZ HARBOR: Construction of rock breakwater, about 475' long, along southeast side of small boat harbor, and a timber piling breakwater 330' long along the southwest side. Bids about January 21, 1957; estimate $100,000 to $1,000,000. SP 12-11

Have You Changed Your Address?

For uninterrupted service please send old and new address to

PACIFIC ARCHITECT AND BUILDER

2418 3rd Avenue Seattle 1, Wash.

★SANITARY SEWERS— Anchorage, Alaska

Awards announced by Alaska Public Works, Box 1181, Juneau, for construction of sanitary sewers, including sewage lift station and sewer outfall line, Chester Creek and Airport Heights, Anchorage; Proj. No. Aaa 50-A-254. Schedule 1 (outfall from pumping station to low tide) will not be awarded by the City of Anchorage for at least two months. AWARDS—SCHED. 2 (lift station): Sweta Construction Co., Box 297, Mountain View, $134,819. SCHED. 3, 4, 5, 6 (Chester Creek trunk line sewer with collective lines in Airport Heights): Patti-MacDonald Construction Co., Pouch 6, Anchorage, $980,236.

JU 12-11. Previous report 12-4

■ BREAKWATER CONSTRUCTION— Valdez, Alaska

Planholders announced for breakwater construction at the Valdez Harbor, Valdez; CIVENG-95-507-57-2. Bids will be opened 11 a. m., December 20, by Corps of Engineers, Alaska District, D-E Bldg., Anchorage.

Planholders: B-E-C-K Constructors, 3647 Stone Way, Seattle; United General Contractors, Box 397, Seattle; Ace Bag & Burlap Co., 33-37 New York Ave., Newark, N. J.; M. B. Gilbrough Co., 12556 Bothell Way, Seattle; Niedermeyer-Martin Co., 715 Portland Trust Bldg., Portland.

SP 12-11. Previous report 11-28

COLORADO

IRRIGATION SYSTEM— Colorado Springs, Colo.

Bids will be called about December 28 for opening on or about January 24 by Air Force Academy Construction Agency, Box 1670, Colorado Springs, Colo., for construction of water, non-potable irrigation system, top soil and seeding of the athletic fields and parade ground at the U. S. Air Force Academy site about 10 miles north of Colorado Springs; Inv. No. (IFB) 05-613-57-17. Specifications with above office. $30 deposit.

Quantities: 56,740' asbestos-cement pipe; 33,400' galvanized wrought iron pipe; 650' portable pipe; 2,100' vitrified clay pipe; 440' cast iron pipe; 28 gate valves and boxes; 32 valve pits; 35 manhole frames and covers; 650 c.y. concrete for anchors and headwalls; 185 sprinkler heads; 830 coupling valves; 175,000 c.y. topsoil; 166 acre seed, mulch, fertilizing. SP 12-11

Advertisements for Bids

Advertisements reaching us not later than Wednesday noon will appear the same week.

THE RATE for Advertisements for Bids is 35 cents per line for the first insertion; 25 cents per line for each insertion thereafter.

ELEMENTARY SCHOOL
BIDS CLOSE 2 P.M., JANUARY 3
Mesa, Washington
NOTICE TO CONTRACTORS

Sealed bids will be received by the undersigned at the office of George M. Rasque and Son, Architects in the Washington Trust Building at Spokane, Washington, up to 2:00 p. m., January 3, 1957, for construction of an Elementary School Building at Mesa, Washington for School District No. 51-162, Connell, Washington and will then and there be opened and publicly read aloud in his office. Bids received after the time for opening will not be considered.

Plans and Specifications may be obtained from the office of George M. Rasque & Son, Washington Trust Building, Spokane, Washington, upon deposit of $25.00, which sum will be returned to the bidder provided plans are returned within 6 days after issued if no bid is to be submitted.

The character and amount of security to be furnished by each bidder is stated in the specifications.

The Board of Directors reserves the right to reject any or all bids or to accept the proposal deemed best for the District and to waive informalities.

Board of Directors
School District No. 51-162
Connell, Washington

5687—12-8, 15, 22

GATE VALVES, HOISTS
BIDS CLOSE JANUARY 15
Denver, Colorado
NOTICE TO CONTRACTORS

SET ASIDE FOR SMALL BUSINESS. DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Invitation No. DS-4814) will be received at Denver, Colorado, until January 15, 1957, for furnishing nine 2-foot 3-inch by 2-foot 3-inch high pressure gate valves, with nine 49,000-pound hydraulic hoists for Casitas Dam, Ventura River Project, California. Delivery is desired within 180 days. For particulars, address Bureau of Reclamation, Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.

5686—12-15

CLASSROOM ADDITION
BIDS CLOSE 7:30 P.M., DECEMBER 18
Klamath Falls, Oregon
NOTICE TO CONTRACTORS

Sealed bids are requested for the construction of a two story classroom addition to the Klamath Union High School at Klamath Falls, Oregon. In addition to classrooms, building will include a large cafeteria and kitchen; stage and dressing rooms for future auditorium; science suite, instrumental and vocal music facilities. Floor area is approximately 32,130 sq. ft.

Exterior walls will be concrete with brick veneer. Asbestos board insulated panels and aluminum sash in aluminum curtain walls. Interior: wood frame with glulam beams, plaster walls and ceiling; floor finishes; linoleum, asphalt, vinyl tile and ceramic tile in toilets; building acoustically designed, roofing, built-up type on wood decks. Low pressure steam, with mechanical ventilation. Lighting, flourescent fixtures. Contract will include wrecking and removal of the old County Library Building, now on the site.

There will be one general bid which will include all items of work.

Bids are to be delivered to the Clerk of Klamath Union High School District No. 2, Room 200, Klamath Union High School, Klamath Falls, Oregon, on or before 7:30 p.m., Tuesday, December 18, 1956.

All bidders must comply with the laws of the State of Oregon, relating to the prequalification of bidders, Chapter 279, Oregon Revised Statutes. Prequalification forms are immediately available at the office of the Architect.

No bid will be considered unless fully completed in the manner provided in the "Instructions to Bidders" upon the bid form provided by the Architect, and accompanied by a certified check or bid bond, executed in favor of Klamath Union High School District No. 2, in an amount not less than five per cent (5%) of the total amount of the bid, to be forfeited as liquidated damages, should the bidder neglect or refuse to enter into a contract, and provide 100% surety bond for the faithful performance of the work, in the event the contract is awarded to him.

No bidder may withdraw his bid after the hour set for the opening thereof, until after the elapse of 30 days from the bid opening.

The Board of Directors of Klamath Union High School District No. 2, reserves the right to reject any or all bids and to waive any informalities.

The drawings, specifications and contract documents may be examined at the Builders Exchange in Portland, Salem, Eugene, and San Francisco; at the Daily Pacific Builder Plan Room, 465 Tenth Street, San Francisco, California; and at the office of the Architect, Howard R. Perrin, 1121 Main Street, Klamath Falls, Ore.

KLAMATH UNION HIGH
SCHOOL DISTRICT NO. 2.
By Harold Ashley, Clerk.

5673—11-17, 24

BRIDGES
BIDS CLOSE 10 A.M., DECEMBER 20
Portland, Oregon
NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, NATIONAL PARK SERVICE, December 10, 1956. SEALED BIDS will be received at the office of the Bureau of Public Roads, 753 Morgan Building, Portland, Oregon, mail address P. O. Box 3900, Portland, Oregon, until 10:00 o'clock A.M. on December 20, 1956, for furnishing the material and performing the work for constructing 70-ft. and 192-ft. Prestressed Concrete Bridges, Mt. Rainier National Park Project 3-A9 and 5-C4, White River Road and Eastside Road, Pierce County, Washington, involving 525 Cu. Yds. Unclassified Excavation; 360 Cu. Yds. Concrete; 37,200 Lbs. Reinforcing Steel; 12 Each Prestressed Girders; 604 Lin. Ft. Steel Hand Rail, and other small items of work. The attention of prospective bidders is directed to the special clause "United States-Flag Vessel Provisions" included in the Special Provisions for this project. Plans, specifications and proposals may be obtained at the office of the Bureau of Public Roads, 753 Morgan Building, Portland, Oregon. F. E. ANDREWS, Division Engineer.

5688—12-15

JUNIOR-SENIOR HIGH SCHOOL
BIDS CLOSE 10 A.M., P.S.T., DECEMBER 19
Valdez, Alaska
NOTICE TO CONTRACTORS

Project Aaa. 50-A-159, School, Valdez, Alaska. November 8, 1956, Valdez Junior-Senior High School, Project Aaa. 50-A-159, Valdez, Alaska. Alaska Public Works, Office of Territories, Department of the Interior. By (issuing office) Thomas G. Mooney, Director, Alaska Public Works, Office of Territories, Department of the Interior, Post Office Box 1181, Juneau, Alaska. Sealed bids in single copy for furnishing all labor, equipment, and materials and performing all work for the project described herein will be received until 10:00 A.M. Pacific Standard Time, December 19, 1956 in the mailroom of the office of the Director, Alaska Public Works, Office of Territories, Department of the Interior, 123 West Third Street, Post Office Box 1181, Juneau, Alaska and then publicly opened and read aloud. Information regarding bidding material, bid guarantee, and bonds follows: Plans and specifications and other proposed contract documents are open for public inspection at the Director's office, Juneau, Alaska; at Room 2723, Interior Building, Washington 25, D. C.; at the Area Engineer's office, Alaska Public Works, Reliable Service Bldg., Anchorage, Alaska; and Associated General Contractor's of America offices as follows: Seattle Chapter, Construction Center, 215 West Harrison St., Seattle, Wash.; Mountain Chapter, 220 West Harrison St., Seattle, Wash.; Tacoma Chapter, 1605 Center Street, Tacoma, Wash.; Portland Chapter, Suite 112 Multnomah Hotel, Portland, Oregon; the Alaska Chapter, 306 Central Bldg., Anchorage, Alaska, and the Plan Bureau, 2413 Western Ave., Seattle, Wash.; and the Builders Exchange Cooperative, 317 Builders Exchange Bldg., Portland, Oregon. A set of such documents may be produced from the office of the Director at Juneau, Alaska, upon deposit of $25.00, all of which will be refunded upon the return of the plans and specifications in good condition within twenty (20) days from date of bid opening. Each bid must be accompanied by a satisfactory bid security (certified check or bid bond) in an amount not less than 5 per cent of the total bid in dollars and cents. No bid will be withdrawn until thirty days after the scheduled closing date for the receipt of bids. The successful bidder will be required to furnish a performance bond and payment bond, each in the amount of 100 per cent of the contract price. The Government reserves the right to award a contract for the project on the basis of the acceptance of any or all of the alternates, whichever course is in the best interest of the Government. DESCRIPTION: School, Project Aaa. 50-A-159, Valdez, Alaska. One story reinforced concrete slab, masonry and steel frame high school building containing approximately 17,000 square feet. Information regarding liquidated damages (if any), payments, etc., is attached or made a part of the specifications. Bids shall be submitted on the forms furnished or copies thereof.

5674—11-17, 24; 12-1

GRADING, BRIDGES
BIDS CLOSE 10 A.M., DECEMBER 19
Portland, Oregon
NOTICE TO CONTRACTORS

DEPARTMENT OF COMMERCE, BUREAU OF PUBLIC ROADS, November 28, 1956. SEALED BIDS will be received at the office of the Bureau of Public Roads, 753 Morgan Building, Portland, Oregon, mail address P. O. Box 3900, Portland, Oregon, until 10:00 o'clock A.M. on December 19, 1956, for furnishing the material and performing the work for constructing 0.853 Mile Grading, 126-ft. Reinforced Concrete Girder Bridge and 301-ft. Prestressed Concrete Bridge, Oregon Forest Development Road Project Siskiyou 376-B, Chetco River Road, Siskiyou National Forest, Curry County, Oregon, involving 10 Acres Clearing; 8 Acres Grubbing; 92,465 Cu. Yds. Unclassified Excavation; 629 Cu. Yds. Concrete; 82,200 lbs. Reinforcing Steel; All Reqd. Prestressed Concrete Span; 871 Lin. Ft. Metal Hand Rail; 98 Lin. Ft. Structural Plate Pipe; 3,960 Lin. Ft. Timber Piling, and other small items of work. Plans, specifications and proposals may be obtained at the office of the Bureau of Public Roads, 753 Morgan Building, Portland, Oregon. F. E. ANDREWS, Division Engineer.

5681—12-1