

JANUARY 1955

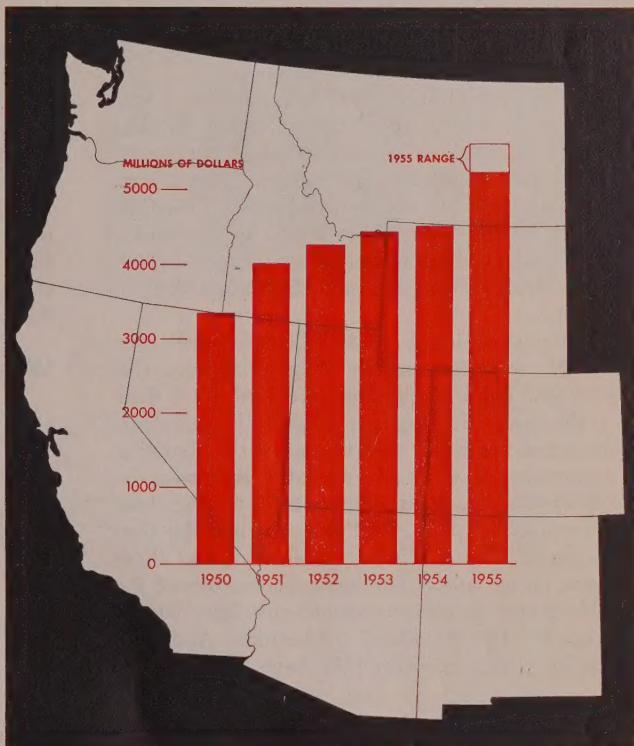
Statistically . . .

Here is a chart. What it shows for 1955 surprises us. The calm optimism with which prospects are viewed for the nation doesn't seem to fit the 11 Western states and Alaska. In the West, downright enthusiasm of the button-busting variety seems more in order.

Look at the chart more closely. The way we see it, a conservative estimate is for a 13% increase in heavy construction activity. Depending on how the President's highway program goes, you can move right on up—to an increase of 25%.

There hasn't been anything like this in four years. (From '50 to '51 the West logged an increase of 12%.) But nation-wide construction has copped top honors now for four years in a row. And Western population pressures haven't changed a bit. (Now they're talking of California outstripping New York in another 10 years!)

And here is the result—this chart showing 1955 to be a bang-up year. Now the question is: which specific fields get the nudge?

**Specifically . . .**

WESTERN CONSTRUCTION OUTLOOKBoom season on its way for '55

A BIG BOOST IS COMING this year in Western construction volume. That's the only conclusion possible from a look at Western population growth, national and regional governmental policy, the actions of private construction sponsors throughout the West . . . and the 12 review articles that follow—one for each state plus Alaska.

1954 was a confusing year, although a record breaker in its final volume—as of December figured at over \$4,500,000,000. At the same time contracting competition was the roughest in years. This is perhaps the most important single thing emphasized in the pages of commentary received by *Western Construction* from all over the West in preparation for this issue.

Competition. And no one is looking for an easier time in '55. Yet the cracking increase in volume set forth in the chart above should remedy the situation. It should mean better profit margins and fewer ulcers.

So contractors are looking to a competitive year, but a good one. The two ideas aren't contradictory. Don Shaw of the Southern California AGC chapter puts the business in its proper light when he says, "This area probably enjoys, and I use that word advisedly, more competition than most other construction centers." Certainly no one would say that Southern California was a bad market for construction. But it is competitive.

Now, without trying to divide dollars by numbers of bidders where they appear, here is a summary of trends and events.

Last year was the first full year for the Eisenhower administration. Its own plans and policies prevailed for the first time. And the immediate effect was a slump that began late in 1953 when everyone realized that the other fellow was being a little cautious too.

But what happened? Political events did not bear out the cautious and sometimes dismal predictions. Execu-

tive matters were capably handled and Congress took confidence from the fact. This is of no small importance: federal policy and federal funds still count for a lot in the U. S. and in all its regions. Congress chalked up a pretty fair record so far as construction was concerned.

Construction that could be done by local or private sponsors was left alone, thereby assuring local interests that the ball was theirs. It took this specific neglect in some cases to jar private enterprise into the realization that the initiative and opportunity really belonged to them.

Construction of a public nature got funds in larger amounts than in 1953, when the swinging political pendulum had carried an axe that slashed appropriations. The Corps of Engineers got money to expand its Western activity, though not in civil works. This year military work got the boost, as the heavy Air Force base program reached a climax. The next fiscal year will probably see the Army getting the nod, by comparison, in appropriations.

Reclamation also picked up \$20,000,000 worth over 1954, and that is almost entirely Western activity. Despite social and political questions involved (and their validity), the heavy Reclamation program in past years had been one of the major contributors to the changing Western construction scene. Its recent curtailment destroyed the spectacular quality that had for so long characterized construction here. And it heightened the contrast between 1953 and 1954, on one hand, and those earlier years, on the other. The heavy contractors of the West, bidding now on other types of work, have largely been responsible for the added competition. And with their experience and resources they have been hard to beat out.

Heavy construction means dams again

The outlook for heavy construction this year is good. Remember, to admit that the federal government has slowed its construction of reclamation dams is not to say that the need for water supply and power dams has fallen off. Water and electric power have not been in oversupply in the Western region within memory. Growth has always created a demand. And it still does.

Washington is the dam state for 1955. That state—and the entire northwestern area—has made remarkable strides in meeting the challenge of partnership development. Two combinations of utilities have been formed to speed work, and a Columbia Basin compact has been negotiated among seven basin states. Here are some specifics:

Puget Sound Utilities Council, formed of two private and two public utility groups, is ready to do financing and distribution chores for such projects as Priest Rapids Dam on the Columbia. Probably to be built under Grant County Public Utility District auspices, the job would produce 1,200,000 kw., with only 40,000 kw. initially needed by its sponsors. Then there is Pacific Northwest Power Corp., comprising Pacific Power & Light and Portland General Electric (Oregon), Washington Water Power (Washington), and Montana Power (Montana). This group hopes jointly to build at Brutes Eddy on the Clearwater in Idaho—244,000 kw.

Seattle City Light has taken bids on Gorge Dam, a

\$14,700,000 addition to the Skagit Project downstream from Ross and Diablo dams. Merritt-Savin, the combine building Folsom Dam, was low. Tacoma City Light is coming up soon with a bid for Mayfield Dam on the Cowlitz. Douglas County PUD in Washington has plans for another Columbia River dam, and has applied to the FPC for a permit to investigate. Pend Oreille County PUD has its Box Canyon work well on the road to completion (*Western Construction*—October 1954).

Utility construction, already represented by the above projects, also comprehends another spectacular activity—pipelines. Plans for these lace the entire Western region. The biggest (\$160,000,000) and most controversial got off to a tentative start late in 1954 with award of an all-inclusive engineering and construction contract to Fish Engineering Co. of Houston. Despite appeals before the FPC by others interested in the gas service proposed, Fish and Pacific Northwest Pipeline Corp. hope to get a start in the field this year on the 1,466-mi. job (San Juan Basin, New Mexico, to Bellingham, Washington).

Westerners show how in Missouri Basin

Worth mention for sure in an overall look at the construction business in these parts is some work that is geographically on the fringe. This is the Missouri Basin work under the Corps of Engineers. Western contractors and Western methods have gotten a good share of that activity, and it's a whopper. At age 9 years the project represents \$1,725,000,000 in work either done or under way. This against a total estimate of \$2,448,000,000. The percentage is about 70, and about 39% is finished. The 31% is what's obligated under going contracts. Contractor earnings at Fort Randall, Gavins Point, and Oahe last year ran about \$40,100,000. This year they'll go to about \$49,600,000. On just three jobs, where new awards will total \$26,900,000.

One of these projects exhibits what may be called a trend. It's the tunnel drilling at Oahe Dam, by Mittry Constructors of Los Angeles. *Western Construction* next month will present some detail on the equipment and methods, which are described by the Corps as the logical step in soft-rock tunneling after the experience of Fort Randall work.

A cardinal disappointment for the construction industry, when Reclamation otherwise was getting a welcome boost, was the failure of the Upper Colorado River Storage Project to pass Congress. This represented the first instance of the Western states' splitting on a reclamation vote. It was California's fault, and that state is apt to pay heavily unless it changes its position in the months to come.

Individual setbacks such as this one are more than a mere bother to the individual states, agencies, and potential contractors involved. But they do not stand as a permanent "lid" on construction in the West. The overall demand is there, materials are in generally good supply, equipment is quickly available, and—most important—construction buyers are contracting for enough work to set another record. Buildings in Denver, dams in Oregon and Washington, military bases in the southwest, industry in Utah and on Puget Sound and in California, pipelines and highways throughout the West. It's a \$5,000,000,000 (plus!) year.

ARIZONA

23% more people since 1950, second highest growth rate in the nation, is keeping Arizona contractors busy. Mass-scale residential projects, steam power plants and light industry development made 1954 the state's biggest year yet. Highway expansion and the pent-up need for waterworks and sewerage, plus increased military spending at air bases, will make 1955 even bigger.

TWO MAJOR ELEMENTS mark the level of construction activity in Arizona and guide its course for the immediate future. One is population influx, requiring increases in home construction and in the supply of commercial goods and services. The other is highway construction, since Arizona is a "bridge" state of commercial transport and also relies heavily on tourist traffic within the state.

But the development of power and other resources, combined with the availability of land and adequate transportation—and don't discount Arizona's climate!—has done much to encourage an influx of additional commerce and light industry. These are positive contributors to Arizona's growth and therefore to its construction economy in 1955.

Multi-million dollar housing projects on a grand scale

Maricopa County, with Phoenix as its major city, is the center of activity, corresponding to such other spectacular examples of Western municipal growth as Portland, Ore., and Denver, Colo.

Just the following jobs, residential construction on a mass scale, are an indicator of what's been going on around Phoenix in the year just past: 360 houses being erected on an 80-acre tract at an approximate cost of \$3,000,000 by John C. Hall; 80 houses at a cost of about \$720,000 by Ralph Staggs Construction Co.; 286 houses on a 72-acre tract at a cost of \$3,000,000, also by Staggs; 523 apartment units at a cost of \$4,000,000 by Rubenstein Construction Co.

This type of work hasn't come upon Arizona just in a day. It's been gathering momentum over a period of years. For example, Alfred Andersen Construction Co. last year completed a 6-yr. project that cost about

\$10,000,000—980 houses on a 260-acre tract.

Buildings to house goods and services necessarily follow this kind of expansion. Just a couple of months ago plans were announced and work is now getting under way on the Uptown Plaza, a \$2,000,000 project of shops and offices being built by Del E. Webb in Phoenix.

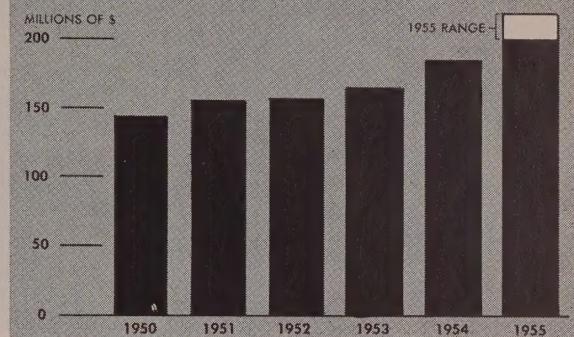
Much of the industrial development in Arizona is of the modern "smokeless" variety—such as the new AiResearch Manufacturing Co. jet turbine testing plant, which is now just about finished at a cost of over \$4,000,000. But heavy industry is traditionally represented in Arizona by mineral mining, and this field has shown spectacular growth. Most often in the news is the new San Manuel project which involves construction of a complete company town. Del E. Webb Construction Co. is doing this work, and is approaching completion of the first 1,000 houses involved. Eventually a total of 2,000 will be built, as well as all necessary public and private business and utility structures.

Highway expenditures will be up \$3,000,000 for calendar 1955

The principal public works categories required to support this Arizona expansion are highways, electric power, and water. Highway construction in Arizona has the same bright outlook characteristic of nearly every other state. Expressed in figures, the State Highway Department estimates that 1954 expenditures of \$17,000,000 will be exceeded by \$3,000,000—a total of \$20,000,000 this year.

As implied editorially on page 15 of this issue, Arizona has not in recent years experienced any sudden jump in highway activity, such as a bond issue, which would result in a large road building capacity today. Staffing the department for even

ARIZONA HEAVY CONSTRUCTION



gradually increasing construction budgets has been difficult, and as a result the department lacks a well defined backlog of projects to which construction funds can be applied.

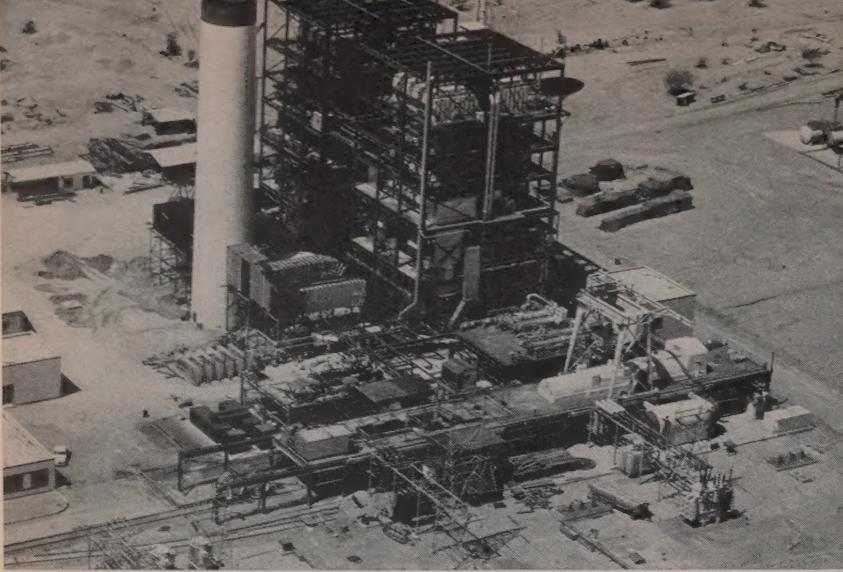
But the state for some years has had progressive administration, including a department of economics and statistics that was among the first to adopt a sufficiency rating system for highways. As a result the state's highway needs are well known and there need be no lost motion in determining which project to design and what peculiar traffic needs to design for.

Arizona climate allows construction of low cost outdoor plants

Major electric utility comes under the auspices of the Salt River Power District and Arizona Public Service Co., both of Phoenix. Salt River Power has been in the news all the past year—and in the news pages of *Western Construction*—with its continuing construction of steam electric generating facilities.

Salt River Power completed its \$13,000,000 Kyrene plant 12 mi. southeast of Phoenix during 1954, thereby adding another 100,000 kw. to the system generating capacity. Built by Bechtel Corp., the Kyrene plant is the first outdoor plant in the state of Arizona. This means there is no building over the turbine and generator bays. This feature represents considerable saving in construction costs. As a result, and despite its smaller size compared to others that have been built in California and for the TVA, its first cost is competitive with any steam plant throughout the country.

Plans are now under way for the construction of still another 100,000-kw. plant, one which will be even more advanced and efficient than Kyrene. A single 100,000-kw. gen-



MAJOR PROJECT in 1954 for Arizona Public Service Co. of Phoenix was the Saguaro steam plant. The first 100,000-kw. unit went into service last August with another unit to be in operation early this year. Completed plant cost, \$24,500,000.

erating unit will be installed, as compared to the two units at Kyrene. The overall design will incorporate outdoor plant layout, although the location is yet to be determined. Like Kyrene, the new plant will use natural gas for fuel, with provisions for oil burning in emergencies.

Construction of the new steam plant was assured in November 1954 when district share holders voted in favor of an \$11,000,000 revenue bond issue to cover most of the construction costs. An additional \$2,000,000 of expense will be met from current power revenues.

Arizona Public Service Co. is matching the foregoing achievements, kilowatt for kilowatt. The new Saguaro steam plant went into operation in August 1954 with 100,000 kw. of generating capacity. A second unit of the same size is expected to be in operation this year. Thus completed, the plant will represent an investment of about \$24,500,000.

Other major construction by the company planned for 1955 will be a new 100,000-kw. plant in Tempe, just east of Phoenix. Known as the Ocotillo plant, this installation will be under construction for the next two years or more and will cost about \$13,000,000.

Work on the distribution end of Arizona Public Service facilities includes a new 60-mi. transmission line from Flagstaff to serve the Grand Canyon. Also, 1954 saw completion of the first phase of a program for putting primary distribution lines underground in downtown Phoenix.

In the city of Phoenix itself an exceptionally heavy program of new and improved utility construction has just been completed. The magnitude of the work is indicated by the fact that expenditures for major

work in 1955 will drop to about \$2,150,000 from a 1954 figure of \$6,590,000.

Here are the major works completed in 1954: installed 24- to 60-in. water transmission mains—\$3,000,000; Verde River water infiltration plant additions—\$200,000; Evergreen Station (in Verde River power line)—\$40,000; Squaw Peak storage reservoir—\$525,000; Squaw Peak water filtration plant—\$1,800,000; street paving—\$400,000; sanitary sewers—\$425,000.

The last two items mentioned above are more or less continuing classifications of public work. It is interesting to note that 1955 estimated expenditures in these classifications show an increase. Sanitary sewer construction will come to \$600,000 and street paving will come to the same figure. In addition there is anticipated \$300,000 in water feeder main construction, and \$650,000 in fire protection water mains in the business district and newly annexed areas.

Water conservation, land reclamation on the Gila Project

A final category of construction which contributes in a positive way to the Arizona economy is reclamation. This year, as for several just passed, work is continuing on the Gila Project. Under an allocation of \$900,000 provided by a supplemental appropriation to last year's funds, work on Unit No. 4 of the Mohawk laterals was begun. Construction dates on this work were advanced about 6 months in order that eventual completion and supply of water to 8,000 acres can begin a year earlier than originally planned. Unit No. 4 consists of 21 mi. of laterals and sub-laterals. Another 17 mi. of

laterals for the Dome and Wellton-Mohawk distribution systems were also begun in 1954. In 1954, 27 mi. of canals and laterals on the Dome system were completed.

More money for Corps on flood control and military work

Major civil works activity by the Corps of Engineers in Arizona is concentrated in the proposed Painted Rock Dam near Gila Bend on the Gila River. But to date the \$25,000,000 project has only been authorized; no construction funds have been appropriated. In the meantime, planning activities continue to the tune of \$100,000 appropriated for the current fiscal year.

Painted Rock Dam is contemplated as an earthfill structure 174 ft. high and 7,500 ft. long.

Military construction by the Corps in Arizona is administered by the Los Angeles District. Most of the work continues to be for the Air Force. And the direction of activity, measured in dollars, is up. Last year some \$6,000,000 was spent; this year the figure will run closer to \$9,000,000.

As elsewhere in the West, Arizona continues to grow, and its construction market is paced by a heavy population influx and the development of a large supporting group of commercial and light industrial enterprises. Markedly arid, Arizona therefore requires particular attention to the development of water resources. So far, continued large scale watershed developments have not been necessary. Since water conservation and flood control would be their first purpose, firm power supply comes from steam plant construction. Such developments, concentrated in the major population centers, bring a continued heavy emphasis on construction activity in those areas also. Arizona is growing with the West. In fact, in some ways it is growing ahead of the West.

1954's BIG ONES IN ARIZONA

Fisher Construction Co. of Phoenix, construction of runway and taxiway at Luke Air Force Base—\$1,318,000.

Kitchell-Phillips Construction Co., Inc., and Utah Construction Co. of Phoenix, construction of 71,000-sq. ft. test facility building adjacent to Sky Harbor airport in Phoenix—\$2,727,160.

Morrison-Knudsen Co., Inc., of Los Angeles, earthwork, concrete lining, and structures on the Wellton-Mohawk Division of the Gila Project—\$1,168,972.

James Stewart Co. of Dallas, construction of a 10-story bank building in Phoenix—\$2,740,000.

CALIFORNIA

A decade away from passing New York as the nation's most populous state, California has spectacular construction plans at all levels. City, county, state, and utility agencies will dig into backlog in 1955 to bring construction near an all-time \$3-billion level. Large-scale water supply projects could take the spotlight, but city and county work will be a big factor.

EASILY THE MOST SPECTACULAR quality of heavy construction in California lies in the terrific work loads of the individual sponsoring agencies, whether public or private. Logic is given to the size of electric power, highway, water supply and sewerage programs in the state only when the programs of individual cities and counties, and of industries, are also considered. Between them, these two general divisions of California construction activity emphasize the health of an economy that seems to be expanding faster, if that is possible, than an admittedly heavy population influx alone would warrant.

To detail the many aspects of construction in California would take many more pages than are available in this review. But a good understanding of California construction can be had in summaries of work by the state highway department, two or three of the major power utilities, water conservation and irrigation districts, county road departments, city engineering departments, the Bureau of Reclamation and the Corps of Engineers.

1,600 mi. of multi-lane, toll-free highways—growing more yet

The California budget for the coming fiscal year provides \$122,018,000 for major construction and improvement, compared with \$131,387,000 for the fiscal year now ending. This reduction reflects the provision of present law that the current gasoline tax automatically will be reduced by one-half cent in July, and other highway user taxes also reduced proportionately. It should be noted that there is strong favor for continuing the gas tax at present levels, but quick legislative action will be required for this.

As with other types of public works, new budget funds are not the whole story for showing the level of

work. As in the year just passed, California will have about \$300,000,000 worth of highway construction under way this year. This total figure takes into account about \$200,000,000 in work that was under way or in the advertising stage on January 1—as well as the expectation of placing most of the fiscal 1956 funds under contract this year.

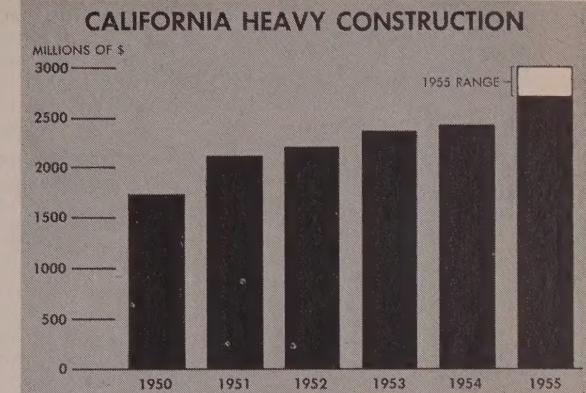
California's highway maintenance schedule will hold about steady, according to G. T. McCoy, State Highway Engineer. The new fiscal year budget is \$23,000,000, as against funds last year of \$22,500,000.

California's state highway organization planning includes consideration of a big boost in construction if special federal funds become available.

In releasing details of the coming work program, California noted "a conception of the highway improvements which will be accomplished can be gained from these facts: the major construction projects affect more than 400 mi. of state highways; a total of 40 bridges across streams and 133 other structures will be constructed; 65 mi. of the proposed improvements involve full freeways, which will bring California's total of full freeways to a new high of 388 mi. The proposed 64 mi. of expressway construction (with some intersections at grade) will increase the mileage of multi-lane divided highways to 1,639."

The largest single item in the construction portion of the budget is \$7,015,000 for an 8-lane section of the Eastshore Freeway in Oakland, connecting to the distribution structure at the east end of the San Francisco-Oakland Bay Bridge. The next largest is \$4,600,000 for extension of the Harbor Freeway in Los Angeles.

There are other notable projects in California under state auspices, either being built by the Toll Bridge



Authority or under consideration by the Highway Commission. Among the former is the Richmond-San Rafael Bridge across the northern part of San Francisco Bay. There are two major contracts on this job, one at about \$14,300,000 for substructure, which is being carried out by Ben C. Gerwick, Inc. and Peter Kiewit Sons' Co. The superstructure contract at \$21,100,000 is held by Kiewit, in conjunction with Judson Pacific-Murphy Corp. The underwater work involving unique and effective application of precast concrete elements is about 80% complete, and superstructure is at about the 40% mark.

Long overdue plans for a second bay crossing between San Francisco and Oakland finally got some place in 1954 with approval by the Corps of Engineers. The next step is submission of the crossing plans to the state legislature this month.

Much more being planned for the Central Valley Project

Another agency sponsoring construction statewide in California is the U. S. Bureau of Reclamation, and the focus of its efforts in California for many years has been the Central Valley Project. Although this vast system of irrigation, reclamation, conservation, and power facilities has been functioning effectively for some years now, it is still far from complete.

At present a substantial construction program continues on the project, principally in the form of Folsom powerhouse, a 162,000-kw. facility for which all major contracts have been awarded. The structure itself was completed in 1954.

Also completed in 1954 were 46 mi. of pipeline, laterals, and sub-laterals for the irrigation system itself. Large scale construction continues on these systems, particularly

those under the Friant-Kern and Madera canals. About 50 mi. of pipelines are being built under various contracts and overall progress is about 20%.

First major work to be undertaken on the Sacramento Canals unit of the Central Valley Project began late in 1954 for 7 mi. of the Corning canal, including seven prestressed concrete bridges. This work is in the northern part of the state near Red Bluff. A second section of the canal, about 5 mi. long, is scheduled for a construction start early this spring.

The feature of the Solano Project on the west side of the Sacramento Valley is Monticello Dam, construction of which was covered in these pages last September. Progress on the work is officially about 25%, the first season having been devoted principally to rock excavation in the abutments and by-pass road construction. Completion of tunnel work will allow diversion during the coming year and commencement of dam construction proper. Monticello Dam will be a concrete arch rising 295 ft. above its foundation. Crest length will be 1,000 ft., and the volume 260,000 cu. yd.

To the south new construction funds totaling \$520,000 made available under a supplemental appropriation for the current year, will allow completion of the Cachuma Project if present construction conditions prevail. The big question mark here is Tecolote Tunnel, one of the most difficult in construction history. A measure of the difficulty underground lies in a comparison of the original contract price of \$4,800,000 to a presently estimated total cost of about \$10,000,000. The job was thoroughly reviewed in *Western Construction* for August 1954.

At the end of 1954 progress on the tunnel contract was estimated at 85%. By the end of November only 1,500 ft. of tunnel remained to be driven, and it was hoped to hole through in January.

STABILIZING in-place road materials in Contra Costa County utilized such equipment as this Wood mixer. About 3 mi. of two-lane roadway was reconstructed under a \$233,000 contract and completed late in 1954.

Still further south in the state, 1954 saw completion of 11 mi. of pipelines for the Coachella Valley distribution system, part of the All-American Canal development. Also, work wound up on the San Jacinto-San Vicente aqueduct, the last portion of the job being 9 mi. of pipe. This job is the celebrated "second barrel" supplying Colorado River water to the San Diego area.

Long range water plans by the state and Bureau of Reclamation

Several new projects are proposed for Bureau of Reclamation construction. In view of the present Democratic majority in Congress and a renewed interest in Reclamation in the West, the prospects for new projects are better than they have been for the last couple of years. Such a project is the Trinity Project. This contemplates a dam on the Trinity River in the northern part of the state, and diversion of the impounded water through the Coast Range into the upper reaches of the Sacramento Valley. Existing features of the Central Valley Project could then be used to move this water, or its equivalent, to areas as far south as Kern County in the south San Joaquin Valley.

Another Reclamation job still in the future lies in the central coastal area of the state near Santa Maria. A Reclamation project contemplated here would include Vaquero dam on the Cuyama River. The dam would be an earthfill structure 184 ft. high; the work is estimated to cost \$17,000,000.

The state itself is sponsoring the Feather River Project, which would feature a 3,500,000 acre-foot reservoir on the Feather River. Effecting flood control in its own area, the reservoir behind Oroville Dam would provide water supply for a 567-mi. canal conveying water south as far as San Diego County.

The project has been authorized since 1951 and there have been annual appropriations to continue design and field studies. Most recently bids have been taken in December for additional test hole drilling for exploration of possible locations of tunnels to convey the project water through the Tehachapi Mountains.

Flood control and military work —Corps of Engineers highlights

Linked in purpose with California's Feather River Project and the Bureau of Reclamation Central Valley Project is Folsom Dam, under construction by the Corps of Engineers. The principal purpose of this structure is to control floods on the short, steep, and occasionally very wet American River watershed east of Sacramento. But in an arrangement that was unprecedented at the time of planning and design, the dam has been built to provide power also. Those features have been handled separately by the Bureau of Reclamation under a contract with Guy F. Atkinson Co. In the meantime, construction of the dam itself has continued under Corps administration, with Merritt-Chapman & Scott Corp. and The Savin Construction Corp. holding the prime contract at about \$30,000,000.

It's a long jump from the amount of money available for construction on Folsom Dam down to the next largest item of Corps of Engineers civil works in California. This is the Los Angeles County drainage area where an original appropriation of \$8,500,000 was supplemented with an additional allotment of \$1,200,000 for the current fiscal year. Tied in closely with this work is Whittier Narrows Dam for which \$3,500,000 of additional funds have also been made available.

At Whittier Narrows, A. Teichert & Son and M. J. Bevanda have a continuing contract for \$3,497,000 for construction of the west embankment and outlet works. This work began in April 1954 and is scheduled for completion in October this year.

A long-time dream of many, yet by and large the bane of civil and hydraulic engineers in California, is the proposal for salt water barriers in San Francisco Bay. On any scale at all, one barrier or several, such project would be a virtually unprecedented construction undertaking.

In recent years pressure for a full investigation and utilization of the state's resources — both land and water — has led to state authorization of a study of some phases of the barrier problem. These studies are in process now under the direction of a board of outside engineers headed by Raymond Hill of Los Angeles, and a report is due this spring.



Military construction scheduled for this fiscal year by San Francisco District has been pegged at \$20,000,000 by the recently named District Engineer, Col. John A. Graf. Col. Graf further indicated no appreciable slackening in work placement for his office throughout fiscal year 1956. Estimates for the current calendar year for the district comes to \$30,765,000. However, more than \$4,000,000 of this total is for work at Honolulu and Johnston Island, and an additional \$12,072,000 is for San Francisco District work in the states of Utah and Nevada. Thus, California projects account for the remaining figure, \$14,679,000.

The bulk of this work is concentrated at Castle Air Force Base near Merced, where placement is estimated to total \$7,679,000. San Francisco Bay Area work in turn totals \$3,736,000, of which a considerable amount is applicable to NIKE site development.

Military construction in the southern part of the state by the Corps of Engineers is expected to jump from the 1954 figure of \$33,260,000 to about \$51,000,000 in 1955.

Corps of Engineers construction in the inland and northerly portions of California is handled by Sacramento District, which has Folsom Dam as its principal item of civil works. The district also has a current volume of about \$15,500,000 in military construction.

Coming up for early construction are a pair of craft hangars estimated to cost \$2,500,000 each. One is at Mather Air Force Base, the other at Travis. The Mather installation will measure about 250 x 350 ft. in plan, with 60 ft. of height clearance to accommodate B-36 aircraft.

County road system requirements are of staggering proportions

Now for a look at another aspect of work in the state. Despite the staggering expenditures by the state Division of Highways, county road needs continue to be staggering. Last year the Committee on Highways, Streets, and Bridges of the state senate noted that fully one-third of California's 67,000-mi. county road system is in such bad condition that expenditures of over \$561,500,000 would be needed to overcome deficiencies.

Spot checks of a few California counties indicate the magnitude of the efforts presently being made. First, Contra Costa County lying at the northeast side of San Francisco Bay.

Overall volume of the county's program can be measured by contract amounts totaling \$2,350,000 for 1954 and estimated to be \$3,500,000 this year. Projects are financed both from user funds returned by the state and by road bonds within the county. Of the bigger bond projects,



EVEN UNDERGROUND is to be found the popular sign. Los Angeles County Flood Control District has undertaken a \$179,000,000 storm drain system that includes 140 separate projects, such as the one shown here.

two have just been completed and one is just getting under way. The completed contracts totaled \$302,000 and \$440,000. The new work, drainage structures over a 3.1-mi. length, will cost \$330,000.

Geometric and structural design standards for a metropolitan county such as Contra Costa are fairly high, as indicated by a 4.4-mi. job coming up at a cost of \$880,000. Another \$600,000 item in the 1955 budget covers bringing a section of country road to 4-lane standards.

Dollar figures for current fiscal year activity in Sacramento County make a good illustration of the major sources of funds for county roads. According to Arthur L. Kiefer, County Engineer, the current road program will have total expenditures in the neighborhood of \$3,250,000.

The major revenue categories within this total are property taxes, \$877,400; gasoline tax revenues returned by the state, \$1,490,000; and fines, \$328,000.

Carl Lind, Commissioner of Public Works for Fresno County, reports federal aid road construction in the county totaling \$626,800 this year. This work includes four railroad grade crossing jobs totaling nearly \$50,000.

In addition to the federal aid work, county forces are undertaking various road and bridge construction, and drainage and maintenance activities, to the tune of about \$1,200,000.

Federal aid projects in Fresno County for the coming fiscal year so far are estimated to cost about

\$362,000, and continuing force account work should run about \$1,250,000.

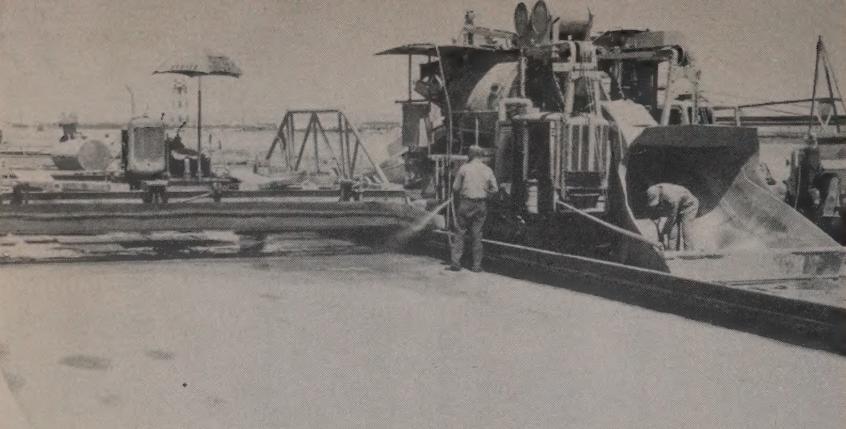
Los Angeles County roads in the midst of freeways

Although his agency is known as a road department, Los Angeles County Road Commissioner Sam Kennedy makes a realistic differentiation between major highway construction and mere county road improvements! This makes good sense in a county that is laced with state freeways and which includes some pretty high standard construction on its own.

One of the main north-south county routes is known as the San Gabriel River Parkway and it is cited by the county as a good example of stage construction. The work began some 4 yr. ago with a bridge across the San Gabriel River. The need for that work can be judged from the fact that it replaced a river crossing which had previously washed out on the occasion of every heavy rain! The bridge was completed in 1952 and a succeeding road contract connecting to it was finished just two years ago.

The second portion of the project is under contract now and is estimated to cost \$890,500. This work includes another bridge across the river and also three smaller bridges over tributary creeks and drainage channels.

For the current fiscal year construction funds totaling about \$4,976,000 are being spent on about 53 mi. of roads, exclusive of right-of-



PAVING of the 15,000-ft. runway at Edwards Air Force Base was one of the large military contracts for 1954. R. A. Westbrook, Morrison-Knudsen Co., Inc., and Ford J. Twaits held the \$7,036,400 contract, now nearly completed.

way and engineering costs. The breakdown includes 16 major road projects costing between \$38,000 and \$464,500, eight bridge approach jobs totaling \$200,000, 17 county road improvement projects in various areas totaling \$1,190,000, and 14 bridge projects totaling \$1,165,000.

Civic progress denoted by a 5-yr. building master plan

A look at what the state itself has proposed for a 5-yr. institutional building program provides a good introduction to a look at the local scene in public and private construction throughout the state. In December 1954 a state governmental construction planning committee recommended a 5-yr. construction program totaling \$459,500,000, primarily for educational, mental, and penal facilities. The committee's report constitutes a master plan that will be submitted to the state legislature this year for appraisal and action.

State facilities such as these are scattered throughout the state—as witness eight campuses for the state university—and contribute markedly to the construction economy of many localities. As an example, a new state hospital in Ukiah, Mendocino County, far to the north, has just been opened at the completion of a 2½-yr. construction period. Cost of this facility was about \$2,270,000.

Civic progress throughout the state has been noted and remarked upon for this review by city engineers, city managers, chamber of commerce officials, public works directors, and commissioners. An initial optimistic note is provided by the Chico Chamber in the Sacramento Valley: ". . . three major housing projects comprising 1,000 units . . . two schools at a combined cost of over \$1,000,000 . . . two industrial units (not processing) at a cost of \$500,000."

San Jose, at the base of the San

Francisco peninsula is blessed by a high rate of population and industrial growth, and cursed by poor natural drainage. The year just past has seen continuation of a 7-yr. program of storm and sanitary sewer construction. Two of the projects just completed showed costs of about \$340,000 and \$250,000. Street lighting installations were completed to the tune of \$325,000. Coming up are a sewage disposal plant on which work will begin this spring, also two bridges, a railroad underpass and a health center.

A further look at the volume of activity is provided by building permit figures. The total for 1953 is significant—\$91,170,000, including the \$50,000,000 Ford Motor Company assembly plant. Estimates for 1954, without such a single large contributing item, should be about the same as the previous year. Building permits just after mid-1954 already totaled \$45,000,000.

Individual cities are having a major year in prospect for 1955

Harris Munger, Director of Public Works in Salinas, reports heavy activity last year in subdivision work, including sanitary and storm sewers and street paving. This classification of work alone is in the neighborhood of \$525,000. And the expectation for this year is about the same.

A clue to the future can also be gleaned from statistics on building permit valuations. In the past 8 yr. the range has been between \$1,691,000 and \$6,992,000. These are annual figures. And the trend has been consistently up, with the exception of the past 2 yr. But look at 1954: for only 10 months the total was \$5,113,000 with a single month, June, totaling over \$1,000,000.

A major category of public construction that results from expansion of this type is sanitary and storm sewers. A 3-yr. program beginning last year totals over \$2,000,000, of which some \$270,000 is already complete or under contract. This work

has been supported by approval of a \$990,000 bond issue.

A report on engineering construction from Lodi emphasizes a trend in civic works in California. This is the expenditure of nearly \$200,000 on an interceptor sewer and sewage treatment plant. Part of this work is continuing into 1955. The significance of this work lies in state legislation about 4 yr. ago whereby means and criteria for pollution control were established in connection with the state's water resources. Under the terms of this legislation, California industry and public bodies both are constructing facilities aimed at controlling effluent quality to the degree required in the individual case.

Sewerage is the big thing in public works construction for Modesto. Last year the city built digester and detritor units for the sewage treatment plant at a cost of over \$164,000. Also installed was a sewage lift pump station at a cost of \$47,300 and over 8 mi. of trunk sewer lines, costing \$458,000. Still under construction is 4.8 mi. of trunk sewer worth \$188,500.

This year this program will be continued to the tune of \$875,000 in sewage treatment facilities and \$200,000 for additional trunk lines. At the same time water main extensions worth \$100,000 will be installed and street construction undertaken to the extent of \$90,000.

In the Fresno area both the county and the city governments continue extensive building programs. About 50% complete under a contract held by Midstate and Stolte Construction Co. is a new 4-story, 293-bed hospital that will cost \$1,800,000. Harris Construction Co. has reached the 30% mark on an annex to the County Hall of Records. This is a \$537,000 job. Completed last year by Larsen-Ratto Construction Co. was a new county building at Fifebaugh costing \$164,000.

Bids are expected to be taken in the next couple of months for a new library building estimated to cost \$1,650,000. And planning continues for a \$350,000 detention home.

Water supply system improvements estimated to cost over \$430,000 are under way or just completed, including the sinking of five new wells, replacement of motors and pumps, extension of some water mains and replacements of others. Coming up this year, on the basis of present developments, is an anticipated expenditure of another \$250,000 for new water service in subdivisions.

Bond issues will set the pace for Los Angeles public construction

Construction activity in Los Angeles covers a lot of ground! It takes in such things as a new 10-story city health building completed late last year after 2 yr. of work and the expenditure of \$3,700,000. It includes the new police building, also part of the Civic Center cluster of buildings. And it takes in such items for the

CARBIDE INSERT? or MULTI-USE?



LOCATION: New York-Buffalo Thruway, West Nyack, N. Y.

OPERATING CONDITIONS: Drilling 36" lift holes through trap rock and granite gneiss.

Geo. M. Brewster & Son, Inc., Bogota, New Jersey, pushes deep-hole drilling costs down with TIMKEN® carbide insert bits

WAGON-drilling 36-foot lift holes through trap rock and granite gneiss was the job facing Geo. M. Brewster & Son, Inc., on the West Nyack section of the New York-Buffalo Thruway.

As is usual in cases like this, Timken® carbide insert bits proved the most economical. They give highest drilling speeds and lowest cost per foot of hole in extremely hard and abrasive ground—especially where it is otherwise impossible to drill out full increments of steel. They're most economical for small diameter blast holes and constant gage holes, too.

But in ordinary ground, where Timken multi-use bits can drill out full increments of steel, they cut drilling costs even more.

It takes both bit types to solve all drilling problems. When they're Timken bits, both types are interchangeable on the same steel. It's a quick and simple matter to switch from one type of Timken bit to the other—as quick and simple as taking one bit off the steel and screwing on another. And there are many different sizes and designs of Timken bits in each thread series, to fit all drilling situations.

All Timken bits are made from electric-furnace Timken fine alloy steel. And all have special shoulder unions—a

Timken Company development—that save the threads from drilling impact damage.

Get the impartial recommendation of the Timken Company Rock Bit Engineering Service on which type and design of bit you should use. Write: The Timken Roller Bearing Company, Rock Bit Division, Canton 6, Ohio. Cable address: "TIMROSCO".



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See manufacturer's listing page 48H, Yellow Section

future as a proposed \$45,000,000 bond issue for sewage disposal facilities and a statement of \$16,000,000 in junior college building needs. This last figure on top of a \$100,000,000 bond issue for elementary and secondary schools that will be voted on in April. Construction in the Los Angeles area also takes in the activities of many surrounding towns, among them Burbank, for example. Two short tables tell the story:

1954	
Street Construction	\$328,800
Alley Construction	58,300
Utility Cut Patching	16,200
Street Maintenance	312,400
Sewer Construction	30,000
Sewer Maintenance	86,300
Total	\$832,000

1955	
Street Construction	\$360,000
Alley Construction	65,000
Utility Cut Patching	18,000
Street Maintenance	320,000
Sewer Construction	25,000
Sewer Maintenance	95,000
Total	\$883,000

Progress in the city of Pasadena shows up in a concentration of street department effort on widening of established streets. There has been off season activity in the city's famed Rose Bowl also—\$13,000 worth of seat replacement!

Gardena cites a good example of the residential boom that continues in Southern California. Gardena used

L. A. DEPT. OF WATER & POWER
will put nearly \$20-million into water systems in 1955. A glimpse of the agency's work below: 51-in. pipe trunk line being installed under flood control channel in West San Fernando Valley.



to be a small town in the broad plain south of Los Angeles and between that city and San Pedro. Now it is part of the vast Los Angeles "bedroom" and its City Engineer, Harold A. Barnett, reports as follows: "We have had one annexation comprising about 475 acres, which is in process of being developed as a residential and commercial area having approximately 17 mi. of fully improved streets. Actual development is still in planning stage but it is expected to start in the spring of 1955. Approximately 1,500 new homes are planned."

Alhambra reports expected continuation of a \$250,000 annual program of street maintenance and reconstruction. But additional specific projects, including storm drains, this year will total \$1,477,000. When other public works projects are included, the 1954 and 1955 totals come to \$490,000 and \$1,977,000 respectively.

In the case of Long Beach city, dollar figures alone are deceptive. For the fiscal year ended last July, public works expenditures totaled over \$8,977,000. This figure included contracts for equipment purchase, acquisition of right-of-way, and disposition of funds on improvements financed by private interests.

For the current year the grand total figure stands at \$30,127,000. But this includes several very special projects financed from new and different sources. One is the item of storm drains—\$6,537,000 in projects to be done under a Los Angeles County bond issue program. On much of this work plans and specifications are not yet complete, but one unit estimated to cost \$2,800,000 has already been bid.

Hawthorne, Santa Monica, Long Beach: volume same to startling gain

Hawthorne maintains its level of public construction with 1954 and 1955 figures of \$700,000 and \$745,000, respectively. The work runs from street paving to water supply facilities and includes administrative and garage buildings for the city government. A feature of last year's work was hydraulic rotary drilling of a 545-ft. well (30-in. diameter) and installation of a 2,000-gpm. deep well turbine pump. Cathodic protection was provided for both the well and the pump. Four steel tank distribution reservoirs were built, also incorporated cathodic protection, at a cost of \$325,000 by American Pipe & Steel Corp. of Norwalk.

Santa Monica shows a startling boost from a 1954 volume of \$1,348,000 to a 1955 estimate of \$3,565,000. A prime target of attention in this city, as in practically all of the Los Angeles metropolitan area, is storm drain construction—\$566,000 last year, \$470,000 coming up.

Another category containing five

projects totaling \$18,000,000 comes under the heading of Tideland Oil Fund Projects. Much of this work will necessarily be done over a period of years. The major items are: an auditorium exhibit and recreation hall, \$5,500,000; improvements to the Alamitos Bay Marina, \$10,000,000; and the new J. H. Davies bridge, \$1,207,000. Construction on this last item has already started.

A heavy program of construction of facilities continues under the sponsorship of the Port of Long Beach, where over \$12,000,000 was spent on design and construction in 1954. The major single items included four new transit sheds, a new pier, a new warehouse, and concrete piers for two new bridges. Dimensions show this program to be on a large scale: one transit shed measures 160x1,167 ft. in plan, the new wharf includes 1,600 reinforced concrete piles.

Projects coming up this year include \$3,000,000 of transit shed construction and the beginning of work on 3 freeway bridge superstructures—two jobs totaling \$12,700,000.

The local angle on water resources: Tri-Dam bids coming

Backing up all this evidence of growth at the local level are extensive programs of resources development on a multi-county—or larger—scale by privately and publicly owned utilities and irrigation districts. One of the largest projects of recent years is the Tri-Dam Project planned for construction on the Stanislaus River by two irrigation districts in the San Joaquin Valley.

A year and a half ago the entire project, estimated to cost over \$48,000,000, was all ready to go; and bids were taken. Rising bond interest rates, however, forced rejection of all bids at that time. Subsequently, efforts have been made to improve the financing. Articles reviewing legislation introduced for this purpose appeared in *Western Construction* last year in the February and May issues.

Present plans are to separate the units of the project and provide the necessary reserves by stage construction, together with other required corrective action. The project sponsors, Oakdale Irrigation District and South San Joaquin Irrigation District, plan to call for bids again this year on the Donnels and Beardsley units. (When bids were taken the first time, the Donnels unit totaled about \$16,573,000; the Beardsley unit, about \$7,900,000.)

The biggest item in the current program of United Water Conservation District is construction of Santa Felicia Dam. This project and others proposed by the district are aimed at agricultural water supply development on the Santa Clara River and its tributaries in Ventura County.

Santa Felicia Dam is being built by

The Engineer's Report

CASE HISTORY

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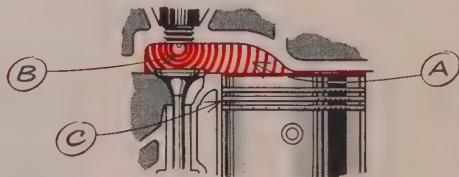
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a joint venture consisting of D & H Construction Co., Macco Corp., and M. H. Hasler Construction Co. on a contract of \$3,535,000. The work began last spring and is expected to run throughout the current year.

Flood control on a county basis good for \$22,000,000 per year

In addition to activity by the Corps of Engineers, flood control problems in Los Angeles County are being met by a County Flood Control District. The district is now in the middle of a 5-yr. construction program based on a \$179,000,000 bond issue that was approved 2 yr. ago. The bond issue includes 140 separate projects, of which 16 are expected to be complete by June 1955. Also, bid calls will have been authorized for 36 more. Jobs now complete, under construction, or advertised total more than \$22,000,000 in construction contracts.

The largest single job awarded to date went to a joint venture of E. A. Irish, Johnson-Western Construction Co., and Clyde W. Wood and Sons, Inc. These firms submitted the low bid of \$3,269,700 to construct a storm drain project that will serve five cities in the south-central portion of Los Angeles County. Construction got under way last month.

Other than storm drain work the district has a continuing program of channel improvements, debris basin construction, and spreading ground work. Some 18 projects under way this year account for additional expenditures of \$7,411,000.

Outfalls by the mile mark sanitation district work

Offshore outfall construction is the heavy construction feature of work by the County Sanitation Districts of Los Angeles County. According to A. M. Rawn, Chief Engineer and General Manager, two principal jobs were finished in 1954. The season coming up includes even heavier activity—to a total figure of \$9,400,000. Again, outfalls are the big item. One job includes 7,982 ft. of 90-in. concrete pipe and 2,400 ft. of 60-in. Another job involves 8,400 ft. of 12-ft. diameter concrete lined tunnel in rock. Work is just getting under way on this one.

Also under way is a 7,700-lin. ft. project involving 60-in. diameter sand tunnel with reinforced concrete pipe lining. And coming up this year, with bids opened last month, is another 7,200 ft. section of outfall.

Expansion of facilities marks the construction program of the Metropolitan Water District of Southern California. Construction project expenditures are estimated at \$23,000,000 for the current fiscal year, and the same level is expected to apply for the year coming up.

Funds already expended on com-

pleted work in the first six months of the fiscal year total a little over \$4,000,000. This work included the 1,500-acre-foot Garvey Reservoir, asphalt slope paving of which was reviewed in *Western Construction* in November 1954.

Pumping plant expansion on the Colorado River Aqueduct, 48- to 108-in. pipeline construction, and tunnel excavation are expected to cost about \$15,500,000 this year. Work on these same projects will continue into the coming fiscal year and the eventual cost will be around \$33,000,000.

Three electric power utilities spend \$280,000,000 in one year

Continuing a postwar expansion of facilities that has already seen generating capacity doubled, Pacific Gas & Electric Co. completed work on three projects in 1954, and just these three projects represented total investments of nearly \$100,000,000. They included the \$75,000,000 steam plant at Pittsburg, looping—the addition of 200 mi. of parallel line—of the Super-Inch natural gas pipe line from Needles at a cost of \$19,000,000, and construction of transmission lines for the Pittsburg plant at a cost of \$5,000,000. Work continued during the year on two more widely separated steam plants, the \$8,500,000 installation at Humboldt Bay and the \$44,000,000 installation at Morro Bay.

Coming up this year are the first steps on the King's River project. Commencement of the work depends primarily on establishment of final agreements with downstream water users. The ultimate \$80,000,000 project will include construction of 3 hydro plants and enlargement of a fourth, and will include the construction of 2 rockfill dams.

The Poe hydroelectric project on the Feather River will get well under way this year also. Early construction has already begun in the form of two bridges required for access to the powerhouse and the upstream adit of the tunnel.

Altogether, P. G. & E. has just wound up a year that saw total construction expenditures of about \$170,000,000. The rate should be a little bit lower for 1955, with fewer complications scheduled.

In the southern part of the state Southern California Edison Co. spent \$75,000,000 on plant construction in 1954. This company expects spending in 1955 to be about the same. The focus of activity presently is on the new El Segundo steam plant, which is scheduled for operation in July of this year. Completion by September 1956 will bring the total cost to an estimated \$46,000,000.

A late development in the company's planning for 1955 is an immediate start on the first \$24,000,000 unit of a steam plant east of Long Beach on Alamitos Bay. Like its predecessor plants, this one will be

built around a 156,000-kw. generating unit, with provision for the eventual installation of three more.

Additional power generating facilities are being developed in Southern California under the auspices of the Department of Water and Power of the City of Los Angeles. Power system construction during the recently completed fiscal year totaled \$54,997,000, a record for the system. But the investment during the current year is already estimated to be \$60,881,000.

Steam construction contemplated includes a new plant at Hyperion, west of Los Angeles, and one near Long Beach. The estimated cost of the first two units of Hyperion is \$50,000,000. The Long Beach plant has a tentative price tag of \$85,000,000.

Water system construction by the same agency during the last fiscal year totaled about \$15,770,000. And expenditures this year are up to \$19,357,000. These expenditures are well scattered throughout the department's distribution system. Work starting this year includes a 19,769-ft. trunk line project composed of 48-in. welded steel and reinforced concrete pipe. A \$1,334,000 contract for the improvement of a reservoir in the western section of the city has been awarded with the work scheduled for completion by January of 1956. Total cost of this project will eventually run to about \$4,000,000.

And so the dollar figures for construction activity in California roll on, from the thousands to the hundred thousands to the millions and the hundreds of millions. Roads and streets, water and power, homes, commerce and industry for a population that is increasing at the rate of 1,000 per day. The major cities of the state are clogged and congested with traffic—and smog!—but the development continues. California is Western construction with its best foot forward.

1954's BIG ONES IN CALIFORNIA

J. C. Boespflug Construction Co. of Los Angeles, construction of the Westchester High School in Los Angeles—\$4,213,000.

Fred J. Early Jr. Co., Inc., of Torrance, construction of runway and taxiway for Lockheed Aircraft Corp. at Palmdale—\$2,977,000.

Fredrickson & Watson Construction Co. and M & K Corp. of Oakland, 4.8 mi. grading and paving on 6-lane freeway on US 40 in Contra Costa County—\$5,107,882.

A. Teichert & Son, Inc., of Sacramento, construction of west embankment and outlet work on the Whittier Narrows flood control basin—\$3,088,946.

Vinnell Co., Inc., of Alhambra, construction of pipelines for the Metropolitan Water District—\$2,632,700.

COLORADO

"Denver" is the word in this state! Ninth in the nation in metropolitan building, and it's still going up. Employment on Air Force Academy construction to reach 500 this year, 10 times that figure in '56. AEC is starting \$7,000,000 center at Grand Junction, and uranium takes over the plateau. Highway contractors eye a state program of \$27,500,000 this year. Let's look at that first . . .

FISCAL VERSUS calendar year accounting can be complicated, but Colorado has prepared for us on a calendar basis what the highway construction picture will be for 1955 even though they are now on a fiscal basis.

For 1954. By the end of October, 104 projects had been placed under contract at a cost of \$15,569,000 covering 480 mi. By the first of 1955, another 23 projects covering an additional 117 mi. and costing \$8,000,000 will have been awarded. This will bring the total up to 597 mi. costing \$23,569,000 for calendar 1954.

For 1955, funds available for construction will be about \$27,500,000—the largest sum on record. This amount of money would come from these sources: (a) \$9,000,000 carry-over into 1955 from money not used in 1954, (b) half of the estimated 1955 fiscal budget of \$29,000,000 that would start July 1, 1955, and (c) to this may be added some part of \$8,000,000 that would also be available after July 1.

Bonds for roadbuilding, but what about federal plans?

The last item results from an approval by the voters in November of 1954 of a highway anticipation warrant program of \$35,000,000. This issue provides that not more than \$8,000,000 in bonds may be sold in any one year. If the Highway Commission approves the use of half of this amount for the second half of 1955, then the budget for construction would be \$27,500,000 as noted earlier. If the Commission approves that the entire \$8,000,000 be made available, then the budget could reach the tremendous sum of \$31,500,000 for construction alone.

If the \$50,000,000,000 national program carries, Colorado can expect to obtain \$50,000,000 a year in federal aid funds. It would mean that this \$50,000,000, plus \$25,000,000 in state revenue, plus \$8,000,000 from the anticipa-

tion warrants, would give the Colorado Highway Department a total regular budget of \$83,000,000.

The department will readily admit that such a program is above their present manpower capacity to handle. The staff of design office engineers and field engineers would have to be increased by 100% or 150 and 180 men respectively. In addition, from 25 to 35% of the designing would be turned over to consulting engineers.

On the bright side of the picture are these outstanding facts about the Colorado highway picture. The Department won the Golden Milestone Award from the National Highway Users Conference for its Highway Sufficiency Rating Study. Such a study enables them to establish priorities on every section of the state highway system of approximately 8,000 mi. This assures that highway appropriations are being spent wisely where they are needed most.

As to obtaining more engineering personnel for an expanded program, Colorado revised its entire engineering pay scale upward in 1950 and has had no trouble in recruitment of qualified help.

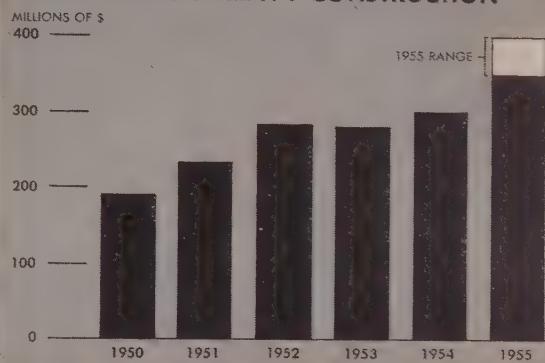
On the construction side, no shortage in materials, such as cement, asphalt, structural steel, gravel, or construction equipment is anticipated. The construction industry in Colorado should be able to expand within a reasonable time to handle the additional load.

Prestressed concrete coming in structures, rubber roads tried

Colorado has on the drafting table its first two proposed prestressed concrete structures. One would be on the Evans to Gilcrest section and the other on the Fort Morgan to Wiggin's Junction section.

In September 1954 the department's first latex-asphalt (rubberized asphalt) seal coat test section was

COLORADO HEAVY CONSTRUCTION



placed. This was a 14,000-ft. section south of Meeker on SH 13 with work performed by Alger Construction Co.

In October 1954 occurred the first trial project where embankments and basement soils in cut section are to be constructed with an in-place density specification at a unit price per cu. yd. for excavation. Northwestern Engineering Co. received the award on this 6.3-mi. project on SH 185, Denver to Broomfield Jet. This means that the method of work and type of equipment is not specified for the contractor; all the department wants is the end result in earthwork density. It is an interesting departure from previous methods and will allow the contractor greater freedom of choice on methods.

Colorado's maintenance budget took a \$3,000,000 jump from \$4,800,000 in 1953 to \$7,800,000 in 1954. Chief reason for this is that 4,000 mi. of additional road was added to the state road system that formerly had been under the county secondary system.

Kiewit puts 4 lanes through Denver, at \$500,000 per mile

Peter Kiewit Sons' Co. of Denver was awarded an \$847,445 contract on July 14 for grading, drainage, and plant-mixed paving of 2 mi. of the Denver Valley Highway from South Colorado Blvd. to Emerson Street. This project provides for a 4-lane freeway, depressed over most of its length, to go under three street bridges and over a traffic interchange. All structures were built under previous contracts. Total cost of the Kiewit contract to the state was \$1,043,654 including right-of-way.

One of the largest and most important contracts in recent years on the Federal Interstate System was an award of \$710,201 to the Henry Shore Co. of Littleton. This project provided for 5.5 mi. more of 4-lane highway through and to the north of Castle Rock on US 85-87. This is the state's major north-south route.

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Belt horsepower _____

Weight, complete _____ 16,200 lbs.

Dumping height _____ 9 ft. 1 in.

From the time of its introduction seven years ago, the Allis-Chalmers HD-5G Tractor Shovel has been tops in popularity. Many thousands are daily proving their ability and versatility on all kinds of material handling and excavating jobs.

Now, design refinements make the HD-5G a three-way better value than ever before:

1. Has Bigger Rated Capacity

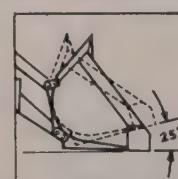
New bucket handles a big $1\frac{1}{4}$ -yd load — streamlined design now helps roll in large loads with less tractor effort. The back of the bucket has been brought forward and the sides extended to cut spillage, put more payload where it's wanted.

2. Helps the Operator Do More

Cleaner dumping with the new bucket saves the operator time and effort shaking out loads.

For added versatility, there is a two-position bucket available with both standard automatic return to digging position and operator-controlled tip-back. If the operator chooses to use the controlled tip-back, he can load the bucket, then tip it back approximately 25° before raising, assuring maximum output under special conditions such as downhill loading or loading loose materials.

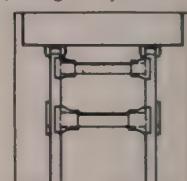
The HD-5G helps the operator do more in other ways, too — giving him full vision, fast and easy control, cleaner platform and more comfortable seat from



which to work, and more working time with truck wheels, support rollers and idlers that need greasing only once every 1,000 hours.

3. Works at Lower Cost

The HD-5G now works at even lower cost than ever before — not just because it *does more*, but because it has features that mean *less maintenance, longer life*. For instance, new type tubular bracing on the bucket booms provides added strength and support, keeps the bucket in line. The floor at the rear of the new bucket has been raised seven degrees to reduce wear on the bottom sheet. Heavy-duty truck wheels and idlers are available for particularly tough working conditions. One-piece, full-length main frame permits unit construction so that major assemblies can be removed without disturbing adjacent units, putting tractor back on the job in hours rather than days.



Ten Quick-Change Attachments

Add to HD-5G Versatility

Bulldozer	Crane Hook	Tine Fork
Angledozer	Light Material Bucket	Rock Fork
Narrow Bucket	Trench Hoe	— also rear-mounted Ripper
Rock Bucket	Lift Fork	

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ALLIS-CHALMERS

DEALER

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Neil B. McGinnis Equipment Company—Phoenix

NORTHERN CALIFORNIA

Buran Equipment Company—

Oakland and Santa Clara

Aikins Tractor Co.—Eureka and Willits

Moore Equipment Co., Inc.—

Stockton, N. Sacramento, Redding and Fresno

SOUTHERN CALIFORNIA

San Joaquin Tractor Co.—Bakersfield

Shaw Sales & Service Co.—

Los Angeles and San Diego

IDAHO

Southern Idaho Equipment Co.—Idaho Falls and Boise

MONTANA

Mountain Tractor Company—Missoula

Richland Machinery Company—Sidney

Selby Machinery Company, Inc.—

Billings and Great Falls

NEVADA

A-D Machinery Company, Inc.—Elko

Moore Equipment Company—Reno

OREGON

Pope Brothers—Eugene, Roseburg and North Bend

OREGON

Diehschneider Tractor Company—The Dalles

Hauptert Tractor Company—Medford

Wood Tractor Company—Portland

UTAH

Cale Equipment Company, Inc.—Salt Lake City

WASHINGTON

A. H. Cox & Company—Seattle, Tacoma

American Machine Company—Spokane

Mid-State Equipment Company—Wenatchee, Wash.

WYOMING

Studer Tractor & Equipment Company—Casper

Approximately \$95,000 of the estimated \$1,005,043 total cost, represents the cost of right-of-way, principally through Castle Rock. Construction items include 980,000 cu. yd. of excavation and 1,350,000 lb. of reinforcing and structural steel.

"Completion of this project has been a major goal of the Department of Highways for several years," Mark U. Watrous, State Highway Engineer, said. "The old road through Castle Rock has been one of the worst bottlenecks on the route between Denver and Colorado Springs, and we will be glad when it is eliminated. When this project is finished, the only portions remaining as 2-lane roads between Denver and Colorado Springs will be about 10 mi. between Denver and Castle Rock and 12 mi. between Larkspur and Monument. Four lanes already are provided on ascending grades between Denver and Castle Rock, and three lanes on similar grades between Larkspur and Monument.

The Highway Department is also studying a new site near Berthoud pass for a highway toll tunnel under the Continental Divide. The new site, the fifth to be investigated by the department in the last 2 yr., would cut through the mountains west of Berthoud pass at an elevation of 10,700 ft. Elevation of the pass itself is 11,314 ft.

A pass at the Straight Creek site was recommended by out-of-state engineers a year ago and was authorized by the 1954 state legislature. This project has been discarded for the time being because it is impossible to finance it from toll revenues and a state subsidy which was limited by the lawmakers to 30%.

Other routes which had been under consideration included the old pioneer Loveland tunnel bore, the Devil's Thumb site west of Boulder and Nederland and Jones passes near Berthoud.

Skyscrapers in the mile-high city: 12- and 14-story jobs start in '55

For a population of 685,000 within the metropolitan area, Denver ranked ninth in the nation (though only 27th in size) for the dollar volume of construction during 1954. The year 1953 saw a high mark of \$150,000,000 in new construction in the four-county metropolitan area. The first 10 months of 1954 saw this figure exceeded by five millions with expectations that it would reach \$175-180 million by the end of the year. What accounts for this phenomenal size construction figure?

Such factors as uranium, oil, gas, warehousing, plus people and scenery account for this growth. Considered in more detail, here are some of the accomplishments.

Installation of curb, gutter, with grading, base course, and asphaltic



PRESTRESSED CONCRETE is on its way for Denver city structures. Here's one of 24 girders making up the Mississippi Avenue bridge. C. M. Hanes held the \$127,450 general contract.

concrete paving came to \$1,250,000 within the street paving districts of Denver in 1954. Installation of sanitary sewers amounted to another \$580,000.

Work tentatively scheduled for 1955 by the city amounts to almost \$6,000,000 for street improvements, sewers, and public buildings. With the traffic situation rapidly becoming acute, many millions must be spent to relieve congestion and move traffic. Conceivably, a start on this program could be made next year.

Of particular interest in accomplishments by the city in 1954 was construction of the first prestressed concrete bridge in the Rocky Mountain area. According to Dewey Wright, city engineer, the main section of the bridge contains 24 prestressed concrete girders, each 50 ft. long and weighing 40,000 lb. It was built by the C. M. Hanes Construction Co. at a cost of \$127,450.

Recently completed on the Denver skyline were the 23-story Denver Club with Mead & Mount the general contractor, and the 23-story Mile High Center for which the George A. Fuller Co. is co-developer of the project with Webb & Knapp, Inc. Underway is the 14-story Petroleum Club Building being constructed by N. G. Petry Construction Co. Three off-street parking structures were built by the city for \$2,500,000.

One of the bigger plans in the near future is for Webb & Knapp, Inc.'s proposed Courthouse Square development. Approval by the voters of under-the-street parking areas, makes this \$28,000,000 hotel and store project that much closer to reality. Plans have also been announced for a

12-story, \$4,000,000 Polo Club apartment. Final contracts with the Grimshaw Construction Co. of Oklahoma have been signed for its construction.

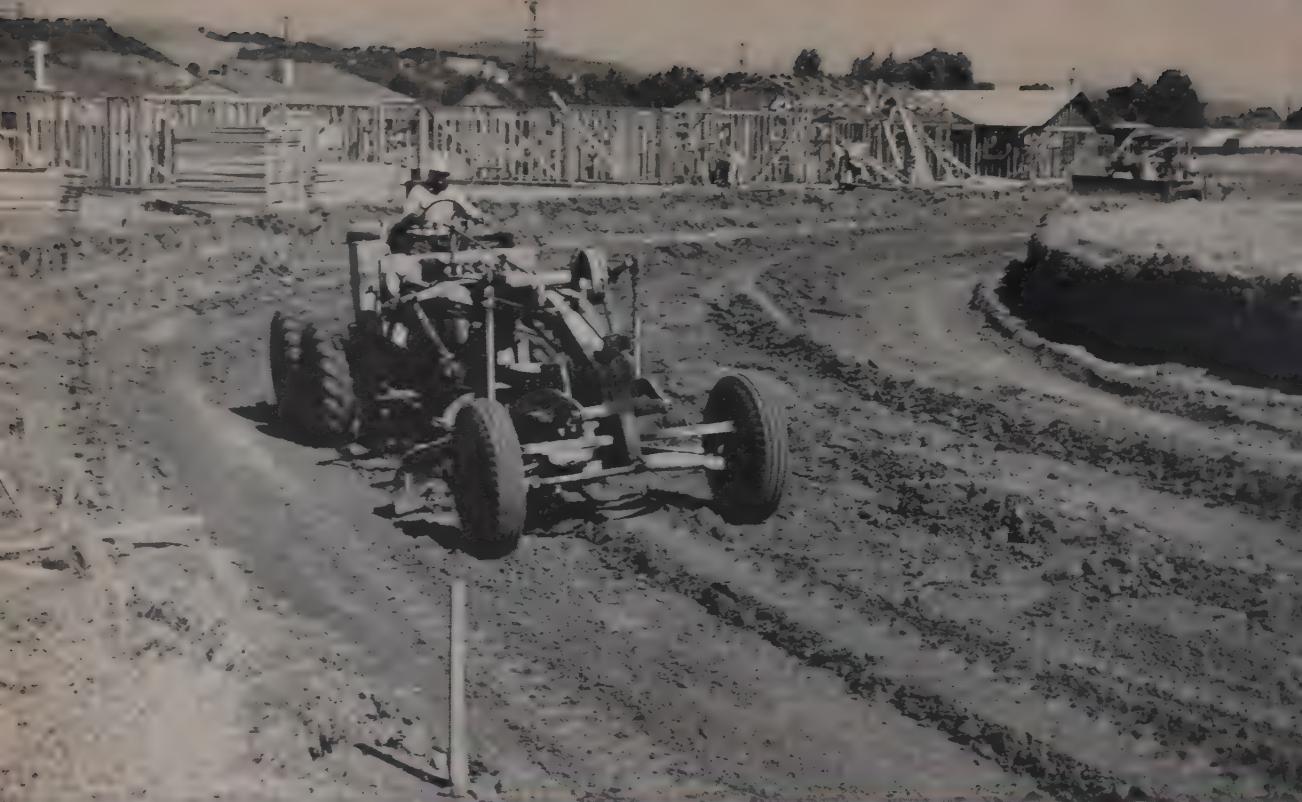
People move in, and suburbs build to a tune of \$80,000,000

There is a huge volume of residential building in Denver. In most instances the large subdividers are required to construct all public improvements within their development. The design and construction supervision is handled by the City Engineer's office. In the way of utilities in 1954, subdividers constructed about 24 mi. of street improvements including curb and gutter, base course, drainage and paving, and about 19 mi. of sanitary sewer. This will amount in dollar volume to about \$1,750,000 for streets and \$400,000 for sanitary sewers.

Denver's rapidly expanding suburbs accounted for \$66,000,000 for the first nine months of 1954—exceeding the previous year's total record. Typical of this is the Western Hills housing development 2 mi. north of Denver. Over 1,218 acres will be developed. An estimated 200 carpenters were on the job in November 1954 with doubling that amount anticipated at full swing.

Water supply is one of the bigger problems faced by Denver. The city's newest project, Boulder Creek Dam 22 neared completion in 1954. Costing about \$12,000,000, the structure is 390 ft. high, and contains 600,000 cu. yd. of concrete, the largest concrete dam in Colorado.

However, Denver was dealt a surprising blow by the state supreme



Typical on-the-job
summary of a
CAT* Motor Grader's
performance:

"MOST WORK... LEAST COST!"

THIS Cat No. 112 Motor Grader is building about $2\frac{1}{2}$ miles of streets in a subdivision of Napa, Calif. Foreman A. B. Gerding of the A. C. Raisch Co. sums up its performance as follows: "There just isn't any other equipment but Caterpillar-built equipment for contractors. They do the most work for the least cost."

That's a typical report on Cat Motor Graders on all kinds of road construction, from suburban streets to cross-country highways. In three sizes of varying horsepower, they meet all job requirements. Each model is engineered to outwork and outlast any other unit in its power class. Here are some reasons why they'll give you superior performance: The only motor graders built by one company, their power is balanced to weight and working speeds for maximum production. Their Caterpillar Diesel Engines use low-cost No. 2 furnace oil without fouling for a three-way saving—cheaper fuel, less of it and less maintenance. And their efficiency is increased by many features. For example, the engine can be started from the cab. Visibility is excellent—sitting down, the operator has an unobstructed view of

the blade and the job. Anti-coast brakes prevent "creeping"—the blade stays where he puts it. Blade-positioning is fast—less than a minute for most positioning without leaving the platform!

How do these money-making machines stand up? Here's a clue: 99% of all rugged yellow motor graders ever built are still in use! Get the complete picture from your Caterpillar Dealer, nearby for information, for service. Name the date—he'll demonstrate!

Caterpillar Tractor Co., San Leandro, Cal.; Peoria, Ill., U.S.A.

CATERPILLAR*

*Both Cat and Caterpillar are registered trademarks—®

99% OF ALL CAT
MOTOR GRADERS EVER
BUILT ARE STILL IN USE

court when a vote of 4 to 3 denied them 1,600 sec. ft. from the Blue River. The city's priority date was moved from 1927 up to 1946 with a reduction to 788 sec. ft. of water. There was the possibility that Del E. Webb might drop plans for a 6,000-home, \$100,000,000 development because of the ruling. The same decision affects Colorado Springs and the Air Force Academy development.

Boulder builds: "Total for 1954 stands at an all-time high"

Boulder city's major construction during 1954 centered on completion of a \$2,000,000 bond issue passed in 1953 for expansion of the water supply and distribution system. Construction was started in April 1954 on an 8,000,000-cu. yd., 40-ft. high rolled earth-fill dam. Colorado Constructors were low bidders at \$773,861 and were 85% complete on October 1. Water to be stored behind this dam (12,000 ac. ft.) will be obtained from the Bureau of Reclamation's Big Thompson Project.

Another interesting project is being built by the John H. Keller Construction Co. of Denver. This is a 10,000,000-gal. cut and fill, concrete lined reservoir for the city of Boulder. To insure water tightness, a rubber membrane was laid on top of the first 4-in. course of concrete. This was followed by a 2-in. slab. Footings and stubbed columns have been poured beneath the 4-in. slab for use in the future should it be necessary to cover the reservoir.

Extensive work has been done by city forces and by local contractors in enlarging the water distribution system. Only large construction project planned by the city in 1955 will be the enlarging of the storage capacity of the reservoirs in the mountain watershed and perhaps the installation next year of several miles of storm sewer.

Largest building contract in Boulder in 1954 was the \$4,500,000 radio laboratory for the National Bureau of Standards. Now under construction and to be completed in 1955 are \$3,000,000 of dormitories and other college buildings at the University of Colorado. Scheduled to start in 1955 is a \$1,000,000, 8-story office building and a \$4,500,000 hotel and shopping center. Mead & Mount Construction Co. are slated to build the latter.

Population pressures are no less in Boulder than in Denver. According to University of Colorado officials at least \$8,500,000 should be spent to provide new buildings and facilities at the campus during the next 10 years. Total construction activity for the year 1954 stands at an all time high.

→ See manufacturer's listing page 13H, Yellow Section

At Colorado Springs, the much discussed and hassled over Air Force Academy is the big construction project for 1955. To temporarily handle housing, Wilson & Co., architect-engineers, were retained to prepare plans for Air Force Academy quarters at nearby Lowry Field. This work included remodeling of some 60 buildings at an estimated cost of \$1,300,000 and is due for completion by June 1955.

Skidmore, Owings and Merrill, architect-engineers for the permanent installation, have opened offices in Colorado Springs. Associated with them will be Moran, Proctor, Mueser and Rutledge; Syska and Hennessy, Inc.; and Roberts and Co. to handle specific phases of the work. Planning is still in the very early stages on this 15,000-acre, \$126,000,000 project. It is planned that initial construction on roads, utilities, and runway facilities will begin in the late spring this year. About 500 contractors' workers will probably be on the job by this July with close to 5,000 by the fall of 1956.

Are you a prospective bidder? Then write a letter to . . .

The Air Force Academy Construction Agency under the U. S. Air Force is now supervising the overall problems of land acquisition, topographic surveying, and other problems. Contractors can write to this agency at Colorado Springs for information regarding invitations to bid on the construction. The project should be completed by mid-1957.

Other construction projects in this area include permanent type barracks at Fort Carson as well as family dwellings for Ent Air Force Base. Home building in Colorado Springs in 1954 was double that of 1953. It is anticipated that this heavy building will continue through 1955 and on into the later years.

A look at other Colorado cities shows these interesting facts. At Grand Junction an ambitious project to provide a center for the uranium and oil industries is due to start in 1955. The \$7,225,000 energy center to cover 640 acres is planned for completion by 1960. The center will provide business, living, entertainment, shopping, and research space for these energy businesses. The exact site has not yet been announced by its promoters.

In progress at the present time at Grand Junction is a high school project at an estimated cost of over \$2,000,000. Near there, the Climax Uranium Co. is doubling their mill output with a million dollar arrangement with the AEC.

At Leadville, the mining industry is again causing a large construction boom. Increasing population and payrolls are resulting in new homes and downtown business buildings.

Pueblo is looking to a boom year in 1955, with \$20,000,000 worth of projects already certain. The city's voters approved a \$5,500,000 school bond issue. Some \$6,000,000 is already set for new subdivisions and two supermarkets. Corwin Hospital will get a \$7,000,000 addition. More than \$5,000,000 will be spent for extension of water systems, and three million-dollar private stores will be built.

With completion in 1954 of Flatiron No. 3 Power and Pumping Plant and a 13-mi. section of the Boulder Creek Supply Canal, virtually all major construction on the Colorado-Big Thompson Project is finished. The power plant houses two 31,500-kw. generators and one reversible pump-turbine unit of 8,500-kw. capacity.

Development of this transmountain diversion project, under way since 1938 at a cost of \$160,000,000, is essentially completed, to provide a supplemental water supply from the Colorado River on the western slope of the Rocky Mountains for 615,000 acres of irrigable land in north-eastern Colorado. Main feature of the project is the Alva B. Adams tunnel, which carries western slope water from Grand Lake 13 mi. through the Continental Divide to Estes Park.

Southern Colorado Power Co. completed 34 mi. of 115-kw., H-frame transmission line between Pueblo and Canon City in 1954. This includes switch structures at each end, and a 12,500-kva. transformer installation at the Canon City end.

Foundation work has been started on a 16,500-kva. generating unit at Canon City to be completed in 1955 at a cost of about \$3,000,000. Also planned for 1955 is a 65-mi., 115-kv., H-frame transmission line from Pueblo to La Junta with substations at each end. Cost here will be about \$2,000,000.

1954's BIG ONES IN COLORADO

Hoskinson Bros. Construction Co. of Denver, housing development on a 70-acre tract in Arvada—\$4,000,000.

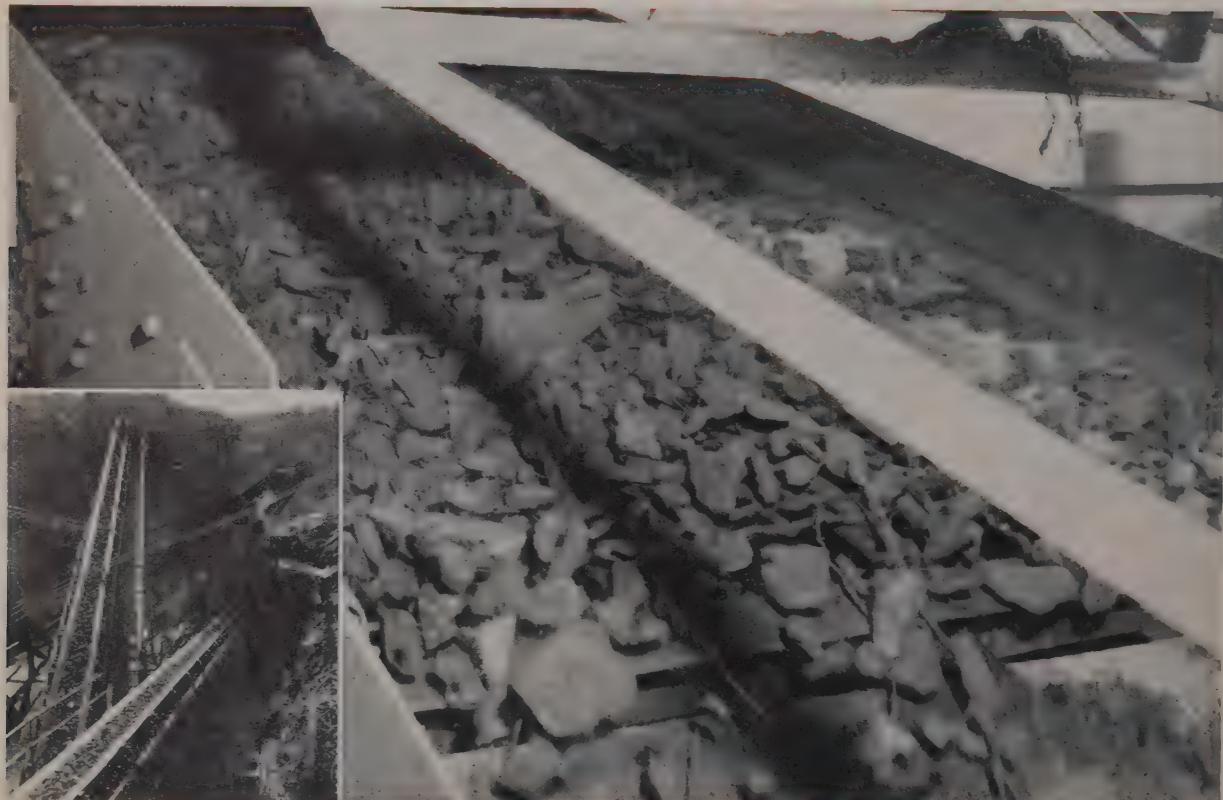
Mead & Mount Construction Co. of Denver, construction of a 6-story library and auditorium building in Denver—\$1,587,000.

Colorado Constructors, Inc., of Denver, construction of Twin Lakes Reservoir for the City of Boulder—\$773,861.

Domenic Leone Construction Co., Inc., of Trinidad, 4.1 mi. of grading and paving in El Paso County—\$519,075.

Gardner Construction Co. of Glenwood Springs, construction of a large fish hatchery building and related works at Rifle—\$925,313.

Chesapeake Bay Bridge Gets Concrete Pavement Made With New **LIGHTWEIGHT SOLITE**



Photographed on the job—Bremo Bluff, Va.

and 4 SECO SCREENS Help Make This Popular Product

This month your Seco on-the-job reporter salutes The Southern Lightweight Aggregate Corp. of Bremo Bluff, Va., makers of Solite. This wonderful new manufactured aggregate was chosen for the surfacing of the new Chesapeake Bay Bridge because it combines great strength with a great saving in weight. For this reason, also, Solite was used to resurface the roof of the Capitol in Washington, D. C.

We at Seco are proud that the makers of Solite have chosen four Seco vibrating screens to play an important part in the production of this excellent product.

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See manufacturer's listing page 45H, Yellow Section

WESTERN CONSTRUCTION — January 1955

IDAHO

Large scale hydro power projects in the wind along the Snake and Clearwater rivers, plus a record state highway program, will boost Idaho construction in 1955 and later. Highlights of 1954: completion of field work on WASHO test road; longest precast concrete bridge at Sandpoint; tremendous boost in Boise building activity. More irrigation and atomic energy jobs are possibilities.

CONTINUED CONTROVERSY over the power development program on the Snake River, a full season of work on Palisades Dam and the conclusion of the WASHO Test Road field work were highlights of 1954 engineering and construction activity in Idaho. Looking into 1955, the increase in the state highway program will represent construction activity at a rate higher than any previous year. Construction of Lucky Peak Dam on the Boise River was practically completed during the past year by the Corps of Engineers.

Among the construction "firsts" in Idaho during the past year was the use of cement-stabilized base for a section of road in Bannock County and the use of prestressed concrete in the construction of a school building in Boise. Evidence of industrial expansion in the state for 1955 comes from the announcement that a \$3,000,000 plant will be built in southeastern Idaho to manufacture fertilizer from the extensive phosphate beds in that area.

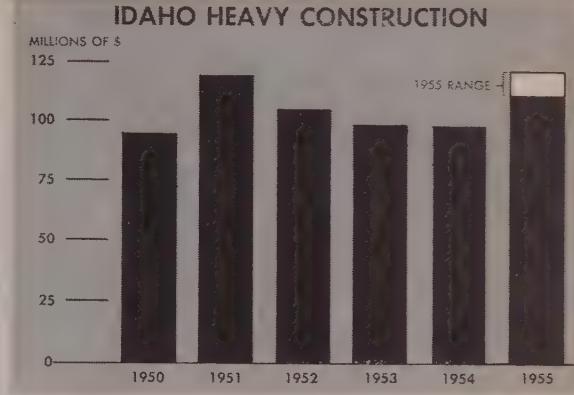
Hells Canyon Dam controversy on the Snake River—no solution yet

Tangible progress towards the development of hydroelectric power in the Hells Canyon section of the Snake River, where it forms the boundary between Idaho and Oregon, failed to develop during 1954 although the controversy between federal and private plans remained in the news most of the year. As the year closed, the possibility of private power development, as proposed by the Idaho Power Co. moved one tangible step further when the legal department of the Federal Power Commission, late in November, recommended in favor of this program. The power company would develop 3 damsites in the Hells Canyon sec-

tion of the river as compared to the single Hells Canyon Dam proposed and sponsored by the Bureau of Reclamation. Cost of the private company program has been estimated at nearly \$135,000,000 which compares to an overall cost of \$400,000,000 for the federal project. Public benefits resulting from the single or multi-stage development program remain matters of opinion and conflicting testimony. One advantage of the multi-unit program, according to its sponsors, would be the more rapid production of power which is badly needed in the Northwest.

In the meantime, the development of hydroelectric power along the Snake River received further impetus when the Pacific Northwest Power Co. of Portland filed an application with the Federal Power Commission for the development of the Mountain Sheep and Pleasant Valley sites that would provide 850,000 kw. of generating capacity. This power company includes the Montana Power Co., the Washington Water Power Co., Pacific Power & Light Co. and the Portland General Electric Co. These damsites have already been proposed for federal development by both the Bureau of Reclamation and the Corps of Engineers. The upper dam at Pleasant Valley would provide a reservoir which would extend upstream about 35 mi. to the proposed damsites in Hells Canyon.

The other outstanding proposal for large scale hydroelectric power in Idaho is the plan for building two dams on the Clearwater River in the northern part of the state. Again, a group of private power companies have organized to carry out preliminary studies that could ultimately represent a \$300,000,000 development program providing more than 500,000 kw. of installed capacity. These sites had previously been included in the overall Columbia River program by the Corps of Engineers. The develop-



ment of storage and power on the Clearwater River by this agency, at the same locations proposed by the private power group, would consist of a 570-ft. dam at Brunes Eddy with a 240,000-kw. power plant installation and a 590-ft. dam at Penny Cliffs where the power installation would have a capacity of 290,000 kw.

Biggest year in state road construction coming up—more federal aid

Highway construction during 1955 by the Idaho State Highway Department will exceed the volume in any previous year. On the state primary system 43 projects have been indicated for the coming season which will represent an estimated cost of slightly more than \$15,000,000. The overall state budget for 1955 will represent an expenditure reaching nearly 2/3 of the combined budgets for the three-year period starting June 1951 and ending July 1954. Selection of the projects to be undertaken, according to E. V. Miller, State Highway Engineer, has been based on reports from sufficiency rating studies followed by actual inspection of the proposed projects by the state highway engineer and the members of the Board of Highway Directors.

Work on the primary system will include improvement of 197-mi. of highway and 22 bridges, while the secondary system program will include projects totaling 146 mi. and 12 bridges. The projects include nearly every highway route within the state.

These proposed expenditures for the 1955 highway construction program in Idaho represent a total which actually exceeds the anticipated revenues. However, the Board points out that there are always delays in getting projects started which reduce planned expenditures for any one year. The size of the 1955 program was made possible because of the in-



COMPLETION of outlet and power tunnels, and stilling basin at Palisades Dam permitted first use of these facilities for river diversion during 1954. Functional completion is

expected late in 1956 with work now 65% complete. River flow is being discharged through outlet tunnel, left, and the power tunnel, right. (Bureau of Reclamation photo.)

crease in federal aid funds which will be available to Idaho during 1955. If the state is to match all available federal aid and highway money increased state revenues will be required.

During 1954 the field work was completed on the WASHO Test Road located near Malad in the southeastern part of Idaho. This comprehensive study of different thicknesses of bituminous surfacing supported on varying depths of base material was sponsored by the Western Association of State Highway Officials and other cooperating agencies. Starting late in 1953 and completed during 1954, the Highway Research Board, which has been in charge of the project, applied 238,000 heavy axle loads to each of the test pavements. Following the completion of the truck runs detail studies have been made of the surfacing and base courses down to the sub-soil. The final report, which is expected to provide valuable material on the design of bituminous pavements and their effect under heavy truck loadings will be published by the Highway Research Board during this year.

Precast concrete bridge at Sandpoint a Western engineering highlight

One of the largest building jobs in this state will be the \$4,000,000 project for housing at the Mountain Home Air Force Base.

Growth in the city of Soda Springs, which has resulted in a power demand four times the requirements of 1945, has resulted in decision to construct a new power plant on Soda Creek for a cost of \$125,000.

Construction of the 6,000-ft. trestle bridge project across Lake Oreille at Sandpoint moved fast during 1954. Engineering studies on the project were reviewed in detail in **Western Construction** June 1954 and construction operations on the trestle spans were described in detail in **Western Construction** December 1954. The contract amounts to \$1,135,000 for this important link on U. S. Highways 2, 10-A and 95.

Continued expansion coming for irrigation, municipal construction

A \$4,600,000 irrigation project at Michaud Flats has been recommended favorably by the Bureau of Reclamation. The plan would provide irrigation for 11,000 acres of land along the south side of the Snake River by means of diversion from the American Falls reservoir supplemented by pumping groundwater from 25 wells.

Expansion continues at the National Reactor Testing Station including a wide variety of work under contracts active during 1954 which included buildings and assembly and maintenance facilities in the initial engine test area.

This spring the Bureau of Reclamation announces that start will be made on the 71-mi. transmission line of 115-kv. capacity to extend from the Palisades Dam project to the Goshen substation of the Idaho Power Co. Work will continue on this largest earthfill dam to be built by the Bureau of Reclamation, which was about 65% completed by the end of last year. Work will continue during this year on the powerhouse for the

project and the relocation of roads around the damsite.

The level of municipal construction activity in Idaho was indicated by figures announced late last year in Boise. Comparison of November records for both 1953 and 1954 showed a sharp rise: 24 buildings under way valued at over \$577,000 in November 1954; 11 at \$68,000 in November 1953. For the entire year, through November, the figure in 1954 was \$5,307,000.

Lewiston put itself in position for a boost in school construction by approving a \$900,000 bond issue early in December. Site purchases have already begun, and advertisements on various jobs are coming this month and in March.

1954's BIG ONES IN IDAHO

Frank Baulne of Yardley, 6.7 mi. grading and surfacing in Idaho County—\$620,465.

Peter Kiewit Sons' Co. and LeBoeuf Dougherty of Longview, construction of 5,897-ft. concrete bridge and south approach on US 95 near Sandpoint—\$1,135,332.

Le Grand Johnson of Logan, 19.3 mi. of surfacing on US 20 and 20.5 mi. of surfacing on US 26 in Bingham and Butte counties—\$736,931.

Morrison-Knudsen Co., Inc., and J. A. Terteling & Sons, Inc., of Boise, apron extension at the Mountain Home Air Force Base—\$616,341.

Mountain Home Development Corp., construction of a 500-unit rental housing project for the Mountain Home Air Force Base—\$4,982,183.

MONTANA

Natural resources continue as prime mover of Montana construction: Tiber Dam for reclamation, Noxon Rapids for power. Corps of Engineers moves in to build new Air Force base at Glasgow. State highway construction goes up 30% this year. USBR to start new unit of Missouri Basin Project: tunnel and pumping plant come first. \$2,500,000 in bonds for building in Billings.

COMPLETION OF CANYON FERRY DAM by the Bureau of Reclamation was a major feature of construction activity in Montana for 1954, and work on a new Air Force base by the Corps of Engineers at Glasgow looms large in the work to be undertaken in the state this year. Highway construction during 1955 will total about \$16,000,000 which compares to \$12,500,000 for the past year. An important feature in the highway improvement program will be a contract for a 700-ft. bridge across the Missouri River to provide a much needed north-south route through the central part of the state where a distance of 250 mi. separates existing bridges at Fort Benton and Wolf Point. A natural gas pipeline is planned for 1955 to deliver service to Missoula by a line which would originate either at Butte or Anaconda, both now served with natural gas. Among the important industrial expansions is the Anaconda aluminum mill for wire and sheet to be built at Columbia Falls.

Storage and hydro-power development planned on a grand scale

Conservation of water from the rivers of Montana and the use of such storage for the generation of hydroelectric power continue to represent an important phase of future construction activity for the state. During last year preliminaries were advanced looking toward the construction of Libby Dam on the Kootenai River which has been held up by international complications. A new site was selected which should eliminate some of the difficulties regarding relocation of roads and railroads involved in the first application of April 1953 placed before the International Joint Commission. The proposed structure would be a concrete dam 410 ft. high and 2,700 ft. long at the

crest. The reservoir would extend north of the international boundary, a distance of about 40 mi. into Canada, which necessitates the international agreement. Storage capacity would be almost 6,000,000 acre feet and the project estimated to cost \$260,000,000 would develop 800,000 kw. of power.

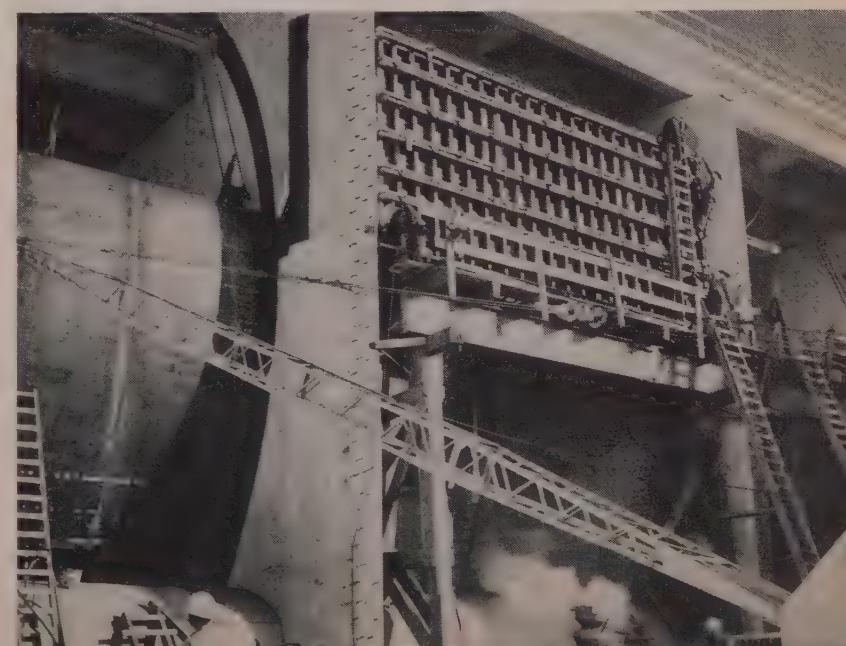
Of more immediate consideration is the permit secured by the Montana Power Co. for a proposed hydroelectric project at Buffalo Rapids on the Flathead River. Present plans provide for a concrete dam about 4 mi. downstream from an existing power development of the company near Polson.

Bureau of Reclamation activity in

Montana during 1954 centered in the operations at Canyon Ferry Dam and at Tiber Dam. The former was completed and its 50,000-kw. power plant installed. Construction operations on this 220-ft. concrete gravity dam have been described in **Western Construction**. The dam is located on the Missouri River near Helena, Montana. By the end of 1954 Tiber Dam, containing 5,375,000 cu. yd. of earth fill, had reached 70% completion. This structure, which is 205 ft. high and 4,300 ft. long is located on the Marias River about 15 mi. southwest of Chester.

The Bureau of Reclamation also announced that supplemental funds will make possible the start of con-

INSTALLATION of spillway gates, shown in this U.S.B.R. photo, typifies the on-schedule progress made in 1954 on the Missouri River Basin Project's Tiber Dam on the Marias River in Montana. The 205-ft. high earth-fill dam completion is planned for late 1955.





EXCELLENT WEATHER allowed final touches to be applied in late November to the 15½-mi. Belfry-Warren natural gas pipeline of the Montana Power Co. Rugged ground was a minor handicap.

struction on the Helena Valley unit of the Missouri River Basin Project and designs are under way for the pumping plant, regulating dam and canals required for this development. The unit will draw water from the reservoir provided by Canyon Ferry Dam and will supply irrigation to 13,000 acres with a supplemental supply to 4,600 additional acres. Construction work on the tunnel and pumping plant for this unit may be expected by this summer.

Farther in the future the multi-purpose \$100,000,000 Yellow Tail Dam on the Big Horn River was authorized during last year.

Another conservation site under consideration is at Noxon Rapids on the Clark Fork River in Sanders County. This damsite is under consideration by the Washington Water Power Co. where a \$100,000,000 program would make available about 350,000 kw. of hydroelectric power.

New routes—more money in the highway picture for this year

Following a big 1954 with construction work totaling more than \$12,000,000 the Montana State Highway Department plans to increase activity to a figure of nearly \$16,000,000 this season. Last year the program included \$6,660,000 of work on 298 mi. of the state primary system and \$5,855,000 worth extending over a total of 336 mi. on the secondary system. These figures represent actual construction costs and do not include rights-of-way or engineering work.

In connection with the highway bridge program a project of unusual importance to the state will be advanced during 1955. The Missouri River flowing east through the central part of the state has created a canyon more than 500 ft. deep through the plains area. At the present time, a bridge crosses this river at Fort Benton, and the next bridge to the east is at Wolf Point some 250 mi. away. Last year a construction contract of \$680,000 was awarded for grading and drainage structures on 3.9 mi. of highway location from the top of the canyon on the south side of the river down to the stream in Fergus County. This work included the excavation of 2,153,000 cu. yd. of material, indicating the character of the canyon. During 1955 a contract will be awarded for construction of a bridge across the river at this site. This will be followed by a 7-mi. access road from the canyon rim on the north side which will involve some of the heaviest grading work ever undertaken in the state.

Building construction was unusually active in Butte during 1954, the work including a \$4,000,000 community memorial hospital and a \$1,000,000 civic center structure which provides the city with modern auditorium facilities. Residential construction in Butte during the year totaled nearly 1,200 new homes representing about \$10,000,000 of construction.

The city of Billings, as a result of a \$2,500,000 bond issue, advanced construction on water supply improvements including storage facilities and

10 mi. of 24- and 36-in. mains. Another bond issue and an allotment of \$333,000 from CAA will provide for constructing an 8,600-ft. instrument landing runway at the Billings airport this year.

Corps of Engineers plans new Glasgow air base and more power for Fort Peck

Work by the Corps of Engineers on two Air Force bases will run high during 1955. At Great Falls, the improvement program was active during 1954 and will be carried forward this year. A total of \$12,500,000 is involved with \$7,000,000 available during the 1954-55 fiscal year. A complete new air base will be constructed at Glasgow under the supervision of the Walla Walla District, Corps of Engineers. First bids on this project are scheduled for April and the work will include extensive pavement, buildings and other utilities. Appropriations exceeding \$8,000,000 have been made for this base and the present program calls for the award of contracts as fast as plans can be prepared for bidding.

The most important non-military construction planned by the Corps of Engineers in Montana provides for the construction of the second power plant at Fort Peck Dam and reservoir. Active construction work must await the completion of design plans now under preparation by Erik Floor & Associates of Chicago. Design work was started last year and the estimated cost for construction of this power plant is \$20,000,000.

At Havre, Montana, the Corps of Engineers has under contract flood control operations totaling about \$2,000,000.

The Montana Power Co. during last year finished a 2-mi., 160,000-volt transmission line from its Anaconda substation in western Montana to Billings. The company also installed a third 56,000-kw. generator at the Kerr hydroelectric plant on the Flathead River.

1954's BIG ONES IN MONTANA

England & Roth Construction Co. of Rapid City, 3.9 mi. grading and drainage on the Grassrange-Malta highway in Fergus County—\$680,303.

Peter Kiewit Sons' Co. of Lewistown, 14.9 mi. grading on the Fairview-Girard road in Richland County—\$31,533.

Hagstrom Construction Co. of St. Paul, construction of a 76-bed hospital at Great Falls Air Force Base—\$1,430,930.

Riedesel Construction Co. of Billings, construction of the new Helena High School—\$1,473,930.

NEVADA

Las Vegas tapping Colorado River, and the work is worth \$6,000,000. Corps of Engineers program is going up 50% on military base projects. Nevada is short on highway engineers, but plans \$10,000,000 construction year. Hotels are no gamble: \$4,500,000 under way in Las Vegas, and Reno has \$6,000,000 coming up. Southern Nevada Power construction budget triples, to \$6,850,000.

A BIRD'S EYE view of construction in Nevada is well summed up by the secretary of the Associated General Contractors, Nevada Chapter. Says Edward L. Pine, "The area will continue a building program of approximately the same size as last year. There will be more highway work and some increase in commercial construction in the Reno area. New home construction will probably taper off some, especially in the Las Vegas area.

"The problems to be found will be extreme competition, with adverse profit margins"

"The most interesting jobs have probably been—

Highway: Morrison-Knudsen Co., Inc., job at Sparks, Nevada. Airport: Isbell Construction Co., Reno. Building: Riviera Hotel, Taylor Construction, Las Vegas. General: Ammunition Depot, near Nellis Air Base, Las Vegas; Twaits and Morrison-Knudsen."

The state of Nevada led the nation for the years between 1950 and 1953 for the greatest population increase. It gained 42,000 people in this period—an increase of 26%—to give it a total population of 199,000 by July 1953.

No project backlog, but highways being built at 200 mi. per yr.

To amplify these remarks, here are further details on general construction in Nevada.

For its size, and for its relatively small population, the Nevada Department of Highways has given a good account of itself during 1954. Twenty six contracts were completed that covered about 265 mi. at a total contract cost of \$7,845,000. Including five contracts now underway covering about 33 mi. (and at an estimated cost of \$2,166,000) the Department hopes to place under contract in 1955 a total of 210 mi. of roadwork. The

tentative cost is in the order of \$10,000,000 but is subject to change.

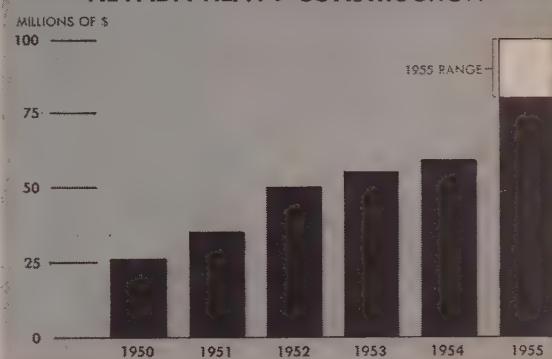
Should the proposed \$50 billion national highway program carry, Nevada would be faced with serious problems to keep up with it. The state is just barely able now to meet the matching amounts needed to carry on the 1954 federal appropriations. The Highway Department is also short of engineering personnel at the present time and has had little success in trying to increase it in the past year or two. This lack of personnel also results in the lack of a backlog of projects—planning is necessary and it can't be done without trained engineers. Such a backlog of projects can always be used to advantage.

The outstanding highway job during the past year has been the construction of 6.4 mi. of 4-lane divided highway on US 40 in the Truckee River Canyon east of Sparks. This job was awarded to Morrison-Knudsen Co., Inc. of Boise on Feb. 25 on the low bid of \$1,191,335. Work was started on March 16 and is now virtually completed with the exception of the heavy seal and screenings that will be placed next spring, the weather now being too cold for this work.

This work entailed some 900,000 cu. yd. of roadway excavation, largely rock and including two channel changes of the Truckee River. There were 152,000 tons of gravel base. The 2½-in. plant-mix surface on both of the 36-ft. roadways was done under difficult conditions. Heavy US 40 traffic had to be carried through the work for the entire length of the job and on portions—the Southern Pacific main line railroad was directly below the highway.

During the past season, one contractor may have set some kind of record. The Silver State Construction Co. of Fallon placed 200,000 tons of plant-mixed base and surface be-

NEVADA HEAVY CONSTRUCTION



tween the 28th day of May and the 5th day of October on five jobs totaling a distance of 68.7 mi. using just one 3,500-lb. batch plant. There were four plant moves averaging 48 mi. each included in the elapsed time.

The Highway Department has also outgrown its present headquarters building in Carson City. W. T. Holcomb recently told the state planning board that the department plans to spend \$2,250,000 for buildings. Of this amount, \$1,150,000 would be for another headquarters building in Carson and \$1,100,000 for a divisional headquarters and shop facilities in Reno.

The stepped up federal aid highway construction funds for Nevada beginning July 1, 1955 total \$8,696,000. It breaks down into \$4,066,000 for primary, \$2,718,000 for secondary, \$132,000 for urban, and \$1,780,000 for interstate highway construction.

Corps of Engineers ups spending, but emphasis is on military

The Los Angeles District of the Corps of Engineers reports that \$1,720,000, or 4.2% of the total military appropriation for that district was spent in Nevada in 1954. The budget will go up about 50% in 1955 with Nevada's share to go up also. Projected military construction placement for calendar years is as follows: Hubbard Field—1954, \$1,552,000; 1955, \$1,387,000. Stead Air Force Base—1954, \$352,000; 1955, \$974,000; remaining at end 1955, \$300,000. Air Force Communications Stations—1954, \$61,000; 1955, \$1,420,000; remaining at end 1955, \$900,000.

Civil works appropriations for fiscal 1955 beginning next July include \$40,000 in planning funds for the Mathews Canyon Reservoir.

Large contracts were awarded in the past year for construction at airfields. At Hubbard Field near Reno, Isbell Construction Co. of Reno re-



ANCHOR BARS UNDER TENSION were feature of preventive maintenance above Nevada valve house at Hoover Dam. Selby Drilling Co. secured a slab 19 ft. thick, 120x180 ft. in area, and grouted the bars in good measure.

ceived a \$1,313,182 award for construction of runways, aprons, and taxiways. Dinwiddie Construction Co. of San Francisco received a \$1,091,323 award for construction of a hangar and warehouse at the same field. Contract administration was handled by the Corps of Engineers on behalf of the Air National Guard. Major construction at Nellis Air Force Base near Las Vegas during 1954 included work by J. H. Pomeroy & Co. for construction of two maintenance hangars for \$1,132,000. Gibbons and Reed had a \$811,000 contract for extension of two runways.

Hotels for more travelers, schools for more residents

Largest building construction in the Reno area proposed for 1955 is for two resort hotels. One is a \$4,000,000, 300-bed hotel that would be built just west of Reno on US 40. Also proposed by the same developer, William Moore, is a motel to be built first. Another hotel, the Primm, is scheduled to cost about \$2,000,000.

On the school scene in Reno, a new intermediate school for \$500,000 will probably be constructed. The 1954-55 budget of the University of Nevada is under discussion and may exceed the 1953-54 amount of \$1,500,000. Two old campus structures may be remodeled for needed classroom space. General residential permits are running about the same as last year.

In Las Vegas, a 250-room hotel scheduled to cost almost \$3,500,000 exclusive of furnishings is going up outside the city limits. Building permits for the first eight months of 1954 exceeded \$21,000,000—an amount that exceeded 1953 by \$5,000,000. T. G. K. Construction Co., Inc., of Phoenix put in a bid of \$2,227,700 for construction of a high school.

A multi-million dollar housing project near Sparks is definitely the

largest residential subdivision in the state. Developers are George A. Probasco, Inc. About 220 homes of the proposed 755 have been constructed with another 66 to be completed by early February, this year. Another project in this area was the \$500,000 Sparks sewage plant and sewer lines, for which G. E. Schilling of Reno was the contractor.

The mining industry will probably be a growing factor in Nevada's construction dollar. A recent report by the U.S. Bureau of Mines reported that production in 1953 was up 12% over 1952. The production totals included such items as over \$2 million for sand and gravel, and a little under \$100,000 for pumice.

Titanium, one of the "wonder metals," will again be developed near Boulder City. The amount of money and personnel have not yet been announced by Interior Department officials, but new ways are being sought in refining titanium production techniques.

Power capacity and water supply are catching up in Las Vegas

Power development in the Las Vegas area is being undertaken by the Southern Nevada Power Co. The current program includes the installation of a 44,000-kw. steam plant. The plant being built by Stearns-Roger Co. of Denver is of the semi-outdoor design and is expected to cost about \$6,570,000. This includes site improvement, substation, and connection of the plant to the power system. Construction is underway now and will be on the line by December 1955.

Reid Gardner, president of the company, states further that the construction budget for calendar 1954 is \$2,029,100 and for 1955 will be about \$6,871,000.

Las Vegas Valley Water District

will have underway shortly after the first of the year about \$3,632,000 as part of the plan to bring Lake Mead water into the valley. Already awarded are contracts in the amount of \$2,454,000 covering the main pipe lines to carry the Lake Mead water, a 30 million-gal. reservoir, a portion of the North Las Vegas feeder line, and equipment for the pumping stations.

Included in the bids to be received in late 1954 were construction of the Whitney pumping station and facilities at the connection to the B. M. I. line near Manganese Summit, estimated at \$224,000, construction of secondary feeder lines at \$484,000, and pipe for the feeder lines at \$470,000.

At the 11th annual conference of the Colorado River Water Users Assn. at Las Vegas in December 1954, several newsworthy developments were touched on. A report on the effects of sedimentation at Hoover Dam shows that since its construction, the dam has settled 0.4 ft. This settling has reflected a loss of 50,000 ac. ft. of water storage capacity. In upper regions of the lake, where the canyons are narrow sediment is 300 ft. deep. The silt tends to compact because of weight, so that the ability of the reservoir to handle waters is much greater than was expected.

Col. Arthur H. Frye, Jr., Los Angeles District Engineer for the Corps of Engineers reported that additional planning money had been received for the Mathews Canyon flood control reservoir on a tributary of Meadow Valley Wash.

Nevada's growth is based on three resources: tourists, minerals, and land. The first is established, the second is growing, and the third will be developed as the Western region itself gains in value to the nation.

1954's BIG ONES IN NEVADA

Silver State Construction Co., Inc., of Fallon, 10 mi. grading and surfacing in Churchill County—\$720,250.

Dinwiddie Construction Co. of San Francisco, construction of a hangar and warehouse at Hubbard Field near Reno—\$1,091,323.

Isbell Construction Co. of Reno, construction of runways, aprons, and taxiways at Hubbard Field near Reno—\$1,313,182.

T. G. K. Construction Co., Inc., of Phoenix, construction of a high school at Las Vegas—\$2,227,700.

Morrison-Knudsen Co., Inc., of Boise, 6.4 mi. grading and paving on US 40 located 3 mi. east of Sparks—\$1,191,335.

NEW MEXICO

New Mexico's builders will be busier in 1955. Population growth rate sixth highest in the nation provides the impetus, coupled with uranium boom, continued atomic age installations and their spawning of nearby small industry, and overall the necessity to conserve and control limited water supply. Approval of mammoth flood control jobs could mushroom volume. Highway work will be up.

CONSTRUCTION ACTIVITY in New Mexico is riding the crest of a population increase of more than 10% since 1950, sixth highest rate of growth in the nation.

For the cities—accelerated program of subdivisions and utilities

Private money has taken the lead in construction development to serve New Mexico's swelling population. Albuquerque, the state's largest and hub city, typifies the development rate and pattern. Albuquerque's nearly \$37,000,000 worth of permits for private construction in 1954 is easily the largest in its history (1953's figure was about \$35,000,000.)

Mass subdivisions to house Albuquerque's new citizens filled out the record figure. Witness, for example, Princess Jeanne Park, a \$15,000,000 subdivision in east Albuquerque, whose construction started this fall. When finished, the new living area will contain 1,600 homes, 4 shopping centers, and recreational and school facilities. Practically next door, Horizon Homes is embarking on the \$6,000,000 construction of 1,000 homes. And Albuquerque's largest home-building project is well along now—Edward Snow's \$10,000,000 project for 1,150 homes, parks, churches and schools on a 320-acre tract, started in late 1953.

To serve new homes and numerous small industry, Albuquerque is already well along on bond issue-financed construction of waterworks improvements and sanitary sewer expansion and improvements. Contracts awarded for waterworks construction between November 1954 and June 1955 will total more than \$4,000,000. Largest projects in this program are: the 4-mg. West Mesa Reservoir and the 6-mg. Burton Reservoir, \$490,000 (bid opening date January 15); the West Mesa pump station, \$300,000 (Feb. 1); major

trunk water lines, \$500,000 (May 6 and 13), and secondary trunk lines, \$400,000 (bids opened December 31).

Major sewer construction in Albuquerque includes the \$790,000 Edith Blvd. trunk sewer and the \$350,000 West Mesa relief trunk sewer, with construction already started on both projects following Nov. 16 and Oct. 26 bid openings.

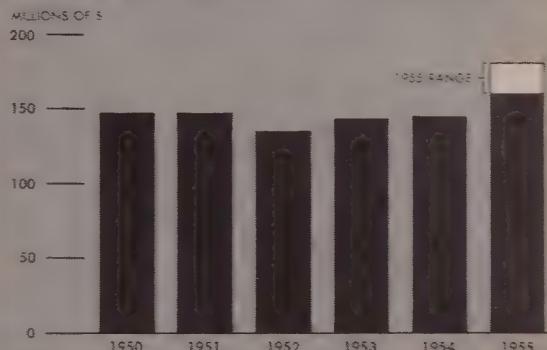
An example of construction resulting from population pressure in a smaller city is provided at Carlsbad in the Pecos River country of southeast New Mexico. D. D. Bivins, City Engineer, estimates 1954 construction in the city at about \$1,500,000, including \$750,000 for city schools, \$170,000 for a 5-mg. reservoir, new water lines, a library, etc. Carlsbad's 1955 construction will probably total about \$1,750,000, primarily for a new city hospital, additions to the St. Francis Hospital, street paving and sewer lines.

School, hospital and other major public construction in New Mexico will continue apace during 1955. For university construction, administrators are asking for about double the funds consumed for new construction during 1954—about \$6,000,000. In July of 1954, the new \$3,500,000 County-Indian Hospital in Albuquerque was nearing completion, and the first phase of a \$10,000,000 improvement program at the New Mexico State Hospital at Las Vegas was well along. A new \$7,000,000 state penitentiary at Santa Fe is under contract and will be completed so prisoners can move in late in 1955. Robert E. McKee has the contract for this one.

Water conservation plans by the Bureau of Reclamation continue

In New Mexico, as in other Southwest and Mountain states, water conservancy is crucial to the state's con-

NEW MEXICO HEAVY CONSTRUCTION



tinued development. Plans for future projects at the moment add up to a far larger dollar volume of construction than projects now active or definitely authorized.

The Bureau of Reclamation will complete about one third of its projected \$22,000,000 flood control work in the Middle Rio Grande Valley by July 1955. On this project, work continued during 1954 on the rehabilitation of drains, with an additional 44 mi. going under contract in August. More drain rehabilitation is scheduled for summer of 1955. Also in 1954, the Bureau had work in progress on the Vermejo Project, including rehabilitation of the Vermejo diversion dam and Vermejo and Eagle tail canals, as well as on laterals and drains. Three low earthfill dams on the Vermejo Project, involving 1,281,000 cu. yd. of earthwork, were completed in 1954.

Planned flood control projects by Corps of Engineers largest yet

On the planning boards of the Corps of Engineers are two major flood control projects in New Mexico, with construction dependent upon appropriations. They are a \$10,000,000 project for the Sandia Conservancy District at Albuquerque, and the \$4,800,000 Rio Hondo Basin Project near Roswell. The former project would involve construction of two large drainage ditches to divert flood waters away from lowland areas and dump them into the Rio Grande. Some \$7,000,000 to \$15,000,000 in addition would have to be expended by the Sandia District if the project were carried out, to build other ditches and storm sewers for delivery of flood waters to the main ditches.

The Rio Hondo Basin Project, authorized but not yet financed, would consist primarily of two earth dams, totaling about 10,000 ft. in length and



BOOMING ALBUQUERQUE turned to bond issue to finance much needed expansion of waterworks and sewage facilities. Clarifier pictured is a 1954 improvement to the city's sewage treatment plant, built by C. H. Leavell & Co.

100 ft. in height across the Hondo River and Rocky Arroyo near Roswell. An alternative proposal is for a 4-mi. diversion levee to back up the two streams into one reservoir. The big flood in the fall of 1954 and resultant losses in the area have given considerable impetus to plans for one or the other of the two plans.

A \$4,300,000 flood control project along the Pecos River at Carlsbad is also being planned. An emergency \$1,700,000 project for emergency channelization of Rio Grande water out of San Marcial Lake near Albuquerque was completed in mid-1954. Work is currently under way, by List & Clark, on a \$320,000 contract for placing jetties and dirt embankments along an 8-mi. stretch of the Rio Grande to protect flooding of downtown Albuquerque.

Paving—hangar construction at air bases hit \$28,000,000 in 1954

Military construction by the Corps of Engineers at five Air Force bases in New Mexico totaled \$28,000,000 during 1954, and will probably continue at a slightly slower pace during 1955, although no definite project activity of this nature for 1955 will be announced until Congress arranges budgets early this year. Greatest activity among air bases in the state during 1954 was at Kirtland AFB, Albuquerque, with a total expenditure of more than \$8,000,000. Hangar construction consumed about half of this total, and airfield paving about one third. Other major AFB construction included: \$2,100,000 for paving at Clovis AFB; \$2,000,000 for paving at Holloman AFB, Alamogordo; \$3,300,000 for runways at

Walker AFB, Roswell, and nearly \$3,000,000 for technical building construction at White Sands Proving Ground.

Progressive highway department has big plans for this year

Highways in New Mexico, as in other Western states, will be an increasingly important factor in the state's construction economy during 1955. During 1954, the New Mexico State Highway Department let to contract projects worth \$21,230,000, this figure including contract prices, engineering costs, state-furnished materials, etc. In 1955, the Department will have approximately \$23,000,000 for construction work alone!

A major project completed in 1955 was the \$4,300,000 construction of a divided four-lane highway between Santa Fe and Algodones and two separated two-lane highways between Algodones and Albuquerque.

Among the largest individual awards during 1954 for highway work in New Mexico were these: Brown Contracting Co., \$608,390 for 9 mi. of the Albuquerque-Algodones road; Henry Thygesen & Co., \$598,740 for surfacing on U.S. 84 in Rio Arriba County; Brown Construction Co., \$695,300 for paving on S. R. 422 in Sandoval County; Daniels Construction Co., \$683,290 for paving U.S. 550 in San Juan County; and Skousen-Hise Contracting Co., \$1,042,660 for surfacing on US 66 in Valencia County.

National forest and national park highway construction in New Mexico, by Division 9 of the Bureau of Public Roads, totaled \$1,280,000 during 1954, and projects worth \$1,360,-

000 will be let to contract during 1955.

Major power projects under way in New Mexico during 1954 included: an \$8,500,000 plant at Algodones, completed by Plains Electric Generation Cooperative in early September; and additional units of the Person Station, main power plant of the Public Service Company in Albuquerque.

On the industrial building front in New Mexico, two firms are planning construction of a \$15,000,000 mine and refinery to produce potash near Carlsbad, and Western-Knapp Engineering Division of Western Machinery Co. is working on a \$2,000,000 contract to design, build and equip a plant to treat uranium-bearing ore at Shiprock.

Pipelines continue to loom large in New Mexico's construction business. In September 1954 Malco Refineries announced construction of a \$1,750,000 products pipeline from Artesia to El Paso would start this coming April. And Standard Oil Company's \$4,000,000 pipeline from El Paso to Albuquerque was about half finished in early December of 1954. Construction start is expected early this year on the proposed \$160,000,000 pipeline to stretch from the San Juan Basin in New Mexico to the Peace River country in British Columbia. Including 1,466 mi. of main pipeline, it is a Pacific Northwest Pipeline Corp. project. El Paso Natural Gas Co. is planning construction of 74 mi. of natural gas pipeline in Texas, New Mexico and Arizona at a cost of \$13,800,000.

Everyone in New Mexico knows that the state needs more highways, airports, dams, schools, churches, etc. All that's needed are the funds to pay the way. In early December, seventeen of the state's cities agreed unanimously to seek state approval of increased property tax, city tax and city income tax. This, and other income increasing measures, are first on the agenda of the 1955 New Mexico legislature.

1954's BIG ONES IN NEW MEXICO

Brown Contracting Co. of Albuquerque, 9.2 mi. grading and surfacing alternate US 85 on the Albuquerque-Algodones road—\$608,389.

Austin Contracting Co. and Worth Construction Co., construction of aprons, runways, and taxiways at Clovis Air Force Base—\$1,982,609.

Robert E. McKee, General Contractor, Inc., of Albuquerque, construction of a new state penitentiary at Santa Fe—\$3,369,000.

Skousen-Hise Contracting Co. of Albuquerque, 5.1 mi. grading and surfacing on US 66 in Valencia County—\$1,042,659.

OREGON

Highway needs and highway department capacity are high. Gas tax boost planned to take up slack at end of bond program. Growth of commerce and industry in Portland booms building construction. Electric utilities chafe to start 2,000,000 kw. in hydro projects. The Dalles Dam: \$10,000,000 in awards this year for final phase prime contracts will mean \$100,000,000 of contracts.

THE COMBINATION of an industrial and commercial boom and continuing smooth administration of the state highway program keynotes the immediate future of heavy and engineering construction in the state of Oregon.

Although a big state bond program for highway construction is just now being completed, the highway department is rolling along with increased expenditures in view for 1955. Item: Construction contracted for in 1954 amounted to \$33,000,000, while \$34,000,000 was paid to contractors for work performed. This year it is estimated that awards will total a lower figure, \$22,000,000. But at the same time \$37,000,000 will be paid out under the going program.

The industrial expansion is concentrated in the principal city of Portland. With a population nearing the 1,000,000 mark and a strategic position in regard to shipping, railroads, and highways, Portland boasts an imposing but diversified volume of construction.

Item: Of the larger industrial projects under way or completed in 1954, here are a few. Aluminum Co. of America has a new extrusion plant valued at \$5,465,000. Warehouse and grain storage for the Commission of Public Docks has a tag of \$2,380,000. Crown-Zellerbach Corp. has a \$1,000,000 research laboratory. Portland General Electric Co. has spent \$1,100,000 on a new service center. Expansion by St. Helens Pulp & Paper Co. runs \$14,000,000.

The future looks even better. Look over these round figures: \$20,000,000 for the Lloyd shopping center, \$10,000,000 for a Meier & Frank Co. shopping center, \$13,500,000 for a 1,000-room hotel, \$8,000,000 for an exposition and recreation center, \$12,000,000 for a new Morrison Street bridge.

A closer look is warranted at the two foregoing major categories of

work in Oregon—and at a considerable number of other public and private sponsors of important construction activity in the state. First, the highway department.

Highways: all funds working, good backlog, more gas tax planned

Assurance of a continued high level of roadbuilding is provided in the form of expanded federal aid. For each of the next 2 years, Oregon stands to receive \$12,857,000 for highway purposes. And there is a tradition that these funds will not lie unused in a bank. In recent years Oregon has led the nation in the percentage of federal funds obligated to work on specific projects.

Another indicator of a good level of work in Oregon is contained in a confident, if not outright casual, comment on the boost in highway work proposed by President Eisen-

hower. Says Oregon. ". . . The proposed \$50,000,000,000 national highway program presents no insurmountable problems for the state highway department organization, since the department has been built up to handle a heavy state bond program which is just being completed. We have a backlog of approximately \$100,000,000 of work in the planning or design stages."

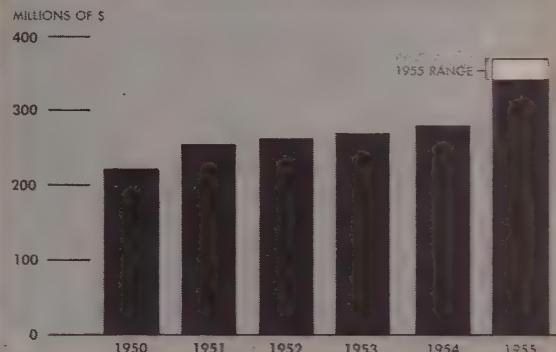
Still another factor to consider for the future of Oregon State Highway activity is the proposal coming before the State Legislature this year to boost the gasoline tax from 6¢ to 8¢. In sponsoring this legislation, the Highway Commission notes the near completion of the \$72,000,000 bond program, also that additional expenditures of \$15,000,000 annually are needed to keep up with demands on and for the highway system.

State highway activity is not the whole story on Oregon's roads, although it of course represents the

BIGGEST JOB on the Columbia River right now is at The Dalles. Here is \$27,200,000 in work being done by Atkinson-Ostrander: spillway section in foreground, navigation lock in background. And the same pair holds \$18,900,000 in powerhouse work.



OREGON HEAVY CONSTRUCTION





TRUCK BED beats scaffold for bolting culvert plate. Installation is typical of Umatilla County work aimed at replacing old wood structures.

most spectacular scale of activity, with such items as a \$700,000 traffic interchange on Harbor Drive in Portland, the almost 100% overhauling of the U.S. 99 alignment through the state, the \$13,000,000 project for rehabilitating the Columbia River bridge between Portland and Vancouver and adding a new bridge alongside, and the Portland-Salem expressway which now has an additional 24-mi. section under construction. Early work on this latter job consists of a pair of grading contracts—\$735,000 to R. A. Heintz Construction Co., and \$1,007,000 to Roy L. Houck & Son. Coming for award prior to the middle of this year are 4 twin over-crossing structures, a single overcrossing, 13 undercrossings separating the expressway from local roads and tracks, and a 4-structure interchange with U.S. 99E north of Salem. Combined with surfacing and paving, these 26 structures bring the project cost to something over \$6,500,000.

County roads improved with progressive engineering

The counties of Oregon are not lagging in their attention to highway needs. In some places money is the big thing, and in other places it's methods.

For instance, Multnomah County has a 5-year program of road improvements that totals \$3,500,000. And this is for 6 major projects.

Typical of the trend in better evaluation of county road requirements is that of Umatilla County. A road survey was completed in September 1954 in this county. The survey is generally similar to that reviewed in *Western Construction* in November 1954 for Douglas County, Washington. The Umatilla plan further covers bridge replacement, bridge installation, equipment re-

placement, maintenance station improvement, rock quarry acquisition, and financing. Results of the analysis would indicate that almost doubling the present budget would be required.

New bridges in Umatilla County will be all metal with asphaltic concrete decks. A total of 400 will be required, at an estimated cost of \$150 per lineal foot. Parts of the new program have already been adopted and the rest may soon be. The present county road budget is \$570,000.

The program of Columbia River ferryboat replacement continues. Last year a new bridge was completed across the river at The Dalles. Currently under construction upstream is a steel span at Umatilla, being built by Pendleton County, Oregon. The 3,400-ft. bridge will return its investment in tolls. In its design a double cantilever with two 600-ft. center spans and girder type approaches, the job has been engineered by Tudor Engineering Co., and is under construction by American Bridge.

Aside from its function of administering federal aid funds in the Northwest states, Division 8 of the Bureau of Public Roads has a heavy program of federal road construction in prospect. For the Forest Service awards are coming up in the first half of this year for 56 mi. of roads and bridges estimated to cost \$3,070,000. Another 41 mi. of construction for the Bureau of Land Management has a price tag of \$1,340,000.

Portland: people bring business; business brings building

A closer look at various plans for public and private building construction in the state of Oregon reveals the impetus of population growth on this Western state. Major industrial construction under way during 1954,

including the whoppers cited at the start of this article, totals \$33,755,000. And this included only 34 separate jobs, with the smallest valued at \$100,000.

Major public and commercial building projects in 1954 amounted to over \$50,000,000. It is significant that this figure includes \$22,000,000 for school construction through high school level, as well as \$8,200,000 for the University of Oregon Dental School and Teaching Hospital.

Lumped together, industrial and commercial building activity and school construction under way in Portland in 1954 totaled close to \$100,000,000. A similar figure can be assigned to new 1955 work (and much of the 1954 construction is of course still under way) with no trouble at all. In fact, only 11 separate jobs are needed to arrive at a figure of \$89,500,000. The biggest chunk of this is represented by the Lloyd shopping center to occupy 40 acres in northeast Portland, at \$20,000,000. Other examples, including both public and privately sponsored work, include the \$12,000,000 new Morrison Street Bridge authorized in an election last May and a \$10,000,000 shopping center planned by Meier & Frank Co. for a 58-acre site in northeast Portland.

What's behind all this industrial and commercial expansion shows up in population statistics—and in the closely allied figure for residential building permits. Portland shows a current rate of population increase of about 2% in the city itself and 4% in its suburban area. Both these figures are annual rates. Residential building permits for the first three quarters of 1954 totaled nearly \$15,800,000.

Building permits are a useful index to construction activity elsewhere in Oregon also. For instance, Klamath Falls shows a volume of nearly \$924,000 in the first three quarters of 1954, as against \$840,000 for the entire previous year. Figures such as these go a long way to show that despite early doubts, 1954 was a good year and 1955 promises even more.

Utility and government partners lay plans for Oregon hydro dams

For *Western Construction* readers the value of this expansion lies in the resulting demand on heavy construction services for such things as power, highways, water supply, and sewerage. Insofar as power and water supply—and flood control—are concerned, a look to the immediate future reveals that Oregon, like Washington and Idaho, is entering another era of utility dam construction.

In the southern part of the state, California-Oregon Power Co. has announced plans for \$10,000,000 of construction activity during this year. About half of this is for additions to their hydro system, in particular the Lemolo plants No. 1 and



SPECIFY

Yellow Strand...®

Above: An artist's conception of Folsom Dam
(1) The concrete main structure. (2) Million-
acre feet reservoir. (3) Power house and tail
race. (4-5) Folsom prison. (6) Auxiliary rock
fill (7) Earth fill



As equipment removes 40-60 feet of sand and
gravel to get to bed rock, the main trestle is
readied for the push across the canyon.



Five months later, the dam rises on canyon floor.
Gantries and trestle speed handling of concrete.
Abnormal floods caused a delay in the work.

WITH 25,000 cu. yds. of concrete going into the main structure each week, Folsom Dam is speeding toward completion. In spite of floods and other natural delays, contractors Merritt-Chapman & Scott and Savin Corporation have kept work on schedule.

The huge dam, built to provide flood control, irrigation and power on the American River near Sacramento, is a \$29.4 million project of the Corps of Engineers. The structure will contain 1,200,000 cu. yds. of concrete and will stretch out for a quarter of a mile with flanks protected by another 1 1/4 miles of rock and earth fill. More than 9,000,000 cu. yds. of earth and rock will have been excavated and 800,000 cu. yds. of selected fill will have been put into place when the dam is completed.

Work started in 1951 and contract completion date is in 1956. To date, well over half the project is finished and present work is moving at a fast clip under direction of D. E. "Dave" Stinson, Project Manager, and L. G. Sumner, Project Engineer.

*And to keep machines working under this stepped-up
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Yellow Strand Wire Rope is made of steel drawn to precise specifications to give it strength for a longer, trouble-free work life. It's flexible to take the blows of impact and the wear of fast-running sheaves. Contractors know from experience that Yellow Strand on their machines is one way of assuring against downtime due to wire rope fatigue. They know that ropes they need will be in stock at nearby Broderick & Bascom distributors.

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See manufacturer's listing page 10H, Yellow Section

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Onan "CW" Electric Plants are unusually compact, quiet-running and economical to operate; weigh only half as much as water-cooled plants of the same capacity. Powered by Onan two-cylinder, suction-air-cooled gasoline engines built with massive, long-wearing parts for continuous, heavy-duty service.

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You can equip "CW" Electric Plants for any type of portable service with a wide range of accessories including skid, battery rack, 9-gallon fuel tank, weather-proof housing, two-wheel trailer, or 4-wheel, rubber-tired dolly. Put one of these portable, high-capacity units on your job now!

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See manufacturer's listing page 38H, Yellow Section

No. 2 in Douglas County. These two plants are additions to the existing Toketee project on the North Umpqua River and are estimated to represent an eventual cost of close to \$20,000,000. Lemolo No. 1 includes a diversion dam 910 ft. long and 120 ft. high, and a 29,000-kw. powerhouse. Lemolo No. 2, downstream, will include a low diversion dam and a powerhouse having 33,000-kw. capacity.

Activity by the city of Eugene, through its Water & Electric Board, is directed at two projects proposed for the McKenzie River. The Beaver Marsh project has an estimated cost of \$7,000,000. Its progress to date is marked by two developments: First, application to the Federal Power Commission for a license to construct, and second, retention of the consulting firm of Cornell, Howland, Hayes & Merryfield to do the engineering. Located at the head waters of the river, the project will involve two small dams.

Cougar Dam is a more ambitious undertaking, and one which finds the Eugene Water & Electric Board seeking a partnership arrangement with the federal government for construction and operation of the project. Early in 1954 it was proposed that Eugene build the power features at a cost of about \$10,000,000, and in addition contribute \$1,500,000 toward other costs of the project. Such an arrangement would make possible a more efficient power design for the project—45 ft. more height for the dam and 10,000 kw. additional power potential.

In furtherance of this general plan, the city of Eugene applied to the Federal Power Commission for a permit to study the project. Also, planning funds of the Corps of Engineers have been made available to the work. As presently contemplated, the dam will be a rockfill embankment 1,630 ft. long and as much as 445 ft. high. The Corps of Engineers estimates that construction will take 5 years.

John Day Dam would complete hydro "stairs" from Bonneville to McNary

Another major step in the Columbia River development is the proposed John Day Dam. And this \$325,000,000 job has been the subject of an unprecedented proposal on the part of northwestern utility firms. In an effort to speed up plans for the project, Washington Water Power Co., Pacific Power & Light Co., and Portland General Electric Co. have offered to put up \$350,000, the loan presumably to be repaid in the form of power output from the completed project. Other proposals in connection with this project include a tenta-

tive offer by the utilities to pay, in advance, about half the cost of construction—some \$164,000,000. In addition to cost, two other figures give an idea of the size contemplated for this dam, to be located between the existing McNary and The Dalles projects. The structure would be about 225 ft. high and would include power generating capacity of 1,100,000 kw.

The same three utilities named above in connection with John Day Dam have formally joined with a fourth, Montana Power Co., to form Pacific Northwest Power Corp. And this super-utility has filed with the FPC for permits on several other projects, of which Pleasant Valley Dam in Oregon is one. The Pleasant Valley site is on the Snake River; it is, in fact, one of the possible alternatives to the bitterly contested Hells Canyon Dam — particularly when considered in conjunction with the proposed Mountain Sheep damsite, on the same river but in Idaho.

As described late last year by Pacific Northwest Power Corp., Pleasant Valley Dam would be 492 ft. high, of concrete arch design, and would impound a reservoir 34 mi. long. The power potential of this site is estimated to be 600,000 kw.

Portland General Electric Co. is busy on its own. Its major present construction is restricted to Timothy Meadows Dam, a \$2,200,000 project on which Morrison-Knudsen holds the general contract. The work got under way last summer, and the earthfill structure is expected to be finished by the end of this season. Timothy Meadows Dam is to be 100 ft. high and 725 ft. long. Its power facilities total 10,500 kw.

Plans of a much bigger nature by Portland General Electric remain in the air. The company has long wanted to build a \$22,000,000 hydro project on the Deschutes River in Oregon, and a Federal Power Commission license was granted for the purpose. However, the project has been contested in Oregon by fish and game interests. The latter have won out so far, but the issue is on appeal before the Supreme Court.

The Dalles—still the biggest current project on the Columbia River

Swinging now to what has traditionally been the "big time" of Oregon dam construction, here is a look at what is planned for 1955 by the Corps of Engineers.

Newly available fiscal funds for civil works construction by the Corps of Engineers, Oregon, come to nearly \$40,000,000. This figure neglects expenditures for McNary Lock and Dam, which have arbitrarily been designed to the state of Wash-



"Baby Digger" truck loads in close quarters, has big capacity, digs up to 20" wide, 5' deep

This East Ohio Gas Company job, the replacement of a main extension, shows why the Cleveland Model 92 "Baby Digger" is so widely used for city digging. The "92" puts the edge of a trench within 17 inches of a parallel wall, loads excess spoil directly into trucks at the curb, and affords the operator full visibility of the whole job.

Its exclusive Cleveland multispeed transmission provides over 30 evenly graduated digging wheel and crawler speed combinations, from 6 inches to 30 feet per minute. Its lower wheel speeds enable it to pick its way safely through the numerous underground obstructions typical of city digging. The three lower of its four wheel speeds provide the correct power applications for digging in even the toughest soils. And its highest speed combinations, of course, assure high

daily footage on jobs where high production rates can be used to advantage. It has ample capacity for trench from 10 to 20 inches wide, down to 5 feet deep.

Compactness, maneuverability, speed combinations, capacity—if most of your trenching jobs are city jobs, the "92" is the trencher for you!



And does it get around! The "92" hustles safely from job to job . . . at legal limit speeds . . . because it's so easily portable on the drop-axle, tilted Cleveland T5 Trailer.

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CLEVELAND

See manufacturer's listing page 15H, Yellow Section

ington for the purpose of this review.

But such assignment leaves a very considerable item of work to the state of Oregon, in the form of The Dalles Dam on the Columbia, where \$36,000,000 has been provided this year. This is fiscal year money voted by the last Congressional sessions and is only a partial index to the level of activity for 1955. Even with The Dalles as the biggest single project in the state, current appropriations do not fairly reflect the work load. Total expenditures planned for

1955 by the Portland District come to more than \$79,700,000. This compares to a figure last year of barely \$64,000,000.

At The Dalles the biggest year yet is in prospect. Of seven major contracts involved in the construction of this project, six have been let—including one that is now complete. One more is scheduled for award this year. Here's how they stack up.

S. A. Healy Co. had a \$4,900,000 contract for preliminary powerhouse excavation and cofferdam construction. That work is now complete.

Guy F. Atkinson Co. and Ostrander Construction Co. have three con-

tracts in force at the present time. One of these, running about \$14,500,000, comprises the spillway section of the dam and its tainter gates and excavation of tailrace and approach channels. This work is more than 40% complete.

The same combination also holds the \$18,900,000 Phase 3 contract, calling for final excavation and substructure for eight bays of the powerhouse. Included in this work also is the east fish ladder. Progress about 10%.

A more recent award, also going to Atkinson and Ostrander, is a \$12,700,000 contract for the navigation lock on the Washington side of the river, the north fish ladder, and a non-overflow concrete dam section connecting this work to the spillway section also under contract. Work just starting.

The final contract in force at the present time amounts to about \$30,000,000. Held by The Dalles Powerhouse Constructors, it comprehends final excavation and substructure construction for 14 bays of the powerhouse and appurtenant works.

Late in 1954 bids were taken for Phase 2, comprising the entire powerhouse superstructure, the middle fishway, and a final concrete non-overflow dam section. Estimated at \$13,523,800 by the Corps, the work was bid in December at \$12,661,200 by C. J. Montag & Sons, Carl M. Halverson, Cascade Contractors and Austin Construction Co.

In the conservative official language of the Corps, "over \$10,000,000" is the estimate for the rock-fill closure dam adjacent to the Oregon shore and removal of cofferdams. The work is coming this year; also \$10,000,000 or more for operating and generating machinery.

As an indicator of long range prospects for contract work under the Corps of Engineers in Oregon, it is interesting to compare past and current estimates of total cost of The Dalles Dam. Originally pegged at more than \$340,000,000, this project has been subjected to design economies and its contracts have attracted such favorable bidding that the official estimate now is down to \$303,000,000.

Corps of Engineers activity continues on the Willamette River Basin

The other major new construction activity of Corps of Engineers in Oregon is a series of projects in the Willamette River Basin, representing a total cost of \$422,000,000. Past fiscal years have seen a total of \$178,000,000 allocated to this work; for the current year an additional \$3,700,000 is available. The biggest chunk of this goes to Lookout Point Dam, where powerhouse equipment installation is under way.

Of some \$300,000 in planning money available to the Corps of En-

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THROUGHOUT LENGTH OF BAR ...**

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PD 3

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See manufacturer's listing page 46H, Yellow Section

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Servicised Waterstop is flexible and elastic, with a very high tensile strength — easy to install and once in place withstands contraction, expansion and shearing movement to insure a positive permanent water-tight seal against hydrostatic water pressure.

Two types — Flat Dumbbell and Hollow Bulb. Both types meet all standard engineering specifications. Waterstop also available in fabricated ell's and tee's.



Flat Dumbbell Type



Hollow Bulb Type

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Servicised Split Type Waterstop spread open and nailed to inside of bulkhead. This eliminates slatting — saves time and labor.



Saves time, labor — eliminates split bulkheading. One half of waterstop width is split to permit fastening to bulkhead to form a "T" (see illustration). After pour, bulkhead is stripped, and divided section joined by stapling or with rubber cement. Also lower cost field splicing using Servicised Union.

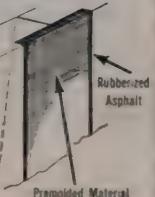
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gineers in Oregon, over half (\$150,000) has been allocated to preliminary work in connection with Cougar Dam. This project already has been mentioned as a possible "partnership" project in conjunction with the Water & Electric Board of Eugene. Work by the Corps of Engineers to date includes a topographic survey of the damsite and a cost allocation report contributing to the determination of partnership feasibility.

Tualatin Dam remains up in the air, with no expenditures presently planned or authorized. This \$11,000,000 project, located southwest of Portland, near Gaston, has been submitted in report form to the Chief of Engineers, with no further executive or congressional action having yet been taken.

Other Corps of Engineers funds currently being applied to civil works projects include \$600,000 for repairs to a jetty at Yaquina Bay, and \$125,000 in planning funds (including foundation investigation and design studies) for the Hills Creek damsite.

No Army or Air Force construction is currently being handled by the Portland District, and none is in prospect. However, elsewhere in Oregon there are several projects under the jurisdiction of the Walla Walla District of the Corps. Though unspecified in nature, this work is expected to total about \$600,000 in contract awards in 1955, against the comparable figure of \$700,000 last year.

Railroads have their share of the construction picture

Not a functional part of The Dalles Dam project, but necessarily to be considered with it in a review of expenditures are contracts for the relocation of railroads in the reservoir area. A bid opening this month covers grading and construction of 14 mi. of track on the Washington shore. The job will cost more than \$5,000,000.

There is other railroad construction contemplated in the state also. Southern Pacific Co. has awarded its own contract for construction of a bridge substructure across the Clackamas River 14 mi. south of Portland. To be completed this year, the structure itself will consist of five plate girder spans, each 110 ft. long.

A feature of railroad operating improvements in many states during recent years is the installation of centralized traffic control systems. About 95 mi. of Southern Pacific line between Eugene and Crescent Lake is being brought into this form of remote control train dispatching. The job began in 1953 and will wind up this year with a final expenditure of about \$400,000.

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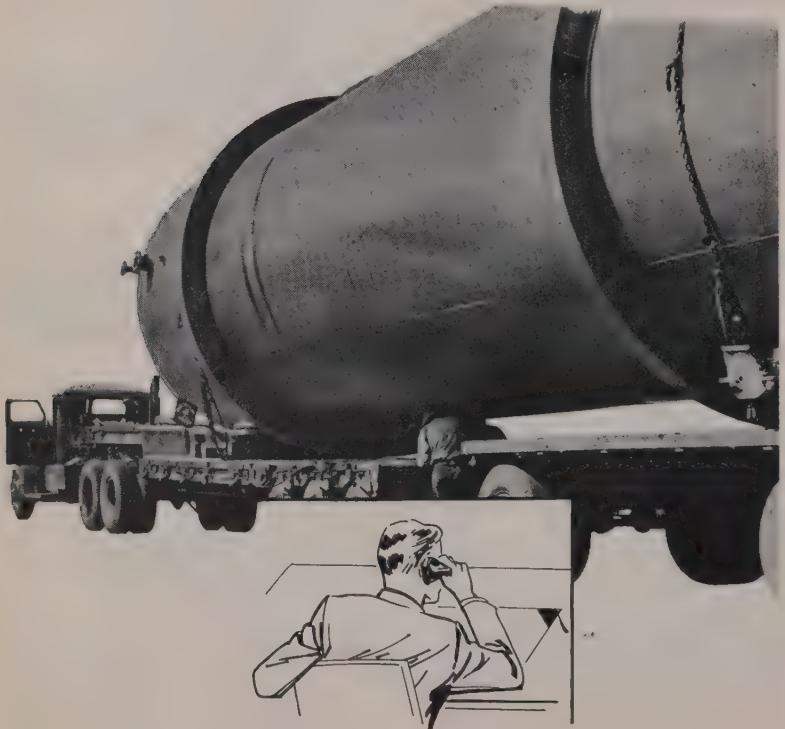
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See manufacturer's listing page 50H, Yellow Section

Western states and represented in Oregon is the Bureau of Reclamation. However, Oregon has not for some years been a highly active reclamation state, and only a modest level of work is being maintained. Last year saw the completion of a difficult job of rehabilitation at Savage Rapids Dam on the Rogue River. This work was reviewed in *Western Construction* in August 1954.

The principal current work pertains to construction of Crescent Lake Dam, for which bid invitations were issued late in 1954. The work includes removal of the existing timber-crib dam and construction of a small new earthfill dam, together with outlet works and open-cut spillway.

Looking to the future, the Bureau has submitted its plan for a proposed \$19,000,000 development on Jenny Creek near Ashland, Ore. The principal structure is Talent Dam, contemplated to include power generating capacity of 10,000 kw. A report on this project has been completed by the Bureau and is now in the process of review by interested state and federal agencies prior to submission to the Budget Bureau and Congress.

The foregoing review of the immediate past and the immediate future in Oregon heavily emphasizes the role played by highway agencies, the Corps of Engineers, private utilities, and private industry. All these groups are sponsors of heavy construction activity and, in the light of plans summarized above, the construction outlook for Oregon for 1955 is exceptionally good.

1954's BIG ONES IN OREGON

D & H Construction Co. and M. H. Hasler Construction Co. of Sacramento, 6.7 mi grading on the Pacific Highway about 7 mi. south of Roseburg—\$1,359,784.

L. H. Hoffman of Portland, construction of a high school at Portland—\$3,210,000.

Guy F. Atkinson Co. and Ostrander Construction Co. of South San Francisco, construction of navigation lock, north non-overflow dam, and north fishladder at The Dalles Dam—\$12,708,180.

Montgomery - Macri and Western Line Construction Co. of Portland construction of 66 mi. of the Chief Joseph-Snohomish 345-kv. transmission line—\$1,788,727.

American Pipe & Construction Co. of Portland, construction of eight steel tanks at Terminal 4 in Portland—\$1,276,525.

Eaton 2-speed Axles have



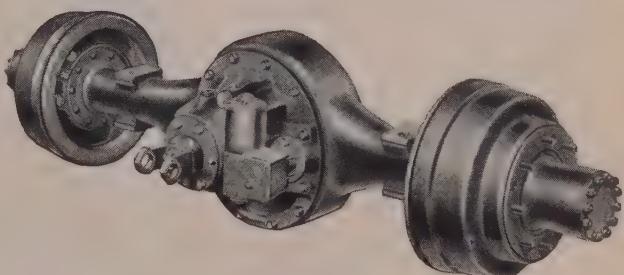
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See manufacturer's listing page 21H, Yellow Section

UTAH

Heavy industry expansion marked by new Geneva plant for Consolidated Western Steel. New facilities total \$10,000,000 for Union Pacific and Southern Pacific at Ogden "gateway." Weber Basin construction by USBR in 1954 features three new starts totaling \$8,200,000. Salt Lake County building valuation up 26% over 1953, entire state up 27%.

PERHAPS the biggest construction undertaken in Utah in 1954 has been the various phases of the Weber Basin Project under the jurisdiction of the Bureau of Reclamation. This development of the Weber River basin's unused water is intended to supply irrigation, municipal, and industrial needs for residents on the eastern shore of Great Salt Lake between Salt Lake City and Ogden. Overall cost will be about \$70,000,000. Highlight of this work was completion of the 3-mi. long Gateway Tunnel. Work on the tunnel was done by Utah Construction Co. who set a new record for progress for the tunnel section involved—they advanced 78 ft. in 24 hr. Average daily progress of the crews was more than 60 ft.

Reclamation is big spender in water resources development

Three other large contracts were awarded in 1954 on this development. The earthfill Wanship Dam went to Utah Construction Co. at \$2,423,046. This dam will be 156 ft. high, 2,000 ft. long, and requires 3,021,000 cu. yd. of fill. Construction started in July.

The Davis Aqueduct, an 18-mi. long pipeline, was awarded to the United Concrete Pipe Corp. of Baldwin Park, California, for the sum of \$3,896,146. Work was started on this project in August.

Morrison-Knudsen Co., Inc., of Boise submitted a bid of \$1,948,812 for the 7.5-mi. section of the Gateway Canal. Construction was started here in September.

Other project structures scheduled to be placed under contract late in 1954 included a 40-ft. high, 500-ft. long, earthfill dam to form a small equalizing reservoir, and 4 mi. of pipelines for the Weber Aqueduct. Scheduled for start of construction by early spring are 4 additional miles of the Davis Aqueduct, and the raising of the existing Pineview Dam, an

earth embankment, and modifying the spillway and outlet structures.

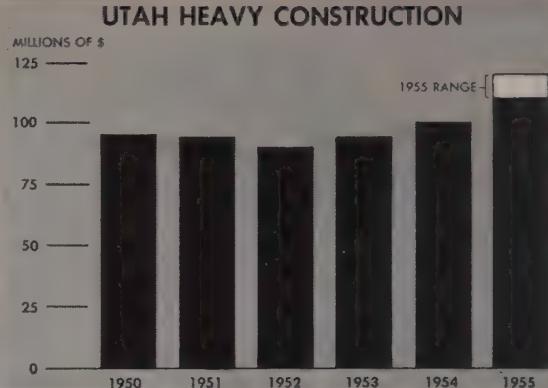
A possible new source of construction dollars for contractors in Utah may well be work on small flood control projects that will be sponsored by communities. A "pilot" plan was passed by the 83rd Congress (\$5,000,000) under which the Soil Conservation Service, the Forest Service, and the communities cooperate in the rehabilitation. About 60 such projects were undertaken in the U. S. A. including the Mount Pleasant and Santaquin watersheds of Utah.

In the Santaquin area, about 300 denuded acres were terraced under the supervision of the Forest Service. Gullies were plugged with rock and brush check dams. Interested parties included Utah Power & Light Co., Utah County, Genola, Santaquin, Summit Creek Irrigation Co., and Santaquin Livestock Assn. Total cost of the project was about \$131,000 with about half being paid by local residents in cash or materials.

Congress appropriated \$3,000,000 to initiate planning work on the projects for fiscal 1955 beginning next July. About 25 Utah communities are expected to apply for funds and technical assistance. Projects are initiated locally, are approved at the state level, and are eventually passed to Congress which has responsibility for providing the federal share of costs. Projects may be straight flood prevention, including structures and land treatment, or an agricultural conservation plan for development, utilization and disposal of water.

Grease for the hub of Western railroad transportation

In the railroad scene, the Union Pacific and Southern Pacific completed a new \$4,000,000 speedway yard at Ogden last September. Construction of the East or Riverdale Yard for the Ogden Union Railway &



Depot Co. (jointly owned by the two railroads) provided 22 mi. of new trackage to increase the depot company's total trackage to 124 mi. The additions and modern betterments make the Ogden freight yard the second largest Class A switching terminal west of Chicago and Kansas City.

At the end of 1954, work on the \$5,600,000 main diesel repair shop for the Union Pacific Railroad was about 90% complete. The main shop is a reinforced concrete building 410 x 162 ft. It has two wings 220 x 102 ft. and the other 303x80 ft.

Small planning but big construction by Corps of Engineers

The Corps of Engineers has a large dollar volume of military construction work slated for Utah for the coming years—particularly at Hill Air Force Base just South of Ogden. An estimated \$130,000 was spent here in calendar 1954 with \$4,399,000 scheduled for 1955. In 1956 another \$8,799,000 will be available from 1955 carryover funds. Plans include construction of a new runway system capable of accommodating jet-type aircraft and a 560,000-sq. ft. warehouse to cost \$3,350,000.

Other military construction placement figures for the Corps include the following: Dugway Proving Ground—1954, \$1,217,000; 1955, \$2,989,000; Tooele Ordnance Depot—1954, \$160,000; 1955, \$903,000. For Corps of Engineers civil works projects, Congress has provided \$16,000 for planning work on the Spanish Fork River.

Plenty of work to do, but money is the big highway problem

The highway improvement picture in Utah is similar to that of other neighboring states. It has a large area to cover and a relatively small population to help in the financing of the

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needed work. The estimated needed improvements on the total state highway system of 5,450 mi. at the end of 1953 was \$280,000,000—a truly staggering sum. The estimated expenditures for road construction in 1954 will be about \$11,000,000 compared with \$12,000,000 the Highway Commission spent in 1953—the greatest amount in its history.

Reasons behind the large backlog of improvements are easily accounted for. Many of the 2-lane highways are carrying traffic volumes far in excess of practical capacity and should be replaced with 4-lane highways. About 15 cities qualify as urban areas with needed improvements to expressway standards. High construction costs result from much of Utah's terrain being so mountainous. Another hidden cost in the widening of 2-lane highways to a multiple lane status is that of right-of-way expense. It is eating into the construction dollar more and more.

The financing necessary to build more roads may be handled in several ways. One method for main arteries would be toll roads, but traffic volume cannot be considered sufficient yet to justify this action. Increased taxation rates is another way for a pay-as-you-go program and the issuance of bonds is a way to pay for it from future revenue. The proposed \$50 billion national highway program has still to be settled as to how much matching funds the states would be required to furnish. With Utah having trouble now matching existing federal aid amounts, the future remains clouded.

Aside from the state road construction, Division 9 of the Bureau of

Public Roads had a sizeable program. Under contract in 1954 were about 100 mi. of National Forest and National Park highways at a cost of \$3,326,000. The program for 1955 is smaller with only 4 mi. to be constructed at a cost of \$270,000.

Some of the major highway contracts awarded in 1954 include a \$683,743 award to W. W. Clyde & Co. of Springville for 6.3 mi. of roadmix surfacing in Juab and Utah counties; \$365,071 award to Gibbons & Reed of Salt Lake City for 1.7 mi. of asphalt concrete surfacing in Salt Lake County; a \$536,577 award to Thorn Construction Co., Inc., of Springville for 17.1 mi. of plant-mix surfacing on US 160 in San Juan County; Ragnar Benson, Inc., of Moab, a \$499,130 award for a Colorado River bridge in Grand County; Olof Nelson of Logan, a \$156,280 award for 4.6 mi. of plant-mix surfacing in Cache County; Reed Trucking & Construction Co. of Salt Lake City, a \$232,565 award for 4.1 mi. of road-mix surfacing in Sevier County; Floyd S. Whiting of Murray, a \$733,518 award for 5.9 mi. of plant-mix surfacing on the Echo-Emory road in Summit County.

New industry brings new homes: 3,000 coming in one development

A look at the Salt Lake area shows a major building boom is underway. Salt Lake City's enviable position as "The Crossroads of the West" is an incentive for businesses to establish there. And where business goes is to be found the contractor's dollar.

Edward J. Peters, manager of the Salt Lake City Chamber of Commerce lists these important projects that were under way or completed in 1954. All are projects costing more than \$1,000,000.

First Security Bank of Utah in the process of being completed—\$1,500,000.

New Z.C.M.I. department store parking ramp and garage completed November 1954—\$1,000,000.

New shopping center developed in Sugar House area of Salt Lake City—\$1,500,000.

Completion of Sure Seal Wax Corp. plant—\$2,500,000.

Completion of new Kennecott Copper Research Center at the University of Utah—\$1,000,000.

Completion of new General Motors diesel plant in Woods Cross—\$1,500,000.

Planned construction for Salt Lake City Chemical plant—\$8,000,000.

Construction begun on Consolidated Steel's anhydrous ammonia plant at Geneva—\$18,000,000. Blaw-Knox reported that it was nearing completion on the engineering design of the plant.

Planned construction of a new Beneficial Life Insurance Co. office building at Salt Lake City—\$1,000,000.

Expansion has been started by Salt Lake Refining Co.—\$2,500,000.

In the housing field, there has been a sharp increase in new residential construction in this area. Of particular note is the Kearns development southwest of the city. The Hoffman Home Co. plans to build 3,000 new homes in this area within the next 5 yr. Several planned shopping centers will be in the program of building as well as recreation area. Rose Park area in the northwest section of the city is also growing rapidly. About 300 new homes have been built by one contractor, Alan Brockbank Co., in the last three months.

Utilities and schools picked up by homebuilding snowball

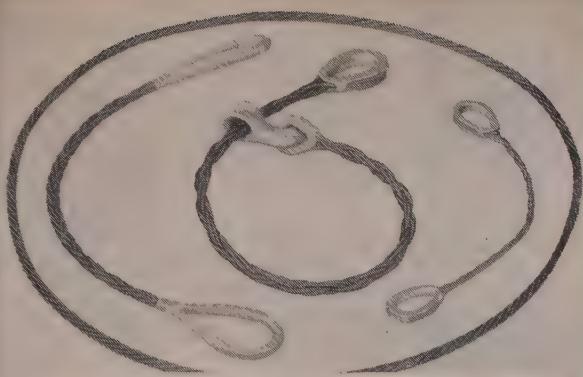
The value of building permits in the first nine months in 1954 in Utah at \$65,000,000 was 27% above that of 1953. Construction in certain areas has assumed an all time record. This applies especially to the Salt Lake City area which is well on its way to surpassing that of 1953 and 1950. Residential construction permits for January through September in major areas in Utah total 4,289 units, the highest for any corresponding period in history.

In the opinion of Peters this residential housing boom will continue well into 1955 because of the demand and because of easier financing policies. Employment from new industries will naturally have a definite effect on new home projects. From all indications at the present time the employment in this area will be steady and probably increase a little in the coming year.

For all-over construction in Salt Lake City, 1954's volume has well

SECOND LARGEST in the West is this freight terminal at Ogden, jointly owned by SP and UP. Additions worth \$4,000,000 were completed late last year.





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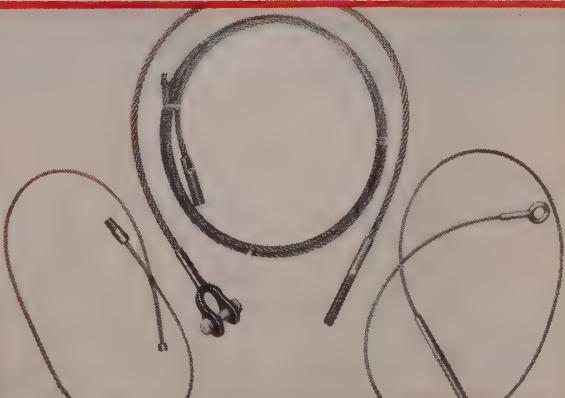
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UTAH continued

surpassed 1953 and 1955 could well be equal to or greater than 1954. Estimated revenue for Salt Lake City in 1955 will total \$9,774,400, not including a 4-mill levy for water and sewage projects. This can be compared with the 1954 estimated revenue of \$10,651,853 which does include the 4-mill levy.

The big \$9,000,000 sewer project undertaken during 1954 by the Salt Lake City Suburban Sewer District was nearly three months ahead of schedule by the end of the year. There are five general contractors involved in the laying of nearly 120 mi. of main line sewer and an equal amount of service lines. Sewer mains are one-fifth completed and the trunk lines one-half completed. Caldwell, Richards and Sorenson are consulting engineers on the project.

Some of the general contractors doing work on the project are Hilton & Carr, Kloepfer Construction Co., Schmidt Construction Co., and Statewide Plumbing & Heating. More than 200 workers are employed and 23 trenching machines are involved in the laying of the 8- to 42-in. main sewers.

In the water supply field, the facilities of the Salt Lake County Water Conservancy District will be more than doubled in 1955 with the addition of \$1,200,000 in lines and reservoirs to the system. The district started operations about one year ago and has now completed about \$1,000,000 in lines stretching some 52 mi.

School construction by the Salt Lake City Board of Education is continuing under a 4-yr. plan which will affect 34 schools at a cost of \$10,000,000. Patrons of the Granite School District will go to the polls on Jan. 25 to vote on a \$4 million bond issue to finance needed additional buildings. Under the program five new schools will be built.

Provo proves the pattern, with industry leading development parade

Construction in the Provo area during 1954 reached the large sum of over \$16,000,000. Construction by the City Engineering Department under Earl Conder amounted to about \$1,300,000 including a \$1,000,000 sewage plant that will be completed this year. Also completed during 1954 were a \$200,000 sewer outfall and \$80,000 in street improvements. Planned expenditures for 1955 will be about \$1,400,000.

The Provo Chamber of Commerce headed by Clayton Jenkins has good reason to be optimistic. Building projects undertaken in 1954 and nearing completion or scheduled for completion in 1955 include three new buildings for the Mountain State Telephone & Telegraph Co. at a cost of \$3 million; the \$1,150,000 Utah

#27

AMERICAN TRACTOR EQUIPMENT CORPORATION

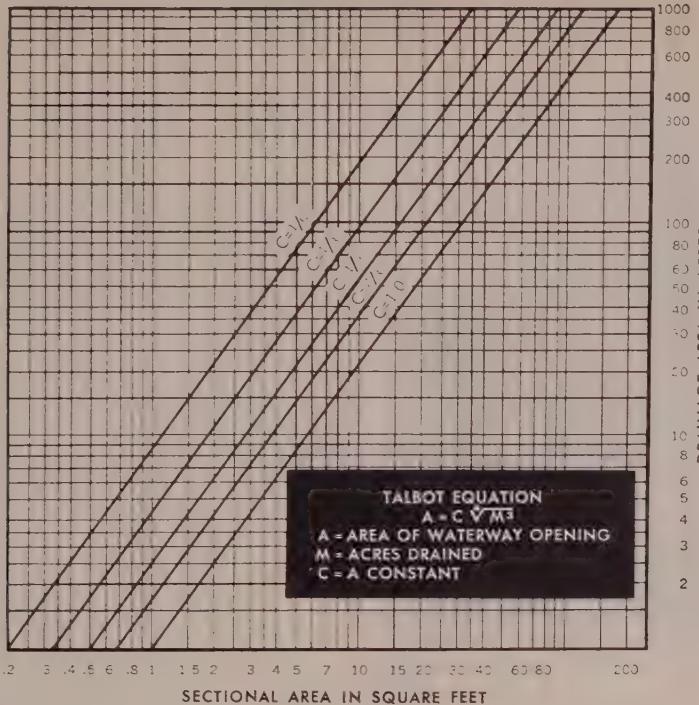
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See manufacturer's listing page 5H, Yellow Section



DIAMETER OF CULVERT IN INCHES	AREA OF WATERWAY OPENING IN SQ. FEET
8	0.349
10	0.544
12	0.785
15	1.227
18	1.767
21	2.405
24	3.142
30	4.909
36	7.068
42	9.621
48	12.566
54	16.000
60	19.635
66	23.760
72	28.274
78	33.183
84	38.484
90	44.178
96	50.265

How to determine culvert sizes

In the graph above, the factor C depends upon the contour of the land drained, and the following values are recommended for various conditions of topography. C=1 for steep and rocky mounds with abrupt slopes. C=1/2 for rough hilly country with moderate slopes. C=1/3 for uneven valley, very wide as compared to length. C=1/5 for rolling agricultural country where the length of the valley is three or four times the width. C=1/5 for level districts not affected by accumulated snow or severe floods. Decrease C for milder conditions; but increase C for steep side slopes or where the upper part of the valley has a much greater fall than the channel of the culvert.

Here's an example: Suppose you are required to find the cross-section area of a culvert suitable for draining 80 acres of level country. Assuming 1/5 as the value of C, locate the intersection of the 80-acre line with the first curve: then trace directly down to the base line. The point lies at 5.3 square feet. From the table at right above, you find the nearest point corresponding to 5.3, in this case, 4.909. So the proper size of culvert to use is the 30-inch stock size.

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See manufacturer's listing page 16H, Yellow Section

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See manufacturer's listing page 21H, Yellow Section

UTAH continued

State Hospital Medical & Surgical Building; Brigham Young University McKay 3-story building at \$1 million.

School building accounts for a sizeable amount of the construction dollar. Seven elementary schools in the area scheduled for completion in 1954 accounted for \$1,981,000. The Provo High School, to cost \$1,750,000 was started in October 1954 and is scheduled for completion in August 1955.

Additional new construction in the Provo area includes a new steel pipe plant being built immediately north of the Geneva Steel plant by Consolidated Western Steel Division. It is described as a multi-million dollar project. The plant site occupies 117 acres of which 5 acres will be under roof. Products will be small-diameter resistant-weld line and water pipe in sizes from 1 to 12 in., also large diameter pipe in sizes from 20 to 36 in. The plant should be completed and in operation by May 1955.

Additional buildings scheduled for Brigham Young University campus include a botanical laboratory and health center and a new \$2,500,000 men's dormitory. The health center and the laboratory will cost \$400,000.

Residential additions for 1955 in the Provo area are estimated to run between \$2,000,000 and \$3,000,000.

On the novelty side, work was underway on the US Air Force installation atop the Pioneer mesa near Virgin, Washington County. A \$126,000 contract was awarded to construct a 3½-mi. road to the top of the 1,500-ft. area. Work will be rushed to allow construction of the \$2 million rocket sled test track. The sleds will shoot out over a 1,500-ft. drop and provide a realistic test of pilot seat ejection models.

1954's BIG ONES IN UTAH

Plewe Construction Co. of Salt Lake City, construction of a high school in Provo—\$3,877,500.

Young & Smith Construction Co. of Salt Lake City, 7.9 mi. of grading at Emory Castle Rock—\$642,336.

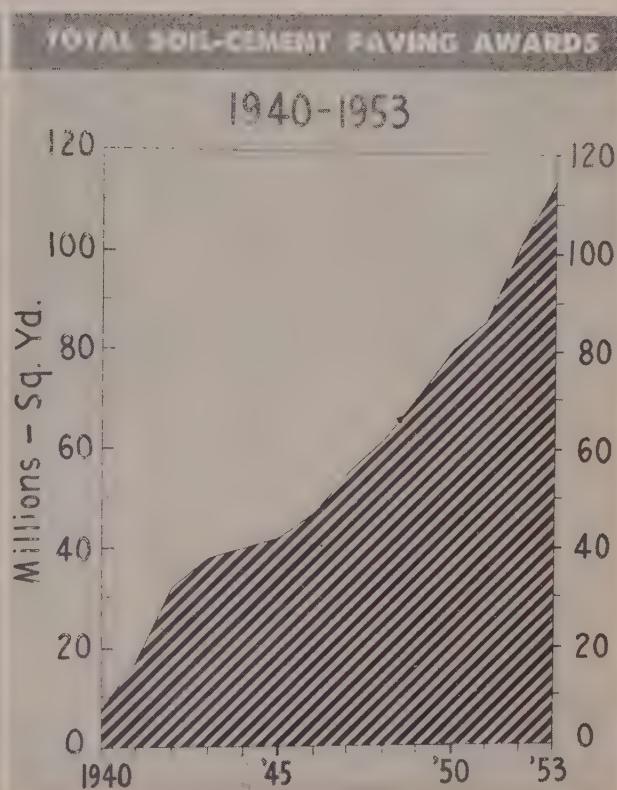
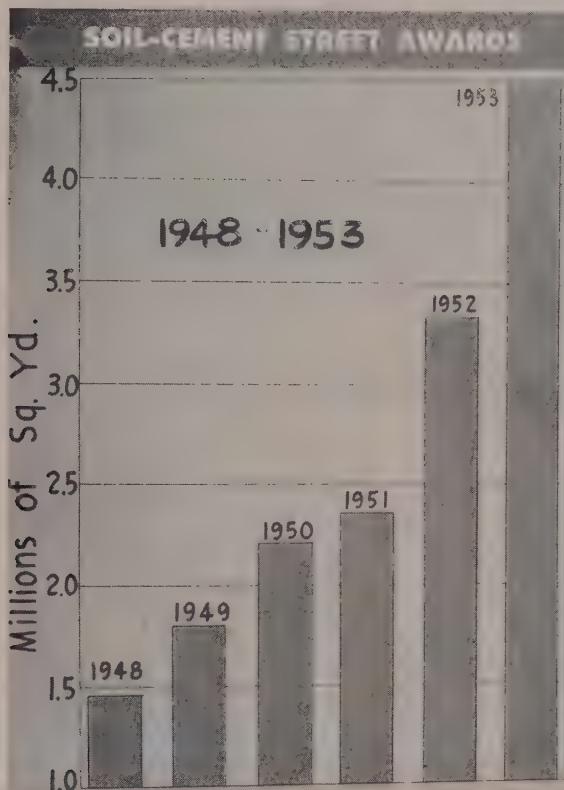
Morrison - Knudsen Co., Inc., of Boise, earthwork, concrete lining, and structures on Gateway Canal of the Weber Basin Project—\$1,948,812.

United Concrete Pipe Corp. of Baldwin Park, 17.8 mi. of concrete pipe installation on the Weber Basin Project—\$3,896,146.

Utah Construction Co. of Salt Lake City, construction of Wanship Dam as the third phase of the Weber Basin development—\$2,423,046.

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WASHINGTON

\$15,000,000 Gorge high dam leads parade of power projects to construction stage this year. Present demand for kilowatts assures other work to follow. Bond issue highway work will be supplanted by toll road building. Major cities move ahead on public works construction by bond funds. Reclamation completions bring more water, more people to Columbia Basin.

WASHINGTON IS THE DAM STATE for 1955. This is evident from the brief summary of activity set forth in the general introduction to this state-by-state Construction Outlook for the new year. Washington is the state where two separate multi-utility combines are planning big hydro projects. And Washington is the state where individual public and private utilities also have plenty of their own projects.

First to reach the contract stage for 1955 is the new Gorge Dam on the Skagit River. Merritt-Chapman & Scott Corp. and the Savin Construction Corp. were awarded a \$14,735,107 contract early in December. The work includes an arch-gravity section 150 ft. high and 670 ft. long, 4.5 mi. of access highway to this and other Skagit Project structures, and bridges. Unique in cofferdam construction will be the specified use of freezing to hold loose riverbed material. Continued pumping of percolating waters otherwise might lead to piping of fines and danger to the existing low-head diversion dam 500 ft. upstream.

Mayfield Dam on the Cowlitz River is expected to come to the bidding stage very shortly. This is one of two dams planned by Tacoma City Light. Mayfield itself will be a concrete arch dam with gravity wings and thrust blocks. It will be 185 ft. high and 850 ft. long, with a spillway section 205 ft. wide. Its powerhouse will be a concrete substructure and steel superstructure initially housing three generators rated at 40,000 kw. each.

Permits and licenses by FPC will prove the "partnership" plan

Other major dams are presently in the FPC permit or license-application stage. Permits cover the Priest Rapids project on the Columbia, the Boundary site on the Pend Oreille, the Wells site on the Columbia, the

Engletrout site on the Baker, Grant County P.U.D. has retained an engineer to perform power studies on Priest Rapids (1,590,000 kw.), and foundation exploration has been done also. Seattle City Light is studying Boundary (570,000 kw.) with a 300-ft. dam contemplated. Douglas County P.U.D. has the 588,000-kw. Wells site, and seismic exploration is under way. Engletrout is a Puget Sound Power & Light Co. project planned for 60,000 kw.

Additional, and tentative, plans of county public utility districts cover other hydro possibilities. And the major utilities themselves have other projects in mind, if not in the preliminary design stage. Singly and in combination, these utilities have their eyes on sites outside the state—Noxon Rapids on Montana's Clark Fork (385,000 kw., Washington Water Power Co. seeking license), Mountain Sheep and Pleasant Valley on the Snake (Pacific Northwest

Power Corp. seeking permit), Brucies Eddy on the Clearwater in Idaho (Pacific Northwest Power seeking permit).

Of the projects mentioned above the "hottest" is Noxon Rapids, whose sponsor is ready to go this year if a license is granted. The project will include an 1,120-ft. section of concrete, and earthfill wings totaling 3,200 ft. more. Height is 190 ft. Cost \$87,000,000.

State highway spending is up, and department is ready for more

A second big construction market in Washington is highways. Like its neighboring state of Oregon, Washington has for some years been building with bond issue funds in a principal effort to bring U. S. 99, the major north-south route, up to 4-lane standards. In addition the Puget Sound area poses its own peculiar bridging and freeway problems. A

BOX CANYON DAM river diversion added a dramatic scene to the '54 construction season. Here is the "hole" after cofferdamming and pumping out by Morrison-Knudsen. Concrete placing in winter months is next problem.



new crossing of Lake Washington is in the offing, and somewhat further in the future is a Puget Sound crossing, still being studied. The biggest highway undertaking contemplates a toll road all the way from Tacoma to Everett (65 mi.). Coverdale & Colpitts have reported favorably on feasibility. Tudor Engineering Co. and J. E. Greiner Co. have since conducted a final traffic study, with expectations of completing a report late last year.

Other toll facilities include a new bridge over Hood Canal on the Olympic peninsula, and one across the Spokane River in Spokane.

Progress on Washington's regular highway program in 1954 totaled about \$38,000,000—measured in contract awards during the year. For the new season coming up, work will proceed in accordance with an anticipated schedule of awards averaging \$3,500,000 per month. Thus, expenditures from normal and bond funds should total about \$42,000,000 for the year.

One of the most expensive projects and the most interesting from an engineering standpoint on the state highway system is the new First Avenue South Bridge over the Duwamish River in south Seattle. When the bridge was first under consideration, engineers foresaw foundation difficulties. Exploration showed solid bearing only at a depth of 220 ft. below sea level. In fact, from el. —32 to el. —220 were only fine silty sands and clays, giving resistance in many cases of only 4 to 9 blows per ft. to a standard penetrometer.

A floating pier design resulted. Buoyancy provides most of the support. The meager bearing value of the sand and clay strata is sufficient to carry about 15%. Contract for the pier work is held by General Construction Co. at \$1,387,655. Six more contracts will be awarded before the work is entirely under contract.

Spend \$80,000,000 each year? Highway director says "can do"

Access limitation on Washington highways is the subject of a master plan developed by the highway commission. About 1,960 mi. are eventually expected to be so controlled, with 417 mi. already so established.

Washington's highway director, W. A. Bugge, comments with confidence on his state's view of increased highway work under the "Eisenhower plan" or any fraction of it: "This state would find itself spending \$70,000,000 to \$80,000,000 per year for construction rather than the \$35,000,000 to \$40,000,000 spent now. That is quite an increase."

"But we can do the job, as evidenced by the fact that we have increased highway construction contract awards from \$25,000,000 in 1949



NEW TWIST on lift-slab technique is getting play on shopping center construction in Spokane. H. Halvorson, Inc., has the project, including 64,000 sq. ft. of lifting.

to \$44,000,000 in 1953. Certainly there will be problems connected with suddenly expanding our building program to the point indicated in the President's program. However, our engineering forces are in good shape and while we don't have any great number of projects in the design stage, we anticipate no problem on that score."

County roads: Men and methods are okay, but more money needed

Additional pressure for highway construction in Washington has come in recent years from development of the Columbia River Basin by the Bureau of Reclamation. A vast inland area that formerly lacked roads of any kind is now crisscrossed with paved highways at practically every section line. This has imposed a considerable burden on the county road departments, but to some extent of course increased funds have also been available from county property tax sources as well as from road user taxes.

The principal counties so affected are Adams, Grant and Lincoln. Grant County in particular has come up with a unique way of meeting demands. This is characterized by J. A. Dodson, county engineer, as "roads by the mile." Favored by a fair degree of uniformity in soil and terrain type, the county has been able, in some cases, to design a typical road section, locate a centerline, and call for bids on just one item, the road itself (per lin. mi.)!

Progressive methods characterize the administration of many Washington county road programs. Don-

ald B. West of Chelan County has adopted mobile short-wave radio extensively and effectively for his operations. Bridge analysis for Skagit County has included studies of prestressed concrete, though the major recent structure at Mt. Vernon does not employ this medium. Douglas County has employed rational methods—sufficiency ratings—for studies leading to the designation of new federal aid secondary routes in the county. These studies were reviewed by the county engineer, Pat Thomson, in an article in *Western Construction* in November 1954.

Expenditures in Walla Walla County are moving steadily up, from \$582,500 two years ago to a budgeted program of \$587,000 this year. A look at the report and recommendations prepared by B. Loyal Smith, county road engineer, reveals several interesting points. Combined revenues from gasoline and property taxes are lower than in 1953, as the increase in the total budget is considerably less, at \$4,500, than the increase in federal aid matching funds (\$15,500). The eternal problem of finding new construction money for county roads is reflected in figures for proposed regular maintenance (\$310,000) and new construction (\$200,000).

Smith notes that Walla Walla County for 5 yr. has adhered religiously to pre-planned annual programs. In fact, efforts for the past 4 yr. have been directed against a 10-yr. program laid out in 1950. Effectiveness of the program is shown by the fact that 4 yr. of work has resulted in 36% achievement. Two very rough winters, bringing extra doses of frost and run-off difficulties, are



GETTING ABOVE GROUND, Shell Oil's new refinery at Anacortes will hit \$75,000,000 before completion next year. Bechtel Corp. is prime contractor.

cited as justification for the minor lag of 4%.

Flexibility is provided in the new program by the device of adopting projects over and above budget allowances by about 40%. This lets the county road department roll with punches that might come in the form of right-of-way delays, poor weather, or shortages of materials or labor.

A final sampling of Washington county road plans is represented by Whatcom County. Farthest north and west of counties on the mainland proper, Whatcom is a traffic "bridge" and accordingly has found itself with an accelerating program. The construction budget last year was \$245,500. This year it is \$370,000—an increase of 50%.

Bridge construction is a feature of the county program, according to William Genther, county engineer. Under contract this month is a reinforced concrete continuous girder structure 270 ft. long and providing a 28-ft. roadway. It replaces a wooden pile bent trestle on an improved alignment.

County policy is for steady replacement of timber trestles with permanent structures, whether bridges or culverts. The eventual aim is to avoid what has historically been the necessity for bridge replacement on about a 15-yr. cycle.

For medium sized bridges, a concrete flat slab on precast piles has become standard, and two such structures are planned for construction this year. For very short locations precast inverted-U sections are used, the deck and beams being cast together. Eight have been completed in the past 2 yr. and 6 more are coming up this year. In one instance the design is being used on an 8-span structure.

City streets of Seattle continue to be the locale of large-scale construc-

tion and improvement as that city does its best to overcome natural physical bottlenecks built into its peninsular location. The 2-yr. program for 1955-57 features 11 projects totaling \$7,100,000. These include further extension of the Alaskan Way viaduct to the south, where it will be brought down to grade and then continued still further. Other work is concentrated on interchange structures to omit turn conflicts, widening of existing arterials, etc. The emphasis of this program is on arterial traffic needs.

Bond issue funds are green light for new cycle of city public works

The biggest single item is Alaskan Way, the two portions of which total \$4,850,000 in construction and right-of-way costs, all of which will be covered by the state. Seattle's own expenditures in the program come to about \$3,532,000. The future for this and additional work was assured last fall by the passing of a \$10,000,000 city bond issue for street improvements exclusively.

Three other bond issues were defeated at the same time. These would have been used for sewer improvement (\$5,000,000), street lighting (\$4,600,000), and city parks (\$3,500,000). The amounts are an index of needs that must be met in one way or another. For the present, regular expenditures of \$4,000,000 will continue—over and above the arterial program—for residential street improvements such as grading, sewers, water mains, paving, etc.

Bond issues in other Washington cities last fall add significantly to the construction work load coming up. In Spokane, the emphasis was on schools—\$6,000,000, with 80% slated for a single new high school plant.

Tacoma also passed bond issues,

the total being \$4,660,000 covering streets, sewers, and street lighting. And Renton okayed a \$327,000 general obligation bond issue for civic work, against which progress has already been made on one item, a \$110,000 bridge. The other major item will be a \$100,000 city swimming pool, plus street lighting and other improvements totaling \$117,000.

Among cities showing significant construction activity beyond bond issue programs is Spokane. School construction has been cited as the big item coming up. Second in importance is a \$6,000,000 bridge crossing of the river on Maple St. The structure itself has been estimated to cost \$4,610,000 in a report prepared for the city by Tudor Engineering Co. Most of this year would necessarily be spent in preparation of final plans and specs, with award of contracts possible by the end of 1955. Construction is estimated to cover 2 yr. Revenue bonds would be the method of financing, with tolls providing the revenue. Bonds will be issued by the Washington Toll Bridge Authority.

Last year was a very good one in Spokane. Reports at the end of October showed construction permits then totaling \$32,378,223, or 35% above 1953. The biggest single item initiated during the year was the \$1,750,000 coliseum. Other big commercial and industrial jobs ranged down to \$112,000. Just 13 representative projects totaled over \$6,500,000.

The expansion in Spokane has put a new burden on its water system. Expenditures on the north and south sides of the city during the next few years are expected to total nearly \$5,000,000. Immediately coming up, in the 1955 budget, are improvements totaling \$1,029,000.

Besides big hydro plans, electric utility "normal" spending is up

In the electric power utility field, hydro developments discussed earlier in this review dominate the future—even beyond 1955 alone. Figures for the current year, covering normal operating programs, are therefore deceptive. You can't build a dam in a day.

For instance, Seattle City Light has awarded over \$17,000,000 in a contract for one project. Yet the construction expenditures anticipated for this year alone total only about \$12,400,000. Last year the total was just under \$12,000,000. Here's how some of the major subtotals for the two years compare, 1954 followed by 1955: water power stations, \$7,000,000 and \$6,000,000; transmission plant substations, \$1,202,000 and \$3,216,000; distribution plant substations, \$3,100,000 and \$2,885,000.

Tacoma City Light routine work for a single year is likewise overshadowed by its proposed Cowlitz and Cushman work. Annual figures for 1954 and 1955, come to \$2,595,000 and \$2,752,000.

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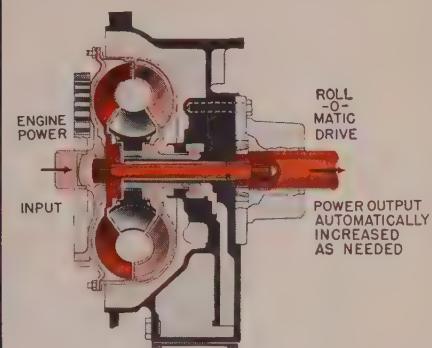


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See manufacturer's listing page 23H, Yellow Section

Washington Water Power Co., while still uncertain as to possible spending that would accompany FPC okay of its Noxon Rapids project in Montana, plans expenditure of \$10,250,000 on other system facilities in 1955. This represents a 55% jump from last year's figure of about \$6,000,000. One big item is \$3,000,000 for transmission lines to Waneta, B. C.

Chief Joseph Dam: \$18,000,000 saved for use on other work

Turning now to the traditional big time of civil engineering construction in the state of Washington, the Corps of Engineers passed a milestone in construction of Chief Joseph Dam on the Columbia when the last mass concrete in the 981,000-cu. yd. structure was placed late in November 1954. Only blockout concrete around the gates and plugging of sluices passing the river now remains on the concrete schedule.

Funds to the amount of \$27,000,000 are currently available to carry work forward on this project, and additional lettings are scheduled this year, almost entirely in electrical equipment totaling well over \$5,000,000.

Chief Joseph is another Corps project—like The Dalles—which has been “marked down” in its price. Originally estimated to run almost \$187,000,000 in cost, it now is figured to total about \$169,000,000—the result of design and bidding economies.

At McNary Dam \$263,000,000 of an eventual \$287,000,000 has been accomplished. Work last year involved installation of four 70,000-kw. generating units, embedment of turbine parts, auxiliary equipment installation, and paving of roads and parking areas. McNary Dam Contractors completed a \$60,000,000 powerhouse contract in December, but remain at work on a \$2,000,000 job for turbine part embedment for 6 units.

Other contractors involved in furnishing and installing equipment include General Electric (12 generators), S. Morgan Smith (14 turbines), and Cascade Contractors (mechanical and electrical facilities).

Military work presently has the top hand in Washington efforts by the Corps. Walla Walla District anticipates awards totaling \$7,000,000 during the first half of the year—\$5,500,000 on Air Force projects, \$1,500,000 at Army installations. The Seattle District will be calling for bids on work at Fort Lewis and Mc-

Chord Air Force Base near Tacoma, Paine AFB near Everett, and Fairchild AFB near Spokane. Including work in Montana, coming awards are estimated to total over \$26,000,000.

Estimated spending this year by the Seattle District, for Washington alone, totals \$43,400,000 on civil works, \$18,000,000 at Army bases, and \$19,000,000 for the Air Force.

Reclamation network still spreading over Columbia Basin

In the Columbia Basin irrigation works by the Bureau of Reclamation have now been completed for 131,000 acres, and water is therefore available on that area. Construction continues on another 55,000 acres, with emphasis on irrigation works.

For the Potholes East Canal lateral system, new work will include 31 mi. of canals and laterals, 74 mi. of laterals and wasteways, 6 mi. of pipeline, and a 160-cfs. pumping plant. Work on the West Canal lateral system will comprise 13 mi. of canal, 90 of open laterals, 6 of pipeline, and 14 small pumping plants.

Yakima Project work features 22 mi. of canal work under way, with 18 mi. more to begin this spring. Also, bid invitations will be issued next month for modifications to the Prosser diversion dam—raising it, altering the headworks, and enlarging 2 mi. of canal.

New railroad yards have lots of plain and fancy grading

Two extensive yard projects and reconstruction of a bridge mark construction by railroads in Washington these days. Northern Pacific was in the news during 1954 with completion of a 2-yr. \$6,000,000 job of raising and altering its Columbia River crossing at Pasco. Ten new pier were required, nine truss spans were moved, and the old swing span was replaced with a vertical lift span.

The same railroad began construction late in the year on a \$5,000,000 “push-button” retarder yard at Pasco. First of its kind in the northwest, the job will be finished this year. J. A. Terteling & Sons have the grading contract. Three new buildings totaling \$202,900 have just been let, and 77 mi. of track are to be laid in the new yard.

Union Pacific is finishing up a new yard in Spokane. The \$2,750,000 job was begun in 1953, and about 20% of the work carries over into 1955. Built on an entirely new site east of town, the yard encompasses construction of buildings, shops, utilities, track, and fuel storage.

AEC: “Hush” changes to “Ssshh” as spending pressure drops

Western states activity by the Atomic Energy Commission can well be considered in this review of Washington construction, although California, Idaho and New Mexico facilities of AEC account for some of

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John Irving, Ramsay-Bird superintendent, points to PIONEER drier as it processes its millionth ton of material. Left to right on platform are Mike McCormick, plant foreman, Len Day and Lorne Mills. On the

ground are Irving, Jack Dunlop, and Doug Ramsay, director. At the time the photo was taken the plant was producing material for the Trans-Canada Highway east of Regina, expected to be one of Canada's finest.

Pioneer
Continufllo EQUIPMENT

its expenditures. But the Hanford Works has featured the major construction activity—additional reactor capacity and chemical processing plant work. The chemical processing plant is expected to be in operation by the middle of this year, representing an expenditure of \$75,000,000. Reactor work has featured contracts by General Electric, Kaiser Engineers and Blaw-Knox, and this type of work is complete for present needs. The estimated construction volume figures for 1954 and 1955 reveal this: \$185,000,000 compared to \$95,000,000 for the West.

Methods used in Hanford construction include: tilt-up panels up to 40 ft. in height; movable steel forms for concrete placement in a 100,000-cu. yd. structure, effecting a saving of \$10 per cu. yd. in concreting costs; and successful use of several types of heavy aggregate for high density shielding concrete. Examples of these aggregates include barite, magnetite, limonite, and even scrap iron. The barite concrete, in particular, compares well in compressive strength to conventional rock concrete, but shows poor resistance to freezing and thawing.

Bonneville Power Administration activity last year totaled about \$40,000,000 in construction. This year the

estimated volume is \$37,000,000, including new start in Washington on McNary Dam switchyard facilities and continued work on transmission line from McNary to Portland and Vancouver (185 mi.) and connections to facilities of Puget Sound Power & Light Co. and Whatcom County P.U.D. Other work on the network is directed toward tying McNary to facilities in Oregon.

AGC working for contract volume closer to total construction volume

An industry note is provided by Sam C. Guess, executive secretary of AGC of the Inland Empire (Spokane). In eastern Washington and northern Idaho, study reveals about \$15,000,000 annually being spent on construction and maintenance by county forces and road districts, as much as two-thirds being handled by day labor. In behalf of the contractor members, AGC is launching a local program to sell the contract method more widely among the counties and districts involved. Additional new work by the chapter includes sponsorship of meetings between contractor and manufacturer personnel to improve techniques of equipment operation and maintenance. One meeting scheduled late in the year was to be at Moses Lake, spotlighting crawler track equipment maintain-

ance as seen by International Harvester, whose representatives were to conduct a "clinic."

The construction future in Washington, overall, is highlighted by aggressive and progressive action such as this by AGC, and by other signs as well: bold power programs by public and private utilities, realistic and carefully carried out county road construction, large scale city and state street and highway programs, and continued commercial and industrial expansion along the same lines that created today's needs.

**1954's BIG ONES
IN WASHINGTON**

Bennett-Campbell, Inc., of Seattle, construction of a 4-story addition to the Bon Marche Department Store in Seattle—\$1,549,275.

Donald M. Drake and George Fuller of Portland, construction of structures to house B-52 planes at Moses Lake—\$5,514,000.

Peter Kiewit Sons' Co. of Longview, construction of the Skagit River Bridge north of Mt. Vernon—\$1,328,367.

Erickson Paving Co. of Bellevue, 1.2 mi. of grading and paving in Lewis County—\$1,029,714.

Cherf Brothers, Inc. and Sandkey Contractors, Inc., of Ephrata, earthwork, pipelines, and structures on the Columbia Basin Project—\$1,676,547.

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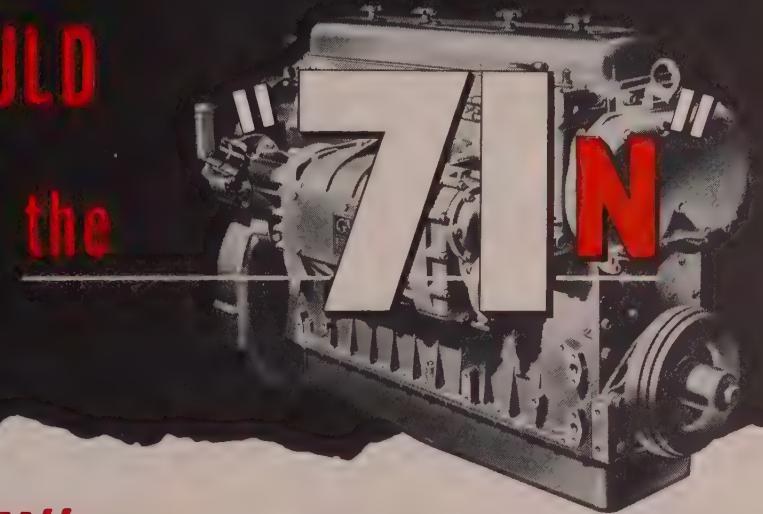
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WYOMING

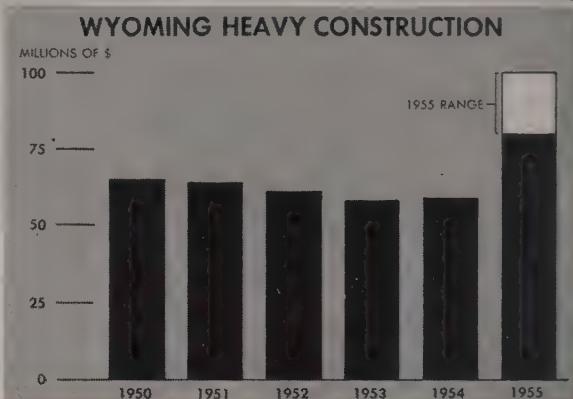
Pipeline construction literally starts here, with lines into Missouri, Nebraska and Arizona. Reclamation is in the news again with \$6,270,000 in Glendo Dam construction just getting under way. Added federal aid bumps state highway spending to \$13,700,000. Casper marks a city building trend: 9 months of 1954 were 77% above all of 1953.

VARIETY AND INCREASING VOLUME characterize construction operations in Wyoming for the season just passed and for 1955. Highway construction will increase; initial \$6,270,000 contract has been awarded for Glendo Dam representing the largest Bureau of Reclamation project to start in 1954; pipeline work for both gas and oil reached a new high and the multi-million dollar resort at Jackson Hole highlights building construction in the state. Continued growth of Wyoming cities has resulted in corresponding municipal construction including an expansion of the water system for Cheyenne (15 mi. of transmission pipe up to 20-in. maximum size). More than \$3,000,000 of school construction has been under way during the past year in the northeast section of the state. A mining development which may total \$10,000,000 for the U. S. Titanium Corp., would include extensive access roads and structural

building. And a \$10,500,000 steam generating plant is being actively promoted to serve rural areas in eastern Wyoming from a site at Pine Bluffs. The Bureau of Reclamation started work during 1954 on Glendo Dam and power plant which will be constructed on the North Platte River about 4½ mi. southeast of the town. The project will involve an earthfill structure 207 ft. high and 2,200 ft. long involving 3,021,000 cu. yd. of fill. The power plant at Glendo will be of 24,000-kw. capacity and a second power plant will be constructed later in Fremont Canyon of 48,000-kw. capacity near the existing Pathfinder Dam. Late in November the contract was awarded to Lytle & Green of Sioux City, Iowa for the start of the Glendo Dam project, including about 7½ mi. of highway improvement and access road.

The Department of the Interior released figures late in 1954 indicating that it will expand about \$1,000,-

DRILL AND SHOOT means highway construction is costly in Wyoming. This is an S. Birch & Sons job near Alpine, part of a \$12,500,000 year that will be topped in 1955.



000 more on Bureau of Reclamation projects in Wyoming during the fiscal year of 1955 than in the preceding year. In addition the department is spending about \$2,750,000 in the state through the National Park Service, another \$616,000 through the Bureau of Mines, and \$540,000 in Geological Survey work. In addition to the Glendo project, Bureau of Reclamation activity will include \$450,000 on the Hanover Bluff unit and \$347,000 for work on the Eden project. The National Park budget will include for Wyoming \$170,000 for paving on the Jackson Lake road, \$615,000 for improvements of roads and other facilities in Grand Teton National Park, and another \$125,000 for road work between Yellowstone and Teton. Included in the operations of the Bureau of Indian Affairs will be \$140,000 for construction work.

Last year the Wyoming Highway Department, under the direction of J. R. Bromley, superintendent and chief engineer, completed \$12,458,000 of construction work during the season. With the increase in federal aid funds for the 1956 fiscal year the department anticipates that construction will total about \$13,750,000 for the coming construction season.

Early in the year the final contract was completed in a \$1,500,000 improvement program carried out by the department in the Cheyenne area when the Archer overpass was opened to traffic. This overpass built at a cost of \$507,000 completes the three-laning of Highway U. S. 30 from the city of Cheyenne east to the Nebraska state line.

The Bureau of Public Roads through Division 9 carried out construction work totaling \$1,950,000 on 46.9 mi. of highway during 1954 and plans to let contracts totaling \$1,370,000 for 34 mi. of highway work this coming season.

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See manufacturer's listing page 39H, Yellow Section

WYOMING continued

During the last bid opening of the Wyoming Highway Department in 1954 almost \$2,000,000 of road construction was put under contract covering 41 mi. of construction.

Pipeline construction projects during the 1954-55 season in Wyoming have been particularly active. These have included crude oil lines from Fort Laramie, a distance of almost 600 mi. into Missouri, another from Guernsey, Wyoming, a distance of almost 800 mi. into Arizona and a shorter line from Clarendon field within the state to Casper, a distance of about 100 mi.

One of the major construction projects to be carried forward within Wyoming during 1954 has been the work on the Jackson Lake Lodge, a multi-million dollar recreation center located in Grand Teton National Park about 35 mi. north of the town of Jackson. Early in 1954 Morrison-Knudsen Co., Inc., completed work on the 256 guest cottage units which were opened during the past tourist season. Work continued on the main building which is a 3-story structure of concrete design.

The city of Laramie plans to carry out a \$175,000 program for storm drains and \$40,000 of water and sewer extensions during 1955.

In Casper a review of the last 3 years of construction activity would include a \$1,000,000 headquarters building for an oil company, \$2,300,000 in school improvements and an estimated \$60,000,000 of construction relating to the petroleum industry, including pipelines, refinery work and buildings. Population for Casper increased to 34,000 last fall from the 1950 census figure of 23,673. Present construction operations in the city include work on a \$575,000 junior college, almost \$1,000,000 for a hospital, and a \$500,000 bond issue was recently approved for a new airport terminal building.

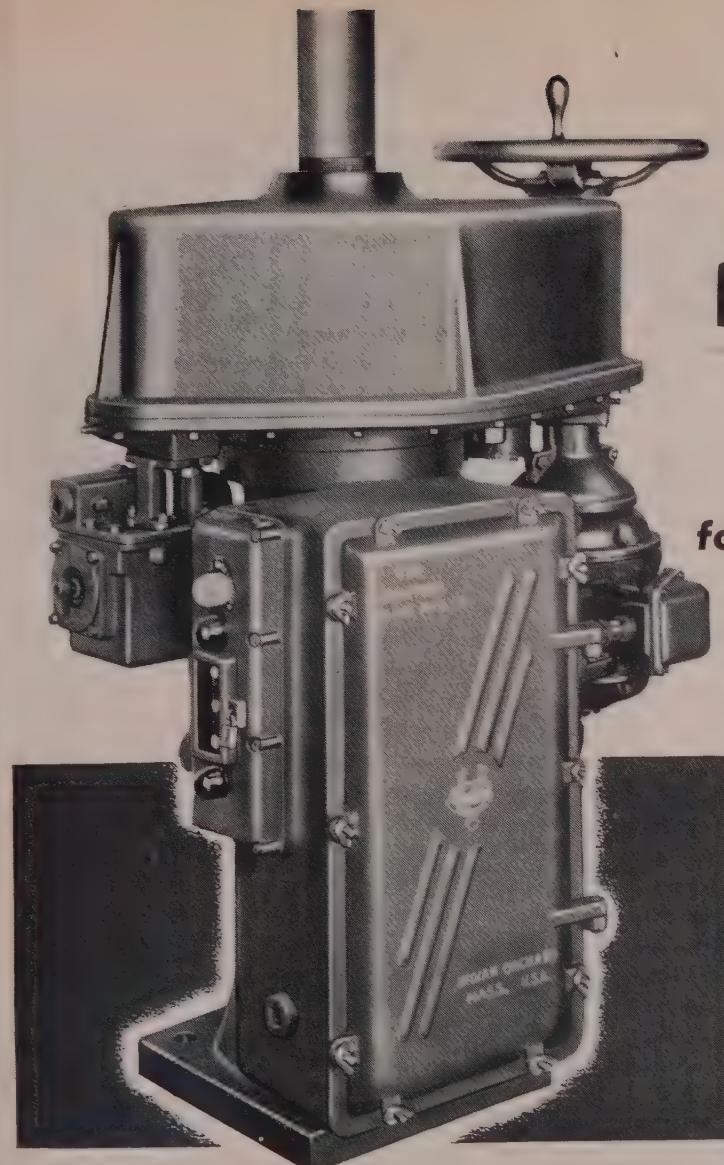
Late last year construction was completed on a 220-mi., 6-in. pipeline from Cheyenne to North Platte, Nebraska. The line was designed to carry refined products and represented a cost of about \$3,500,000.

1954's BIG ONES IN WYOMING

Inland Construction Co. of Omaha, 219 mi. grading and surfacing on the Thermopolis-Shoshoni road in Fremont and Hot Springs counties—\$529,429.

Woodward Construction Co. of Rock Springs, 11.7 mi. grading and surfacing near Rock Springs—\$367,977.

Knisely-Moore Co. of Douglas, 6.7 mi. grading and surfacing in Bighorn National Forest—\$582,000.



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RUGGED...

**CHAPMAN'S
MOTOR UNIT**
**for Valves, Floorstands
and Sluice Gates**



Floorstand equipped with Motor Unit . . . control panel, motor, limit switch and push button station.

Simple, durable mechanism of Chapman's Motor Unit. Handwheel remains stationary during motor operation.

Chapman Motor Units have fewer components than any other units, providing greater dependability, much lower maintenance costs.

There are only two pinions and two gears in the motor reduction train: drift is eliminated and lash is negligible. Your valves seat tight, but not too tight. Operation is *always* smooth and trouble-free.

You can mount the Chapman Motor Unit in any position, at any angle required. The rugged stub-tooth gears require no grease

or oil bath . . . yet run smoothly, quietly, with minimum wear.

Weatherproof and steam tight, Chapman's floorstand units are shipped completely wired, ready to connect to your power leads, for easy, rapid installation. This modern motor unit is dependable and economical. Send for *new* catalog No. 51.

**The CHAPMAN Valve
Manufacturing Company**
INDIAN ORCHARD, MASSACHUSETTS

ALASKA

Look (immediately to your right) for Alaska to "break even" this year. The Corps of Engineers has dropped from its record volume of two years ago but still controls the construction economy. Conventional public works—roads, schools and utilities—are a bigger percentage now, will continue as a stabilizing influence. 1955 to be the wind-up season for 620-mi. Haines-Fairbanks pipeline.

FOR THE PAST two years, and for the year to come, you have and will continue to have the illuminating monthly special feature on Alaska construction as presented by Cliff Cernick in his Alaska Newsletter. For the overall picture for the past year and for 1955, additional construction information has been assembled that should be of interest to everyone. The cooperation of many individuals and groups helped to bring you the following picture.

AGC view: "biggest trend toward public improvements in smaller towns"

Larry Moore, manager of the Alaska Chapter of the Associated General Contractors, is in a good position to analyze the trend of events. Here is what he has to say, "... Since the cessation of Korean combat the defense construction program in Alaska has been materially reduced. The year 1954 showed an important decline in new contracts and several large contractors left the Territory because of slackening in new major offerings and extremely poor prices resulting from excessive competition. Unless the international situation becomes critical there will probably be a continual reduction in projects of major proportions although new work will aggregate an appealing volume of business.

"It now appears that the heaviest concentration of defense construction to be completed in a six months period since the start of the multi-million dollar military program in Alaska will be accomplished between July and December of this year (1954). This will naturally have an effect on work to be carried over in 1955. Military authorities are planning more than \$145 million in defense construction for 1955, but this will probably be reduced to half that amount by the time it runs the gamut

of government appropriations unless serious difficulties arise in the field of international diplomacy.

"Private construction has just about reached its peak and housing requirements that were critical up to a year ago are now fully satisfied except in a few smaller communities where the volume is not too important. The biggest trend will be toward public improvements in smaller towns where schools, hospitals, public utilities, streets, sewers, etc., have been needed for many years. Indications are good for a number of smaller projects partially financed by federal assistance to community efforts."

Military construction is by far and away the major source of the con-

ARMY: A FEW ARE UP

Dollar Volume of Work Estimated U.S. Air Force

Installation	Cal. Yr. 1954	Cal. Yr. 1955
Eielson	\$13,983,000	\$ 9,301,000
Elmendorf	28,073,000	26,292,000
Ladd	24,344,000	14,153,000
Naknek	71,000	3,213,000
Miscellaneous	2,841,000	14,298,000
Total Air Force	\$69,312,000	\$67,257,000

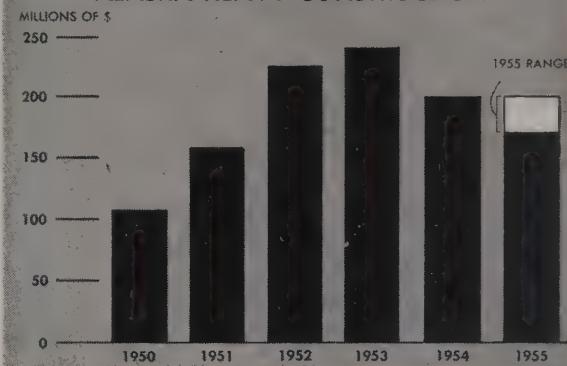
Dollar Volume of Work Estimated U.S. Army

Installation	Cal. Yr. 1954	Cal. Yr. 1955
Big Delta	\$10,732,000	\$ 3,183,000
Eielson	1,169,000	1,347,000
Ft. Richardson	10,798,000	5,986,000
Kenai	1,948,000	2,236,000
Ladd	3,064,000	5,058,000
Whittier	6,656,000	8,816,000
Pipeline, Haines-Fairbanks	27,989,000	9,960,000
Miscellaneous	1,002,000	2,301,000
Total Army	\$63,358,000	\$38,887,000

TOTAL VOLUME OF WORK \$132,670,000 \$106,144,000

(Note: The figures for the calendar year 1954 are based on actual placement through September 30, 1954 and are estimated placement for the remainder of the year.)

ALASKA HEAVY CONSTRUCTION



struction dollar in Alaska. Col. Carl Y. Farrell, Alaska District Engineer for the Corps of Engineers, has this to say about the amount of expenditures. "As you probably already are aware, the Civil Works side of the Corps of Engineers functioning in Alaska is quite small as compared with current military work and confined at least for the present to small river and harbor maintenance jobs and engineering studies for possible projects in the future. There were no construction projects of a Civil Works nature to report for calendar year 1954. One civil project is planned for calendar year 1955—a project at Kodiak. The job is estimated at less than \$100,000 and is to be scheduled for completion next year."

Road Commission: 200 mi. of grading, 100 mi. plant-mix

What can be expected in construction funds for road building in Alaska is ably stated by the Commissioner of Roads for Alaska, A. F. Ghiglione: "The following brief information is furnished . . . details may not be released at this time because of regulations regarding disclosure of budget information before the meeting of Congress. The total cost of work proposed for the 1955 season will approximate \$17,200,000, of which \$3,900,000 will be spent on maintenance of existing roads and bridges.

"The construction funds will cover roughly 200 mi. of grading of new road and regrading of existing road, 100 mi. of asphalt plant-mix paving, and construction of 8 major bridges. This program continues the work of the Alaska Road Commission in the Territory at approximately the same rate carried on during the past construction season."

The biggest power project in the Territory was under the jurisdiction of the Bureau of Reclamation. Construction of the 4½-mi. Eklutna tunnel and alterations to the existing



for an ever-mounting demand . . .

A NEW WEST COAST SOURCE OF SUPPLY FOR

K & M "CENTURY" PIPE

Located on a 26 acre site and built at a cost of \$2,750,000, the ultra-modern design, equipment and facilities assure high quality control.

The addition of the Santa Clara plant to others located in St. Louis, Mo. and Ambler, Penna., makes possible better service and deliveries to meet the continually increasing demand throughout the United States for "Century" Pipe.

There are ample reasons for the growing popularity of "Century" Pipe for water mains. We shall be glad to tell you about them. Write for a copy of "Mains Without Maintenance" which contains important information on the use and installation of "Century" Pipe, the modern water main.

"Century" Pipe meets the A.W.W.A., A.S.T.M. and Federal Specifications for asbestos-cement pressure pipe.



Here illustrated is the Keasbey & Mattison new plant at Santa Clara, California, for the manufacture of "Century" asbestos-cement pipe for water mains.

KEASBEY & MATTISON COMPANY • AMBLER • PENNSYLVANIA

Nature made asbestos . . . Keasbey & Mattison has made it serve mankind since 1873





TILT-UP shaves costs in Alaska, too. This is J. H. Pomeroy's \$1,236,000 contract for composite shops at Whittier, now 80% complete. Tilt-up came north only 3 yr. ago.

ALASKA continued

Eklutna Dam were completed in 1954. The first 15,000-kw. unit of the Eklutna Power plant was placed in operation in December. The second unit of the same capacity is planned to go on the line early this year, bringing the plant to its full capacity of 30,000 kw.

This project, total cost of which is about \$33,000,000, has been under construction for the last 4 years. General contractors on this project have been the Palmer Constructors made up of joint venturers Coker Construction Co., Peter Kiewit Sons Co., and Morrison-Knudsen Co., Inc. This combine had the \$17,400,000 tunnel contract.

Base by base, what's going on at Alaskan installations

Here is a report on the status of some of the various large military projects under supervision of the Corps of Engineers as 1954 drew to a close and the long, cold winter set in.

ELMENDORF AIR FORCE BASE: Ahead of schedule the 7-story, 400-bed modern hospital is entirely inclosed and present interior work includes interior insulation, installing elevators, finishing ground floor slabs, and some electrical, plumbing and air duct.

Work was virtually completed during the summer on the huge West Elmendorf heat and power plant exterior. Steam and water lines are now being run into the building and in-

terior installations will continue through the winter.

The outfall sewer serving the Elmendorf Hospital area was completed ahead of schedule on the section between Bluff Road and the mainline in the railroad yard.

FORT RICHARDSON: Final interior work was being done on 46 buildings—each an 8-family quarter with 1, 2, and 3 bedrooms. Completion date was November 20. The \$1,503,160 general depot warehouse by Schmid & Lewis was 65% complete at year end.

WHITTIER: Inclement weather delayed several projects, but those where interiors could be closed in during the brief summer are ahead of schedule. These include the Post headquarters and telephone exchange and the composite shop. Several other contracts awarded in late summer cannot get under actual construction until the spring breakup, but preliminary work is underway. The \$3,788,713 permanent docking facilities held by Patti-MacDonald Construction Co. were about 25% complete in 1954.

LADD AIR FORCE BASE: Several major projects completed or nearly completed in 1954 include the power plant extension, electrical distribution system and substation, the heating plant and utilities, and POL bulk facilities. Security fencing, three airmen's dormitories and one mess and administration building with utilities were definitely completed. A large number of 8-family quarters, 16 under one contract and 30 under another, were scheduled to be turned over to the Air Force by the end of

the year. Automotive maintenance shops, organizational shops, and gas dispensing stations were turned over to the Air Force.

EIELSON AIR FORCE BASE: Only minor work remained to be done during the winter season on several projects. Seven 8-family quarters and the vehicle warm storage building were completed in October. Ammo storage igloos, 10 for the Air Force and 12 for the Army, were finished except for seeding. Access roads and the railroad spur neared completion.

BIG DELTA: Severe weather and strikes hampered work at the Army Arctic Center during the season. Ammo storage igloos were finished, exterior work has been done on several buildings, and interior work went forward on eight other buildings—the administration building, boiler plant, organizational maintenance shop, post engineer building, fire station, headquarters and telephone exchange, enlisted men's barracks, and class room building. The \$12,190,214 contract here held by Peter Kiewit Son's Co. & Early was about 85% at the end of 1954.

HAINES TO FAIRBANKS PIPELINE: This past season before winter closed in—two crews operating in Alaska and Canada welded virtually all of the 620 mi. long line. The \$29,000,000 project is scheduled for completion in September this year. It includes construction of a dock at Haines, pumping stations, storage, and housing facilities.

For Fiscal 1955 beginning next July, \$9,419,000 has been allotted the Alaska Public Works by the Department of the Interior. There are 19 projects in all included under this appropriation. Major ones include \$2,000,000 for a high school in Juneau; \$597,500 for utilities at the University of Alaska at Fairbanks; \$793,200 for sewer extensions at Anchorage; \$800,000 for the Pioneers' Home in Sitka; most of the remaining money is for schools in other cities. The projects will be constructed on a fifty-fifty local-federal matching fund basis.

1954's BIG ONES IN ALASKA

Mannix International Corp. of Winnipeg, 59 mi. of rehabilitation work for the Alaska Railroad from Seward to Portage—\$1,731,414.

Patti-MacDonald Construction Co. of Kansas City, construction of docking facilities at the Port of Whittier—\$3,788,714.

B.E.C.K. Constructors and McLaughlin, Inc., of Seattle, grading and construction of bridges on the Copper River Highway—\$2,739,390.

Grove, Shepherd, Wilson & Kruege, Inc., of Seattle, construction of eight 3-story dormitories and three mess-administration buildings at Ladd Air Force Base—\$4,196,083.

WESTERN CONSTRUCTION

1955 HANDBOOK

Manufacturers Section	Yellow
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MANUFACTURERS SECTION

CONTAINS . . .

Names of Manufacturers, arranged alphabetically with their products, branch offices, other key western personnel and their distributors in the 11 western states.

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	Eugene	" " "
	Portland	" " "
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Oregon	Portland	"	S.O.Anderson

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	Oakland	Buran Equipment Co.
	Redding	Moore Equipment Co., Inc.
	Sacramento	" " "
	San Diego	Shaw Sales & Service Co.
	Santa Clara	Buran Equipment Co.
Colorado	Denver	Moore Equipment Co.
Idaho	Bolse	Power Equipment Co.
	Idaho Falls	Southern Idaho Equipment Co.
	Twin Falls	" " "
Montana	Billings	Seltz Machinery Co.
	Great Falls	Mountain Tractor Co.
	Kalispell	" " "
	Missoula	" " "
	Sidney	Richland Machinery Co.
Nevada	Elko	A-D Machinery Co.
	Reno	Moore Equipment Co., Inc.
New Mexico	Albuquerque	Harry Cornelius Co.
	Roswell	Smith Machinery Co., Inc.
Oregon	Eugene	Pape Bros.
	Medford	Heupert Tractor Co.
	North Bend	Pape Bros.
	Portland	Wood Tractor Co.
	Roseburg	Pape Bros.
Utah	The Dalles	Diekschneider Equipment Ore., Ltd.
Washington	Salt Lake City	Cafe Equipment Co., Inc.
	Seattle	A.H.Cox & Co.
	Spokane	American Machine Co.
	Wenatchee	Mid-State Equipment Co.
Wyoming	Casper	Studer Tractor & Equipment Co.

ALL PURPOSE SPREADER CO.
Faller Road
Elyria, Ohio

PRODUCTS: Spreaders; Wideners; Rollers; Bituminous Pavers.

AMERICAN AIR FILTER CO., INC.
Herman Nelson Division
215 Central Avenue
Louisville 8, Kentucky

PRODUCTS: Portable Space Heaters.

DISTRIBUTORS

California	Fresno	Edward R.Bacon Co.
	Oakland	" " "
	Sacramento	" " "
	San Francisco	" " "
Idaho	Bolse	Intermountain Equipment Co.
	(Idaho Falls)	Arnold Machinery Co.
Oregon	Pocatello	Intermountain Equipment Co.
	Eugene	Loggers & Contractors Machinery Co.
Utah	Portland	Arnold Machinery Co.
Washington	Salt Lake City	A.H.Cox & Co.
	Seattle	Western Machinery Co.
	Spokane	A.H.Cox & Co.
	Tacome	" " "
	Wenatchee	" " "

AMERICAN CHAIN & CABLE CO., INC.
Bridgeport 2
Connecticut

PRODUCTS: Wire Rope.

FACTORY BRANCHES

California	San Francisco	Manager	George F.Lehr
Colorado	Denver	"	Paul D.Steele

DISTRICT REPRESENTATIVES

California	Los Angeles	2216 S.Garfield Ave.	R.S.Heffner
Oregon	Portland	2210 NW Roosevelt St.	I.L.Schobert

DISTRIBUTORS

Arizona	Kingman	Terr McComb & Ware Commercial Co.
	Phoenix	Complete Auto & Home Supply Co.
	Tucson	" " "
California	Alturas	Moty & Van-Dyke, Inc.
	Bakersfield	Davies Machinery Co.
	Chico	Sierra Tractor & Equipment Co.
	Delano	Monley Equipment Co.
	"	Treanor Equipment Co.
	El Centro	Valley Auto Supply Co.
	Fresno	Levi's Iron & Metal Co.
	Grass Valley	Mine Machinery & Supply Co.
	Gridley	Sierra Tractor & Equipment Co.
	Henford	Davies Machinery Co.
	Long Beach	Herley Supply Co.
	Los Angeles	American Equipment & Body Co.
	"	Cable Distributors, Inc.
	"	Dinsmore Equipment Co.
	"	Gridley Equipment Co.
	"	Percival Steel & Supply Co.
	Oakland	Shepherd Tractor & Equipment Co.
	Porterville	C.W.Marvedel
	"	Porterville Tractor Co.
	Red Bluff	Treanor Equipment Co.
	Redding	Sierra Tractor & Equipment Co.
	Riverside	" " "
	Sacramento	Braman-Dickerson Co.
	San Diego	Sacramento Valley Tractor Co.
	"	Drake & Bullen
	"	Industries Supply Co.
	"	C.F.Bulotti Machinery Co.
	"	C.W.Marvedel
	San Francisco	Havilside Co.
	"	Tractor & Equipment Co.
	"	Hensen Equipment Co.
	San Leandro	Marine Hardware Co., Inc.
	Santa Maria	Geiger Iron Works, Inc.
	San Pedro	Treanor Equipment Co.
	Stockton	" " "
	Tulare	Western Auto Supply Co.
	Visalia	Willow Creek Logging Supply
	Weaverville	Barber Sales Co.
	Willow Creek	Tomkins Hardware Co.
Colorado	Alamosa	Constructors Equipment Co., Inc.
	Creede	Ray Carson Machinery Co.
	Denver	Industrial Supply Co.
	"	Power Equipment Co.
	"	Prefabricators, Inc.
	"	Joe Smith Machinery Co.
	"	Tri-State Equipment Co.
	Durango	Graham Hardware Co.
	Grand Junction	Pacific & Western Industrial Supply
	Sterling	Mid Continent Supply Co.
	Trinidad	Gullitch Implement & Supply Co.
Idaho	Bolse	Kovellis & Richards
	Billings	Great Northern Tool & Supply Co.
	"	Hall-Perry Machinery Co.
	"	Nash-Davis Machinery Co.
	Bozeman	Montana Motor Supply, Inc.
	Butte	Hall-Perry Machinery Co.

Continued next page

C.I.T. CORPORATION

660 Market Street, San Francisco 416 West 8th Street, Los Angeles
Equitable Building, Portland

AMERICAN CHAIN & CABLE CO., INC (CONTINUED)

Chester	Hall-Perry Machinery Co.
Cut Bank	Great Northern Tool & Supply Co.
Glendive	Quenrud, Brink & Reibold Co. of Montana
Great Falls	Hall-Perry Machinery Co.
Helena	A.M. Holter Hardware Co.
Kalispell	Ind. Supply Div. of Forest Products Co.
Kevin	Great Northern Tool & Supply Co.
Livingston	Montana Motor Supply, Inc.
Missoula	Hall-Perry Machinery Co.
Nevada	James Cashman
Las Vegas	Sanford Tractor & Equipment Co.
Reno	R.J. Harrison Co., Inc.
New Mexico	Union Industrial Corp.
Albuquerque	Mild Continent Supply Co.
Carlsbad	Clove & Cowan, Inc.
Farmington	Moyle & Van Dike, Inc.
Roswell	" " "
Oregon	Klamath Falls
Lakeview	Goch Logging Supply Co.
Lyons	" " "
Philomath	Active Equipment Co.
Portland	Marshall-Wells Co.
Roseburg	Triangle Logging Supply, Inc.
Sweet Home	Goch Logging Supply Co.
Utah	Geo. A. Lo Company
Ogden	Alhambra Hardware Co.
Provo	National Equipment Co.
Washington	Salt Lake City
Seattle	Hulse Machinery Co.
Spokane	Jensen-Byrd Company
Tacoma	Cab & Craft Engineering Co.
Wyoming	Central Supply Co.
Casper	Great Northern Tool & Supply Co.
"	Mid Continent Supply Co.
"	Wortham Machinery Co.
Cheyenne	Nash-DeVilz Machinery Co.
Greybull	Frontier Supply Co.
Kemmerer	" " "
Rock Springs	Wortham Machinery Co.
Sheridan	" " "

THE AMERICAN COLEMAN CO.
301 South Nevada
Littleton, Colorado

PRODUCTS: Front Drive Truck Axles; All Wheel Drive Trucks;
All Wheel Drive Specialized Tractors; Prime Movers.

DISTRIBUTORS

California	Berkeley	Work Hoist & Body Co.
	Los Angeles	American Equipment & Body Co.
Colorado	Denver	American-Coleman Co.
Idaho	Bonneville	The Lang Co.
Montana	Billings	HCL Equipment Co.
New Mexico	Albuquerque	Winter Weiss Co. of New Mexico
Oregon	Portland	Rudy Yost Truck Equipment Co.
Utah	Salt Lake City	The Lang Co.
Washington	(Portland)	Rudy Yost Truck Equipment Co.

AMERICAN HOIST & DERRICK CO.
63 South Robert Street
St. Paul 1, Minnesota

PRODUCTS: Derricks; Hoists; Blocks & Sheaves; Crosby Clips;
Portable Material Elevators; Carpellers; Tractor-
winches; Crawler & Rubber Mounted Cranes; Shovels;
Backhoes and Draglines.

DISTRICT MANAGERS

California	Long Beach	6138 E. Tanglewood	H.L. Lindberg
	Washington	9052 E. Shorewood	R.H. Lampman
DISTRIBUTORS			
Arizona	Phoenix	Nell B. McGinnis Co.	
California	Los Angeles	Cook Bros. Equipment Co.	
	San Francisco	Coast Equipment Co.	
"	"	Thomas A. Short Co.	
Colorado	Denver	Constructors Equipment Co., Inc.	
Idaho	Bonneville	The Sawtooth Co.	
Montana	Billings	Hall-Perry Machinery Co.	
"	"	" " " " "	
Great Falls	" " " " "	" " " " "	
Missoula	" " " " "	" " " " "	
New Mexico	Albuquerque	Contractors Equipment & Supply Co.	
Oregon	Portland	Andrews & Andrews Equipment	
Utah	Salt Lake City	The Lang Co.	
Washington	Seattle	A.H. Cox & Co.	
	Spokane	Andrews Machinery of Washington, Inc.	
Wyoming	Cheyenne	Wilson Equipment & Supply Co.	

AMERICAN TRACTOR EQUIPMENT CORP.
9131 San Leandro Blvd.
Oakland 3, California

PRODUCTS: Outside Mounted and Inside Mounted Dozers; Road-
builders (Anale Blade); Hydraulic Scrapers; Front End
Loaders; Tractor Mounted Rock Rippers.

DISTRIBUTORS

See your local Crawler Tractor Distributor.

AMERICAN TRACTOR CORPORATION
Churubusco
Indiana

PRODUCTS: Crawler Tractors; Analedozers; Bulldozers; Loaders;
Scarfiers; Snow Plows.

REGIONAL SALES MANAGER

Montana Billings 35 Lewis St. G.A.W.Bell

REGIONAL SERVICE MANAGER

California Burlingame 1510 Forest View John Varner

DISTRIBUTORS

California	Berkeley	West Coast Engine & Equipment Co.
	Los Angeles	Electric Tool & Supply Co.
Colorado	Denver	Western Machinery Co.
Oregon	Portland	Northern Industries, Inc.
Utah	Salt Lake City	Western Machinery Co.
Washington	Spokane	Northern Industries, Inc.

ANTHONY COMPANY
Streator
Illinois

PRODUCTS: Hydraulic Hoists and Dump Bodies for Motor Trucks.

DISTRIBUTORS

Arizona	Phoenix	Auto Safety House
California	Los Angeles	Lambert Co., Ltd.
	Oakland	C & C Trailer & Body Co.
Colorado	Denver	Winter-Weiss Co.
Montana	Billings	Eaton Metal Products Co.
New Mexico	Albuquerque	Winter-Weiss Co.
Oregon	Portland	Northwest Truckstell Sales, Inc.
Utah	Salt Lake City	Utah Truck Equipment Co.
Washington	Seattle	Nelson Truck Equipment Co., Inc.
	Spokane	Critzer Equipment Co.

ARMCO DRA INAGE & METAL PRODUCTS, INC.
Middletown
Ohio

PRODUCTS: Corrugated Metal Pipe; End Sections; Spiral Welded Steel
Pipe; Metal Retaining Walls; Guardrail, Structural
Plate Pipe; Arches and Pipe Arches; Steel Buildings;
Pile Sheets and Caissons; Steel Pipe Piles; Water
Control Gates; Flume; Steel Liner Plate; Steel Sheetings;
Corrugated Metal Bridge Plank.

WESTERN SALES ORGANIZATION

Arizona	Phoenix	C.J. Sturm	State Sales Mgr.
California	Berkeley	M.H. Bailey	District Sales Mgr.
	Los Angeles	J.E. Kunkler	District Sales Mgr.
Colorado	Denver	Rov Grant	Div. Sales Manager
Idaho	Boise	R.S. Shriver	Sales Engineer
Montana	Billings	J.B. Deen	State Sales Mgr.
New Mexico	Albuquerque	A.A. Mosher	Div. Sales Manager
Oregon	Portland	D.J. Stoker	State Sales Mgr.
	Salem	George Schwarz	Sales Mgr.
Utah	Salt Lake City	F.R. Randle	Sales Mgr-Utah-Idaho
Washington	Olympia	R.E. Bodwell	State Sales Mgr.
Wyoming	Casper	F.D. Aelits	Sales Engineer

ARROW TOOLS, INC.
1900 So. Kosher Ave.
Chicago 23, Illinois

PRODUCTS: Pneumatic Accessory Tools; Chisels; Star Drills;
Rivet Sets; Steel Erection Tools; Safety Chisel
Retainers for Chipping and Riveting Hammers; Air
Line Filters & Lubricators.

DISTRIBUTORS

Arizona	Phoenix	Superior Equipment Co.
	"	Western Machinery Co.
California	Los Angeles	American Pneumatic Tool Co., Inc.
	"	Air Power Tools, Inc.
Colorado	Oakland	Paul Berkeley Equipment & Supply Co.
	Denver	Gundersen & Taylor Machinery Co.
Wyoming	Casper	Wyoming Automotive Co.

ADVERTISING TO THE CONSTRUCTION INDUSTRY OF THE WEST AND
ALASKA IS A REGIONAL JOB—

- Construction needs, problems and practices are different
- The West's construction problems differ from those in the rest of the U.S., but are common to the whole western region
- Western contractors are regional operators—many work on projects anywhere in the West; most cross state borders continually

—AND WESTERN CONSTRUCTION IS ONE PUBLICATION THAT COVERS
ALL THE WEST

**C. I. T. specializes in financing equipment
for Distributors and Contractors**

ATHEY PRODUCTS CORPORATION
5631 West 65th Street
Chicago 38, Illinois

PRODUCTS: Rubber-Tired Dump Trailers; Force-Feed Loaders; Dump and Hauling Tractor Wagons; MobiLoaders; Portable Breaker Units; Forged-Trak Wheels.

DISTRIBUTORS

Arizona	Phoenix	Arizona Machinery Co.
	Yuma	Braden Machinery Co.
California	Blythe	Hennen Machinery Co.
	Chico	Sierra Tractor & Equipment Co.
	Colusa	I.G.Zunwalt Company
	El Centro	Feare Tractor & Equipment Co.
	Eureka	Brizard-Matthews Machinery Co.
	Fresno	Budd & Quinn, Inc.
	Hanford	Davies Machinery Co.
	Los Angeles	Shepherd Tractor & Equipment Co.
	Marysville	Marysville Tractor & Equipment Co.
	Merced	Halton Tractor Co.
	Modesto	Valley Tractor & Equipment Co.
	Napa	Berglund Tractor & Equipment Co.
	Oxnard	Wallace Machinery Co.
	Riverside	Johnson Tractor Co.
	Sacramento	Weaver Tractor Co.
	Salinas	Pringle Tractor Co.
	San Diego	San Diego Tractor & Equipment Co.
	San Jose	Dill Bros.
	San Leandro	Peterson Tractor & Equipment Co.
	Santa Maria	Joseph G.Moore Co.
	Stockton	Holt Bros.
	Visalia	Treanor Equipment Co.
Colorado	Denver	McCoy Company
	Bolte	Bunting Tractor Co., Inc.
	Idaho Falls	Parkinson Tractor Co.
	Lewiston	Nez Perce Tractor & Equipment Co.
Montana	Billings	Nash-Davis Machinery Co.
	Great Falls	Central Machinery Co.
	Missoula	Westmont Tractor & Equipment Co.
	Sidney	Tractor & Equipment Co.
Nevada	Reno	Sanford Tractor & Equipment Co.
	Las Vegas	James Cashman Co.
New Mexico	Albuquerque	R.L.Harrison Co., Inc.
Oregon	Klamath Falls	Crater Lake Machinery Co.
	Le Grande	Inland Machinery Co.
	Pendleton	Empire Machinery Co.
Utah	Portland	Interstate Tractor & Equipment Co.
	Logan	Peterson Tractor Service
Washington	Salt Lake City	Wheeler-Kershaw Co.
	Seattle	Collins Machinery Co.
	Spokane	Northern Commercial Company
	Tacoma	Murphy-Campbell Co.
	Walla Walla	Braden Tractor & Equipment Co., Inc.
	Yakima	Webb Tractor & Equipment Co.
	Wenatchee	Columbia Tractor Co. of Wenatchee
Wyoming	Cheyenne	Wortham Machinery Company

ATLAS SCRAPER & ENGINEERING CO.
6203 Maywood Avenue
Bell, California

PRODUCTS: Farm Equipment; Two-way Plows; Land Levelers; Grade-Makers; Scrapers; Rippers; Dozers and Levelers for small Tractors; Sub-Soilers.

SEE YOUR LOCAL TRACTOR DEALER

AUSTIN-WESTERN COMPANY
601 N.Farnsworth Avenue
Aurora, Illinois

PRODUCTS: Power Graders; Road Rollers; Street Sweepers; Hydraulic Cranes.

DISTRICT MANAGERS

California	San Francisco	33 Clementina St.	J.E.Huber
	"	"	Fred Bourquin, Asst.
Colorado			
Colorado	Denver	6815 W. 14th St.	W.E.Chapman
DISTRIBUTORS			
Arizona	Phoenix	Shriver Machinery Co.	
California	Los Angeles	Smith Booth Usher Co.	
	San Francisco	Edward R.Bacon Co.	
Colorado	Denver	Liberty Trucks & Parts Co.	
Idaho	Bolte	Engineering Sales Services, Inc.	
Montana	Billings	Western Construction Equipment Co.	
	Great Falls	"	"
	Missoula	"	"
Nevada	Reno	C.D.Roeder Equipment Co.	
New Mexico	Albuquerque	N.C.Ribble Co.	
Oregon	Portland	Columbia Equipment Co.	
Utah	Salt Lake City	Western Machinery Co.	
Washington	Seattle	Columbia Equipment Co.	
Wyoming	Casper	Kermel Tractor & Equipment Co.	
	Cheyenne	"	"

BADGER MACHINE COMPANY
1124 West Fifth Street
Winona, Minnesota

PRODUCTS: Hpto Digger; Badger Trencher.

SALES REPRESENTATIVE

Oregon Salem 3290 Portland Rd. Joseph J.Tandek

DISTRIBUTORS

California	Los Angeles	Calweld, Inc.
	Sacramento	Island Equipment Co.
Colorado	Denver	King & East Machinery Co.
Montana	Billings	Cal'd Engineering Works
	Helena	"
	Kalispell	Mountain Tractor Co.
	Missoula	"
Oregon	Portland	Nelson Equipment Co.
Utah	Salt Lake City	Arnold Machinery Co.
Washington	Seattle	Air-Mac, Inc.
	Spokane	Andrews Equipment Service of Wash., Inc.
	Casper	Western Equipment Co.

THE BAKER-LULL CORPORATION
314 W.90th Street
Minneapolis 20, Minnesota

PRODUCTS: Shoveloaders; Tilting-Tower Universel Loaders; Hydra-Sweepers; 4-Wheel Drive Shoveloaders; Model 20 Shoveloaders.

DISTRICT MANAGERS

California Los Angeles 1428 12th Ave. Frank Larkin
Oklahoma Tulsa 1125 E.36th St. Walter Reed

DISTRIBUTORS

Arizona	Cottonwood	Western Welding & Sales (C)
	Little Rock	Arkansas Equipment Co., Inc. (C)
	Phoenix	Arizona Equipment Sales, Inc. (B)
	"	O.S.Stapley Company (E)
	"	Superior Equipment Co. (A)
	"	Western Machinery Co. (C)
California	Bakersfield	Motor Truck Sales & Service (B)
	Bishop	J.S.Otley (A)
	Berkeley	West Coast Envelope & Equipment Co. (E)
	Chico	Cal-Bulte Tractor Company (B)
	Colton	Condor Tractor Company (B)
	Escondido	Willis Tractor & Equipment Co. (B)
	Eureka	Gustafson Tractor Company (B)
	Fresno	Jim Ingle Company (B)
	"	Reynolds Equipment Co. (A)
	Lakeport	Stone Diesel & Supply Co. (D)
	Los Angeles	Malvin W.Praher (A)
	"	Casey-McCalf Machinery Co. (C)
	"	Electric Tool & Supply Co. (A)
	Merced	Essick Machinery Company (E)
	Napa	Polzine Farm Equipment (B)
	Redding	Warner-Ritz Tractor & Equipment Co. (B)
	Sacramento	Lowry Equipment Co., Inc. (B)
	"	Equipment Sales & Service Co. (A,E)
	Salinas	Flood Equipment Company (B)
	San Bernardino	Ashton Equipment Company (B)
	San Diego	Electric Tool & Supply Co. (A)
	San Francisco	Willis Tractor & Equipment Co. (B)
	"	Coast Equipment Co. (C)
	"	Contractors Machinery Co. (A)
	San Jose	Lofano & Ross Tractor & Equipment Co. (A)
	"	Mech. Farm Eq. Dist., Inc. (B)
	San Leandro	Tractor & Equipment Co. (B)
	Stockton	Equipment Sales & Service Co. (A,E)
	"	H & M Tractor Company (B)
Colorado	Ukiah	Ranzhaf Farm Machinery Co. (B)
	Whittier	Turner and Chapin, Inc. (B)
	Denver	Hunderson-Taylor Machinery Co. (C,E)
	"	Liberty Truck & Parts Co. (A,B)
	Pueblo	Mutual Machinery Co. (C)
	"	Engineering Sales Service, Inc. (B,E)
	"	The Sawtooth Company (C)
	Cottonwood	Sharline Equipment Company (A)
	Leviston	Idaho Clearac Sales Co. (B)
	"	" (B)
Montana	Billings	Montana Powder & Co., (A)
	"	Western Construction Eq. Co. (B)
	Butte	Montana Powder & Equipment Co. (A)
	Great Falls	Central Machinery Company (C)
	"	Montana Powder & Equipment Co. (A)
	Helena	Cruskey Motors (C)
	Kalispell	Modern Equipment Co. (C)
	"	Tractor & Equipment Co. (C)
	Miles City	Montana Powder & Equipment Co. (A)
	Missoula	Missoula Mercantile Company (C)
	"	Western Construction Equipment Co. (B)
	"	Farmers Machy. & Supply Co. (E)
	"	Jenkins & Albright (A)
	Reno	Serra Machinery Co., Inc. (C)
	"	Contractors Equipment & Supply Co. (C)
	"	N.C.Ribble Company (B)
	New Mexico	Hilton's, Inc. (A)
	Albuquerque	Loggers & Contractors Machy Co. (A,E)
	"	Columbia Equipment Co. (A)
	"	Contractors Equipment Corp. (C)

Don't miss next page

C. I. T. CORPORATION

660 Market Street, San Francisco
Equitable Building, Portland
416 West 8th Street, Los Angeles

THE BAKER-LULL CORPORATION (CONTINUED)

Utah	N. Salt Lake	Taylor Machinery Company (C)
	Salt Lake City	Arnold Machinery Company (B,E)
"	"	Available Allen Agencies (D)
"	"	Foulger Equipment Company (A)
Washington	Olympia	Pacific Hoist & Derrick Co. (B)
Puget Sound	"	" " " (B,E)
Centralia	"	" " " (B,E)
Seattle	"	" " " (B,E)
"	"	Modern Machinery Co., Inc. (C)
Spokane	"	Star Machinery Co. (A)
	"	Inland Diesel & Machinery Co. (B)
"	"	Modern Machinery Co., Inc. (C)
"	"	Northwest Sheppard Diesels (D)
"	"	Star Machinery Company (A)
Walla Walla	"	Melcher-Ray Machinery Co. (B)
Wenatchee	"	Central Tractor & Equipment Co. (B)
Casper	"	Worthington Machinery Co. (A)
Cheyenne	"	" " (A)
Rock Springs	"	" " (A)
Sheridan	"	" " (A)

NOTE: A Indicates Case equipment
 B " Oliver equipment
 C " Minneapolis-Moline equipment
 D " Sheppard Diesel equipment
 E " 4-Wheel Drive Shovelhoe account

THE BAKER MANUFACTURING CO.,
10th and Stanford Avenue
Springfield, Illinois

PRODUCTS: Bulldozers; Gradebuilders; Power Control Units;
 Road Rippers; Disc Attachments; Sheepfoot Rollers
 and Snow Plows (Both Truck and Allis-Chalmers
 Motor Graders).

DISTRIBUTORS

Arizona	Phoenix	Neill B. McGinnis Co.
California	Bakersfield	San Joaquin Tractor Co.
	Eureka	Aikins Tractor Co.
	Los Angeles	Shaw Sales & Serv. Co.
	Oakland	Buran Equipment Co.
Colorado	Stockton	Moore Equipment Co.
Idaho	Denver	Powers Equipment Co.
Montana	Idaho Falls	Southern Idaho Equipment Co.
	Billings	Settlers Machinery Co.
	Missoula	Mountain Tractor Co.
	Sidney	Richland Machinery Co.
Nevada	Eldo	A. D. Machinery Co.
New Mexico	Albuquerque	Harry Cornelius Co.
	Roswell	Smith Machinery Co., Inc.
Oregon	The Dalles	Dielesehders Equipment Ore., Ltd.
	Eugene	Paper Brothers
	Medford	Hooper Tractor Co.
	Portland	World Tractor Co.
Utah	Salt Lake City	Cate Equipment Co.
Washington	Seattle	A.H. Cox & Co.
	Spokane	American Machine Co.
Wyoming	Casper	Studer Tractor & Equipment Co.

BALDWIN-LIMA-HAMILTON CORP.,
South Main Street
Lima, Ohio

PRODUCTS: Shovels; Cranes; Draglines; Pull-Shovels; Truck
 Cranes.

FACTORY BRANCH

Washington Seattle 1932 1st Ave. So. W.D. Haley, Mgr.

FACTORY REPRESENTATIVES

California	Burlingame	1452 Drake Ave.	Ralph Rogers, Asst. Mgr.
	Glendale	1445 Cordova Ave.	T.A. Griffin, Dist. Mgr.

DISTRIBUTORS

Arizona	Phoenix	Shriver Machinery Co.
California	Eureka	McGarraghan Supply Co.
	Los Angeles	Smith-Booth-Usher Co.
	Oakland	Bay Cities Equipment, Inc.
Colorado	Denver	Paris-Moritz Equipment Co.
Idaho	Bolse	Feeneyauhy Machinery Co.
New Mexico	Albuquerque	Contractors Equipment & Supply Co.
Oregon	Klamath Falls	Cascade Industrial Supply, Inc.
	Portland	Feeneyauhy Machinery Co.
Utah	Salt Lake City	Heiner Equipment & Supply Co.
Washington	Seattle	Modern Machinery Co.
	"	Western Tractor & Equipment Co.
	Spokane	Modern Machinery Co.

WESTERN CONSTRUCTION EDITORIAL MATERIAL
 SERVES ALL THE WEST — IT IS BALANCED GEOGRAPHICALLY
 AND JOB-WISE OVER THE ELEVEN WESTERN STATES AND ALASKA

BALDWIN-LIMA-HAMILTON CORP.,
South Main Street
Lima, Ohio

PRODUCTS: Austin-Western Washing, Screening and Crushing
 Equipment.

FACTORY REPRESENTATIVES

California	San Francisco	33 Clementina St. J.E. Huber
Colorado	Denver	6387 W. Ohio St. Paul Hawkinberry

DISTRIBUTORS

Arizona	Phoenix	Shriver Machinery Co.
California	San Francisco	Western Machinery Co.
	"	Edgar R. Paxton Company
Colorado	Denver	Smith-Booth-Usher Co.
Idaho	Boise	Liberty Trucks & Parts Co.
New Mexico	Albuquerque	Columbia Equipment Co.
Oregon	Portland	N.C. Ribble Co.
Utah	Salt Lake City	Columbia Equipment Co.
Washington	Seattle	Heiner Equipment Co.

BARBER-GREENE COMPANY
400 North Highland Ave.,
Aurora, Illinois

PRODUCTS: Asphalt Plants; Belt Conveyors; Ditchers; Bituminous Mixers; Finishers; Bucket Loaders; Coal Handling Equipment.

WESTERN FACTORY OFFICE

California	San Mateo	Area Sales Mgr. E.L. Benson
	"	Area Serv. Mgr. Harry Jackson

DISTRIBUTORS

Arizona	Phoenix	State Tractor & Equipment Co.
California	Los Angeles	Brown-Bevis Industrial Equipment Co.
	"	Coast Equipment Co.
Colorado	Denver	Mines Engr. & Equip. Co. (Conveyors only)
Idaho	Boise	Ray Corson Machinery Co.
Montana	Billings	Columbia Equipment Co.
	Missoula	Western Construction Equipment Co.
Nevada	Reno	Sierra Machinery Co.
New Mexico	Albuquerque	Contractors Equipment & Supply Co.
Oregon	Portland	Columbia Equipment Co.
Utah	Salt Lake City	Kimball Equipment Co.
	"	Mine & Smelter Supply Co.
Washington	Seattle	Columbia Equipment Co.
	Spokane	" " "
Wyoming	Cheyenne	Keremi Tractor & Equipment Co.
	Casper	" " "

BARCO MANUFACTURING CO.,
500-530 No. Hough St.
Barrington, Illinois

PRODUCTS: Rammers — for earth compaction; Portable Gasoline Hammers; Portable Gasoline Rock Drills; Portable Gasoline Tytampers.

DISTRIBUTORS

Arizona	Phoenix	D.W. Jequays
California	Los Angeles	Fornaciari Co.
	San Francisco	C.H. Bull Co.
Colorado	Denver	Ray Corson Machinery Co.
Montana	Billings	Great Northern Tool & Supply Co.
New Mexico	El Paso, Texas	Francis Wagner Co.
Oregon	Portland	Contractors Equipment Corp.
Utah	Salt Lake City	Arnold Machinery Co.
Washington	Seattle	Jack Sahlberg Equipment Co.
	Spokane	Blackwell-Coleman Equipment Co.

CONSTRUCTION MACHINERY DIVISION
BARNARD & LEAS MFG. CO., INC.,
1200-34 Twelfth St., S.W.
Cedar Rapids, Iowa

PRODUCTS: Elevating Grader Attachment to mount on Galion Motor Grader.

DISTRIBUTORS

Arizona	Phoenix	Arizona Cedar Rapids Co.
California	Tucson	F.R. Ronstadt Hardware Co.
Bakersfield	"	Brown-Bevis Industrial Equipment Co.
Los Angeles	"	" " "
San Francisco	"	" " "
Colorado	Denver	Western Traction Co.
Idaho	Boise	H.W. Moore Equipment Co.
Montana	Billings	Hall-Perry Machinery Co.
	Bulie	" " "
	Great Falls	" " "
Nevada	Reno	General Equipment Co.
New Mexico	Albuquerque	Lively Equipment Co.
Oregon	Portland	P.L. Crooks & Co., Inc.
Utah	Salt Lake City	Arnold Machinery Co.
Washington	Seattle	Modern Machinery Co.
	Spokane	" " "

C. I. T. finances installment sales
 of equipment for many Distributors

BARNES MANUFACTURING CO.
651 N. Main Street
Mansfield, Ohio

PRODUCTS: Self-Priming Pumps; Hi-Pressure Pumps; Fire Pumps;
Power Take-Off Pumps for Trucks and Tractors;
Jetting Pumps; Petroleum Pumps.

FACTORY BRANCH

California Oakland 680 Hegenberger Rd. William Stillwell

SALES REPRESENTATIVES

California Los Angeles 1726 Hollman Ave. Harold Feldstein
Oakland 680 Hegenberger Rd. Walter L. Davis
Washington Seattle 809A Term. Sales Bldg Wm. A. Matzke, Jr.

DISTRIBUTORS

Alaska Anchorage	Craig Taylor Equipment & Supply Co.
Arizona Phoenix	Submersible Pump Co.
California Berkeley	Central Equipment Co.
Fresno	Fresno Pump & Supply Co.
Los Angeles	Larson Equipment Co.
Redding	Laury Equipment Co.
San Francisco	The Rix Company, Inc.
Idaho Boise	Western Equipment Co.
Oregon Klamath Falls	Moty & Van Dyke
Portland	Mitchell, Lewis & Stauer
Washington Seattle	Cascade Machinery Co.
"	Doug Equipment Co.
Spokane	Star Machinery Co.
Yakima	Rankin Equipment Co.

ARTHUR C. BAUMAN CO.
7011-21 Grays Ave.
Philadelphia, Penna.

PRODUCTS: Complete line of portable heating units, oil fired
and L-P gas fired.

BAUGHMAN MANUFACTURING COMPANY
Shipman Road
Jerseyville, Illinois

PRODUCTS: Portable Conveyors; Stationary Conveyors; Belt and
Bucket Elevators; Car Unloaders; Undertruck Car
Unloaders; Stationary Screw Conveyors and Portable
Screw Conveyors.

DISTRIBUTORS

Arizona Manana	Manana Equipment, Inc.
Phoenix	Western Machinery Co.
Yuma	Beeler Thomas Implement, Inc.
California Berkeley	Berkeley Industrial Supply Co.
La Habra	I.J. Cool Company
Oakland	Brenner-Norman, Inc.
"	Monarch Truck Equipment Co.
Tulare	Mill Engineering & Supply Co.
Montana Billings	Jim Ingle Company
Great Falls	Industrial Equipment Co.
Helena	Normont Equipment Co.
Kalispell	Cald Engineering Works
New Mexico Albuquerque	Treasure State Equipment Co.
Oregon Amity	Harry Cornelius Co.
Utah Salt Lake City	Burlington Meeker Lime Co.
Washington Seattle	Lund Machinery Company
Spokane	Air-Mac, Inc. of Washington
	American Machine Company

BAY CITY SHOVELS, INC.
Bay City
Michigan

PRODUCTS: Power Shovels and Cranes, Crawler and Pneumatic
Tire Mounted.

DISTRIBUTORS

Arizona Phoenix	Western Machinery Co.
California Los Angeles	Brown-Bevins Industrial Equipment Co.
Richmond	Bay Equipment Co.
Idaho Boise	Feebaugh Machinery Co.
Montana Helena	Rock Hand & Co.
Oregon Portland	Feebaugh Machinery Co.
Utah Salt Lake City	Foulger Equipment Co.
Washington Seattle	Feebaugh Machinery Co.
Spokane	"

The WESTERN CONSTRUCTION Annual Highways Issue, published
each year in June, is a yearbook of progress in Western highway
design, construction methods and costs. Advertisers in this spe-
cial issue gain extra reader interest.

BEEBE BROS.
2724 Sixth Avenue South
Seattle 4, Washington

PRODUCTS: Hand Hoists and Winches.

DISTRIBUTORS

Arizona Phoenix	McConkey-Docker & Co.
Colorado Denver	Arizona Hardware Co.
Idaho Boise	Hendrie & Boltoff Co.
Montana Billings	Gate City Steel, Inc.
Butte	Coeur d'Alene Hardware & Foundry Co.
Great Falls	Great Northern Tool & Supply Co.
Helena	Montana Hardware Company
Missoula	Carl Weissman & Sons, Inc.
Miles City	Montana Powder & Equipment Co.
New Mexico Albuquerque	Missoula Mercantile Co.
Utah Oden	Tractor & Equipment Co.
Salt Lake City	M & F Equipment Co.
" "	Geo. A. Lowe Company
" "	Industrial Supply Co., Inc.
" "	Mine & Smelter Supply Co.
" "	Salt Lake Hardware Co.
Wyoming Sheridan	Sheridan Iron Works, Inc.

BE-GE MANUFACTURING COMPANY

P.O. Box B-1
Gilroy, California

PRODUCTS: Hydraulic Scrapers; Drag Scrapers; Trenchers; Log
Turners; Power Control Units.

SALES REPRESENTATIVES

Arizona Phoenix	P.O. Box 2414	Richard Pasman
Oregon Portland	4908 NE 57th Ave.	Harold Bennett

DISTRIBUTORS

Arizona Phoenix	Arizona Machinery Co.
"	The O.S. Stapley Co.
California Yuma	Braden Tractor Co.
Berkeley	Cousins Tractor Co.
"	San Joaquin Tractor Co.
El Centro	Faura Tractor & Equipment Co.
Fresno	Purdy Holmqvist Co.
Hanford	Allied Equipment Co.
"	Cousins Tractor Co.
"	J.H. Degnan, Inc.
Lancaster	Jim Ingle Co.
Merced	Shepherd Tractor & Equipment Co.
Modesto	Hilton Tractor Co.
Oxnard	Valley Tractor & Equipment Co.
Sacramento	Stanislaus Implement & Hardware
Salinas	L.G. Maulhardt Equipment Co.
San Diego	Weaver Tractor Co.
" "	Pringle Tractor Co.
San Jose	San Diego Tractor & Equipment Co.
Santa Maria	Southern Equipment & Supply Co.
Stockton	Valley Equipment Co.
"	Joseph G. Moore Co.
Tulare	Holt Brothers
Visalia	Moore Equipment Co.
Colorado Denver	Jim Ingle Co.
"	Treador Equipment Co.
Billings	McCoy Company
"	Wortham Machinery Co.
Butte	Selfe Machinery Co.
Sidney	Central Machinery Co.
"	Tractor & Equipment Co.
Nevada Reno	Northland Machinery Co.
"	Sanford Tractor & Equipment Co.
Las Vegas	James Coshman
New Mexico Albuquerque	Hilton's, Inc.
Oregon Portland	J.D. Coopins & Co.
"	R.L. Harrison Co.
Utah Oden	Rus Chamberlin Co.
Salt Lake City	Ogden Implement Co.
" "	The Lang Co.
Washington Seattle	Wheeler-Kershaw Co.
Cheyenne	Calkins Manufacturing Co.
Wyoming	Wortham Machinery Co.

BETHLEHEM PACIFIC COAST STEEL CORP.

20th & Illinois Streets
San Francisco, California

PRODUCTS: Bethlehem Wire Rope

WESTERN SALES OFFICES

Los Angeles	6000 S. Boyle Ave.	L.J. Soracco, Mgr. of Sales
San Francisco	20th & Illinois St.	F.J. Anderson, " " "
Portland	508 Pacific Bldg.	L.S. Kuhn, " " "
Seattle	3631 E. Marginal Way	H.E. Gray, " " "
Honolulu	State Sav & Loan Bldg.	J.F. Moody, Sales Agent

DISTRIBUTORS

Alaska Anchorage	Northern Supply Co.
Arizona Douglas	Phelps Dodge Mercantile Co.
Phoenix	Smith Pipe & Steel Co. "
California Clovis	Potts Bros. Transmission & Equip. Co.
Fresno	Federal Pipe & Supply Co.

Continued next page

C. I. T. CORPORATION

660 Market Street, San Francisco
Equitable Building, Portland

416 West 8th Street, Los Angeles

WESTERN CONSTRUCTION HANDBOOK

MANUFACTURERS' SECTION

BETHLEHEM PACIFIC COAST STEEL CORP. (CONTINUED)

Los Angeles Bethlehem Supply Co. of California (Stocking Wire Rope); Long Beach, Avenal, Taft, Bakersfield, Ventura, Castaic, San Maria.
 " " Gilmore Steel & Supply Co.
 Monterey Triangle Steel Supply Co.
 Oakland Tice Electrical Co.
 Redding Jos. T. Ryerson & Son
 San Bernardino Gerlinger Steel & Supply Co.
 San Diego Miller's Steel
 San Francisco Nuttall-Styrs Co.
 " Cincotta Bros.
 " General Machinery & Supply Co.
 " Gilmore Steel & Supply Co.
 " Harbor Supply Co.
 " Pedley-Knowles & Co.
 " Schou Gallis Co.
 " Weeks-Hove-Emerson Co.
 San Jose San Jose Steel Co., Inc.
 San Pedro Linen Thread Co.
 Saugus Ranchers Supply Co.
 Stockton Guntner & Zimmerman
 Torrance Dresser Equipment, Ideco Div.
 Ukiah Holz Co.
 Idaho Wilmington Llewellyn Supply Co.
 Boise Sawtooth Co.
 Mullan Bitco, Inc.
 Pocatello Paul Roberts Co.
 Montana Butte Butte Machinery Co.
 " Brookings B & H Logging Supply Co.
 Corvallis Roesser's Supply Co.
 Eugene Coast Cable Co.
 " Oregon Supply Co.
 Lebanon Hosking Loggers Supply
 Medford Cal-Ore Machinery Co.
 Pendleton Pendleton Grain Growers Assn.
 Portland Horner Steel Products
 " Mallory Logging Equipment Co.
 " Northwest Steel Co.
 " Woodbury Co.
 Utah Salem Mill Supply Co.
 Washington Salt Lake City Cafe Equipment Co.
 Chehalis F.G. Foster Co.
 Derrington Derrington Hardware & Supply, Inc.
 Everett Everett Hardware Co.
 Hoquiam E.G. Foster Co.
 Raymond " " "
 Seattle B & J Equipment Co.
 " Pacific Marine Supply Co.
 " Peterson Wholesale Hardware Co.
 Shelton Lumberman's Mercantile Co.
 Spokane Bitco, Inc.
 " General Machinery Co.
 Tacoma J.D. English Co.
 Wenatchee E.T. Pybus Co.
 " Columbia Tractor Co.

THE BLACK & DECKER MFG. CO.

Towson 4
Maryland

PRODUCTS: Portable Electric Drills; Saws; Screwdrivers; Nut Runners; Tappers; Shears; Bench Grinders; Die Grinders; Portable Grinders; Sanders; Buffers; Hammers; Glue Pots; Industrial Vacuum Cleaners; Valve Refacers; Valve Seat Grinders; Wire Wheel Brushes; Attachments and Supplies.

FACTORY BRANCHES

California Los Angeles 2432 S. Broadway L.C. Kaefer
 San Francisco 4343 Third St. Paul Pounds
 Colorado Denver 1010 Bannock St. J.D. Klinedinst
 Oregon Portland 1640 NW Johnson P.W. Lund
 Washington Seattle 434 8th Ave. N. P.W. Lund

DISTRICT SALES MANAGERS

California Los Angeles 2432 S. Broadway A.S. Boehm
 Colorado Denver 1010 Bannock St. W.L. Poynter

ADVERTISING TO THE CONSTRUCTION INDUSTRY OF THE WEST AND ALASKA IS A REGIONAL JOB—

- Construction needs, problems and practices are different
- The West's construction problems differ from those in the rest of the U.S., but are common to the whole western region
- Western contractors are regional operators—many work on projects anywhere in the West; most cross state borders continually

—AND WESTERN CONSTRUCTION IS ONE PUBLICATION THAT COVERS ALL THE WEST

BLAW-KNOX EQUIPMENT DIVISION of Blaw-Knox Company Blaw-Knox, Pennsylvania

PRODUCTS: Heavy Steel Forms for Tunnels & Dams; Road and Airport Paving Forms; Bins & Batching; Concrete Batch Plants; Central Mixing Plants; Bulk Cement Storage Plants; Concrete Paving Spreaders & Finishers; Pan Type Vibrators & Tamper Attachments for Finishers & Spreaders; Precision Subgraders; Curb & Gutter & Sidewalk Forms; Truckmixers & Agitators; Road Wideners & Base Pavers; Clamshell Buckets for Construction & Industrial Services; Grapples for Pulpwood, Rock Handling; Railroad Ties & Incinerator Services; Manually Operated & Air Operated Concrete Buckets.

WESTERN SALES OFFICE

California San Francisco 681 Market St. PH: YU 2-1569

WEST COAST MANAGER.....J.P. Cullen

DISTRIBUTORS

Arizona	Phoenix	The O.S. Shapley Co.
California	Oakland	C.H. Grant Co.
	Los Angeles	Shaw Sales & Service
Colorado	Denver	Colorado Builders Supply Co.
Idaho	Bolse	Intermountain Equipment Co.
Montana	Missoula	Treasure State Equipment Co.
New Mexico	Albuquerque	Lively Equipment Co.
Oregon	Portland	Contractors Equipment Corp.
Utah	Salt Lake City	Foulger Equipment Co.
Washington	Seattle	Star Machinery Co.
	Spokane	Northern Commercial Co. (Alaska)
Wyoming	(Denver)	Star Machinery Co.
		Colorado Builders Supply Co.

BODINSON MANUFACTURING CO.

2401 Bayshore Blvd.
 San Francisco 24, Calif.

PRODUCTS: Batchers; Bins; Car Pullers; Conveyors; Crushing Plants; Elevators; Gravel Plants; Mixing Plants; Rock & Sand Dryers; Screens; Screening Plants; Storage Bins; Weighing Batchers.

BRANICK MANUFACTURING COMPANY, INC.

1213 NP Avenue
 Fargo, North Dakota

PRODUCTS: Tire Handling Equipment; Tire Spreaders; Air Service Jacks; Truck Tire Changers; Truck Tire Removers; Curing Rims; Tire Rack Racks; Three-Way Valves.

DISTRIBUTORS

Arizona	Phoenix	Phoenix Auto Supply Co.
California	Tucson	Motor Supply Co.
	Los Angeles	Balloon Tire Mould Co.
Oakland		Union Rubber Co.
Sacramento		Sacramento Wheel Service
San Diego		San Diego Motor Parts
San Francisco		Gurleyton Company
Colorado	Denver	Hendrie & Bolthoff
	"	The McGee Company
Montana	Billings	Neil Vandepas & Sons
	Hebre	Valley Motor Supply Co.
Nevado	Reno	Nevada Auto Supply
New Mexico	Las Cruces	Cruces Motor Parts
Oregon	Portland	Russ Chamberlin Co.
Utah	Salt Lake City	Tire Shop Supply Co.
Washington	Seattle	Automotive Parts & Equipment Co.
	"	Ballou & Wright

BRIGGS & STRATTON CORPORATION

2711 North 13th Street
 Milwaukee 1, Wisconsin

PRODUCTS: 4-Cycle, Air Cooled Engines.

WESTERN DISTRICT SUPERVISOR

California Van Nuys 5442 Alcott Ave. Woodrow J. Markley

WESTERN DISTRICT SERVICE ENGINEER

Washington Bellevue 10255 NE 21st Pl. Carl E. Peterson

DISTRIBUTORS

Arizona	Phoenix	Motor Supply Co.
	Tucson	" "
California	Los Angeles	Electric Equipment Co.
	San Francisco	Frank Edwards Co.
Colorado	Denver	Spitzer Electrical Co.
Montana	Billings	Original Equipment, Inc.
New Mexico	Albuquerque	Spitzer Electrical Co.
Oregon	Portland	Tracey & Co., Inc.
Utah	Salt Lake City	Frank Edwards Co.
Washington	Seattle	Sunset Electric Co.
	Spokane	" "

**C. I. T. specializes in financing equipment
for Distributors and Contractors**

BRISCOE MANUFACTURERS OF CALIFORNIA, INC.
(Formerly E.V. Briscoe & Son)
P.O. Box 118
Kerman, California

PRODUCTS: Canal Ditchers and Slopers.

DISTRIBUTORS

(No Distributors; all distribution handled by factory office through dealers).

BRODERICK & BASCOM ROPE CO.
4203 Union Blvd.
St. Louis 15, Missouri

PRODUCTS: Wire Rope and Slings.

FACTORY BRANCHES

California	Los Angeles	Manager	R.H. Boeg
	San Francisco	"	J.E. Carmichael
Oregon	Portland	"	H.E. Tucker
Washington	Seattle	"	T. Verhoef

DISTRIBUTORS

Arizona	Phoenix	Arizona Machinery Co.
California	Colusa	I.G. Zumwalt Company
	Fresno	Contractors Equipment & Supply Co.
	Sacramento	Weaver Tractor Co.
	San Diego	Winn Supply Co.
	San Francisco	Calif. Industrial Supply Co.
Colorado	Stockton	Hoff Bros.
Idaho	Denver	Mine & Smelter Supply Co.
	Boise	Starline Equipment Co.
	Idaho Falls	Perkinson Tractor Co.
Montana	Levinson	Nez Perce Tractor & Equipment Co.
	Billings	Seitz Machinery Co.
	Helena	Calif Engineering Works
	Miles City	Tractor & Equipment Co.
	Sidney	Westmont Tractor & Equipment Co.
Oregon	Baker	Richland Machinery Co.
	Bend	Bosche-Sage Hardware Co.
	Coquille	Moly & Van Dyke, Inc.
	The Dalles	Enlund Equipment Co.
	Eugene	Diehschneider Equipment Co.
	John Day	Moly & Van Dyke, Inc.
	Lebanon	" " "
	Medford	Hubbard Bros., Inc.
	Pendleton	Empire Machinery Co.
	Portland	Wood Tractor Co.
	Roseburg	Industrial Supply Co.
Utah	Salt Lake City	Wheeler-Kershner Co.
Washington	Aberdeen	I.G. Isaacson Co.
	Bellingham	Industrial Supply Co.
	Everett	Greenshields Industrial Supply Co.
	Spokane	Byrne-Ferris Machinery Co.
	Tacoma	Murphy-Campbell Co.
	Walla Walla	Braden Tractor & Equipment Co.
	Yakima	Webb Tractor & Equipment Co.

BROOKS EQUIPMENT & MANUFACTURING CO.
2018 Davenport Road, S.E.
Knoxville, Tennessee

PRODUCTS: Brooks Load Lugger and Detachable Containers; Day Rock Crusher (jaw type); Day Pulverizer (swing hammermill); Brooks Refuse Disposal System; Brooks Reel Handling Units.

DISTRIBUTORS

California	Los Angeles	Glenn A. Marshberger Co.
	San Francisco	Elder & Company
Colorado	Denver	H.M. Ralfe Company
Texas	El Paso	E.D. Flournoy
Washington	Seattle	Howard-Cooper Corp.
	Spokane	General Machinery Co.

WM. BROS. BOILER & MANUFACTURING CO.
1057 - Tenth Avenue S.E.
Minneapolis 14, Minnesota

PRODUCTS: Medium Tamers and Giant Tamers; 7, 10, 35, 50 and 100 Ton Pneumatic Tired Rollers; Circulators; Distributors; Snow Plows; Spray Bars; Cement Block Loaders; All Steel Rollers; Sidewalk, Parking Lot, Highway, Airport and Railroad Rotary Snow Plows; Steam Generators.

SALES REPRESENTATIVE

Colorado	Denver	1410 Spruce St.	O.G. Hollimon
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DISTRIBUTORS

Arizona	Phoenix	Arizona Equipment Sales, Inc.
California	Concord	Jack Fingland Equipment Co.
	Los Angeles	Coast Co.
	San Francisco	Coast Equipment Co.
Colorado	Denver	McKelvy Machinery Co.
Idaho	Bolse	Western Equipment Co.

Continued next column

WM. BROS. BOILER & MANUFACTURING CO. (CONTINUED)

Montana	Billings	Seitz Machinery Co.
	Great Falls	Central Machinery Co.
	Kalispell	Mountain Tractor Co.
	Sidney	Tractor & Equipment Co.
Nevada	Reno	Sierra Machinery Co.
New Mexico	Albuquerque	Harry Cornelius Co.
Oregon	Portland	Nelson Equipment Co.
Utah	Salt Lake City	Foulger Equipment Co.
	" "	Heller Equipment & Supply Co.
Washington	Seattle	Nelson Equipment Co.

BROWNING MANUFACTURING CO.

111 Humble Avenue

San Antonio 6, Texas

PRODUCTS: BMO-C-Pneumatic Tired Rollers 9 to 50 tons; Sheep Foot Rollers; BMO Traveling Rock Buster.

DISTRIBUTORS

Arizona	Phoenix	Neil B. McGinnis Equipment Co.
California	Bakersfield	San Joaquin Tractor Co.
	Oakland	C.H. Grant Co.
Colorado	Denver	Constructors Equipment Co.
Idaho	(Salt Lake)	Western Machinery Co.
Montana	" "	" "
New Mexico	Albuquerque	N.C. Ribble Company
	Roswell	Smith Machinery Co.
Oregon	Portland	Contractors Equipment Corp.
Utah	Salt Lake City	Western Machinery Co.
Washington	(Portland)	Contractors Equipment Corp.
	Seattle	Reliance Equipment Co. & Supply
Wyoming	(Denver)	Constructors Equipment Co.

BRUNNER & LAY, INC.

2425 E. 37th Street

Los Angeles 58, Calif.

PRODUCTS: Carbide Rok Bits; Intra-Set Drill Steel; Drill Steel; Moll Points; Clay Spades; Paving Breaker Tools; Clay Digger and Chipping Hammer Tools.

DISTRIBUTORS

Arizona	Phoenix	Equipment Sales Co.
	"	Superior Equipment Co.
	"	D.W. Jaegers
California	Fresno	Western Machinery Co.
	"	Edward R. Bacon Co.
	Los Angeles	Contractors Equipment & Supply Co.
	" "	Larson Equipment Co.
	" "	Mine & Mill Machinery Co.
	" "	Pneumatic Machinery Co.
	Sacramento	Smith-Booth-Usher Co.
	"	Edward R. Bacon Co.
	San Diego	Western Traction Co.
	" "	Gould Hardware & Machinery Co.
	San Francisco	Hudson Equipment Corp.
	" "	Edward R. Bacon Co.
	" "	George M. Lipoff Co.
	" "	Western Traction Co.
Nevada	Las Vegas	West Coast Engine & Equipment Co.
	Reno	Inland Service & Supply Co.
New Mexico	Albuquerque	Sierra Machinery Co.
	"	Lively Equipment Co.
	"	Contractors Equipment & Supply Co.

BRUNNER & LAY CORPORATION

Westland Division

660 N. Tillamook Street

Portland 12, Oregon

PRODUCTS: Carbide Rok Bits; Intra-Set Drill Steel; Drill Steel; Moll Points; Clay Spades; Paving Breaker Tools; Clay Digger and Chipping Hammer Tools.

DISTRIBUTORS

Canada	Calgary	Ferguson Alberta Supply
	Edmonton	Pardue Equipment Co.
	Vancouver	C.R.D. Company
Hawaii	Honolulu	American Factors
Idaho	Bolse	Engineering Sales & Service
	"	Idaho Bit & Steel Co.
	"	Intermountain Equipment Co.
	"	Sawtooth Company
	"	Western Bearings Co.
	"	Western Equipment Co.
	Idaho Falls	Arnold Machinery Co.
	"	Southern Idaho Equipment Co.
	Pocatello	Intermountain Equipment Co.
	"	Western Bearings Co.
	"	Seitz Machinery Co.
	Billings	Western Construction & Equipment Co.
	"	Butte Machinery Company
	Butte	Hall Perry Machinery Co.
	"	" "
	Great Falls	Calif Engineering Works
	Heleno	Montana Powder & Equipment
	"	Miller Machinery Co.
	Missoula	Enlund Equipment Co.
	Coquille	Coos Bay Supply Co.

Continued next page

C. I. T. CORPORATION

660 Market Street, San Francisco
416 West 8th Street, Los Angeles
Equitable Building, Portland

BRUNNER & LAY CORPORATION (CONTINUED)

Eugene Howard-Cooper Corp.
" Loggers & Contractors Machinery Co.
Klamath Falls Woodbury Company
" Cascade Industrial Supply Co.
La Grande Klamath Powder & Equipment Co.
Medford Industrial Machinery & Supply
North Bend Cal-Ore Machinery Co.
Pendleton Oregon Pacific Company
Portland Empire Machinery Co.
" Andersen Machinery Co.
" Andrews & Andrews Machinery Co.
" Balzer Machinery Co.
" Clyde Equipment Co.
" Contractors Equipment Co.
" P.L.Crooks & Company
" Howard-Cooper Corp.
" Lacey Supply Company
" Loggers & Contractors Machinery Co.
" Nelson Equipment Co.
" George M.Philpott Company
" Rogers Machinery Company
" Senter Tools Service
" Woodbury Company
Reedsport Reedsport Logging Supply
Roseburg Howard-Cooper Corp.
Sweet Home Gooch Logging Supply
Utah Salt Lake City Rocky Mountain Machinery Co.
Washington Bellingham Morse Hardware Co.
" Industrial Supply Co.
Everett Everett Hardware
Keweenaw Charles E.Hansen
Seattle Bow Lake Equipment Co.
" Clyde Equipment Co.
" A.H.Cox & Company
Seattle Gardner-Denver Co.
" Pacific Northwest Industries
" Universal Equipment Co.
Spokane Andrews Equipment Service
" Bitco, Inc.
" Blackwell Coleman
" Construction Equipment Co.
" Rental Equipment Company
" Western Machinery Co.
" Modern Machinery Co.
Wyoming Rock Springs Wortham Machinery Co.

BUCURUS-ERIE COMPANY
South Milwaukee
Wisconsin

PRODUCTS: Shovels; Cranes; Draglines; Hydrocranes; Hydrohoes.

WESTERN BRANCH OFFICES

California So.San Francisco Manager J.H.Sackett
Washington Seattle R.P.Brooks

DISTRIBUTORS

Arizona Phoenix State Tractor & Equipment Co.
California Bakersfield Crook Company
Berkeley West Coast Engine & Equipment Co.
Los Angeles Crook Company
Colorado Denver Colorado Builders Supply Co.
Idaho Boise Intermountain Equipment Co.
" Pocatello " " "
Montana Billings Great Northern Tool & Supply Co.
Kalispell Westmont Tractor & Equipment Co.
Missoula " " "
Nevada Reno Nevada Equipment Service, Inc.
New Mexico Albuquerque R.L.Harrison Company
Carlsbad The Border Machinery Co.
Oregon Portland Clyde Equipment Co.
Utah Salt Lake City The Long Company
Washington Seattle Clyde Equipment Co.
" Northern Commercial Co.
Spokane Intermountain Equipment Co.

THE BUDA COMPANY
154th & Commercial Ave.,
Harvey, Illinois

PRODUCTS: Earth Drills.

DISTRIBUTORS

California Los Angeles Fornaciari Company
San Francisco Coast Equipment Co.
Colorado Denver Ray Corson Machinery Co.
Idaho Boise The Sawtooth Company
Montana Billings Western Construction Equipment Co.
Nevada Reno Sierra Machinery Co.
New Mexico Albuquerque Contractors Equipment & Supply Co.

PRODUCTS: Material Handling Equipment; Industrial Tractors;
Fork Lift Trucks; Burden Carrying Platform Trucks;
Lifting Jacks.

DISTRIBUTORS

Arizona Phoenix Arizona Equipment Sales, Inc.
California Albany H.E.Bolsford Company
Los Angeles Pacific Lift Corporation

continued next column

THE BUDA COMPANY (CONTINUED)

New Mexico Albuquerque Industrial Supply Co.
Washington Seattle Materials Handling, Inc.

PRODUCTS: Diesel and Gasoline Engines and Power Units; Diesel and Gasoline Engine Generator Sets; Lifting Jacks.

FACTORY REPRESENTATIVE

Utah Salt Lake City District Repr. Porter Martin

FACTORY BRANCH MANAGER

California San Francisco 470 Bayshore C.H.Riding

DISTRIBUTORS

Arizona Phoenix Arizona Equipment Sales, Inc.
California Bakersfield Anderson-Bevier Co., Inc.
Fresno Utility Trailer Sales Co.
Long Beach Anderson-Bevier Co., Inc.
Los Angeles " "
San Francisco Buda Engine & Equipment Co., Inc.
Colorado Denver B.K.Sweeney Company
Grand Junction " "
New Mexico Albuquerque Industrial Supply Co.
Oregon Portland Hamilton Engine Sales, Inc.
T.B.Cook Engine Co.
Utah Salt Lake City Motor Mercantile Co.
Washington Seattle Northwest Motor Parts & Mfg. Co.
Wyoming Casper Power Service Company

BUFFALO-SPRINGFIELD ROLLER CO.

1210 Kenton Street
Springfield, Ohio

PRODUCTS: Self-Propelled Road Rollers and Heavy Compaction Units.

WESTERN DISTRICT REPRESENTATIVE

Utah Salt Lake City 526 13th St. Ben E.Lingenfelter

DISTRIBUTORS

Arizona Phoenix State Tractor & Equipment Co.
California Los Angeles Crook Co.
Oakland Spears-Wellis Machinery Co.
Colorado Denver Ray Corson Machinery Co.
Idaho Boise Intermountain Equipment Co.
Montana Helena Steffek Equipment Co.
Nevada Reno Sierra Machinery Co.
New Mexico Albuquerque R.L.Harrison Co.
Oregon Portland Cramer Machinery Co.
Utah Salt Lake City Wheeler-Kershaw Co.
Washington Seattle Clyde Equipment Co.
Wyoming Cheyenne Intermountain Equipment Co.
Wortham Machinery Co.

THE BURCH CORPORATION
324 So. Thoman Street
Crestline, Ohio

PRODUCTS: Snow Plows; Road Building and Maintenance Equipment.

DISTRIBUTORS

Arizona Phoenix O.S.Slapley Company
California Los Angeles Harron-Rickard & McCone Co.
San Francisco Coast Equipment Co.
Colorado Denver Ray Corson Machinery Co.
Idaho Boise The Sawtooth Company
Montana Butte Hall-Perry Machinery Co.
New Mexico Albuquerque R.L.Harrison Co.
Nevada Reno General Equipment Co.
Oregon Portland Contractors Equipment Co.
Utah Salt Lake City Arnold Machinery Co.
Washington Seattle Jack Sahlberg Equipment Co.
Wyoming Cheyenne Kereml Tractor & Equipment Co.

WESTERN CONSTRUCTION
COVERS THE ENTIRE WEST

And it is the one publication that does

Western Construction is read by more contractors and engineers, the men who buy equipment for Western jobs, than any other construction magazine. Why not present your sales message in this magazine? Western contractors work all over the West as a region, disregarding state lines, and Western Construction follows them wherever they go. What makes the West different from any other section of the country? Western job sites are often remote and hard to get to, projects are larger and more complex, and contractors must save on labor costs. Therefore, the number of pieces of equipment used on each job is higher in the West. If your equipment saves labor, you can sell it in the West.

**C. I. T. finances installment sales
of equipment for many Distributors**

BUTLER BIN COMPANY
945 Blackstone Avenue
Waukesha, Wisconsin

PRODUCTS: Steel Storage Bins; Car Scoops; Vertical Bucket Type Elevators; Bin Gates; Sand and Gravel Plants; Weighting Hoppers; Concrete Mixing Plants; Rock and Gravel Storage Equipment; Storage Bins; Electric Vibrators; Weighting Batchers; Cement Aerator; Bin Indicator; Portable Concrete Hoppers.

DISTRIBUTORS

Arizona	Flagstaff	State Tractor & Equipment Co.
	Phoenix	" " " "
California	(Los Angeles)	Brown-Bevins Industrial Equipment Co.
	Los Angeles	" " " "
Colorado	Milbrey	H.L.Davis
Idaho	Denver	Constructors Equipment Co., Inc.
	Idaho Falls (Spokane)	Arnold Machinery Co.
Montana	Sidney	Construction Equipment Co.
Nevada	(Salt Lake)	Tractor & Equipment Co.
New Mexico	Albuquerque	Arnold Machinery Co.
	NET Peso	Brown-Bevins Industrial Equipment Co.
Oregon	Portland	Contractors Equipment & Supply Co.
Utah	Salt Lake City	Clyde Equipment Co.
Washington	Seattle	Arnold Machinery Co.
	Tacoma	" " " "
	Spokane	Construction Equipment Co.
	(Portland)	Clyde Equipment Co.
Wyoming	Cheyenne (Salt Lake)	Worthington Machinery Co.
		Arnold Machinery Co.

BYERS MANUFACTURING COMPANY
Sycamore and Spruce Streets
Ravenna, Ohio

PRODUCTS: Shovels; Cranes; Draglines and Trenchers; Crawler type and rubber mounted.

DISTRIBUTORS

California	San Francisco	FWD Pacific Co.
Oregon	Portland	Cramer Machinery Co.
Montana	Missoula	R.S.Brinkeroff

C & D MANUFACTURING CO.
Perkins
California

PRODUCTS: Movall Wagon - Rock and Dirt Wagon to be used with DW 20 and DW21 Caterpillar Rubber-Tired Tractor.

DISTRIBUTORS

Distributed through Caterpillar dealers.

RALPH B. CARTER CO.,
192 Atlantic Street,
Hackensack, New Jersey

PRODUCTS: PUMPS: Self-Priming Centrifugal, Diaphragm, Pressure, Jetting and Irrigation - Gasoline, Diesel and Electric Driven.

REPRESENTATIVES

Oregon	Portland	MI-Van Co.	324 SE Main St.
	(N.Cal., Idaho, Oregon and Washington)		
Colorado	Denver	Harry J.Glass & Associates	P.O.Box 1085

DISTRIBUTORS

Arizona	Phoenix	Arizona-Ceder Rapids Co.
California	Bakersfield	Kern County Equipment Co.
	Los Angeles	Gridley Equipment Co.
Colorado	Denver	National Light & Pump Co.
Montana	Billings	Selitz Machinery Co., Inc.
New Mexico	Albuquerque	T-P Pump & Pipe Co.
Oregon	Portland	MI-Van Company
Utah	Salt Lake City	H.H.Nielsen Co.
Washington	Seattle	Western Tractor & Equipment Co.

- CARVER PUMP COMPANY
1056 Hershey Avenue
Muscatine, Iowa

PRODUCTS: Pumps: Self-Priming Centrifugal; Irrigation; Industrial; Diaphragm.

FACTORY BRANCH & WAREHOUSE

California	Long Beach	1530 W.12th St.	PH: 61-1258
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WESTERN REGION SALES MANAGER

California	Rolling Hills	26942 Buckskin Lane	Wm.A.McMahan
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DISTRIBUTORS

Arizona	Phoenix	Salt River Pump & Supply Co.
	"	O.S.Slepy Company

Continued next column

CARVER PUMP COMPANY (CONTINUED)

California	Bakersfield	San Joaquin Valley Tractor Co.
	Escondido	Means Irrigation Co., Inc.
	Fresno	Pacific Mill & Mine Supply Co.
	Los Angeles	Frederick Pump & Engineering Co.
	" "	Mine & Mill Machinery Co.
	Oakland	Shields Harper & Co.
	San Francisco	Shields Harper & Co.
Colorado	San Jose	Hubbard Machine & Equipment Co.
	Denver	Simonds Machinery Co.
	Pueblo	Western Pump Company
Montana	Billings	I.G.Downs Co., Inc.
	Helena	Bernfeld Brothers
	Missoula	Blacktop Construction Co.
	Roundup	Steffek Equipment Co.
New Mexico	Albuquerque	Folsom Company, Inc.
Oregon	Pendleton	Musselshell Valley Equipment Co.
	Portland	T-P Pump & Pipe Co.
Utah	Salt Lake City	Pendleton Grain Growers
	" "	Andrews & Andrews Equipment Co.
Washington	Seattle	Shields Harper & Co.
	Spokane	Cline Equipment Co.
	Yakima	Rossman Equipment & Supply Co.
Wyoming	Casper	Utilities Engineers
		Andrews Machinery of Washington, Inc.
		Shields Harper & Co.
		Blackwell-Coleman
		Crip King Company
		Casper Concrete Co.
		Gehring Equipment Co.

J.I.CASE COMPANY
700 State Street
Racine, Wisconsin

PRODUCTS: Wheel Type Tractors; Highway Mowers; Gasoline and Diesel Engines; Powerloaders.

FACTORY MANAGERS

California	Oakland	1933 Peralta St.	W.F.Carey
Oregon	Portland	2746 N.E.24th Ave.	R.E.Arnold

OTHER FACTORY PERSONNEL

California	Tarzana	District Mgr.	Harry R.Scott
Oregon	Portland		R.E.Arnold

DISTRIBUTORS

Arizona	Phoenix	Superior Equipment Co.
California	Chula Vista	Hassard Equipment Co.
	Fresno	Reynolds Equipment Co.
	Sacramento	Equipment Sales & Service
	San Francisco	Contractors Machinery Co.
	Los Angeles	Electric Tool & Supply Co.
	San Bernardino	" " " "
Colorado	Stockton	Equipment Sales & Service
	Denver	Liberty Truck & Parts Co.
Idaho	Bolse	Starline Equipment Co.
Nevada	Reno	Jenkins & Albright
Montana	Billings	Montana Powder & Equipment Co.
Oregon	Portland	Montana Powder & Equipment Co.
Utah	Helena	Columbia Equipment Co.
Washington	Seattle	Foulger Equipment Co.
	Spokane	Star Machinery Co.
Wyoming	Cheyenne	Wortham Machinery Co.
	Casper	" " " "
	Rock Springs	" " " "
	Sheridan	" " " "

CATAPHOTE CORPORATION
958 Wall Street
Toledo 10, Ohio

PRODUCTS: Catafine Reflective Striping Compounds - Both Premix and Drop-On; Cataflex Reflective Coating Kits; Highway Signs; Reflector Buttons; Delineators and Sign Accessories.

FACTORY BRANCHES

California	Los Angeles	Manager	Hundley Company
	Oakland		George L. Avery

DISTRIBUTORS

Arizona	Phoenix	Equipment Sales Company
California	Tucson	Ronstadt Hardware Co.
	San Francisco	Edward R. Bacon Company
Idaho	Boise	Engineering Sales & Service
	Pocatello	Intermountain Equipment Co.
New Mexico	Albuquerque	Lively Equipment Co.
	" "	C.E.Mitcham Company
Oregon	Portland	Columbia Equipment Co.
Utah	Salt Lake City	Lund Machinery Co.
Washington	Spokane	Modern Machinery Co.
	Cheyenne	Kereml Tractor & Equipment Co.

CONSTRUCTION IN THE WEST IS DIFFERENT—
ONLY WESTERN CONSTRUCTION SERVES ITS SPECIAL NEEDS, AND YOURS

C. I. T. CORPORATION

660 Market Street, San Francisco
Equitable Building, Portland

416 West 8th Street, Los Angeles

C. H. & E. MANUFACTURING CO.
3849 North Palmer Street
Milwaukee 12, Wisconsin

PRODUCTS: Portable Saw Rigs; Band Saws; Diaphragm Pumps; Self-Priming Centrifugal Pumps; Jetting Pumps; Piston Force Pumps; Triplex Force Pumps; Single & Double Drum Hoists; Plaster and Mortar Mixers; Bar Cutters; Bar Benders; Tandem Rollers; Trailers.

DISTRIBUTORS

Arizona	Phoenix	Equipment Sales Co.
California	San Francisco	Contractors Machinery Co.
	Los Angeles	Brown-Bevis Industrial Equipment Co.
Colorado	Denver	Mine & Smelter Supply Co.
Idaho	Boise	Columbia Equipment Co.
New Mexico	Albuquerque	N.C.Ribble Co.
Oregon	Portland	Columbia Equipment Co.
Utah	Salt Lake City	Golding Equipment Co.
Washington	Seattle	Columbia Equipment Co.

CHICAGO BRIDGE & IRON COMPANY
332 South Michigan Avenue
Chicago 4, Illinois

PRODUCTS: Digesters; Pulp; Holders; Gas; Penstocks; Refinery Towers; Oil; Saver; Marx; Smokestacks; Standpipes; Steel Forms; Steel Plate Work; Tanks; Acid; Tanks; Aluminum; Tanks; Elevated; Tanks; Flat Bottom; Tanks; Hemispherical; Tanks; Spherical; Tanks; Spheroidal; Pressure Vessels.

WESTERN PLANT

Utah Salt Lake City 555 W. 17th St. E.S. Fraser, Mgr.

WESTERN SALES MANAGERS

California	Los Angeles	Gen. Petro. Bldg.	Dean E. Stephan	
	San Francisco	200 Bush St.	L.A. Elsener	
	Washington	Seattle	1355 Henry Bldg.	R.A. Jackson

CHICAGO PNEUMATIC TOOL COMPANY
6 East 44th Street
New York 17, New York

PRODUCTS: Pneumatic and Electric Tools; Compressors; Rock Drills; Diesel Engines.

WESTERN FACTORY BRANCHES

California	Los Angeles	Manager	H.P. Hansen
	San Francisco	"	C.W. Scott
Colorado	"	Special Repr.	E.W. Karp
Utah	Denver	Manager	E.R. Goss
	Salt Lake City	Asst. Manager	O.L. Briggs
Washington	Seattle	Manager	R.S. McBeth

DISTRIBUTORS

Arizona	Phoenix	Western Machinery Co.
California	Fresno	Contractors Equipment & Supply Co.
	Los Angeles	Essick Machinery Co.
	San Diego	Shaw Sales & Service Co.
Colorado	Denver	Western Traction Co.
	"	Stearns-Roger Manufacturing Co.
	Cortez	Gunderson-Taylor Machinery Co.
Idaho	Idaho Falls	Stephens Machine & Tool Co.
Montana	Butte	Arnold Machinery Co.
Nevada	Great Falls	Hall-Perry Machinery Co.
	Las Vegas	Inland Service & Supply Co.
	Reno	Pioneer Equipment Co. of Nevada, Inc.
New Mexico	Albuquerque	N.C. Ribble Co.
Oregon	Portland	Balzer Machinery Co.
Utah	Salt Lake City	Woodbury & Co.
	"	Industrial Supply Co.
Washington	Bellingham	Arnold Machinery Co.
	Seattle	Western Tractor & Equipment Co.
	"	Phillpott Equipment Co.
	Spokane	Andrews Equipment Service of Washington
	Tacoma	Western Tractor & Equipment Co.

CHIKSAN COMPANY
330 N. Pomona Ave.
Area, California

PRODUCTS: Joints; Swivel Couplings; Swivel Monitors.

FACTORY BRANCHES

California	Brea	Western Reg. Sls. Mgr.	Robert T. Jones
	Oakland	District Mgr.	H. Stock

DISTRIBUTORS

Arizona	Phoenix	Cone & Wallace Co.
California	Oakland	Chiksan Company
Colorado	Denver	Well Equipment Manufacturing Corp.
Montana	Billings	"
New Mexico	Hobbs	"
Oregon	Portland	E.C. Griffin Co.
Utah	Salt Lake City	The Lang Company
Washington	Seattle	E.C. Griffin Co.

CHRYSLER CORPORATION
Marine & Industrial Engine Div.
2000 Van Horn Road
Trenton, Michigan

PRODUCTS: Gasoline Engines and Power Units.

REGIONAL MANAGER

California Los Angeles 5800 S. Eastern Ave., F.L. Harris

DISTRIBUTORS

California	Bakersfield	Wilson Engine & Equipment Co.
	Berkeley	West Coast Motors
	Sacramento	Dalton Motors, Inc.
Colorado	Denver	Hudson Equipment Co.
	"	Equipment Sales & Service
	Wilmington	Industrial & Marine Engines, Inc.
Colorado	Grand Junction	Hovry-Berg Steel & Iron Works, Inc.
Nevada	Reno	Sierra Machinery Co.
New Mexico	Albuquerque	Lively Equipment Co.
	Clovis	Ingram Brothers Pump Co.
	Roswell	Smith Machinery Co.
Oregon	Portland	National Supply Engine Corp.
Utah	Salt Lake City	Hafer's, Inc.
Washington	Seattle	Evans Engine & Equipment Co.
	Spokane	Andrews Equipment Service of Washington

CLARK EQUIPMENT COMPANY
Construction Machinery Division
574 Second Street
Benton Harbor, Michigan

PRODUCTS: "MICHIGAN" Tractor Shovels; "MICHIGAN" Excavator-Cranes.

DISTRICT MANAGER

California Long Beach 5929 Rosecray St. M.O. Nystrom

DISTRICT REPRESENTATIVES

California	Manhattan Beach	645 17th St.	D.W. Pedley
	Seattle	500 Wall St.	R.W. Lewis
		Apt. 913	

DISTRIBUTORS

Arizona	Phoenix	Western Machinery Co.
California	Los Angeles	Smith-Booth-Usher Co.
		Buran Equipment Co.
Colorado	Denver	Western Machinery Co.
Nevada	Reno	Sierra Machinery Co., Inc.
New Mexico	Albuquerque	Contractors Equipment & Supply Co.
Idaho	Boise	The Sawtooth Company
Oregon	Portland	Western Equipment Co.
Utah	Salt Lake City	Foulger Equipment Co.
Washington	Seattle	Western Tractor & Equipment Co.

CLEAVER BROOKS COMPANY
320 East Keefe Avenue
Milwaukee 12, Wisconsin

PRODUCTS: Steam Boilers; Mobile, Portable, Stationary; Tank Car Heaters; Bituminous Boosters; "Peak-Temp" Oil Boosters; "Deuce" Combination Tank Car Heater and Pumping Booster.

DISTRIBUTORS

Arizona	Phoenix	Arizona Cedar Rapids Co.
California	San Francisco	Western Traction Co.
	Los Angeles	Standard Steel Corporation
Colorado	Denver	H.W. Moore Equipment Co.
Idaho	Boise	Intermountain Equipment Co.
Montana	Pocatello	"
	Billings	Hall-Perry Machinery Co.
	Butte	"
	Great Falls	"
	Missoula	"
Nevada	Reno	Sierra Machinery Co.
New Mexico	Albuquerque	R.L. Harrison Co., Inc.
Oregon	Eugene	Howard-Cooper Corp.
	Portland	"
	Albany	"
	Central Point	"
	Coquille	"
	Newport	"
	Roseburg	"
Utah	Salt Lake City	Kimball Equipment Co.
Washington	Pasco	Intermountain Equipment Co.
	Seattle	Howard-Cooper Corp.
	Spokane	Intermountain Equipment Co.
Wyoming	Casper	Studer Tractor & Equipment Co.

13,000 WESTERN CONSTRUCTION READERS HAVE
THE AUTHORITY TO BUY OR TO INFLUENCE THE
PURCHASE OF CONSTRUCTION EQUIPMENT AND
SUPPLIES.

C. I. T. CORPORATION

660 Market Street, San Francisco
Equitable Building, Portland
416 West 8th Street, Los Angeles

CLEVELAND TRENCHER CO.
20109 St. Clair Avenue
Cleveland 17, Ohio

PRODUCTS: Backfiller; Backfill Tamper; Ditcher; Tamper; Trowel; Trencher.

DISTRIBUTORS

Arizona	Phoenix	Shriver Machinery Co.
California	San Francisco	Edward R. Bacon Co.
	Los Angeles	Smith-Booth-Usher Co.
Colorado	Denver	H.W. Moore Equipment Co.
Montana	Billings	Industrial Equipment Co.
	Great Falls	Normont Equipment Co.
New Mexico	Albuquerque	Treasure State Equipment Co.
Oregon	Portland	J.D. Coalgne Co.
Utah	Salt Lake City	Loggers & Contractors Machinery Co.
Washington	Spokane	Western Machinery Co.
Wyoming	Cheyenne	Keremi Tractor & Equipment Co.

CLIPPER MANUFACTURING CO.
2825 Warwick
Kansas City 8, Missouri

PRODUCTS: Masonry Saws; Concrete Saws; Diamond Blades; Abrasive Blades.

FACTORY BRANCH

California San Francisco 885 Bryant St. Robert M. Stubbs

SALES OFFICES

California	Los Angeles	440 Seaton St.	Ph: MU 4589
Washington	Seattle	Times Sq. Bldg.	Ph: EL 3070

CLYDE IRON WORKS, INC.
Duluth 1
Minnesota

PRODUCTS: Complete line of Construction and Material Handling Equipment.

DISTRIBUTORS

Arizona	Phoenix	State Tractor & Equipment Co.
California	Richmond	Bay Equipment Co.
	Los Angeles	Harron Rickard & McCone Co.
Colorado	Denver	Mine & Smelter Supply Co.
Idaho	Bolse	Intermountain Equipment Co.
Montana	Billings	Western Construction Equipment Co.
New Mexico	Albuquerque	Harry Cornelius Co.
Oregon	Portland	Clyde Equipment Co.
Utah	Salt Lake City	Mine & Smelter Supply Co.
Washington	Seattle	Clyde Equipment Co.
	Spokane	Intermountain Equipment Co.

COFFING HOIST COMPANY
804 Walter Street
Danville, Illinois

PRODUCTS: Electric Hoists; Ratchet Lever Hoists; Spur Gear Hoists; Differential Hoists; Low Head Room Hoists; Army Type - Extended Hand Wheel and Clevis Connected Spur Gear Hoists; "Hoist-Allie"; "Mighty Midget Pullers"; Utility Maintenance Tools; Load Binders.

DISTRICT SALES MANAGERS

California	Belmont	1300 Sunnyslope Av.	R.A. Ratcliff
Colorado	Denver	842 S. York St.	F.R. Elsner

DISTRIBUTORS

Distributors in all major cities.

COLBY STEEL & MANUFACTURING, INC.
3155 Elliott Avenue
Seattle 1, Washington

PRODUCTS: Custom Engineered Bridge, Gantry, Hammerhead, Luffing Boom, and Double Cantilever Cranes; Hydraulic and Electric Level-Luffing Shipboard Type Cargo Handling Cranes; Grab Bucket Unloaders; Marine Elevators; Automobile and Passenger Ramps.

IF YOU WANT TO—

- Sell, rent, lease or buy used equipment
- Fill or get a good job
- Advertise an auction
- Offer or obtain some special service

THEN it is to your advantage to use

THE CLASSIFIED SECTION OF WESTERN CONSTRUCTION

COLORADO FUEL & IRON CORP.
Continental Oil Building
Denver, Colorado

Wickwire Spencer Steel Division
Palmer
Massachusetts

PRODUCTS: Clinton Welded Wire Fabric; Cal-Tie Wire; Blades for Graders, Dozers, Scrapers, Carriers, Snow Plows; Wickwire Rope; Wire Rope Slings; Industrial Screens.

WICKWIRE ROPE DISTRIBUTORS

Alaska	Anchorage	Northern Supply Co.
	Ketchikan	Allied Industrial Equipment Co.
Arizona	Douglas	Phelps-Dodge Mercantile Co.
	Phoenix	Arizona Hardware Co.
	"	Lee Redman Equipment Co.
California	Arcata	Western Machinery Co.
	Bakersfield	Reliable Hardware Co.
	Boonville	Davies Machinery Co.
	Downey	Cutting Edge Supply Co.
	Fresno	Kyle & Company
	Glendale	Air Associates, Inc.
	Hayward	Hill Supply Co.
	Jackson	Splineff Brothers
	Long Beach	Bogby's Wire Rope & Spooling Service
	"	Cordage Supply Co.
	Los Angeles	A.M. Castle & Co.
	"	The Howard Supply Co.
	"	National Parts Distributors
	"	J.G. Tucker & Son
	Redding	Cascade Industrial Supply Co.
	Sacramento	Capitol Machine & Welding Works, Inc.
	"	Kyle & Company
	San Francisco	Bell Rigging Supply
	"	A.M. Castle & Co.
	"	Dunham, Carrigan & Hayden Co.
	"	A.J. Glesener Co.
	San Jose	Pacific Hardware & Steel Co.
	San Leandro	Peterson Tractor & Equipment Co.
	Santa Rosa	Reliable Hardware & Steel Co.
	Sonora	Tuolumne Foundry & Machine Works
	Stockton	Kyle & Company
	Ukiah	Reliable Mill Supply Co.
Colorado	Cripple Creek	Colorado Trading & Transfer Co.
	Denver	M.J. Crose Mfg. Co., Inc.
	"	Houston Oil Field Material Co.
	"	T.C. Koogal & Son
	"	Lucey Products Corp.
	"	McDonald Equipment Co.
	Grand Junction	Union Supply Company
	"	McDonald Equipment Co.
	"	Salt Lake Hardware Co.
	Loveland	Western States Supply Co.
	Pueblo	S.W. Pressey & Son
	"	Mutual Machinery Co.
Idaho	Boise	Sargent Engineering Co.
	"	Salt Lake Hardware Co.
	Idaho Falls	Southern Idaho Equipment Co. of Boise
	Kalispell	Southern Idaho Equipment Co.
	Missoula	Treasure State Equipment Co.
	Twin Falls	"
	"	"
Montana	Glendive	Krenge's, Inc.
	Great Falls	Southern Idaho Equipment Co.
	Helena	Southwest Supply Co.
	Sidney	Western Oil Tool & Supply Co.
	Elko	Central Machinery Co.
	Las Vegas	"
New Mexico	Albuquerque	"
	"	"
	Artesia	Mayhew Machine & Supply
	"	A-D Machinery Co.
Oregon	Farmington	Las Vegas Building Materials
	"	Brown Pipe & Supply
	Hobbs	Harry Cornelius Co.
	Silver City	Allied Supply Co.
	Eugene	Iverson Supply Co.
	Grants Pass	Beacon Supply Co.
	Klamath Falls	Fuller Equipment
	Portland	E.C. Cosgrove, Inc.
	"	Pine-Fir Logging Supply
Texas	Reedsport	Cascade Industrial Supply, Inc.
Utah	El Poco	"
	Salt Lake City	A.W. Davis Supply Co.
	"	Feenaygah Machinery Co.
	"	Westfall Equipment Co.
	"	Reedsport Logging & Supply Co.
	"	Ponsford Equipment Co.
	"	Foulger Equipment Co.
	"	Salt Lake Hardware Co.
	Price	Zion's Cooperative Mercantile Inst.
Washington	Aberdeen	Iverson Supply Co.
	Challis	Western Machinery Exchange Co.
	Colville	W.J. Graham Implement Co.
	Everett	Cole Equipment Co.
	Forks	Hold Hardware Co.
	Olympia	Ulin Maintenance & Supply Co.
	Seattle	Olympia Supply Co.
	"	Port Lake Equipment Co.
	"	A.M. Castle & Co.
	"	Seattle Marine & Fishing Supply Co.
	"	Marine & Industrial Supply Co.
	"	Modern Machinery Co.
	"	Schwabacher Hardware Co.
	"	Seaboard Supply Co.

Continued next page

C. I. T. finances installment sales of equipment for many Distributors

COLORADO FUEL & IRON CORP. (CONTINUED)

Sequim	Sequim Lumber & Supply Co.
Spokane	Broadway Splicing Shop
"	Modern Machine Co.
Tacoma	Paramount Supply Co.
Wyoming	Foothills Supply Co.
Casper	Houston Oil Field Material Co.
"	Mayhew Machine & Supply
"	Southwest Supply Co.
"	Western Oil Tool & Supply Co.
Worland	Western Oil Tool & Supply Co.
"	Worland Machine Co.

COLUMBIA-GENEVA STEEL
DIVISION UNITED STATES STEEL CORP.
1403 Russ Building
San Francisco 6, California

PRODUCTS: Steel & Steel Products; Tiger Brand Wire Rope; Aerial Tramways, Cableways and Light Suspension Bridges.

DISTRICT OFFICES

California	Los Angeles	District V.P.	F.S. Howard
	"	"	R.H. Madden
Colorado	San Francisco	Manager Sales	J.B. Black, Jr.
Oregon	Denver	"	M.B. Harrison
Utah	Portland	"	L.S. Brock
Washington	Salt Lake City	District V.P.	M.H. Freedman
	Seattle	"	"

DISTRIBUTORS

Arizona	Douglas	Phelps Dodge Mercantile Co.
	Flagstaff	Babbitt Brothers Trading Co.
	Phoenix	Arizona Hardware Co.
		Equipment Sales Co.
	Tucson	Albert Steinfield & Co.
California	Avenal	Oil Well Supply Co.
	Bakersfield	Tay-Holbrook, Inc.
	Berkeley	"
	Brawley	Imperial Hardware Co.
	Calexico	"
	El Centro	"
	Eureka	Fred E. Barnett Co.
	Fresno	Tay-Holbrook, Inc.
	Indio	Imperial Hardware Co.
	Long Beach	Oil Well Supply Co.
	Los Angeles	Brown-Bevis Industrial Equipment Co.
	"	B & T Industrial Supply Co.
	"	Drilling & Mining Equipment Co.
	"	Harper & Reynolds Corp.
	"	Hickey Pipe & Supply Co.
	"	Oil Well Supply Co.
	"	R.J.M. Co.
	"	Triangle Steel & Supply Co.
	"	Union Hardware & Metal Co.
	N. Sacramento	Fred E. Barnett Co.
	Oakland	Tay-Holbrook, Inc.
	Redding	Gerlinger Steel & Supply Co.
	Reno	Tay-Holbrook, Inc.
	Sacramento	The Thompson-Diggs Co.
	Salinas	Tay-Holbrook, Inc.
	San Carlos	C.J. Hendry Co.
	San Diego	Fred E. Barnett, Inc.
	San Francisco	C.J. Hendry Co.
	"	Honolulu Iron Works Co.
	"	Tay-Holbrook, Inc.
	San Jose	C.J. Hendry Co.
	San Pedro	Tay-Holbrook, Inc.
	Santa Rosa	Austin Brothers
	Stockton	Tay-Holbrook, Inc.
	Taft	Oil Well Supply Co.
Idaho	Ventura	"
	Boise	Idaho Hardware & Plumbing Co.
	"	Olson Manufacturing Co.
	Idaho Falls	Southern Idaho Equipment Co.
	Leviston	Southern Idaho Equipment Co.
	Pocatello	Erb Hardware Co.
	Twin Falls	Paul Roberts
	Las Vegas	Southern Idaho Equipment Co.
Nevada	Reno	Las Vegas Machine & Engineering Co.
Oregon	Albany	J.R. Bradley Co.
	Astoria	Howard-Cooper Corp.
	Central Point	Fisher Bros. Co.
	Coos Bay	Interstate Tractor & Equipment Co.
	Coquille	Howard-Cooper Corp.
	Eugene	American Steel & Supply Co.
	"	Howard-Cooper Corp.
	Grants Pass	Interstate Tractor & Equipment Co.
	Klamath Falls	Redwoods Supply Co.
	McMinnville	Fred E. Barnett Co.
	Philomath	Interstate Tractor & Equipment Co.
	Portland	Lacey Supply Co.
	"	American Steel Warehouse Co.
	"	Fred E. Barnett Co.
	"	Contractors Equipment Co.
	"	J.E. Haseltine & Co.
	"	Howard-Cooper Corp.
	"	Interstate Tractor & Equipment Co.
	"	Lower Bros. Splicing Service
	"	Star Drilling Machine Co.
	"	Woodbury Co.

Continued next column

COLUMBIA-GENEVA STEEL (CONTINUED)
DIVISION UNITED STATES STEEL CORP.

Prineville	Prineville Machine & Supply Co.
Roseburg	Douglas Supply Co.
"	Howard-Cooper Corp.
Salem	Interstate Tractor & Equipment Co.
"	"
The Dalles	Salem Steel & Supply Co.
Utah	Interstate Tractor & Equipment Co.
Helper	Carbon Transfer & Supply Co.
Hurricane	Scholzen Products Co.
Salt Lake City	The Salt Lake Hardware Co.
Washington	Morse Hardware Co.
Bellingham	F.G. Foster Co.
Chehalis	Agnew Hardware Co.
Everett	F.G. Foster Co.
Houqua	Interstate Tractor & Equipment Co.
Longview	F.G. Foster Co.
Raymond	Glenn Carrington
Seattle	Fisherles Supply Co.
"	J.E. Haseltine & Co.
"	Lines, Inc.
"	Chas. H. Rasmussen & Co.
Spokane	Joseph T. Ryerson & Son
"	Marshall-Wells Co.
Tacoma	Joseph T. Ryerson & Son
Yakima	Hunt & Mottet Co.
	Yakima Hardware Co.

THE COMMERCIAL SHEARING & STAMPING CO.

Box 719
Youngstown 1, Ohio

PRODUCTS: Tunnel Lining Products; Oil Hydraulic Controls; Heavy Steel Stampings and Forgings.

PLANTS

Ohio	Youngstown	1775 Logan	H.S. Thompson
Utah	Salt Lake City	P.O. Box 2036	John R. Hagan

THE CONCRETE SURFACING MACHINERY CO.

4665 Spring Grove Avenue
Cincinnati 32, Ohio

PRODUCTS: "Berg" Concrete Surfacers; Hwy Surfacers.

DISTRIBUTORS

Arizona	Phoenix	Equipment Sales Co.
California	Los Angeles	Garlinghouse Brothers
	"	M.N. Thackaberry
	"	Brown-Bevis Industrial Equipment Co.
Colorado	San Francisco	Edward R. Bacon Co.
	Denver	Ray Carson Machinery Co.
Idaho	Boise	The Mine & Smelter Supply Co.
Montana	Kalispell	Intermountain Equipment Co.
	Butte	Westmont Tractor & Equipment Co.
New Mexico	Albuquerque	Hall-Perry Machinery Co.
	"	N.C. Ribble Co.
Oregon	Portland	Contractors Equipment & Supply Co.
Utah	Salt Lake City	Clyde Equipment Co.
	"	The C.H. Jones Equipment Co.
Washington	Seattle	National Equipment Co.
	Spokane	Andrews Machinery Co. of Wash., Inc.
		Construction Equipment Co.

CONCRETE TRANSPORT MIXER CO.

4985 Fyler Street
St. Louis 9, Missouri

PRODUCTS: "Hi-Lo" Truck Mixer; "Rocket" Truck Mixer; Miscellaneous Construction Machinery.

ADVERTISING
TO THE CONSTRUCTION INDUSTRY
OF THE WEST AND ALASKA
IS A REGIONAL JOB

- Construction needs, problems, and practices are different
- The West's construction problems differ from those in the rest of the U.S., but are common to the whole Western region
- Western contractors are regional operators—many work on projects anywhere in the West; most cross state borders continually

AND WESTERN CONSTRUCTION

IS THE ONE PUBLICATION

THAT COVERS ALL THE WEST'S

BIG AND GROWING CONSTRUCTION MARKET

C. I. T. CORPORATION
660 Market Street, San Francisco 416 West 8th Street, Los Angeles
Equitable Building, Portland

WESTERN CONSTRUCTION HANDBOOK

MANUFACTURERS' SECTION

CONSOLIDATED MACHINERY & SUPPLY CO.
2033 Santa Fe Avenue
Los Angeles 21, California

PRODUCTS: Comet Radial Power Saws; Davis & Wells Woodworking Machines; Comasco Gas Powered Contractors Saws; Comet Adjustable Cut-off Stop Gauges.

REPRESENTATIVES

California San Francisco 1546 Portola Dr. Chas. G. Dunwoody
Colorado Denver 2820 Grape St. Roy J. Holzclaw

DISTRIBUTORS

Arizona Phoenix	Arizona Electric Tool Co.
"	Arizona Welding Equipment Co.
"	Equipment Sales Co.
"	State Tractor & Equipment Co.
Tucson	Arizona Welding Equipment Co.
"	Industrial Tool & Supply Co.
California Burbank	Consolidated Machinery & Supply Co.
Fresno	Sierra Machinery Co.
Eureka	H. H. Buhne Company
Huntington Park	James Hardware Co.
Los Angeles	Consolidated Machinery & Supply Co.
"	Gridley Equipment Co.
"	Kemp Hardware & Lumber Co.
"	Olympic Machine Co.
"	Mine & Mill Machine Co.
"	Mitchell Machinery Co.
"	M. N. Thackaberry Co.
"	Woodworkers Supply Co.
National City	C. J. Allen
N. Hollywood	Electric Tool Service Co.
N. Sacramento	Swart Saw & Tool Co.
Oakland	Dependable Machinery Co.
Pasadena	M. N. Thackaberry Co.
Redwood City	Rockhold Tool Sales & Service
Riverside	Ken's Tool & Supply
Sacramento	Sacramento Machinery Co.
Sellinas	Tynan Lumber Co., Inc.
San Bernardino	Western Tool Company
San Diego	Acme Saw & Supply Co.
"	Gould Hardware & Machinery Co.
San Francisco	Production Tools, Inc.
"	Coast Equipment Co.
"	Dependable Machinery Co.
San Gabriel	E. C. Dodge Machinery Co.
San Jose	San Gabriel Valley Electric Tool Co.
Santa Ana	Power Tool Mart
Santa Barbara	Blystone Equipment Co.
Stockton	Milpas Rental Service
"	Dunlap Hardware & Appliance Co.
"	Hickenbotham Bros.
Colorado Denver	Woodworkers Supply Co.
Idaho Boise	Al Plonkey & Associates
"	Bolte Payette Lumber Co.
"	Intermountain Equipment Co.
"	M. R. Priest & Sons
Montana Great Falls	Intermountain Equipment Co.
Livingston	Carl Weissman & Sons
Nevada Las Vegas	Builders Machinery Co.
Reno	Inland Service & Supply
New Mexico Albuquerque	Sierra Machinery Co.
"	Albuquerque Machine & Supply Co.
Oregon Eugene	Contractors Equipment & Supply
Medford	John Warren Hardware Co., Inc.
Portland	Stampfer & Goff Bros.
Roseburg	Berbo Machinery Co.
Utah Salt Lake City	Gering's
"	Arnold Machinery Co.
"	Equipment Supply Co.
"	Clyde G. Larsen
Washington Seattle	Buckner-Weatherby Co., Inc.
Spokane	Hayden Tool Specialty Co.
Tacoma	Campbell Industrial Supply Co.

CONSTRUCTION MACHINERY CO.
Glenwood and Vinton
Waterloo, Iowa

PRODUCTS: Concrete, Plaster & Mortar Mixers; Truck Mixers; Hoists; Pumps; Batching Equipment; Placing Equipment; Masonry Saws.

DISTRICT REPRESENTATIVE

California San Carlos 1440 Cordilleras Ave. Edw. R. Daley

DISTRIBUTORS

Arizona Phoenix	Western Machinery Co.
California Los Angeles	Garlinghouse Bros.
Redding	Moore Equipment Co.
"	"
Sacramento	Standard Machinery Co.
"	Moore Machinery Co.
San Francisco	Gunderson-Taylor Machinery Co.
Stockton	Feenauhy Machinery Co.
Colorado Denver	Industrial Equipment Co.
Idaho Boise	Westmont Tractor & Equipment Co.
Montana Billings	Moore Equipment Co.
Missoula	Lively Equipment Co.
Nevada Reno	Feenauhy Machinery Co.
New Mexico Albuquerque	Moore Equipment Co.
Oregon Portland	Feenauhy Machinery Co.
Utah Salt Lake City	Heiner Equipment & Supply Co.
Washington Seattle	Hatten Machinery Co.
"	Universal Equipment Co.
Spokane	Intermountain Equipment Co.

CONTINENTAL MOTORS CORP.
205 Market Street
Muskegon, Michigan

PRODUCTS: Red Seal Internal Combustion Engines, Air-Cooled from 1-1/2 to 3 h.p., and Liquid-Cooled from 10 to 270 h.p., for use on all standard fuels; engineered to specialized needs in agriculture, transportation and industry and built to more than 2,000 different specifications.

REGIONAL OFFICE AND WAREHOUSE

CONTINENTAL SALES AND SERVICE CO.

California Los Angeles 3817 Santa Fe Ave. B. F. Tobin, Jr., Pres.
J. O. Longenecker, VP in Charge of Sales

WESTERN SERVICE REPRESENTATIVE

California Covina 780 Cypress St. G. L. Hitchcock

DISTRIBUTORS

Arizona Phoenix	Automotive Sales Co.
Tucson	Smith Equipment Service
California Bakersfield	Glenn Rose Engine Service
El Centro	Valley Auto Supply
Fresno	Art Schedler's Engine Rebuilders
Long Beach	Smith & Thorp
Los Angeles	Harval Truck Equipment Co.
Modesto	Barnes Machine Shop
Sacramento	Gerlinger Motor Parts
San Diego	Auto Gear & Supply
San Francisco	Charles W. Carter Co.
San Jose	Penniman & Richards
Santa Ana	James Reurth
Stockton	Automotive Parts Co.
Portland	Automotive Equipment Co.
Utah Salt Lake City	Motor Mercantile Co.
Washington Seattle	A. H. Cox & Co.
"	Automotive Equipment Co.

CONTRACTORS MACHINERY CO.
2661 Southwest Boulevard
Kansas City 8, Missouri

PRODUCTS: New and Rebuilt Pile Driving Equipment and Accessories; Steel Sheet Piling, Rental and Sale.

THE CONVEYOR COMPANY
3260 East 31st Avenue
Los Angeles 58, Calif.

PRODUCTS: Batcher; Belt Fasteners; Bindicators; Bins; Conveyors; Crushers; Crushing Plants; Crushing Rolls; Elevators; Feeders; Steel Forms; Gravel Plants; Grizzlies; Hoppers; Jaw Crushers; Mixing Plants; Rock & Gravel Equipment; Screens; Storage Bins; Street Sweepers; Tunnel & Dam Forms; Vibrators; Washing Plants; Weighing Batches; Batch Printing Recorders; Conveyor Scales; Sand Dewatering Equipment.

COOK BROS. EQUIPMENT CO.
3330 San Fernando Road
Los Angeles 65, California

PRODUCTS: Heavy Duty Trucks; Truck Equipment; Challenge Truck Mixers; Crane Carriers; Dual Chain Drives; Dual Gear Drives; Dump Bodies; Hydraulic Hoists; Trailers; Telescopic Dump Trailers; Bottom Dump Trailers; Six Wheel Attachments; Frame Extensions.

FACTORY BRANCHES

Arizona Phoenix	2300 S. 16th St.	M. H. Anderson, Mgr.
California Oakland	416 E. 8th St.	James Nelson, Mgr.

FACTORY REPRESENTATIVES

Colorado Aurora	2350 Jamaica St.	Eldon Klett
Oregon Portland	7205 N. Tyler	Chas. Chaney
Washington Seattle	P.O. Box 331	Chas. P. Cook

THE F. D. CUMER & SON CO.
1827 E. 18th Street
Cleveland 6, Ohio

PRODUCTS: Asphalt Plants; Bituminous Mixing Plant; Bituminous Paving Tools; Elevators; Jacketed Pipe & Fittings; Vibratory Screens.

DISTRIBUTORS

California Los Angeles	Smith-Booth-Usher Co.
San Francisco	Edward R. Bacon Co.
Colorado Denver	Ray Corson Machinery Co.
Oregon Portland	Nelson Equipment Co.
Utah Salt Lake City	Lund Machinery Co.
Washington Seattle	Hatten Machinery Co.

**C. I. T. specializes in financing equipment
for Distributors and Contractors**

CUMMINS ENGINE CO., INC.
Fifth and Union Streets
Columbus, Indiana

PRODUCTS: Lightweight High-Speed Diesel Engines (60-600) for On-highway Trucks; Off-highway Trucks; Buses; Tractors; Earthmovers; Shovel; Cranes; Industrial Locomotives; Air Compressors; Logging Yards and Loaders; Drilling Rigs; Centrifugal Pumps; Generator Sets and Power Units; Work Boats and Pleasure Craft.

REGIONAL MANAGERS

California Los Angeles 411 W. Fifth St. W. Sandham
Colorado Denver Denver Nat'l. Bldg. L.E. Williams
Washington Seattle Security Bldg. C.J. Wilhite

DISTRIBUTORS

Arizona Phoenix Cummins & Moran
California Bakersfield Cummins Service & Sales
Fresno Watson & Meehan
Los Angeles Cummins Service & Sales
Redding Watson & Meehan
San Francisco " " "
Colorado Denver Cummins Diesel Sales of Col., Inc.
Idaho Boise Cummins Diesel Sales of Idaho, Inc.
Montana Billings Cummins Diesel Sales of Montana, Inc.
New Mexico Albuquerque Cummins Rio Grande Sales & Service
Oregon Eugene Cummins Diesel Sales of Oregon, Inc.
Portland " " "
Utah Salt Lake City Cummins Intermountain Diesel Sales Co.
Washington Seattle Cummins Diesel Sales of Washington, Inc.
Spokane Cummins Diesel Sales, Inc.
Wyoming Casper Cummins Diesel Sales of Wyoming, Inc.

DART TRUCK COMPANY
2023 Oak Street
Kansas City 8, Missouri

PRODUCTS: Heavy Duty Off-Highway Trucks; Coal Haulers; Crane Carriers; Transit Mixers.

DISTRIBUTORS

Arizona Prescott Prescott Tractor Sales
California Los Angeles Smith-Booth-Usher Co.
Oakland C.H. Grant Co.
Colorado Denver Western Machinery Co.
Oregon Portland Balzer Machinery Co.
Utah Salt Lake City Arnold Machinery Co.
Washington Seattle Bow Lake Equipment Co.
Spokane Western Machinery Co.

DAVENPORT BESLER CORPORATION
2305 Rockingham Road
Davenport, Iowa

PRODUCTS: Locomotives; Snow Plows; Grey Iron Castings.

- DISTRIBUTORS

Arizona Phoenix O.S. Stealey Co.
California San Francisco Western Traction Co.
Colorado Denver McElroy Machinery Co.
Idaho Boise Engineering Sales Service, Inc.
Montana Billings Western Construction Equipment Co.
Great Falls " "
Missoula " "
Nevada Reno Jenkins & Albright
Oregon Portland Edward L. Kropf Co.
Utah Salt Lake City Foulger Equipment Co.
Washington Seattle Clyde Equipment Co.
Spokane Northern Commercial Co.
Wyoming Cheyenne Modern Machinery Co., Inc.
Cheyenne Truck & Implement Co.

DAVEY COMPRESSOR CO.
600 Franklin Avenue
Kent, Ohio

PRODUCTS: Portable Compressors; Stationary Compressors; Truck Mounted Compressors; Field Repair Units; Air Tools; Rock Drills.

DETROIT DIESEL ENGINE
DIVISION OF GENERAL MOTORS CORP.
13400 West Outer Drive
Detroit 28, Michigan

PRODUCTS: Series 51, 71 and 6-110 2-cycle GM Diesel Engines, 27 to 762 h.p., fan-to-flywheel and base-mounted (packaged power units; also 20 KW to 200 KW GM Diesel Generator Sets, AC or DC, for "off-the-line" or emergency service.

WESTERN FACTORY REPRESENTATIVES

California Los Angeles Manager A.W. Anderson
Colorado Denver " H.K. McAfee
Washington Seattle " J.T. Henna

DISTRIBUTORS AND DEALERS

Arizona Casa Grande Engine Service Co.
Phoenix O'Connell Brothers, Inc.
Tucson Les Kehl

DETROIT DIESEL ENGINE DIV. (CONTINUED)

California	Bakersfield	Lawless Brothers, Inc.
	Berkeley	West Coast Engine & Equipment Co.
	El Cajon	Deakins-Lane Diesel Co.
	Eureka	Atkins Tractor Co.
	Fort Bragg	West Coast Engine & Machine Works
	Jenner	Jenner Garage
	Long Beach	Smith & Thorpe
	Los Angeles	Anderson-O'Brien Co.
	Marysville	Randolph Machinery Co.
	Monterey	Hoover Equipment Co.
	Sacramento	Rhee Tractor & Engine Co.
	Stockton	Equipment Sales & Service
	Ventura	Gem Equipment Co.
	Visalia	Tulare County Tractor Co.
Colorado	Denver	Colorado Builders' Supply Co.
	Bolse	Southern Idaho Equipment Co.
	Idaho Falls	" " "
Montana	Twin Falls	" " "
	Billings	Seitz Machinery Co., Inc.
	Great Falls	" " "
	Kalispell	Mountain Tractor Co.
	Missoula	" " "
New Mexico	Albuquerque	The Harry Cornelius Co.
	Clavos	Western Machinery Co.
	Reno	Sierra Machinery Co., Inc.
Oregon	Coos Bay	Herbor Diesel & Supply Co.
	Eugene	Gunderson Bros. Engineering Corp.
	Medford	Hauert Tractor Co.
	Newport	Campbell's Diesel Service
Utah	Portland	Gunderson Bros. Engineering Corp.
	Salt Lake City	Cafe Equipment Co.
Washington	Bellingham	Bellingham Engine & Equipment Co.
	Seattle	Evans Engine & Equipment Co.
	Spokane	Modern Machinery Co., Inc.
	Casper	Colorado Builders' Supply Co.

DE WALT, INC.
Fountain Avenue
Lancaster, Pennsylvania

PRODUCTS: Woodworking Machinery; Radial Arm Saws; Tools and Accessories.

California	Beverly Hills	9385 Charleville Rd. W.H. Dudley
	Oakland	6316 Chelton Drive W.M. Willoughby
Colorado	Denver	495 Clarkson F.J. Gregory
	Seattle	14635 25th St. SW J.B. Mitchell

DISTRIBUTORS

Arizona	Phoenix	Arizona Welding Equipment Co.
	Tucson	Electric Tool & Supply Co.
California	Anaheim	Industrial Tool & Supply
	Bakersfield	Ronstad's Hardware
	El Centro	Power Tool & Supply Co.
	Fresno	Bakersfield Sandstone Brick Co.
	Long Beach	Imperial Hardware Co.
	Los Angeles	Haven Saw & Tool Co.
	" "	Imperial Hardware Co.
	" "	Acme Industrial Supply Co.
	" "	Electric Tool & Supply
	" "	Hoffman & Hecht
	Oakland	Union Hardware & Metal Co.
	" "	Haven Saw & Tool Co.
	Pasadena	Mechanics Tool & Supply
	Riverside	John P. King
	Sacramento	J.R. Westbrook Co.
	San Carlos	Haven Saw & Tool Co.
	San Diego	" " "
	" "	Acme Tool & Supply
	San Francisco	Hammond Machine & Supply Co.
	San Jose	Whitney's Dept. Store
	Santa Ana	Haven Saw & Tool Co.
	Santa Barbara	" " "
	Santa Maria	Knox Hardware
	Van Nys	Otts Hardware Co.
Colorado	Denver	Farmers Hardware & Implement
	" "	Builders Emporium
	Pueblo	Associated Builders Supply Co.
Idaho	Bolse	Hendrie & Bolt Co.
	Idaho Falls	Western Machinery Co.
	" "	Abmor Supply Company
	" "	M.R. Prist & Sons, Inc.
	" "	The Sawtooth Co.
	Lewiston	Arnold Machinery Co., Inc.
Montana	Billings	Bruntis, Inc.
	Butte	Erb Hardware Co., Ltd.
	Great Falls	Hall-Perry Machinery Co.
	Heve	" " "
	Livingston	Treasure State Supply Co.
	Missoula	Builders Machinery Co.
	Las Vegas	Missoula Mercantile Co.
	Reno	Inland Service & Supply Co.
	New Mexico	Commercial Hardware Co.
	Albuquerque	Equipment Sales & Mfg. Co.
Oregon	Astoria	Gorman Engineering Co.
	Coos Bay	Fisher Bros.
	Corvallis	A-B Dale & Co.
	Eugene	Corvallis Hardware
		Loggers & Contractors Machinery Co.

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C. I. T. CORPORATION

660 Market Street, San Francisco
Equitable Building, Portland

416 West 8th Street, Los Angeles

DE WALT, INC. (CONTINUED)

Oregon	Portland	Chown Hardware
"	"	Loggers & Contractors Machinery Co.
Utah	Salem	Salem Hardware
	Salt Lake City	Arnold Machinery Co., Inc.
Washington	Bellingham	Industrial Supply Co., Bellingham Hardware Co.
	Hoquiam	F.G.Foster
	Seattle	Northern Commercial Co.
	Spokane	Star Machinery Co.
	"	Jensen-Byrd Co.
Wyoming	Wendychee	Star Machinery Co.
	Casper	Wells & Wade
		Wyoming Builders Service

DIAMOND CHAIN COMPANY, INC.
402 Kentucky Avenue
Indianapolis 7, IndianaPRODUCTS: Roller Chains; Sprockets; Conveyor Chains;
Flexible Shaft Couplings.

FACTORY REPRESENTATIVES

California	Los Angeles	900 Santa Fe Ave.	J.H.Crews, Repr.
	Menlo Park	1090 El Camino	H.W.King, Dist.Mgr.

DISTRIBUTORS

Arizona	Phoenix	Simon Bearing & Supply Co.
	Tucson	Tucson Bearing Co.
California	Bakersfield	Power Transmission Equipment Co.
	Fresno	Pacific Mill & Mine Supply Co.
	Los Angeles	Degen-Flege Co.
	" "	Power Transmission Equipment Co.
	Sacramento	Western Industrial Supply Co.
	San Diego	Hudson Equipment Co.
	San Francisco	Horsford Bros.
	" "	Monarch Supply Co.
	Santa Clara	Hickinbotham Bros.
	Stockton	Colorado Bearing Co.
Colorado	Denver	Power Transmission Equipment Co.
Montana	Billings	The Harry Cornelius Co.
New Mexico	Albuquerque	Woodbury & Littlebo, Inc.
Oregon	Coos Bay	Woodbury Eugene
	Eugene	Woodbury Medford
	Medford	Woodbury & Company
Washington	Everett	Washington Belting & Rubber Co.
	Seattle	" " " " "
	Tacoma	" " " " "
Wyoming	Casper	Buda Engine Sales & Service

DIAMOND IRON WORKS, DIVISION
GOODMAN MANUFACTURING CO.
Halsted St. & 48th Place
Chicago 9, IllinoisPRODUCTS: Sand, Gravel and Rock Crushing; Screening and
Handling Equipment.

DISTRIBUTORS

Arizona	Phoenix	State Tractor & Equipment Co.
California	Los Angeles	Shaw Sales & Service Co.
	Oakland	C.H.Grant Company
Colorado	Denver	Power Equipment Co.
Idaho	Boise	Western Equipment Co.
Montana	Billings	Seitz Machinery Co., Inc.
	Missoula	Miller Machinery Company
New Mexico	(El Paso)	Equipment Supply Co.
Oregon	Portland	Nelson Equipment Co.
Utah	Salt Lake City	Lund Machinery Co.
Washington	Seattle	Totem Equipment Co.
	Spokane	Western Tractor & Equipment Co.

DIXON VALVE & COUPLING CO.
Hancock St. & Columbia Ave.,
Philadelphia 22, Pa.

PRODUCTS: Hose Couplings and Air Valves.

FACTORY BRANCH

California	Los Angeles	2333 E.Eighth St.	P.M.Hardwick, Mgr.
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REGIONAL MANAGER

Oregon	Beaverton	412 SW Fairmount	Thos.P.McNiesh
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DISTRIBUTORS

All distributing concerns who have a mechanical hose line.

CONSTRUCTION IN THE WEST IS DIFFERENT—
ONLY WESTERN CONSTRUCTION SERVES ITS SPECIAL NEEDS, AND YOURSDORR-OLIVER, INC.
Barry Place
Stamford, ConnecticutPRODUCTS: Clarifiers; Digesters; Sewage Sludge; Distributors;
Rotary Sewage; Filtration Plant Equipment;
Flocculating Equipment; Grit Removal Equipment;
Sand and Gravel Plants; Screens; Sewage; Sewage
Treatment Equipment; Sludge Collectors; Sludge
Dewaterers, Mechanical; Thickeners; Water Softening
Equipment; Water Purification Equipment; Aerators;
Agitators; Filters; Vacuum Filters; Sand Plants.

FACTORY BRANCHES

California	Los Angeles
Colorado	Denver
	Washington
	Seattle

DOTMAR INDUSTRIES, INC.
502 Hanselman Building
Kalamazoo, MichiganPRODUCTS: Dotmar "Speedmaster" Curb and Gutter, Sidewalk,
Highway Strip Widening, Highway Mall Curb Pavers;
Dotmar "Airlite" Pneumatic Hammer and Tools.

DISTRIBUTORS

Alaska	(Seattle)	Northern Commercial Co.
Arizona	Phoenix	The O.S.Stapley Co.
California	Los Angeles	Gridley Equipment Co.
	Oakland	C.H.Grant Co.
Colorado	Denver	Ray Corson Machinery Co.
Montana	Billings	Western Construction Equipment Co.
New Mexico	Albuquerque	Contractors' Equipment & Supply Co.
Oregon	Portland	Contractors' Equipment Corp.
Utah	Salt Lake City	Lund Machinery Co.
	Seattle	Andrews Machinery of Washington, Inc.

DOUG-LYNN MANUFACTURING CO.
339 Fifteenth Street
Oakland 12, CaliforniaPRODUCTS: True-Lay Paver, Model 8 and Model 8A with Agitator;
True-Roll, 2 - 3 ton Roller with Cradle-Trailer.

DISTRIBUTORS

California	Los Angeles	Smith-Booth-Usher Co.
Arizona	San Francisco	Edward R.Bacon Co.
Colorado	Denver	Western Machinery Co.
Utah	Salt Lake City	" " "
Washington	Spokane	Totem Equipment Co.
	Seattle	" "

DRAKE-WILLIAMS-MOUNT CO.
P.O.Box 1126
Omaha 1, Nebraska

PRODUCTS: "Omaha" Dragline Buckets.

DISTRIBUTORS

Alaska	(Seattle)	Northern Commercial Co.
California	Berkeley	Owen Bucket Co., Ltd.
	" "	Garlinghouse Bros. Co.
Colorado	Denver	Electric Tool & Supply Co.
	"	H.W.Moore Co.
	Denver	Graham Road Equipment Co.
Utah	Salt Lake City	Foulger Equipment Co.
Washington	Seattle	A.H.Cox & Co.
Wyoming	Casper	Studer Tractor & Equipment Co.

DRESSER MANUFACTURING DIVISION
44 Fisher Avenue
Bradford, PennsylvaniaPRODUCTS: Couplings, Pipes; Fittings; Expansion Joints; Repair
Clamps, Pipe; Split Repair Sleeves, Pipe.

FACTORY BRANCH

California	S.San Francisco	101 S.Airport Blvd.	R.J.Drigas
Colorado	Denver	3221 Leyden St.	D.V.Hackett

REGIONAL MANAGERS

California	S.San Francisco	101 S.Airport Blvd.	R.J.Drigas
Colorado	Denver	3221 Leyden St.	D.V.Hackett

MANAGER - WESTERN WATERWORKS SALES

Colorado	Denver	2400 13th Ave.
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N.J.Thompson

DISTRIBUTORS

California	Los Angeles	Bethlehem Supply Co. of California
	" "	The Republic Supply Co. of California
Colorado	Denver	Grinnell Co. of the Pacific
Oregon	"	Hendrie & Boffhoff Co.
Washington	Seattle	Consolidated Supply Co.
		Waterworks Supplies Co.
		Western Utilities Supply Co.

C. I. T. finances installment sales
of equipment for many Distributors

DREYER VIBRATOR COMPANY
509-11 E. 16th Street
Los Angeles 15, California

PRODUCTS: High Speed and Heavy Duty Concrete Vibrators.

DISTRIBUTORS

Arizona	Phoenix	Western Machinery Co.
California	Fresno	Edward R. Bacon Co.
	Los Angeles	Smith Booth Usher Co.
	Sacramento	Edward R. Bacon Co.
	San Francisco	" " " "
Colorado	Denver	Western Machinery Co.
Utah	Salt Lake City	" " " "
Idaho	Bolton	Engineering Sales & Service, Inc.
New Mexico	Albuquerque	J.D. Coalain Co.
Oregon	Portland	Andrew & Andrew Equipment Co.
Washington	Seattle	Row Lake Equipment Co.
	Spokane	Blackwell-Coleman Equipment Co.

DROTT MANUFACTURING CORPORATION
3841 West Wisconsin Avenue
Milwaukee 8, Wisconsin

PRODUCTS: Skid-Shovels; Skid-Loaders; Bulldozer Shovels;
Scarfiers; Grubber Blades.

DISTRICT REPRESENTATIVES

DISTRIBUTORS

Arizona	Phoenix	State Tractor & Equipment Co.
	Tucson	F.Ronsdale Hardware Co.
	Yuma	Yuma Equipment Co.
California	Alturas	Farmers Exchange of Modoc, Inc.
	Bakersfield	Sherman County Equipment Co., Inc.
	Chico	North Valley Tractor & Equipment Co.
	El Centro	Purdy-Holmquist Co.
	Econdido	Southern Equipment & Supply Co.
	Eureka	Howard-Cooper Corp. of Calif.
	Five Points	Allied Equipment Co.
	Fresno	"
	Kings City	Farmers Mercantile Co.
	Los Angeles	Brown-Bevis Industrial Equipment Co.
	Madera	Allied Equipment Co.
	Merced	Scarborough Implement Co.
	Modesto	Stanislaus Implement Hardware Co.
	Oakland	Bay Cities Equipment, Inc.
	Oxnard	L.G.Maulhardi Equipment Co.
	Reedley	Allied Equipment Co.
	Redding	Sullivan & Grove Equipment Co.
	Riverside	Bremen-Dickerson Co., Inc.
	Sacramento	Sacramento Valley Tractor Co.
	Salinas	Farmers Mercantile Co.
	San Diego	Southern Equipment & Supply Co.
	San Jose	Valley Equipment Co.
	Santa Maria	Hanson Equipment Co.
	Santa Rosa	Stevenson Equipment Co.
	Stockton	Graco
	Strafford	Orton's Equipment Co.
	Visalia	Exeter Mercantile Co.
	Watsonville	Farmers Mercantile Co.
	Woodland	Graco
Colorado	Denver	H.W.Moore Equipment Co.
Idaho	Bolse	Intermountain Equipment Co.
	Pocatello	"
Montana	Billings	Industrial Equipment Co.
	Great Falls	Normont Equipment Co.
	Missoula	Treasure State Equipment Co.
	Kalispell	"
Nevada	Las Vegas	Clark Co. Wholesale Merc. Co., Inc.
New Mexico	Reno	Nevada Equipment Service, Inc.
	Albuquerque	J.D.Codains Co.
Oregon	Albany	Howard-Cooper Corp.
	Burns	Craddock-Sheppard Co.
	Central Point	Howard-Cooper Corp.
	Coquille	"
	Eugene	"
	Haines	Haines Commercial Co.
	Klamath Falls	J.W.Kerns Co.
	Newport	Howard-Cooper Corp.
	Portland	"
	Roseburg	"
Utah	Salt Lake City	The Lang Company
Washington	Seattle	Howard-Cooper Corp.
	Spokane	Intermountain Equipment Co.
	Cheyenne	Kereml Tractor & Equipment Co.
Wyoming		

DUFF-NORTON MANUFACTURING CO.
2710 Preble Avenue
Pittsburg 30, Pennsylvania

PRODUCTS: Lifting Jacks for Industrial Use.

DISTRIBUTORS

California	Anheim	Pipe Line Specialties
	Berkeley	Berkeley Industrial Supply Co.
	Bakersfield	Inland Equipment Co.
	El Centro	Imperial Hardware Co.
	Fresno	Grabbar Electric Co.
	"	Inter-Valley Equipment Co.
	Gilroy	Be-Ge Manufacturing Co.
	Long Beach	American Wholesale Hardware Co.

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C. I. T. CORPORATION

**660 Market Street, San Francisco 416 West 8th Street, Los Angeles
Equitable Building, Portland**

416 West 8th Street, Los Angeles

Equitable Building, Portland

Portland

10 of 10

K.O.DUNCAN COMPANY
1526 North Potrero Ave.
El Monte, California

PRODUCTS: A Multiple Piston Hydraulic Jack for breaking concrete where the use of explosives is prohibited.

EAGLE CRUSHER CO., INC.
900 Harding Way East
Galion, Ohio

PRODUCTS: Jaw Crushers; Pulverizers and Hammer Mills; Crushing Equipment; Truck Mounted Bucket Loaders.

DISTRIBUTORS

Arizona	Phoenix	Neill B. McGinnis Equipment Co.
California	Los Angeles	Calaver Corporation
	San Francisco	FWD Pacific Co.
Idaho	(Salt Lake)	Western Machinery Co.
Utah	Salt Lake City	" " "
Washington	Spokane	" " "

EAGLE IRON WORKS
129 Holcomb
Des Moines, Iowa

PRODUCTS: Aggregate Washing-Classifying-Dehydration Equipment; Clay Plant Equipment; Eagle "Swintek" Traveling Screen Chain Type Cutters; Breaker Balls; Pile Hammers and Follow Blocks; Dredging Ladders; Gravel Log Washers; Sand and Gravel Washers-Classifiers-Dehydrators; Sand and Gravel Tanks; Water Scalping Pans; Grinding and Wet and Dry Planers; Shale; Crushers, Roll, Clay; Crushers, Roll, Coal.

DISTRIBUTORS

Arizona	Phoenix	Shriver Machinery Co.
California	Los Angeles	Brown-Bevis Industrial Equipment Co.
	" "	Fernholz Machinery Co.
	" "	Walter C. Stoll & Sons
Colorado	San Francisco	Coast Equipment Co.
Idaho	Denver	H.W. Moore Equipment Co.
Montana	Bolse	Intermountain Equipment Co.
	Billings	Western Construction Equipment Corp.
Nevada	Reno	Sierra Machinery Co.
New Mexico	Albuquerque	N.C. Ribble Company
Oregon	Portland	P.L. Crooks & Co., Inc.
Utah	Salt Lake City	The Lang Company
Washington	Seattle	Jack Sahlberg Equipment Co.
	Spokane	Intermountain Equipment Co.
Wyoming	Casper	Keremi Tractor & Equipment Co.
	Cheyenne	" " " "

EATON MANUFACTURING CO., AXLE DIV.
739 E. 140th Street
Cleveland, Ohio

PRODUCTS: Truck Axles, Front & Rear; Single Reduction, Double Reduction, 2-Speed Tandem.

ECONOMY FORMS CORP.
4301 N.E. 14th St.
Des Moines 13, Iowa

PRODUCTS: Steel Forms for Concrete Construction.

E. H. EDWARDS COMPANY
Butler Road & Industrial Way
South San Francisco, California

PRODUCTS: Wire Rope.

FACTORY BRANCHES

California	Los Angeles	Manager	Paul Sanderson
Oregon	Portland	"	Fred Butler
Washington	Seattle	"	Ralph Brown

EIMCO CORPORATION
634 South 4th West - Box 300
Salt Lake City, Utah

PRODUCTS: Mine, Tunnel & Surface Loaders; Excavators; Tractors; Folding Scrapers; Solid Scrapers; Continuous Vacuum & Pressure Filters; Geared Air Motors; Air Locomotive; Trade Names "Rockershovels" and "Uralov".

REGIONAL MANAGER

California	Berkeley	J.K. Russell
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BRANCH MANAGERS

California	Berkeley	E.G. Burger
Idaho	Kellogg	B.J. Dickinson
Montana	Missoula	G. Helm
Texas	El Paso	H.W. Foester

ELECTRIC STEEL FOUNDRY COMPANY
2141 N.W. 25th Avenue
Portland 10, Oregon

PRODUCTS: Dragline, Dipper, Fastback Hoe Dipper, Orange Peeler, Clamshell Buckets; Grapples; Points, Adapters, Blades, Blade Ends, Dozer-Rooters.

FACTORY BRANCHES

California	Los Angeles	4600 Pacific Blvd.	Joe Blake
	San Francisco	1280 65th St., Emeryville	Hal Robb
Oregon	Eugene	1464 W. 6th St.	Lloyd Maxwell
Utah	Salt Lake City	1455 S. 2nd W., P.O. Box 1379	Garland Allen
Washington	Seattle	1131 W. Hanford St.	Bill Latimer

DISTRIBUTORS

Arizona	Phoenix	Arizona Machinery Co.
Colorado	Denver	McCoy Company
Idaho	Bolse	Intermountain Equipment Co.
	Pocatello	" " "
Utah	Salt Lake City	Eoulder Equipment Co.
Washington	Spokane	Intermountain Equipment Co.

ELECTRIC TAMPER & EQUIPMENT CO.
Ludington
Michigan

PRODUCTS: Generator Sets; Power Plants; Soil Compaction Units; Vibrators; Vibratory Screeds.

ESSICK MANUFACTURING COMPANY
1950 Santa Fe Avenue
Los Angeles 21, California

PRODUCTS: Bituminous Distributors; Portable and Stationary Compressors; Dredging Equipment; Material Handling Hoists; Paving Material Levelers; Plaster, Mortar, Concrete and Plant Mixers; Self-Priming and Diaphragm Power Pumps; Tandem Road Rollers; Paving Material Spreader; Road Roller Trailers; Winches; Mortar Boxes; Weed and Pest Control Equipment.

DISTRIBUTORS

Arizona	Phoenix	Equipment Sales Company
California	Arvin	E.O. Mitchell, Inc.
	Bakersfield	" " "
	El Centro	W.K. Equipment Co.
	Escondido	Southern Equipment & Supply Co.
	Eureka	Howard-Cooper Corporation
	Five Points	Allied Equipment Co.
	Fresno	" " " "
	Madera	Ricker Machinery Co.
	Oakland	A.A. Equipment Sales & Rentals
	Ontario	L.G. Maulhardt Equipment Co.
	Oxnard	Sullivan & Crowe Equipment Co.
	Redding	Allied Equipment Company
	Reedley	San Bernardino W.K. Equipment Co.
	San Bernardino	Southern Equipment & Supply Co.
	San Diego	Blystone Equipment Co.
	Santa Ana	Floyd A. Boyd Company
	Yreka	King & East Machinery Corp.
Colorado	Denver	Western Equipment Co.
Idaho	Boise	Montana Powder & Equipment Co.
	Billings	" " " " "
Montana	Helena	Inland Service & Supply Corp.
Nevada	Las Vegas	Blystone Equipment Co. of Nevada
	Reno	Nevada Equipment Service, Inc.
New Mexico	Albuquerque	R.L. Harrison Co., Inc.
Oregon	Albany	Howard-Cooper Corporation
	Central Point	" " "
	Coquille	" " "
	Eugene	" " "
	Portland	Clyde Equipment Company
	Roseburg	Howard-Cooper Corporation
Utah	Salt Lake City	Lund Machinery Company
Washington	Seattle	Clyde Equipment Company
	Spokane	General Machinery Co.
Wyoming	Casper	Studer Tractor & Equipment Co.
Alaska	(Seattle)	Northern Commercial Co.

ADVERTISING TO THE CONSTRUCTION INDUSTRY OF THE WEST AND ALASKA IS A REGIONAL JOB—

- Construction needs, problems and practices are different
- The West's construction problems differ from those in the rest of the U.S., but are common to the whole western region
- Western contractors are regional operators—many work on projects anywhere in the West; most cross state borders continually

—AND WESTERN CONSTRUCTION IS ONE PUBLICATION THAT COVERS ALL THE WEST

C. I. T. specializes in financing equipment for Distributors and Contractors

WESTERN CONSTRUCTION HANDBOOK

MANUFACTURERS' SECTION

E.D. ETNYRE & CO.
Oregon
Illinois

PRODUCTS: Bituminous Distributors; Hauling Tanks & Maintenance Units; Asphalt Pumps; Street Flushers & Sprinklers.

DISTRIBUTORS

Arizona	Phoenix	Nell B. McGinnis Co.
California	Los Angeles	Crook Co.
	Richmond	Bay Equipment Co.
Colorado	Denver	Colorado Builders & Supply Co.
Idaho	Bolse	Intermountain Equipment Co.
Montana	Billings	Industrial Equipment Co.
	Great Falls	Normont Equipment Co.
	Kalispell	Treasure State Equipment Co.
New Mexico	Albuquerque	R.L. Harrison Co.
Oregon	Eugene	Howard-Cooper Corp.
	Portland	"
	Klamath Falls	"
	Roseburg	"
Utah	Salt Lake City	Kimball Equipment Co.
Washington	Seattle	Howard-Cooper Corp.
	Spokane	Intermountain Equipment Co.
Wyoming	Casper	Colorado Builders' Supply Co.

EUCID DIVISION, GENERAL MOTORS CORP.
1301 Chardon Road
Cleveland 17, Ohio

PRODUCTS: Earth Moving Equipment.

DISTRICT MANAGERS

California	Sacramento	710 La Sierra Dr., H.P. Behl
Colorado	Denver	110 Ivy Street, E.C. Dellen
Montana	Great Falls	2000 1st Ave., N., M.W. Miller
Washington	Spokane	31 W. 37th St., M.H. Johnson

DISTRIBUTORS

Alaska	(Seattle)	Western Tractor & Equipment Co.
Arizona	Phoenix	Min-A-Can Equipment Co.
California	Monrovia	Geo. M. Philpott Co., Inc.
	Oakland	"
	Sacramento	"
	San Francisco	"
Colorado	Denver	Colorado Builders' Supply Co.
Idaho	Bolse	Intermountain Equipment Co.
Montana	Pocatello	"
	Billings	Hill-Perry Machinery Co.
	Great Falls	"
	Missoula	"
Nevada	Reno	Sierra Machinery Co., Inc.
New Mexico	Albuquerque	Lively Equipment Company
Oregon	Portland	P.L. Crooks & Company
Utah	Salt Lake City	Foulger Equipment Co.
Washington	Seattle	Western Tractor & Equipment Co.
	Spokane	Intermountain Equipment Co.
	Tacoma	Western Tractor & Equipment Co.
Wyoming	Casper	Colorado Builders' Supply Co.

EUGENE ENGINEERING CO.
1405 W. 1st Street
Eugene, Oregon

PRODUCTS: EECO Rock Drills.

EVEREADY BRIKSAW COMPANY
1509 S. Michigan Blvd.
Chicago 5, Illinois

PRODUCTS: Masonry Saws and Blades; Concrete Saws and Blades.

SALES MANAGER

Illinois	Chicago	1509 S. Michigan Blvd.	E.W. Perkins
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DISTRIBUTORS

Arizona	Phoenix	Lively Equipment Co.
California	Los Angeles	Calvo Engineering Co.
	"	Consolidated Rock Products Co.
	"	M.N. Thackberry Company
	San Diego	Southern Equipment & Supply Co.
	San Francisco	Edward R. Bacon Company
	Santa Monica	Hilgard Building Materials, Inc.
Colorado	Denver	Western Machinery Co.
Montana	Butte	Hill-Perry Machinery Co.
Nevada	Great Falls	"
New Mexico	Albuquerque	Inland Service & Supply Co.
Oregon	Eugene	Lively Equipment Co.
	Portland	Loggers & Contractors Machinery Co.
Utah	Salt Lake City	E.J. Bertelli Company
Washington	Seattle	Loggers & Contractors Machinery Co.
	"	E.J. Bertelli Company
	Spokane	Star Machinery Co.
	"	E.J. Bertelli Company
Wyoming	Cheyenne	Powers Builders Supply

FELKER MANUFACTURING CO.
Torrence
California

PRODUCTS: Felker Di-Met Concrete Cutting Machines; Masonry Saws; Tile Cutting Saws; Diamond Abrasive Cut-Off Blades; Abrasive Cut-Off Blades.

FRANK B. FERRIS, JR.
1297 Muscat Street
San Bernardino, California

PRODUCTS: Ferris Brush Grubber; H & L Ferris Brush Grubber.

DISTRIBUTORS

Arizona	Phoenix	Starline Equipment Co.
California	Bakersfield	Hopper Machine Works, Inc.
	Fresno	Edward R. Bacon Co.
	Montebello	H & L Tool Company
	Oakland	Edward R. Bacon Co.
	Sacramento	"
	San Francisco	"
Colorado	Aurora	M.J. Cross Manufacturing Co.
	Denver	Air Rentals, Inc.
Idaho	Bulie	Starline Equipment Co.
Montana	Great Falls	Hill-Perry Machinery Co.
Nevada	Reno	Pioneer Equipment Co. of Nevada
	"	C.R. Roeder Equipment Co.
	Albquerque	Sierra Machinery Co.
New Mexico	Albquerque	Contractors Equipment & Supply Co.
Oregon	Albany	Howard-Cooper Corp.
	Central Point	"
	Coquille	"
	Eugene	"
	Portland	"
	Roseburg	"
Utah	Salt Lake City	Hillier Equipment & Supply Co.
Washington	Seattle	Howard-Cooper Corp.
	Spokane	Modern Machinery Co.

FLECO CORPORATION
1375 W. Church Street
Jacksonville 3, Florida

PRODUCTS: "Fleco" Land Clearing Equipment; Detachable Stumper; Pull Stumper; Root Rakes; Rock Rake; Brush Rake; Treadozer; Tree Cutter; Undercutter; Rolling Dual Chopper; Motor Grader V-Plane; Cab Guard Rail; Subtilage Tool-Cone.

WESTERN REPRESENTATIVE

Washington Vancouver 1914 E. 8th St. E.V. Frankenberg
All Distributors for the Caterpillar Tractor Co.

FLEXIBLE ROAD JOINT MACHINE CO.
Warren
Ohio

PRODUCTS: Mechanical Joint Installing Machines; Automatic Spraying Curing Machines; Detroit Special Finishing Machines; Banham Finishers; Panama Finishers; Bridge Finishing Machines; Mechanical Dovet and Tie Bar Installers; One Man Bridges; Longitudinal Floor Bridges; Joint Finishing Bridges; Utility Bridges; Key Joint Plates; Subgrade Planers and Testers; Expansion Joint Holders; Hand Tools.

DISTRIBUTORS

California	Hollywood	Elrick Equipment Co.
New Mexico	Albuquerque	Contractors Equipment Supply Co.
Utah	Salt Lake City	The Lang Company

FOOTE CONSTRUCTION EQUIPMENT DIV.
BLAW-KNOX COMPANY
Mass. Street
Nunda, New York

PRODUCTS: Single and Dual Drum Multi-Foote Pavers; ADNUN SR. and ADNUN JR. Black Top Pavers; Blaw-Knox Bituminous Paver Finishers.

DISTRIBUTORS

Arizona	Phoenix	The O.S. Stapley Co.
California	Oakland	C.H. Grant Company
	Los Angeles	Shaw Sales & Service Co.
Colorado	Denver	Colorado Builders' Supply Co.
Idaho	Boise	Western Equipment Co.
	Idaho Falls	"
Montana	Billings	Industrial Equipment Co.
Nevada	Great Falls	Normont Equipment Co.
	(Oakland)	C.H. Grant Company
	(Los Angeles)	Shaw Sales & Service Co.
	(Salt Lake)	Foulger Equipment Co.
New Mexico	Albuquerque	Lively Equipment Co.
Oregon	Portland	Contractors Equipment Corp.
	(Portland)	Western Equipment Co.
Utah	Salt Lake City	Foulger Equipment Co.
Washington	Seattle	Washington Machinery Co.
	Spokane	Western Equipment Co.
	(Spokane)	Colorado Builders' Supply Co.
Wyoming	Cheyenne	Foulger Equipment Co.
	(Denver)	"
	(Salt Lake)	"

C. I. T. CORPORATION

660 Market Street, San Francisco
Equitable Building, Portland
416 West 8th Street, Los Angeles

FOSTER TRAILER COMPANY, INC.
2026 Bay Street
Los Angeles 21, California

PRODUCTS: Tilt Bed Trailers 2 through 35 Ton Capacities; Low-Bed Trailers to 60 Ton Capacities; Semi and Full Trailers to 25 Ton Capacities; Loops and Pipe Dollies; Converter Dollies and Third Axle Units; Flat Bed and Stake Bodies; Special Trailers.

DISTRIBUTORS

Arizona	Phoenix	Superior Coach Sales & Service
California	Fresno	Peerless Tractor & Equipment Co.
	Los Angeles	Shaw Sales & Service Co.
	"	Smith-Booth-Jisher Co.
	Oakland	Buran Equipment Co.
	Redding	Moore Equipment Co.
	Riverside	Shaw Sales & Service Co.
	San Francisco	Hill Equipment Co.
	Sacramento	Moore Equipment Co.
	San Diego	Shaw Sales & Service Co.
	Santa Barbara	Buck Sales, Inc.
	Stockton	Moore Equipment Co.
	Tustin	Scheky Equipment Corp.
Idaho	(Portland)	Mountain Tractor Co.
Montana	Kalispell	"
Nevada	Reno	Moore Equipment Co.
	Las Vegas	Clark County Wholesale Merc. Co.
New Mexico	Albuquerque	Harry Cornelius Co.
Oregon	Portland	Scheky Equipment Corp.
Utah	Salt Lake City	Arnold Machinery Co.
Washington	(Portland)	Scheky Equipment Corp.

L.B. FOSTER COMPANY
P.O. Box 1647
Pittsburgh 30, Pa.

PRODUCTS: Steel-Sheet Piling; H-S Lightweight Piling; H-Section Bearing Pile; Pipe for Piling; Steel Pipe & Fabrication; Welding Fittings and Flanges; New Relaying Rails; Track Accessories and Tools.

REGIONAL OFFICE

California Los Angeles 3460 Wilshire Blvd.

THE FOUR WHEEL DRIVE AUTO CO.
East 12th
Clintonville, Wisconsin

PRODUCTS: Four and Six-Wheel Drive Trucks; Truck Derricks; Earth Drills; Fire Engines; Road Maintenance Equipment; Snow Plows; Winches; Trailers.

DISTRICT MANAGERS

California	Burlingame	1256 Cortez Ave.	Ronald C. Gehrk
	Fresno	2526 Railroad Ave.	R.F. Holmes
	Pomona	2204 Virginia Ave.	Jack Kelly
Oregon	Portland	8427 SW 58th Ave.	Les Berndt

DISTRICT MANAGERS

California	Burlingame	1256 Cortez Ave.	Ronald C. Gehrk
	Pomona	2204 Virginia Ave.	Jack Kelly
Oregon	Portland	8427 SW 58th Ave.	Les Berndt

DISTRIBUTORS

Arizona	Phoenix	Arizona Cedar Rapids Co.
California	Los Angeles	Calavar Corporation
	San Francisco	The FWD Pacific Co.
Colorado	Denver	MacDonald Equipment Co.
Idaho	Bolse	Feenauhy Machinery Co.
Montana	Helena	Steffek Equipment Co.
New Mexico	Albuquerque	N.C. Riddle Co.
Oregon	Portland	Feenauhy Machinery Co.
Utah	Salt Lake City	Cafe Equipment Co.
Washington	Seattle	Feenauhy Machinery Co.
Wyoming	Casper	Studer Tractor & Equipment Co.

TRUEHAUF TRAILER COMPANY
1444 South Alameda
Los Angeles, California

PRODUCTS: Commercial Truck-Trailers; Truck Bodies and Six-Wheel Attachments.

Northern & Southern Div. Mgr. A.V. Tice

Arizona	Phoenix	Manager	M.A. Ramov
California	Fresno	"	John Calvert
	Los Angeles	"	S.K. Porter
	Oakland	"	W.R. Pavala
	Sacramento	"	Lou Plummer
Oregon	Portland	"	W.J. Jarvis
Texas	El Paso	"	P.L. Noakes
Utah	Salt Lake City	"	W.P. Quinn
Washington	Seattle	"	Z.W. Therrien
	Spokane	"	M.G. Holm

FULLER MANUFACTURING CO.
Kalamazoo
Michigan

PRODUCTS: Transmissions.

Western District Branch (Warehousing for wholesale only)
California Oakland 541 East 10th Street

Branches and dealers of the truck builders who use Fuller transmissions as original equipment.

THE GALION ALLSTEEL BODY CO.
605 South Market Street
Galion, Ohio

PRODUCTS: Hydraulic Hoses; Steel Dump Bodies; Hydraulic Tailgates; E-Z Pack Refuse Bodies.

WESTERN REGIONAL MANAGER

Missouri Kansas City Pickwick Hotel Earl F. Kelly

DISTRIBUTORS

Arizona	Phoenix	Welch Manufacturing Co.
California	Oakland	F.A.B. Manufacturing Co.
	Los Angeles	Jumbo Equipment Co.
Colorado	Denver	Truck Equipment Co.
Idaho	Bolse	Olson Manufacturing Co.
Montana	Billings	Midland Implement Co., Inc.
Orzoon	Portland	Newell Truck Equipment Co.
Washington	Spokane	Novelty Carriage Works, Inc.
	Seattle	Truck Welding Co., Inc.

THE GALION IRON WORKS & MANUFACTURING CO.
South Street
Galion, Ohio

PRODUCTS: Motor Graders; Road Rollers.

REGIONAL MANAGERS

California Inglewood Box 2032
Oregon Portland 3902 NE 36th Ave. Wm.A. Beale
Robt.N. Shears

DISTRIBUTORS

Arizona	Phoenix	Arizona Cedar Rapids Co.
	Tucson	F.Ronsdahl Hardware Co.
California	Bakersfield	Brown-Beyts Industrial Equipment Co.
	Los Angeles	"
	San Francisco	Western Traction Co.
Colorado	Denver	"
Idaho	Bolse	H.W. Moore Equipment Co.
Montana	Billings	Western Equipment Co.
	Butte	Hall-Perry Machinery Co.
	Great Falls	"
Nevada	Reno	General Equipment Co.
New Mexico	Albuquerque	Lively Equipment Co.
Oregon	Portland	P.L.Crooks Co., Inc.
Utah	Salt Lake City	Arnold Machinery Co.
Washington	Seattle	Modern Machinery Co., Inc.
Wyoming	Casper	Western Equipment Co.

CAR-BRO MANUFACTURING CO.
2415 East Washington Blvd.
Los Angeles 21, California

PRODUCTS: Concrete-Placing Equipment; Power Carts; Wheel-Barrows; Batching Plants and Bins.

DISTRIBUTORS

Arizona	Phoenix	Equipment Sales Co.
	"	Lee Redman Equipment Co.
	"	Luna Corporation
	"	Shriver Machinery Co.
California	Los Angeles	Western Machinery Co.
	San Francisco	Girlinghouse Brothers
Colorado	Denver	Edward R.Bacon Co.
Idaho	Bolse	Western Machinery Co.
Montana	Butte	Intermountain Equipment Co.
	"	Hall-Perry Machinery Co.
New Mexico	Albuquerque	Montana Hardware Co.
Oregon	Portland	Contractors Equipment & Supply Co.
Utah	Salt Lake City	Loggers & Contractors Machinery Co.
Washington	Seattle	Arnold Machinery Co.
Spokane	"	A.H.Cox & Co.
Wyoming	Casper	Construction Equipment Co.
	Cheyenne	Studer Tractor & Equipment Co.
		Kereml Tractor & Equipment Co.

Helpful editorial material, authoritatively written, attracts steady readers—that's why WESTERN CONSTRUCTION is read by more contractors and engineers in the West and Alaska than any other construction publication—national, regional or local.

C. I. T. finances installment sales of equipment for many Distributors

GARDNER-DENVER CO.
Quincy
Illinois

PRODUCTS: Stationary and Portable Air Compressors; Rock Drills; Wagon Drills; Concrete Breakers; Backfill Tamers; Clay Diggers; Power and Steam Reciprocating Pumps; Centrifugal Pumps.

FACTORY BRANCHES

California	Los Angeles	Manager	C.W. McKey
	San Francisco	"	C.H. Dirks
Colorado	Denver	"	C.J. Manley
Idaho	Wallace	"	E.E. Vaughan
Montana	Butte	"	R.S. Gibson
Utah	Salt Lake City	"	F.B. Matheson
Washington	Seattle	"	B.D. Elliot

DISTRIBUTORS

Arizona	Kingman	Central Commercial Co.	
	Phoenix	O.S. Stapley Co.	
	"	Jules Vermeersch	
	Tucson	Albert Steinfield & Co.	
California	Los Angeles	Compressor Service Co.	
	"	Pneumatic Machinery Co.	
	"	Republic Supply Co.	
	Riverside	Johnson Tractor Co.	
	San Diego	Gould Hardware & Machinery Co.	
	San Francisco	Geo.M. Philpott Co.	
Colorado	Denver	Air Rentals, Inc.	
	"	Mine & Smelter Supply Co.	
	Grand Junction	Junction Bit & Tool Co.	
Idaho	Bolse	Spencer Supply Co.	
	Idaho Falls	Gene Flaherty	
Montana	Billings	Pioneer Machinery Co.	
	Great Falls	Great Northern Tool Co.	
	Missoula	Agricultural Equipment Co.	
Nevada	Ely	Sanderson Irrigation Sales	
	Las Vegas	Westmont Tractor Co.	
New Mexico	Albuquerque	Halls Hardware Co.	
	Vanaduim	Standard Wholesale Supply Co.	
Oregon	Portland	R.L. Harrison Co.	
	"	Mine Supply, Inc.	
Utah	Monticello	Roars Machinery Co.	
	Salt Lake City	Western Mine Supply	
	"	Air Equipment Co.	
	"	Bogue Supply Co.	
	"	Geligher Machinery Co.	
	"	Lang Co.	
	"	Mine & Smelter Supply Co.	
	Springville	Utah Service Co.	
Washington	Seattle	C.H. Grimm Co.	
	Spokane	General Machinery Co.	
	"	Modern Machinery Co.	
	Wenatchee	E.T. Pybus Co.	
Wyoming	Rock Springs	Miners Mercantile Co.	

GARRISON MANUFACTURING COMPANY
1500 So. Santa Fe Avenue
Los Angeles 21, California

PRODUCTS: Hydraulic Steering Boosters and Special Hydraulic Equipment for Trucks, Truck Cranes, Graders and Tractors.

DISTRIBUTORS

California	Los Angeles	Calavar Corp.	
	San Francisco	FWD Pacific Co.	
	Sacramento	Moore Equipment Co.	
Colorado	Denver	Liberty Truck & Parts Co.	
Idaho	Boise	Intermountain Equipment Co.	
Oregon	Portland	P.L. Crooks & Sons	
Utah	Salt Lake City	Cafe Equipment Co.	
Washington	Spokane	Intermountain Equipment Co.	
Wyoming	Casper	Studer Equipment Co.	
	Cheyenne	Keremi Equipment & Tractor Co.	

GAR WOOD INDUSTRIES, INC.
Wayne
Michigan

PRODUCTS: Gar Wood Shovels; Cranes and Truck Cranes.

ASSISTANT SALES MANAGER

California Richmond Gar Wood Ind., Inc. A.M. Guthrie

DISTRIBUTORS

Arizona	Phoenix	Equipment Sales Co.	
California	El Monte	Wernock-Bencroft Equipment Co.	
	Oakland	Buren Equipment Co.	
	Santa Clara	"	
Colorado	Denver	Western Machinery Co.	
	Grand Junction	S & M Supply Company	
Montana	Billings	Seitz Machinery Co.	
	Great Falls	"	
New Mexico	Albuquerque	Lively Equipment Co.	
	Roswell	Smith Machinery Co.	
Oregon	Eugene	Pope Brothers	
Washington	Seattle	Air-Mac, Inc. of Washington	
Wyoming	Casper	Studer Tractor & Equipment Co.	

GAR WOOD INDUSTRIES, INC.
4th and Wright Streets
Richmond, California

PRODUCTS: Gar Wood Hoists and Dump Bodies; Winches; Cranes and Derricks; Gar Wood Bottom Dump Hopper Bodies; Gar Wood Elevating End Gates; Hi-Lift Hoists; Load-Packer Refuse Collection Bodies.

National Lift; Jumbo Hoists; Pick-Up Dump-O-Matic Hoists; Pick-Up Lift-O-Matic Tailgate Lifts.

FACTORY BRANCHES

California Richmond Bay Area Sales George F. Martin, Mar.
Los Angeles 4515 S. Soto St. A.F. Hoop, Mar.

DIVISION SALES OFFICE

California Richmond Division Manager M.L. Shepard
Div. Sales Mgr. D.J. Byrd

DISTRIBUTORS

Alaska	(Seattle)	Northern Commercial Co.	
Arizona	Phoenix	Allison Steel Manufacturing Co.	
California	Bakersfield	California Truck & Ind. Equip. Co.	
	Fresno	Fresno Traller Co.	
	Pomona	Win Ward Company	
	San Diego	Utility Traller Sales Co.	
Idaho	Bolse	The Sawtooth Company	
	Pocatello	Willamson Body & Equipment Co.	
Nevada	Reno	Sierra Machinery Co.	
Oregon	Portland	Pierce Traller & Equipment Co.	
Utah	Ogden	Willamson Body & Equipment Co.	
	Salt Lake City	Willamson's, Inc.	
Washington	Seattle	Transport Traller Co.	
	Spokane	General Machinery Co.	

GAR WOOD INDUSTRIES, INC.

Wayne
Michigan

PRODUCTS: Gar Wood Dozers & Power Control Units.

DISTRICT MANAGER

California Richmond Gar Wood Ind. Melvin Staben

DISTRIBUTORS

Alaska	(Seattle)	Yukon Equipment, Inc.	
Arizona	Phoenix	Nell B. McGinnis Equipment Co.	
California	Bakersfield	San Joaquin Tractor Co.	
	Eureka	Alkins Tractor Co.	
	Fresno	Moore Equipment Co., Inc.	
	Los Angeles	Shaw Sales & Service Co.	
N. Sacramento	"	Moore Equipment Co., Inc.	
Oakland	"	Buran Equipment Co.	
Redding	"	Moore Equipment Co., Inc.	
Santa Clara	"	Buran Equipment Co.	
Stockton	"	Moore Equipment Co., Inc.	
Colorado	Denver	Power Equipment Co.	
Idaho	Boise	Southern Idaho Equipment Co.	
	Idaho Falls	"	
	Twin Falls	"	
Montana	Billings	Selfz Machinery Co.	
	Great Falls	"	
	Missoula	Mountain Tractor Co.	
Nevada	Sidney	Richland Machinery Co.	
	Elko	A-D Machinery Co.	
	Reno	Moore Equipment Co., Inc.	
New Mexico	Albuquerque	Harry Cornelius Co.	
	Roswell	Smith Machinery Co.	
Oregon	Eugene	Pope Brothers	
	Medford	Haupert Tractor Co.	
	Portland	Wood Tractor Co.	
	The Dalles	Dieleschneider Equipment Co.	
Utah	Salt Lake City	Cafe Equipment Co.	
Washington	Seattle	A.H. Cox & Co.	
	Spokane	American Machine Co.	
	Wenatchee	Mid-State Equipment Co.	
Wyoming	Casper	Studer Tractor & Equipment Co.	

GAR WOOD INDUSTRIES, INC.

Wayne
Michigan

PRODUCTS: Buckeye Ditchers; Hi-Way Wideners; Finegraders and Spreaders.

ASSISTANT SALES MANAGER

California Richmond Gar Wood Industries A.M. Guthrie

DISTRIBUTORS

Arizona	Phoenix	Equipment Sales Co.	
California	El Monte	Wernock-Bencroft Equipment Co.	
	Fresno	Moore Equipment Co., Inc.	
	N. Sacramento	"	
	Oakland	Buren Equipment Co.	
	Redding	Moore Equipment Co., Inc.	
	Santa Clara	Buren Equipment Co.	
Colorado	Denver	Moore Equipment Co., Inc.	
	Grand Junction	S & M Supply Company	

Continued next page

C. I. T. CORPORATION

660 Market Street, San Francisco
Equitable Building, Portland
416 West 8th Street, Los Angeles

GAR WOOD INDUSTRIES, INC (CONTINUED)

Idaho	Boise	Southern Idaho Equipment Co.
	Idaho Falls	" " " "
	Twin Falls	" " " "
Montana	Billings	Seltz Machinery Co.
	Great Falls	" " "
Nevada	Elko	A-D Machinery Co.
	Reno	Moore Equipment Co.
New Mexico	Albuquerque	Lively Equipment Co.
	Roswell	Smith Machinery Co.
Oregon	Eugene	Pape Brothers
	Portland	Cramer Machinery Co.
Utah	Salt Lake City	The Lang Co.
Washington	Spokane	Construction Equipment Co.
Wyoming	Casper	Studer Tractor & Equipment Co.

GATE CITY STEEL
4000 Warm Springs Ave.
Boise, Idaho

PRODUCTS: Roto-Beater for Weed Control, etc; Fabricated Steel for Construction; Trailers--Bottom Dump, Low Bed.

GMC TRUCK & COACH DIVISION
General Motors Corporation
660 South Boulevard East
Pontiac II, Michigan

PRODUCTS: GMC Trucks, Gasoline & Diesel.

DEALERS IN ALL PRINCIPLE CITIES

GILSON BROTHERS COMPANY
Fredonia
Wisconsin

PRODUCTS: Concrete Mixers; Mortar and Plaster Mixers; Limestone Pulverizers.

DISTRIBUTORS

California	San Diego	Hudson Equipment Co.
Colorado	Denver	Mine & Smelter Supply Co.
Montana	Billings	Rental Equipment Co.
New Mexico	Albuquerque	N.C.Ribble Co.
Oregon	Medford	Cal-Ore Machinery Co.
Utah	Salt Lake City	C.H.Jones Equipment Co.

THE GLEDHILL ROAD MACHINERY CO.
S. State Road 1
Galion, Ohio

PRODUCTS: Sno-Plows; Spreaders; Graders; Grader Blades; Pavers; Road Maintainers; Earth Movers; Road-Side Sprayers; Portable Scales.

DISTRIBUTORS

California	San Francisco	Western Traction Co.
Colorado	Denver	Woeber Auto Body
Idaho	Boise	Starline Equipment Co.
New Mexico	Albuquerque	N.C.Ribble Co.
Oregon	Portland	Westland Equipment Co.
Utah	Salt Lake City	Rasmussen Equipment Co.
Washington	Seattle	Modern Machinery Co.
		" "
		" "

GOOD ROADS MACHINERY CORP.
Bridge Street
Minerva, Ohio

PRODUCTS: Snow Plows; Spreaders (both aggregate and towed type); Leaf Collectors, Motorized Scavenger (a refuse collector); Underbody Scrapers.

DISTRIBUTORS

Arizona	Phoenix	Western Machinery Co.
California	Los Angeles	Smith-Booth-Usher Co.
	San Francisco	A.L.Young Machinery Co.
Colorado	Denver	Power Equipment Co.
Idaho	Boise	Intermountain Equipment Co.
Montana	Salt Lake City	Lund Machinery Co.
	"	Seltz Machinery Co.
Nevada	(Salt Lake)	Montana Powder & Equipment Co.
	(Los Angeles)	T.S.Cowger Company
New Mexico	Albuquerque	Lund Machinery Co.
Oregon	Portland	Howard-Cooper Corp.
Utah	Salt Lake City	Lund Machinery Co.
Washington	Seattle	Howard-Cooper Corp.

Construction methods in the West are different—therefore the reading requirements of Western contractors and engineers are different. To tell your sales story effectively in the West, put WESTERN CONSTRUCTION on your national schedule.

GORMAN RUPP CO.
305 Bowman Street
Mansfield, Ohio

PRODUCTS: Self-Priming Centrifugal Pumps.

DISTRICT REPRESENTATIVES

California	Arcadia	1811 S. 8th St.	WILLIS T. HOLMES
Colorado	(Kansas City)	6915 Linda Lane	W.M.S. MILLER
New Mexico	(Houston)	1475 Suebarnett	Geo.W. Erbe
Washington	Edmonds	Box 104	Robert L. Nicolai

DISTRIBUTORS

Arizona	Phoenix	NELL B. MCGINNIS CO.	
California	Fresno	Moore Equipment Co.	
	Los Angeles	Harron, Rickard & McCone	
	Oakland	Bay Cities Equipment, Inc.	
	Redding	Moore Equipment Co.	
	Sacramento	Bay Cities Equipment Co.	
	Stockton	Moore Equipment Co.	
Colorado	Denver	McKelvy Machine Co.	
Idaho	Boise	Starline Equipment Co.	
Montana	Billings	Western Construction Equipment Co.	
	Missoula	" " " "	
Nevada	Reno	Nevada Equipment Service, Inc.	
New Mexico	Albuquerque	The Harry Cornelius Co.	
Oregon	Portland	Anderson Machinery Co.	
Utah	Salt Lake City	The Lang Co.	
Washington	Seattle	Pacific Hoist & Derrick Co.	
	Spokane	Andrews Equipment Service of Washington	
Wyoming	Casper	Studer Tractor & Equipment Co.	

W.E.GRACE MFG. COMPANY
6000 S. Lamar
Dallas, Texas

PRODUCTS: Road Sweepers; Pneumatic Rollers; Sheepfoot Rollers; Circulating Asphalt Heaters; Oil Heaters for Asphalt Storage; Chip Spreaders; Asphaltic Concrete Spreaders.

GRADALL DIVISION - WARNER & SWASEY CO.
5701 Carnegie Avenue
Cleveland 3, Ohio

PRODUCTS: Multi-Purpose Earthmoving and Construction Machine

FIELD ENGINEERS

California Los Angeles 3340 Leonis Blvd. R. Bechtel
S.H.Coffman, Jr.

DISTRIBUTORS

Arizona	Phoenix	State Tractor & Equipment Co.	
California	Los Angeles	Brown-Bevins Industrial Equipment Co.	
	San Francisco	Contractors Machinery Co.	
	Boise	Engineering Sales Service Co.	
Oregon	Portland	Columbia Equipment Co.	
Montana	Billings	Western Construction Equipment Co.	
Utah	Salt Lake City	Rocky Mountain Machinery Co.	
Washington	Seattle	Columbia Equipment Co.	

Idaho	Bolse	Engineering Sales Service Co.	
Oregon	Portland	Columbia Equipment Co.	
Montana	Billings	Western Construction Equipment Co.	
Utah	Salt Lake City	Rocky Mountain Machinery Co.	
Washington	Seattle	Columbia Equipment Co.	

GRIPHOIST, INC.
700 Polk Street
San Francisco 9, Calif.

PRODUCTS: The TIRFOR GRIPHOIST is patented combined winch, hoist and clamshell.

DISTRIBUTORS

California	Berkeley	J.R. Feeney	
	Corcoran	Corcoran Machine Works	
	Los Angeles	Abernathy & Co.	
	" "	Schuler & James, Inc.	
	Rio Vista	Oil Filter Materials Co.	
	Sacramento	Oil Filter Service Co.	
	San Diego	Hudson Equipment Co.	
	San Francisco	C.H.Bull Co.	
	Stockton	Stockton Iron Works	
Colorado	Denver	Johnson Supply Co.	
	Grand Junction	S & M Supply Co., Inc.	
Idaho	Wallace	Coeur d'Alene Hardware & Foundry Co.	
Nevada	Elko	A-D Machinery Co.	
	Reno	Pioneer Equipment Co. of Nevada, Inc.	
Utah	Salt Lake City	Cafe Equipment Co.	

The WESTERN CONSTRUCTION Annual Highways Issue, published each year in June, is a yearbook of progress in Western highway design, construction methods and costs. Advertisers in this special issue gain extra reader interest.

C. I. T. specializes in financing equipment for Distributors and Contractors

GUNDERSON-TAYLOR MACHINERY CO.
1237 Shoshone Street
Denver, Colorado

PRODUCTS: Gunderson-Taylor Triplex Tamers,
DISTRIBUTORS

Any authorized dealer or distributor of air equipment.

GUNNISON MANUFACTURING CO.
201 Lynn Avenue
Baraboo, Wisconsin

PRODUCTS: Asphalt Distributors; Asphalt Supply Tanks;
Maintenance Distributors; Water Sprinklers and
Street Flushers.

DISTRIBUTORS

California Los Angeles	R.T.Muirhead Co.
Colorado Denver	Power Equipment Co.
Idaho Idaho Falls	Southern Idaho Equipment Co.
Montana Billings	Setz Machinery Co., Inc.
New Mexico Albuquerque	N.C.Ribble Co.
Utah Salt Lake City	The Lang Co.
Washington Seattle	Jack Sahlberg Equipment Co.
Spokane	Construction Equipment Co.

GEORGE HAISS MANUFACTURING CO., INC.
Subsidiary of Pettibone Mulliken Corp.
350 Fifth Avenue
New York, New York

PRODUCTS: Bucket Loaders; Snow Loaders; Coal Loaders; Clamshell
Buckets; Conveyors and Car Unloaders.

FACTORY BRANCH

California N.Hollywood 8900 Tujunga Ave. Pettibone Wood Mfg.

DISTRICT REPRESENTATIVES

California N.Hollywood	12147 Huston St.	C.W.Cedarette
Colorado Denver	2800 Newport St.	A.A.Ainlay
Washington Seattle	4975 3rd Ave. So.	N.Anderson

DISTRIBUTORS

Arizona Phoenix	Arizona Equipment Sales, Inc.
California Los Angeles	Calaver Corp.
San Francisco	FWD Pacific Co.
Stockton	Moore Equipment Co.
Idaho Boise	Carl L.Burt Equipment Co.
Montana Helena	Montana Powder & Equipment Co.
Nevada Reno	Moore Equipment Co.
New Mexico Albuquerque	Harry Cornelius Co.
Oregon Portland	Balzer Machinery Co.
Utah Salt Lake City	Rocky Mountain Machinery Co.
Washington Seattle	Modern Machinery Co., Inc.
Spokane	"
Wyoming Cheyenne	Mountain Equipment Co.

THE HANSON CLUTCH & MACHINERY CO.
Miami Street
Tiffin 15, Ohio

PRODUCTS: Back Hoes; Truck & Wagon Cranes; Crawler Excavators;
Draglines; Pull Shovels; Shovels; Low Platform
Machinery Trailers; Truck Shovels; Yard & Dock
Cranes; 3 and 5 tons.

DISTRIBUTORS

Arizona Phoenix	Arizona Cedar Rapids Co.
California Los Angeles	Larson Equipment Co.
Oregon Portland	Ted Henry Co.
Utah N.Salt Lake	Taylor Machinery Co.
Washington Seattle	Reliance Equipment & Supply Co.

HARNISCHFEGER CORPORATION
4400 West National Avenue
Milwaukee 46, Wisconsin

PRODUCTS: Truck Cranes; Diesel Engines; Power Shovels; Soil
Stabilizers; Elevating Sierre Loaders; Welding
Equipment; Overhead Cranes; Electric Hoists;
Prefabricated Homes.

PACIFIC DIVISION HEADQUARTERS & PLANT

California Los Angeles General Manager T.J.Jeanneret

FACTORY BRANCHES

California Los Angeles	District Manager	W.G.Godfrey
San Francisco	"	L.M.Stout
Colorado Denver	"	W.H.DeHuff
Washington Seattle	"	P.H.Hunter

DISTRIBUTORS

Arizona Phoenix	Arizona Equipment Sales, Inc. (H-X)
"	Smith & Klemmer Co. (WR)
"	United Auto Weld Co. (WR-X)
Prescott	Arizona Mining Supply Corp. (WR)

Continued next column

HARNISCHFEGER CORPORATION (CONTINUED)

California Alhambra	Frank Cox Equipment Co. (WR)
Alturas	Moly & Van Dyke (WR)
Bakersfield	Gordon's Industrial (H)
"	Hopper Machine Works (H-WR)
Berkeley	Leader Welding & Equipment Co. (WR)
Compton	Industrial-Welding Supply Co. (WR)
Crescent City	Industrial Electric Service Co. (H)
El Centro	Purdy & Holquist (X)
Emeryville	Balaam Bros. (WR)
Escondido	Agricultural Supply Co. (WR)
Eureka	Riley Logging (X)
Fresno	Allied Equipment Co. (X)
"	Federal Pipe & Supply Co. (WR)
Glendale	H.M.Parker & Son (WR)
Hawthorne	Sonnet Supply Co. (H)
Long Beach	Long Beach Welders Supply Co. (WR)
"	H.L.Tullis (WR)
Los Angeles	Absco Welding Supplies (H-WR)
"	Cook Bros. (X)
"	Gordon Duff, Inc. (WR)
"	P.George Fennington (WR)
"	Ira G.Perlin Co. (H)
"	Shaw Sales & Service Co. (WR)
"	Southern Steel & Supply Co. (H)
"	H.C.Wittherspoon Co. (WR)
Oakland	Roll-Rite Corp. (H)
"	Thomas B.Middleton (WR)
Ontario	A & R Equipment Co. (WR)
Redding	Paul Droscher Sales (WR)
Sacramento	Cal-Oxygen Company (WR)
"	Capitol Machine Works (H)
Salinas	Sacramento Valley Tractor Co. (X)
San Bernardino	Farmers Mercantile Co. (X-WR)
San Diego	Lacey Automotive Parts Co. (WR)
"	Reliable Bearing Co. (H)
San Francisco	Production Tools, Inc. (WR)
"	Southern Equipment & Supply Co. (X-WR)
"	California Tramall Co. (H)
"	Federal Pipe & Supply Co. (WR)
"	General Conveyor, Inc. (H)
"	Ira G.Perlin Co. (H)
"	Jay Besore & Associates (WR)
"	Sullivan-Cassimus Co. (WR)
San Jose	A.G.Pond Company (WR)
Santa Ana	V.B.Anderson Co. (WR)
Santa Maria	Hanson Equipment Co. (X)
Santa Rosa	E.C.Kraft & Co. (WR)
Stockton	Hickinbotham Bros., Ltd. (WR)
Colorado Denver	General Welding Supply Co. (H-WR)
"	Liberty Trucks & Parts Co. (X)
"	Lloyd's Railway Supplies (WR)
"	No. One Company (WR)
Idaho Ft.Collins	The Winter-Weiss Co. (WR)
Pueblo	Forney Manufacturing Co. (WR)
Idaho Boise	Arkansas Valley Welders Supply (WR)
"	Motor Accessory & Parts Co. (WR)
"	Starline Equipment Co. (X)
"	Western Equipment Co. (WR)
"	Erb Hardware Co. (WR)
"	Western Machinery Co. (H)
Montana Lewiston (Poatocello)	Industrial Equipment Co. (X-WR)
Billings	Normont Equipment Co. (X-WR)
Great Falls	Caird Engineering Works (WR)
Helena	Treasure State Equipment Co. (X-WR)
Kalispell	Jenkins & Albright (X)
Nevada Reno	Contractors Equipment & Supply Co. (WR)
New Mexico Albuquerque	Leonard Motor Company (X-WR)
Oregon Eugene	American Steel & Supply Co. (H-WR)
Klamath Falls	Moly & Van Dyke (WR)
Portland	Elliott Sales (WR)
"	Industrial Specialties Co. (WR)
"	Loggers & Contractors Machinery (X-WR)
Utah Roseburg	Portland Machinery Co. (H)
Hurricane	Industrial Electric Service Co. (H)
Ogden	Scholzen Products Co. (WR)
Salt Lake City	C & C Welding Supply Co. (WR)
"	Koopsel & Lov (WR)
"	Western Machinery Co. (X-H)
Washington Aberdeen	Industrial Electric Service Co. (H-WR)
Bellingham	Ekdahl & Sepala, Inc. (WR)
Ellensburg	Frank Hagen & Company (WR)
Everett	Industrial Electric Service Co. (H)
Forks	Ulin Maintenance & Supply Co. (WR)
Pasco	Randol & Taylor Plumbing & Heating (WR)
Seattle	Acetogen Cutting Gas Co. (WR)
"	Air Mac, Inc. of Washington (H)
"	Bow Lake Equipment Co. (X-WR)
"	Glenn Carrington & Co. (Alaska) (X-WR)
Spokane	Construction Equipment Co. (X)
"	Grange Cooperative Wholesale (WR)
Tacoma	Washington Machinery & Supply Co. (H)
Wenatchee	Miraldi Welding Supplies, Inc. (WR)
Yakima	Wells & Wade, Inc. (WR)
"	Arthur Krum Company (WR)

CODE: "H" for Hoists; "X" for Excavators; "WR" for Welding.

Western contractors work all over the West; that's why it's important to use the magazine that covers ALL the West—WESTERN CONSTRUCTION.

C. I. T. CORPORATION

660 Market Street, San Francisco
Equitable Building, Portland

HARRIS MANUFACTURING COMPANY
729 1/2 W. San Way
Stockton, California

PRODUCTS: Harris 4-Wheel Drive Tractors: Models FBW-C, FSW-C, FDW-C, RDW-C, Row-C.

DISTRIBUTORS

Arizona	Tucson	Slack & Stewart
California	Alturas	Farmers Exchange of Modoc
	Chico	Slattery Tractor Co.
	Los Angeles	Crook Co.
	Merced	Third Welding & Manufacturing Works
	Richmond	Bay Equipment Co.
	Y. Valley	Tulare County Tractor Co.
Colorado	Denver	Colorado Machinery & Supply Co.
	Franklin	Porter Tractor Sales
Montana	Sidney	Williams Motor Co.
Nevada	Reno	Sierra Machinery Co.
New Mexico	Albuquerque	N.C. Ribble Co.
Oregon	Clatskanie	Clatskanie Tractor Co.
	Eugene	Eugene Farmers Coop.
	Independence	Francis Farm Equipment
	Medford	Cal-Ore Machinery Co.
Utah	Pendleton	Timple Farm Equipment Co.
Washington	Salt Lake City	Rocky Mountain Machinery Co.
	Coffey	McSweeney Tractor Co.
	Olympia	K & C Tractor Co.
	Seattle	Parts Distributors, Inc.
	Walla Walla	Melcher-Ray Machinery Co.
	Yakima	Westside Implement Co.

HAUCK MANUFACTURING COMPANY
124-126 Tenth Street
Brooklyn 34, New York

PRODUCTS: Oil and Gas Burning Tar and Asphalt Melting Kettles; Lead Melting Furnaces; Compound Melting Furnaces; Portable Burners and Torches; Fire Guns; Asphalt Paving Tool Heaters; Asphalt Surface Heaters; Burners for Road Oil Distributors; Portable Hopper Car Thawing Tube Equipment; Steam Thawers.

FACTORY BRANCHES

California	San Fran	Manager	H.B. Cleveland
	Los Angeles	"	Alvin M. Cunningham
Illinois	Chicago	"	D. Clark

B.M. REED, INC.
80 Broad Street
New York 4, New York

PRODUCTS: Hydraulic Jacks for Slipform Construction; Steel Yokes; Pumps; Oil Pipe and Connections, etc.; Complete Equipment supplied for raising of forms - leased only; Slipform Machine for single silo construction - sold or leased.

THE HEIL COMPANY
3000 W. Monte St.
Milwaukee 1, Wisconsin

PRODUCTS: Truck Bodies and Hoists.

FACTORY BRANCH MANAGERS

California	Los Angeles	417 So. Hill St.	Len Andersen
Colorado	Denver	505 Colorado Bldg.	John Zimmerman
Washington	Seattle	805 White Henry St.	Claude Conrad

DISTRIBUTORS

Arizona	Phoenix	Utility Tractor Sales Co.
California	Los Angeles	Transportation Equipment Co.
	Modesto	Heil Equipment of Northern California
	Sacramento	" " " "
	San Francisco	" " " "
Montana	Billings	HCL Equipment Co.
	Great Falls	" " " "
Oregon	Portland	Craehl Motor Service
Utah	Salt Lake City	Schekly Equipment Corp.
Washington	Seattle	The Long Co.
	"	American Machine Co.
		Glen Carrington Co. (Alaska)

HEITZEL STEEL FORM & IRON CO.
Warren
Ohio

PRODUCTS: Portable Aggregate Batch Plants; Portable Bulk Cement Plants; Stationary Batching Plants for the Concrete Products; Transit-Mix and Central-Mix Industries; Bulk Cement Batching Plants; Concrete Buckets; Road and Airport Forms; Curb, Curb and Gutter, Sidewalk and Special Forms; Storage Bins; Bulk Cement Elevators; Truck Mixer Batching; Combination Batching; Universal Batching; Dual Aggregate Batching; Dustless Cement Batching; Dual Cement Batching.

DISTRIBUTORS

Arizona	Phoenix	Equipment Sales Co.
	Los Angeles	Carlislehouse Brothers
	Oakland	The Bruce Co.

continued next column

HEITZEL STEEL FORM & IRON CO. (CONT'D.) (ED)

Colorado	Denver	Ray Corson Machinery Co.
Montana	Butte	Hall-Perry Machinery Co.
	Great Falls	" " " "
New Mexico	Albuquerque	Contractors Equipment & Supply Co.
Oregon	Portland	Columbia Equipment Co.
Utah	Salt Lake City	The Long Company
Wyoming	Cheyenne	Keremi Tractor & Equipment Co.

HENDRIX MANUFACTURING COMPANY
Jenkins Street - P.O. Box 31
Mansfield, Louisiana

PRODUCTS: Dragline Buckets.

Write us for name of your nearest dealer

HENSLEY EQUIPMENT CO.
816 98th Avenue
Oakland 3, California

PRODUCTS: Ripping Attachments for Dozers and Carry Scrapers; Scraper Points; Shanks; Overlay End Bits for Motor Patrols; Heavy Duty Rockbits for Dozer Blades; D-7 & D-8 Bottom Track Rollers; D-8 Rail; Cutting Edges.

DISTRIBUTORS

Alaska	Anchorage	Western Tractor & Equipment Co.
Arizona	Fairbanks	" " " "
California	Phoenix	Western Machinery Co.
	Chico	Chico Auto Parts
	Eureka	McGarraghan Supply Co.
	Los Angeles	John A. Batchelor
	Maysville	Hust Bros.
	Oroville	Oroville Auto Parts
	Radding	Lovry Equipment Co.
	San Diego	Hudson Co.
	San Luis Obispo	Farmers Hardware & Equipment Co.
	Stockton	Stockton Iron Works
	Ukiah	Holz Co.
Colorado	Denver	Joe Smith Machinery
	Grand Junction	S & M Supply Co.
	Trinidad	Herbert Sherpe Equipment Co.
Idaho	Boise	Engineering Sales Service
Montana	Kalispell	Treasure State Equipment Co.
	Missoula	" " " "
Nevada	Elko	Elko Blacksmith Shop
	Reno	Pioneer Equipment Co.
New Mexico	Albuquerque	Lively Equipment Co.
Oregon	Eugene	Western Equipment Co.
	Medford	Cal-Ore Machinery Co.
Utah	Salt Lake City	J.T. Holland Co.
Washington	Chehalis	Western Tractor & Equipment Co.
	Seattle	Western Machinery Co.
	Spokane	Western Tractor & Equipment Co.
	Tacoma	Keremi Tractor & Equipment Co.
Wyoming	Cheyenne	" " " "

HERCULES MOTORS CORP.
101 Eleventh St., S.E.
Canton, Ohio

PRODUCTS: Internal Combustion Engine and Power Units.

FACTORY BRANCH

California Los Angeles 2336 S. Garfield Ave. W.D. Brumback

DISTRIBUTORS

Arizona	Phoenix	Schuler & James, Inc.
California	Bakersfield	Hydro Precision Bearing Co.
	San Diego	Westerlund & Lange
	San Francisco	Bay Engine & Parts Co.
Colorado	Denver	Liberty Trucks & Parts Co.
Idaho	Bilings	The Sawtooth Co.
Montana	New Mexico	Western Construction Equipment Co.
	Albuquerque	Pound Brothers
	Portland	Loggers & Contractors Machinery Co.
Oregon	Salt Lake City	Diamond T. Utah, Inc.
Utah	Seattle	Star Machinery Co.
	Spokane	" " " "
Washington	Chehalis	" " " "

HERCULES POWDER COMPANY
225 Bush Street
San Francisco 4, California

PRODUCTS: High explosives and blasting supplies.

FACTORY BRANCHES

California San Francisco Manager
Los Angeles " " " "
Utah Salt Lake City " " " "
W.W. Early

DISTRIBUTORS

Dealers are located in the major cities and towns throughout the West.

C. I. T. finances installment sales of equipment for many Distributors

HERCULES STEEL PRODUCTS CORP.
Sherman Street
Gallion, Ohio

PRODUCTS: Hydraulic Hoists; Dump Bodies; Dump Trailers; Telescopic Hoists; Lift Gates; Sand & Cinder Spreaders; Agricultural Spreaders; Cement Spreaders.

DISTRIBUTORS

Arizona	Phoenix	Southwestern
California	Los Angeles	Metalc Body Works, Inc.
	Oakland	Earl Sherman Co.
Colorado	Alemano	McKee Equipment Co., Inc.
Idaho	Blackfoot	Custom Body Works
Oregon	Portland	Newell Truck Equipment Co.
Utah	Salt Lake City	Wagstaff Company
Washington	Seattle	Evergreen Trailer Co.
	"	Jack Sahlberg Equipment Co.

HERMAN NELSON DIVISION
American Air Filter Co., Inc.
215 Central Avenue
Louisville 8, Kentucky

PRODUCTS: Portable Space Heaters.

DISTRIBUTORS

California	Fresno	Edward R. Bacon Co.
	Oakland	" " " "
	Sacramento	" " " "
	San Francisco	" " " "
Idaho	Boise	Intermountain Equipment Co.
	(Idaho Falls)	Arnold Machinery Co.
	Pocatello	Intermountain Equipment Co.
Oregon	Eugene	Loggers & Contractors Machinery Co.
	Portland	" " " "
Utah	Salt Lake City	Arnold Machinery Co.
Washington	Seattle	A.H. Cox & Co.
	Spokane	Western Machinery Co.
	Tacoma	A.H. Cox & Co.
	Wenatchee	" " " "

HEATHERINGTON & BERNER, INC.
701 Kentucky Avenue
Indianapolis 7, Indiana

PRODUCTS: Asphalt Plants; Moto-Pavers; Moto-Patchers; Sand and Gravel Pumps; Jacketed Pipe & Fittings; Street Paving and Maintenance Tools.

DISTRIBUTORS

Arizona	Phoenix	O.S. Stapley Co.
California	Los Angeles	Crook Co.
Colorado	Denver	Liberty Trucks & Parts Co.
Montana	Helena	Montana Powder & Equipment Co.
Oregon	Portland	Contractors Equipment Co.
Utah	Salt Lake City	Rocky Mountain Machinery Co.
Washington	Seattle	Pacific Hoist & Derrick Co.

HIGHWAY EQUIPMENT CO., INC.
616 "N" Avenue Northwest
Cedar Rapids, Iowa

PRODUCTS: Spreaders; Sand, Salt, Cinder Spreaders for Seal Coat, Ice Control and Dust Control; Tailgate Spinner Type, Model DD, Model J Tailgate, Traction Type; Truck Mounted Drag Chain and Spinner Type, Models E & W; Aggregate Spreader, Traction Driven, Force Feed, Towed Type, Model R; Model A.S.Towed Type Bituminous, Concrete and Aggregate Spreader; Bulk Cement Bodies, Self-Unloading.

DISTRIBUTORS

Arizona	Phoenix	Equipment Sales Co.
California	Los Angeles	Brown-Bevill Industrial Equipment Co.
	San Francisco	Standard Machinery Co.
Colorado	Denver	H.W. Moore Equipment Co.
Idaho	Boise	Western Equipment Co.
Montana	Billings	Parkinson Tractor Co.
Nevada	Reno	H.C.L. Equipment Co.
Oregon	Portland	Feeney Machinery Co.
Utah	Salt Lake City	Rocky Mountain Machinery Co.
Washington	Spokane	Feeney Machinery Co.
Wyoming	Cheyenne	Wortham Machinery Co.

Read WESTERN CONSTRUCTION for—

- The latest job methods and costs in the West
- Up-to-date equipment and supply information
- Job progress news, who's doing what
- News of contractors, distributors, engineers

H. & L. TOOTH COMPANY
1540 South Greenwood Avenue
Montebello, California

PRODUCTS: Teeth for Excavating Equipment

DISTRIBUTORS

Arizona	Phoenix	Equipment Sales Co.
California	Bakersfield	Hopper Machine Co.
	Fresno	Edward R. Bacon Co.
	Sacramento	" " " "
	San Francisco	" " " "
Colorado	Denver	Air Rentals, Inc.
Idaho	Boise	Sterline Equipment Company
Montana	Billings	Hall-Perry Machinery Co.
	Butte	" " " "
	Great Falls	" " " "
Nevada	Reno	Sierra Machinery Co.
New Mexico	Albuquerque	C.D. Roeder Equipment Co.
Oregon	Portland	Contractors Equipment & Supply Co.
Utah	Salt Lake City	Howard-Cooper Corporation
Washington	Seattle	Heiner Equipment Co.
	Spokane	Howard-Cooper Corporation
		Modern Machinery Co.

HOBART BROTHERS
Hobart Square
Troy, Ohio

PRODUCTS: Electric or Gasoline Driven Arc Welders; Power Units; Combination Units; Welding Accessories & Electrodes.

DISTRIBUTORS

Arizona	Phoenix	Phoenix Welding Supply Co.
California	Emeryville	Belaam Brothers
	Fresno	S.J. Stiger
	Los Angeles	Anderson Equipment Co.
	" "	Howard Welder Sales & Service
	Pleasant Hills	Myron A. King
	" "	Bailey Equipment Co.
	San Diego	San Diego Welders Supply Co.
	" "	Pacific Hardware & Steel Co., Inc.
	San Jose	McCormick-Morgan Co.
	San Francisco	J.R. Zaks
	Santa Ana	V.B. Anderson Co.
	Santa Maria	Coast Welding Supply
	Whittier	Hobart Welder Sales & Service
Colorado	Denver	Acetylene Service Co.
	" "	General Welding Supply Co.
	Pueblo	J.F. Damann Supply Co.
Idaho	Boise	Intermountain Equipment Co.
Montana	Billings	General Distributing Co.
	Great Falls	Inland Service & Supply Co.
Nevada	Las Vegas	Sierra Machinery Co.
New Mexico	Reno	R.L. Harrison Co., Inc.
	Farmington	Noel Hardware
Oregon	Portland	Welders Supply Co.
Utah	Salt Lake City	Whitmore Oxygen Co.
Washington	Seattle	Rock & Wright
	" "	Yukon Equipment, Inc.
	Spokane	Intermountain Equipment Co.
	" "	Spokane Welder Supply Co.

HOMELITE CORPORATION
Riverdale Avenue
Port Chester, New York

PRODUCTS: Chain Saws; Generators; Gasoline-Engine Driven Self-Priming Pumps; Blowers; Electric-Driven Pumps; Floodlights.

FACTORY BRANCH MANAGERS

California	Fresno	2308 Ventura St. LaMar Cheney
	Los Angeles	624 S. Anderson C.E. Southwick
	Sacramento	2234 Auburn Blvd. Richard Dodelin
	San Francisco	1201 Shafter St. Robert C.G. Glidden
Oregon	Portland	3436 S. Milwaukee Guy E. Sabin
Utah	N. Salt Lake	7440 Hwy 91 Lynn Peterson
Washington	Seattle	1911 22nd Ave., S. A.D. Sherwood
	Spokane	E. 3927 Trent Ave. John Cram

DISTRIBUTORS

Colorado	Denver	Lloyd's Railway Supplies
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WESTERN CONSTRUCTION
COVERS THE ENTIRE WEST

And it is the one publication that does

Western Construction is read by more contractors and engineers, the men who buy equipment for Western jobs, than any other construction magazine. Why not present your sales message in this magazine? Western contractors work all over the West as a region, disregarding state lines, and Western Construction follows them wherever they go. What makes the West different from any other section of the country? Western job sites are often remote and hard to get to, projects are larger and more complex, and contractors must save on labor costs. Therefore, the number of pieces of equipment used on each job is higher in the West. If your equipment saves labor, you can sell it in the West.

C. I. T. CORPORATION

660 Market Street, San Francisco
Equitable Building, Portland

416 West 8th Street, Los Angeles

THE FRANK G. HOUSH CO.
Libertyville
Illinois

PRODUCTS: "PAYLOADER" Tractor-Shovels; "PAYLOADER" Tractors.

DISTRICT REPRESENTATIVES

California	Inglewood	Merle M. Fate
	Hillsboro-	
	San Mateo	Donald O. Ross
Colorado	Aurora	David B. Hunsaker
Oregon	Portland	Kenneth B. Larkin

DISTRIBUTORS

Arizona	Phoenix	State Tractor & Equipment Co.
	Tucson	F. Ronstadt Hardware Co.
California	Bakersfield	Brown-Bevis-Industrial Equipment Co.
	Escondido	Southern Equipment & Supply Co.
	Five Points	Allied Equipment Co.
	Fresno	" " "
	Los Angeles	Brown-Bevis-Industrial Equipment Co.
	Madera	Allied Equipment Co.
	Redding	Sullivan & Grove Equipment Co.
	Reedley	Allied Equipment Co.
	Riverside	Braman-Dickerson, Inc.
	Sacramento	Sacramento Valley Tractor Co.
	San Jose	Valley Tractor Co.
	San Diego	Southern Equipment & Supply Co.
Colorado	Santa Maria	Hanson Equipment Co.
Idaho	Denver	H.W. Moore Equipment Co.
	Bolse	Intermountain Equipment Co.
	Pocatello	" " "
Montana	Billings	Industrial Equipment Co.
	Great Falls	NorMont Equipment Co.
	Kalispell	Treasure State Equipment Co.
	Missoula	" " "
Nevada	Las Vegas	Clark County Wholesale Mercantile Co.
New Mexico	Albuquerque	Nevada Equipment Service Co.
Oregon	Albany	J.D. Coopins Co.
	Central Point	Howard-Cooper Corp.
	Coquille	Howard-Cooper Corp.
	Eugene	" " "
	Hermiston	Pendleton Grain Growers, Inc.
	Klamath Falls	J.W. Kerns Co.
	Pendleton	Pendleton Grain Growers, Inc.
	Portland	Howard-Cooper Corp.
Utah	Roseburg	" " "
Washington	Salt Lake City	The Lang Co., Inc.
	Seattle	Glenn Carrington & Co. (for Alastal)
	"	Howard-Cooper Corp.
	Spokane	Intermountain Equipment Co.
Wyoming	Cheyenne	Keremi Tractor & Equipment Co.

THE HUBER MANUFACTURING CO.
202 N. Greenwood Street
Marietta, Ohio

PRODUCTS: Three Wheel and Tandem Road Rollers; Motor Graders; Huber Maintainer.

DISTRICT SALES MANAGER

California San Jose 11841 N. White Rd. C.M. Porter

DISTRIBUTORS

Arizona	Phoenix	The O.S. Stapley Co.
California	Los Angeles	Santa Fe Equipment Co.
	San Francisco	Coast Equipment Co.
Colorado	Denver	Colorado Builders Supply Co.
Idaho	Boise	Feebaugh Machinery Co.
Montana	Billings	Montana Powder & Equipment Co.
Nevada	Reno	Jenkins & Albricht
New Mexico	Albuquerque	Contractors Equipment & Supply Co.
Oregon	Portland	Feebaugh Machinery Co.
Texas	El Paso	Contractors Equipment & Supply Co.
Utah	Salt Lake City	Foulger Equipment Co.
Washington	Seattle	Feebaugh Machinery Co.
	Spokane	" " "
Wyoming	Casper	Colorado Builders Supply Co.

HUGHES-KEENAN CORP.
Delaware
Ohio

PRODUCTS: Cranes.

DISTRIBUTORS

Arizona	(Los Angeles)	James P. Kinney Co.
California	Los Angeles	" " " "
	" "	Casey-Metcalf Machinery Co.
Colorado	Denver	Joe Coursey Equipment Co., Inc.
Montana	Billings	Industrial Equipment Co.
Nevada	(Los Angeles)	James P. Kinney Co.
	(Salt Lake)	Foulger Equipment Co.
New Mex co	(Los Angeles)	James P. Kinney Co.
Utah	Salt Lake City	Foulger Equipment Co.
Wyoming	(Billings)	Industrial Equipment Co.
	(Denver)	Joe Coursey Equipment Co.
	(Salt Lake)	Foulger Equipment Co.

THE HYSTER COMPANY
2982 NE Clackamas
Portland, Oregon

PRODUCTS: Winches; Loading Arches; Construction Equipment; Industrial Lift Trucks; Straddle Trucks; Mobile Cranes; Horizontal Transport Trucks.

DEALERS

TRACTOR EQUIPMENT

Arizona	Phoenix	Arizona Machinery Co.
	Branches:	Casa Grande, Coolidge, Flagstaff, Mesa, Tucson.
	Yuma	Braden Machinery Co.
California	Blythe	Wellton
	Chico	Hennen Machinery Co.
	Branches:	Sierra Tractor & Equipment Co.
	Colusa	Gridley, Red Bluff and Redding, I.G. Zumwalt Co.
	Branches:	Willows, Orland.
	El Centro	Faure Tractor & Equipment Co.
	Branches:	Brawley
	Eureka	Bridzard-Matthews Machinery Co.
	Branches:	Crescent City, Arcata.
	Fresno	Budd & Quinn, Inc.
	Branches:	Firebaugh, Madera, Reedley.
	Hanford	Davies Machinery Co.
	Branches:	Bakersfield, Wasco, Corcoran.
	Los Angeles	Shepherd Tractor & Equipment Co.
	Branches:	Covina, Lancaster, Santa Ana, Saugus.
	Marysville	Marysville Tractor & Equipment
	Branches:	Robbins, Roseville.
	Merced	Hilton Tractor Co.
	Branches:	Chowchilla, Los Banos.
	Modesto	Valley Tractor & Equipment Co.
	Branches:	Turlock.
	Napa	Berglund Tractor & Equipment Co.
	Branches:	Santa Rosa, Willits.
	Oxford	Willace Machinery Co.
	Riverside	Johnson Tractor Co.
	Branches:	Coachella, Ontario.
	Sacramento	Weaver Tractor Co.
	Branches:	Woodland, Dixon, Rio Vista
	Salinas	Pringle Tractor Co.
	Branches:	King City, Watsonville.
	San Diego	San Diego Tractor & Equipment Co.
	Branches:	Escondido
	San Jose	Ditz Bros.
	Branches:	Gilroy, Hollister.
	San Leandro	Peterson Tractor & Equipment Co.
	Branches:	Brentwood, San Francisco, Half Moon Bay.
	Santa Maria	Joseph G. Moore Co.
	Branches:	Goleja, Lompoc, Paso Robles.
	Stockton	Hall Bros.
	Branches:	Lodi Tractor.
	Victoria	Treador Equipment Co.
	Branches:	Delano, Porterville, Tulare.
	Boise	Bunting Tractor Co., Inc.
	Branches:	Burley, Twin Falls.
	Idaho Falls	Parkinson Tractor Co.
	Branches:	American Falls, Rexburg.
	Leviston	Nez Perce Tractor & Equipment Co.
	Preston	Peterson Tractor Service
	Missoula	Westmont Tractor & Equipment Co.
	Branches:	Kalispell.
	Las Vegas	James Cashman Co.
	Reno	Sanford Tractor & Equipment Co.
	Branches:	Elko.
	Klamath Falls	Crater Lake Machinery Co.
	Branches:	Medford, Tulelake, Redmond.
	LeGrande	Inland Machinery Co.
	Branches:	Enterprise, John Day.
	Ontario	Bunting Tractor Co.
	Pendleton	Empire Machinery Co.
	Branches:	Arlington, Athena, Heppner.
	Portland	Interstate Tractor & Equipment Co.
	Branches:	Astoria, Eugene, Coquille, Roseburg, Salem, The Dalles.
	Utah	Peterson Tractor Service
	Logan	Tremonton.
	Branches:	Salt Lake City Wheeler-Kershaw Co.
	Moab	Moab.
	Washington	Interstate Tractor & Equipment Co.
	Longview	Collins Machinery Co.
	Seattle	Mt. Vernon, Port Angeles.
	Branches:	Northern Commercial Co. (Alaska)
	Seattle	Byrne-Ferris Machinery Co.
	Spokane	St. John.
	Branches:	Murphy-Campbell Co.
	Tacoma	Braden Tractor & Equipment Co.
	Walla Walla	Dayton.
	Branches:	Columbia Tractor Co.
	Wenatchee	Okanogan, Ephrata.
	Yakima	Webb Tractor & Equipment Co.
	Branches:	Connell, Ellensburg, Toppenish.

Western contractors work all over the West; that's why it's important to use the magazine that covers ALL the West—WESTERN CONSTRUCTION.

C. I. T. specializes in financing equipment
for Distributors and Contractors

INGERSOLL-RAND COMPANY
11 Broadway
New York 4, New York

PRODUCTS: Backfill Tamers; Blowers; Clay Diggers; Clay Spades; Compressors; Concrete Breakers; Demolition Tools; Drills; Engines, Diesel; Engines, Gas; Grinders; Holes; Pavement Breakers; Pumps; Rammers; Rock Bit Grinders; Rock Bits; Rock Drills; Saws; Spaders; Sump Pumps; Tamers; Vibrators; Wagon Drills.

WESTERN BRANCH OFFICES

California Los Angeles	1460 E. 4th St.	W.J. Heinz
San Francisco	350 Brannan St.	W.C. Collyer
Colorado Denver	1641 Blake St.	A.A. Holland
Idaho (Salt Lake)	144 SW Temple	R.W. Lawson
Montana Butte	845 S. Montana	R.L. Olund
Utah Salt Lake City	144 SW Temple	R.W. Lawson
Washington Seattle	526 1st Ave. S.	J.A. Anderson

DISTRIBUTORS

Arizona Kingman	Tarr, McComb & Ware Comm. Co.
Phoenix	State Tractor & Equipment Co.
Prescott	Arizona Mining & Supply Co.
California Arcata	Loggers & Mill Supply Co.
Bishop	G & M Hardware & Supply Co.
Fresno	Moore Equipment Co.
Grass Valley	Alpha Hardware Store
Los Angeles	Hillman Kelly
N. Sacramento	Moore Equipment Co.
Oakland	Bay Cities Equipment, Inc.
Redding	Moore Equipment Co.
San Diego	Southern Equipment & Supply Co.
San Luis Obispo	A.E. Tomasin
Santa Ana	Blystone Equipment Co.
Stockton	Moore Equipment Co.
Colorado Denver	Colorado Builders Supply Co.
Idaho Boise	Intermountain Equipment Co.
Montana Wallace	Coeur D'Alene Hardware Co.
Nevada Reno	Montana Hardware Co.
New Mexico Albuquerque	Contractors Equipment & Supply Co.
Oregon Portland	Loggers & Contractors Machinery Co.
Utah Salt Lake City	Loggers Equipment Co.
Washington Seattle	Glenn Carrington Co.
Wyoming Casper	Pacific Hoist & Derrick Co.
	Intermountain Equipment Co.
	Wyoming Automotive Co.

INSLEY MANUFACTURING CORP.
P.O. Box 167, 801 N. Olney St.
Indianapolis 6, Indiana

PRODUCTS: Power Shovels; Hoes; Cranes; Clamshell Cranes & Draglines; Rubber & Crawler Mounted; Gasoline, Diesel & Electric Power; Concrete Buckets, Carts, Hoppers & other Concrete Handling Equipment; Rubber Mounted Crane Carriers.

FACTORY BRANCH

California Los Angeles	The Maxi Corp.	J. Ray Elliott, Mgr.
		REGIONAL MANAGERS

California Los Angeles	3270 Wilshire	Lee R. Smith
	Manhattan Beach 1525 Tenth St.	D.J. Nelson

DISTRIBUTORS

Arizona Phoenix	Shriver Machinery Co.
California Bakersfield	Inland Equipment Co.
Los Angeles	Casey-McCalf Machinery Co.
Redding	Sullivan & Crowe Equipment Co.
San Francisco	Western Traction Co.
Stockton	Graco
Colorado Denver	King & East Machinery Corp.
Grand Junction	S & M Supply Co.
Montana Helena	Caird Engineering Works
Nevada Las Vegas	Inland Service & Supply Corp.
New Mexico Albuquerque	M & F Equipment Co.
El Paso, Texas	Equipment Supply Co.
Oregon Portland	Contractors Equipment Corp.
Washington Seattle	Star Machinery Co.
	Spokane

INTERNATIONAL HARVESTER COMPANY
North Avenue & Mannheim Rd.
Melrose Park, Illinois

PRODUCTS: Industrial Crawler Tractors; Wheel Tractors; Motor Trucks; Power Units; Diesel Engines; Bulldozer Blades; Bulldozers; Scrapers

DISTRIBUTORS

Arizona Phoenix	State Tractor & Equipment Co.
Tucson	F. Ronstadl Hardware Co.
Yuma	Yuma Equipment Co.
California Bakersfield	Kern County Equipment Co., Inc.
El Centro	Purdy-Holmquist Co.
Eureka	Howard-Cooper Corp.
Five Points	Allied Equipment Co.
Fresno	
Los Angeles	Brown-Bevins Industrial Equipment Co.
Madera	Allied Equipment Co.

Continued next column

INTERNATIONAL HARVESTER COMPANY (CONTINUED)

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Oakland	Bay Cities Equipment, Inc.
Oxnard	L.G. Mulhardt Equipment Co.
Redding	Sullivan & Crowe Equipment Co.
Reno	Allied Equipment Co.
Riverside	Brennan-Dickerson Co.
Sacramento	Sacramento Valley Tractor Co.
Salinas	Farmers Mercantile Co.
San Diego	Southern Equipment & Supply Co.
San Jose	Valley Equipment Co.
Santa Maria	Hanson Equipment Co.
Santa Rosa	Stevenson Equipment Co.
Stockton	Graco
Strafford	Orton Equipment Co.
Watsonville	Farmers Mercantile Co.
Woodland	Graco
Colorado Idaho	H.W. Moore Equipment Co.
Pocatello	Intermountain Equipment Co.
Billings	Industrial Equipment Co.
Kalispell	Treasure State Equipment Co.
Nevada	Clark County Wholesale Mercantile Co.
Las Vegas	Nevada Equipment Service Co.
Oregon	Howard-Cooper Corporation
Central Point	
Coquille	
Eugene	
Klamath Falls	J.W. Kerns Co.
Pendleton	Pendleton Grain Growers, Inc.
Portland	Howard-Cooper Corporation
Roseburg	
Utah	Salt Lake City The Long Co.
Washington	Glenn Carrington & Co.
Seattle	Howard-Cooper Corporation
Spokane	Intermountain Equipment Co.
Cheyenne	Keremi Tractor & Equipment Co.

INTERNATIONAL MANUFACTURING CO.

675 Rio Grande Avenue
Littleton, Colorado

PRODUCTS: Chinook Wind LP Gas Fired Portable Heaters; Chinook Wind Ventilator and Heater Utility Type; Chinook Wind All Purpose Torch.

DISTRIBUTORS

Arizona Phoenix	Western Machinery Co.
California Richmond	Bay Equipment Co.
	Palmer Scaffolding Co.
Glendale	
Colorado Colorado Springs	Colorado Springs Supply Co.
	King & East Machinery Co.
Denver	Dixons Linoleum Co.
	Wholesale Flooring, Inc.
Idaho Boise	Western Equipment Co.
Idaho Falls	
Montana Great Falls	Hall-Perry Company
Billings	" " "
Butte	" " "
New Mexico Albuquerque	Leonard Motor Co.
Farmington	" " "
Utah Salt Lake City	Western Machinery Co.
" " "	C.H. Jones Equipment Co.
" " "	Hansen Lime & Stucco Co.
Washington Spokane	Western Equipment Co.
Cheyenne	Keremi Tractor & Equipment Co.
Casper	" " "

IOWA MANUFACTURING CO.

916 16th Street NE
Cedar Rapids, Iowa

PRODUCTS: Rock, Gravel and Asphalt Plants; Soil Compaction Units; Coal Machinery; Washing Plants; Conveyors; Motorized Head Pulleys; Screens; Bins; Crushers; Hammermills; Impact Breakers; Feeders and Stationary Rock and Gravel Plants.

DISTRICT REPRESENTATIVES

California San Francisco	6 Fuente	O.E. "Bud" Whitney
Texas Dallas	6415 W.N.E. Highway	Ken V. Turner

DISTRIBUTORS

Arizona Phoenix	Arizona Cedar Rapids Co.
California Los Angeles	Brown-Bevins Industrial Equipment Co.
Oakland	Bay Cities Equipment, Inc.
Colorado Denver	H.W. Moore Equipment Co.
Idaho Boise	Intermountain Equipment Co.
Pocatello	" " "
Montana Billings	Hall-Perry Machinery Co.
Butte	" " "
Great Falls	" " "
Missoula	" " "
Nevada Reno	Sierra Machinery Co.
New Mexico Albuquerque	R.L. Harrison Co.
Portland	P.L. Crooks & Co., Inc.
Utah Salt Lake City	Kimball Equipment Co.
Ephrata	Intermountain Equipment Co.
Seattle	Jack Schilberg Equipment Co.
Spokane	Intermountain Equipment Co.
Cheyenne	Wortham Machinery Co.

C. I. T. CORPORATION

660 Market Street, San Francisco
416 West 8th Street, Los Angeles
Equitable Building, Portland

IRVINGTON FORM & TANK CORP.
20 Vesey Street
New York 7, N.Y.

PRODUCTS: Atlas Compo Walls Forms (Plywood & Steel); Atlas Round Bridge Pier Forms; Atlas Speed Forms (All Steel); All types of special forms.

JACKSON VIBRATORS, INC.
Ludington
Michigan

PRODUCTS: Generator Sets; Power Plants; Soil Compaction Units; Vibrators; Vibratory Screens.

THE AEGER MACHINE COMPANY
550 W. Spring Street
Columbus 10, Ohio

PRODUCTS: Pumps; Aggregate Spreaders; Concrete Mixers; Truck Mixers; Plaster and Mortar Mixers; Concrete Spreaders and Finishers; Air Compressors; Towers and Hoists; Front End Loaders.

FACTORY REPRESENTATIVES

California Sherman Oaks 5107 Mammoth Ave. Herbert F. Twells
Texas Dallas 6821 Merrilee Lane John A. Schultz

DISTRIBUTORS

Arizona	Phoenix	Shriver Machinery Co.
California	Los Angeles	Smith-Booth-Usher Co.
	San Francisco	Edward R. Bacon Co.
Colorado	Denver	Western Machinery Co.
Idaho	Bolse	The Sawtooth Co.
Montana	Billie	Butte Machinery Co.
	Great Falls	Central Machinery Co.
New Mexico	Albuquerque	Sidnev Tractor & Equipment Co.
Oregon	Portland	J.D. Coggins Co.
Utah	Salt Lake City	Nelson Equipment Co.
Washington	Seattle	Western Machinery Co.
Wyoming	Spokane	A.H. Cox & Co.
	Cheyenne	Yuxon Equipment Co.
		Western Machinery Co.
		Worham Machinery Co.

JETCO, INC.
1100 Westminster Ave.
Alhambra, California

PRODUCTS: Trencher Parts; Jiffy Teeth, Buckets, Side Cutters and Adapters.

DISTRIBUTORS

Arizona	Phoenix	Shriver Machinery Co.
California	Arlington	Wiest Tractor Sales
	Ontario	Blen B. Doring
	San Francisco	Standard Machinery Co.
	Van Nuys	So-Cal Equipment & Supply Co.
Colorado	Denver	Power Equipment Co.
Idaho	Bolse	Engineering Sales & Service Co.
Nevada	Reno	General Equipment Co.
	Las Vegas	Blystone Equipment Co.
New Mexico	Albuquerque	J.D. Coggins Company
Oregon	Portland	Contractors Equipment Co.
Utah	Salt Lake City	Rasmussen Equipment & Supply Co.
Washington	Seattle	Hulse Machinery Co., Inc.

THE C.S. JOHNSON CO.
P.O. Box 71
Champaign, Illinois

PRODUCTS: Concrete Batching and Cement Handling Equipment; Clamshell and Concrete Buckets.

WEST COAST BRANCH OFFICE

California Stockton Manager H.E. Buckler

DISTRIBUTORS

Arizona	(Los Angeles)	Cook Bros. Equipment Co.
California	Los Angeles	" " "
	San Francisco	" " "
Colorado	Stockton	Moore Equipment Co. (Buckets Only)
Montana	Billings	Western Construction Equipment Co.
New Mexico	Albuquerque	Horry Cornelius Co.
Oregon	Portland	Cramer Machinery Co.
Utah	Salt Lake City	Western Machinery Co.
Washington	Seattle	Bow-Like Equipment Co.
	Spokane	American Machine Co.
Wyoming	Casper	Studer Tractor & Equipment Co.

Helpful editorial material, authoritatively written, attracts steady readers—that's why WESTERN CONSTRUCTION is read by more contractors and engineers in the West and Alaska than any other construction publication—national, regional or local.

JONES & LAUGHLIN STEEL CORP.
3 Gateway Center
Pittsburgh, Pennsylvania

PRODUCTS: Steel & Steel Products; Wire Rope; Tubular Products; Junior Beams and Channels.

DISTRICT SALES MANAGERS

California	Los Angeles	J.H. Tice	Dist. Sales Manager
	San Francisco	R.G. Shearer	" "
Colorado	Denver	E.A. Toothaker	Res. Mgr. of Sales

EARLE M. JORGENSEN CO.
10650 South Alameda St.
Los Angeles 54, California

PRODUCTS: "Goldedge" Blades (Cutting Edges for Earth-Moving Equipment).

FACTORY BRANCHES

California	Los Angeles	Mgr. of Sales	C. Schriber
	Oakland	District Mgr.	P.C. Childs

JOY MANUFACTURING COMPANY
Oliver Building
Pittsburgh 22, Pa.

PRODUCTS: Air Compressors; Rock Drills; Wagon Drills; Paving Breakers; Spaders; Tamers; Trench Diggers; Portable Hoists; Air Hoses; Portable Lighting Systems; "Hydro Drills"; Jibs; Belt Conveyors.

DISTRICT SALES OFFICES

California	Los Angeles	Manager	T.G. Weir
	San Francisco	"	L.C. Rhodes
Colorado	Denver	"	J.H. Erick
Utah	Salt Lake City	"	K.A. Lehner

DISTRIBUTORS

Arizona	Phoenix	Superior Equipment Co.
California	El Monte (LA)	Warnock-Bancroft Equipment Co.
	San Francisco	Coast Equipment Co.
Idaho	Bolse	Carl R. Burf Equipment Co.
Montana	Billings	Western Construction Equipment Co.
Nevada	Reno	Sierra Machinery Co., Inc.
Oregon	Portland	Clyde Equipment Co.
Utah	Salt Lake City	Foulger Equipment Co.
Washington	Seattle	Clyde Equipment Co.
	Spokane	American Machine Co.

KENWORTH MOTOR TRUCK CORP.
8801 E. Marginal Way
Seattle 14, Washington

PRODUCTS: Heavy Duty Trucks.

DISTRIBUTORS

Arizona	Phoenix	J.T. Jenkins Co.
California	Fresno	" " " "
	Los Angeles	" " " "
	San Francisco	" " " "
Colorado	Denver	Colorado Kenworth Co.
Montana	Billings	Motor Power Equipment Co.
New Mexico	Albuquerque	J.T. Jenkins Co.
Oregon	Portland	Roberts Motor Co.
Utah	Salt Lake City	Kenworth Sales Co.
Washington	Seattle	Kenworth Motor Truck Corp.
	Spokane	Spokane Kenworth Co.

JOS.F. KIESLER CO.
932 W. Huron Street
Chicago 22, Illinois

PRODUCTS: Clamshell Buckets.

DISTRIBUTORS

California	Fresno	Edward R. Bacon Co.
	Los Angeles	Smith-Booth-Usher Co.
	Oakland	Edward R. Bacon Co.
	Sacramento	" " " "
Colorado	Denver	" " " "
Idaho	Bolse	Western Machinery Co.
Montana	Billings	Feeney Machinery Co.
	Butte	Hall-Perry Machinery Co.
Oregon	Great Falls	" " " "
Utah	Portland	Feeney Machinery Co.
Washington	Seattle	Western Machinery Co.
	Spokane	Feeney Machinery Co.

KLAUER MANUFACTURING CO.
Dubuque
Iowa

PRODUCTS: Snow Plows; Sheet Metal Building Materials.

C. I. T. finances installment sales of equipment for many Distributors

KOEHRING COMPANY
3026 W. Concordia Avenue
Milwaukee 16, Wisconsin

PRODUCTS: Excavators; Crawler and Rubber Tired Mounted Cranes, Shovels, Hoes, Clamshells, Draglines; Construction Mixers, Tilt and non-tilt; Pavers, Crawler and Rubber Tire Mounted; Concrete Finishers; Mud-Jacks; Sidewalks, Street, Highway and Railroad; Dumpfor; Railroad Cranes.

DISTRIBUTORS

Arizona	Phoenix	Neil B. McGinnis Co.
California	Bakersfield	San Joaquin Tractor Co.
	Los Angeles	Harron, Rickard & McCone Co.
	San Francisco	Standard Machinery Company
Colorado	Denver	McKelvy Machinery Company
Idaho	(Spokane)	American Machine Co.
Montana	Billings	Engineering Sales & Service Co.
Nevada	(San Francisco)	Western Construction Equipment Co.
New Mexico	Albuquerque	Harry Cornelius Co.
Oregon	Portland	Columbia Equipment Co.
Utah	Salt Lake City	Kimball Equipment Co.
Washington	Seattle	Pacific Hoist & Derrick Co.
	Spokane	American Machine Co.
Wyoming	Billings	Western Construction Equipment Co.
	(Denver)	McKelvy Machinery Co.

KOLMAN MANUFACTURING COMPANY
West 12th Street Road
Sioux Falls, South Dakota

PRODUCTS: Portable and Stationary Belt Conveyors; Conveyor-Screen Loading and Screening Plants (Portable); Vibrating Screens for Portable and Stationary Installations.

DISTRIBUTORS

Arizona	Phoenix	Equipment Sales Company
"	"	The O.S. Stepley Company
California	El Monte	Wernock-Bancroft Equipment Company
	San Francisco	S.A. Madrid
	San Luis Obispo	Madonna Construction Company
Colorado	Denver	Al Willis Sales Company
Idaho	Bolner	Intermountain Equipment Company
Montana	Billings	Weslate Machinery Company
	Sidney	Tractor & Equipment Company
Nevada	Las Vegas	Reynolds Engineering Company, Inc.
New Mexico	Albuquerque	Lively Equipment Company
Utah	Salt Lake City	Lund Machinery Company
Washington	Seattle	Hatten Machinery Company
Wyoming	Casper	Studer Tractor & Equipment Company
	Cheyenne	Wortham Machinery Company

KWIK-MIX COMPANY
235 West Grand Avenue
Port Washington, Wisconsin

PRODUCTS: Concrete Mixers; Plaster-Mortar Mixers; Bituminous Mixers; Power Wheelbarrows; Fork Lifts.

FACTORY BRANCH

California Stockton 2200 Country Club Rd. H.C. Powers, Mgr.

DISTRIBUTORS

Arizona	Phoenix	Neil B. McGinnis Co.
California	Bakersfield	San Joaquin Tractor Co.
	Los Angeles	Harron, Rickard & McCone Co.
	"	Cost Reduction Equipment Co.
	San Francisco	Standard Machinery Co.
Colorado	Denver	McKelvy Machinery Co.
	"	Plant Equipment Co.
Idaho	Bolne	Engineering Sales & Service Co.
Montana	Billings	Western Construction Equipment Co.
	Missoula	" " "
New Mexico	Albuquerque	Harry Cornelius Co.
Oregon	Portland	Columbia Equipment Co.
Utah	Salt Lake City	Kimball Equipment Co.
	" "	National Equipment Co.
Washington	Seattle	Pacific Hoist & Derrick Co.
	Spokane	American Machine Co.

LA CROSSE TRAILER CORPORATION
P.O. Box A
La Crosse, Wisconsin

PRODUCTS: Low Bed Heavy-Duty Trailers.

DISTRIBUTORS

Arizona	Phoenix	O.S. Stepley Co.
California	Los Angeles	State Tractor & Equipment Co.
	San Francisco	Smith-Booth-Usher Co.
Montana	Billings	Edward R. Bacon Co.
	Missoula	Western Construction Equipment Co.
Nevada	Reno	Sanford Tractor & Equipment Co.
New Mexico	Albuquerque	R.L. Harrison Co.
	"	N.C. Ribble Co.
Utah	Salt Lake City	Cafe Equipment Co.
	" "	Lund Machinery Co.
Wyoming	Cheyenne	Western Machinery Co.
		Wilson Equipment & Supply Co.

LE ROI DIVISION
Westinghouse Air Brake Co.
1706 S. 68th Street
Milwaukee 14, Wisconsin

PRODUCTS: Air Compressors; Tractors; Rock Drills; Paving Breakers; Wagon Drills; Clay Spades; Tamers; Engines; Transit Mixers; Front End Loaders.

WEST COAST DISTRICT MANAGER

California San Carlos 1564 Laurel St. E.G. Simmons

DISTRICT REPRESENTATIVES

California	Los Angeles	Pac. Elec. Bldg.	J.H. Crawford
	San Francisco	Matson Bldg.	W.H. Winheim, Repr.
Washington	Seattle	Civic Bus. Center	R.E. Marler, Repr.

DISTRIBUTORS

Arizona	Phoenix	Equipment Sales Co.
California	Bakersfield	Crook Company
	Berkeley	Central Equipment Co.
	Los Angeles	Crook Company
	San Francisco	Rix Company
Colorado	Denver	Denver Machine Shop
	Grand Junction	S & M Supply Co., Inc.
Idaho	Bolne	Engineering Sales Services, Inc.
	Idaho Falls	Southern Idaho Equipment Co.
	Twin Falls	" "
Montana	Wallace	Bres Mining Equipment Co.
	Billings	Industrial Equipment Co.
	Great Falls	Normont Equipment Co.
	Kalispell	Treasure State Equipment Co.
Nevada	Reno	General Equipment Co.
New Mexico	Albuquerque	Lively Equipment Co.
Oregon	Portland	P.L. Crooks & Co., Inc.
	Seattle	Nelson Equipment Co.
Washington	Spokane	Blackwell-Coleman Equipment Co., Inc.
	Casper	Gehring Equipment & Supply Co.

LESCHEN WIRE ROPE DIVISION

H.K. Porter Company, Inc.
2727 Hamilton Avenue
St. Louis 12, Missouri

PRODUCTS: Wire Rope and Wire Rope Slings.

WESTERN OFFICES AND WAREHOUSES

California	Los Angeles	2871 East Pico Blvd.
	San Francisco	520 4th Street
Colorado	Denver	1554 Worcester Street
Oregon	Portland	914 NW 14th Avenue
Washington	Seattle	2904 6th Ave., So.

DISTRIBUTORS

Arizona	Phoenix	Pratt-Gilbert Hardware Co.
	Yuma	Braden Machinery Co.
California	Arcata	Loggers Mill Supply
	Bakersfield	Ball & Black Supply Co.
	Blythe	Honnen Machinery Co.
	Crescent City	Pacific Engine & Machine Works
	Dixon	Weaver Tractor Co.
	Fresno	Affiliated Equipment Co.
	Grass Valley	Steedle Supply Co.
	" "	Bell & Black Supply Co.
	Los Angeles	Girlinghouse Bros.
	" "	Berglund Tractor & Equipment Co.
	Napa	Viking Supply Co.
	Oakland	Wallace Machinery Co.
	Oxnard	J.M. Wildman, Inc.
	Paso Robles	Sullivan & Grove Equipment Co.
	Redding	Weaver Tractor Co.
	Rio Vista	" "
	Sacramento	Seaboard Equipment & Supply Co.
	" "	Farmers Mercantile Co.
	Salinas	Coast Equipment Co.
	" "	Berglund Tractor & Equipment Co.
	San Francisco	Hicklinbotham Bros.
	Santa Rosa	Berglund Tractor & Equipment Co.
	Stockton	Mountain States Implement Co.
	Willits	Faris-Moritz Equipment Co.
Colorado	Blackfoot	M.L. Foss, Inc.
	Denver	Holmes Hardware Co.
	" "	S.W. Pressey & Son
	Pueblo	Gate City Steel, Inc.
Idaho	Boise	Mountain States Implement Co.
	Buhl	" "
	Idaho Falls	Flanerty Equipment Co.
	Preston	Mountain States Implement Co.
	Poratello	" "
	Rexburg	Havemann Hardware Co.
	Rupert	Sellz Machinery Co.
	Salmon	Westgate Machinery Co.
	" "	Sellz Machinery Co.
	Billing	Traction & Equipment Co.
	" "	Mountain States Implement Co.
	Great Falls	Tractor & Equipment Co.
	Miles City	Mountain States Implement Co.
	Shelley	Sierra Machinery Co.
	Sidney	Independence Iron Works
	Twin Falls	Hercules Cable & Supply Co.
Nevada	Reno	" "
Oregon	Astoria	" "
	Corvallis	" "
	Cottage Grove	" "
	Independence	" "
	Portland	" "

Continued on next page

C. I. T. CORPORATION

660 Market Street, San Francisco
Equitable Building, Portland

416 West 8th Street, Los Angeles

LESCHEN WIRE ROPE DIVISION (CONTINUED)

Utah	Odgen	Mountain States Implement Co.
	Salt Lake City	Industrial Supply Co., Inc.
	Tremonton	Mountain States Implement Co.
Washington	Aberdeen	Goldstein & Block
	Auburn	Baer Steel Products, Inc.
	Bellingham	Powder Sales & Equipment Co.
	Seattle	Clyde Equipment Co.
	"	Seattle Ship Supply, Inc.
	"	Washington Iron Works
	"	Yukon Equipment Co.
	Spokane	Northwater Co.
	Tacoma	Service Hardware & Implement Co.

LE TOURNEAU-WESTINGHOUSE COMPANY
2301 North Adams Street
Peoria, Illinois

PRODUCTS: Abrasive Blades (Scraper and Dozer); Angle Dozers; Bulldozers; Bulldozer Blades; Cranes; Hoists; Logging Arches; Power Control Units; Prime Movers (Two-Wheeled and Four-Wheeled Rubber-Tired Tractors); Rippers; Scrapers; Sheepfoot Rollers; Snow Plows; Soil Compaction Units; Tractors (Rubber-Tired); Trailers (Flat Bed); Wire Rope.

DISTRIBUTORS

Arizona	Phoenix	Superior Equipment Co., Inc.
California	Bakersfield	Crook Company
	Los Angeles	"
Colorado	Denver	Liberty Trucks & Parts Co., Inc.
Idaho	Bolse	Western Equipment Co.
	Pocatello	Rocky Mountain Machinery Co.
Montana	Billings	Western Construction Equipment Co.
	Missoula	"
Nevada	Reno	Pioneer Equipment Co. of Nevada
New Mexico	Albuquerque	Contractor Equipment & Supply Co.
Oregon	Eugene	Loggers & Contractors Machinery Co.
Utah	Portland	"
Washington	Salt Lake City	Rocky Mountain Machinery Co.
	Seattle	Modern Machinery Co., Inc.
	Spokane	"

THE LINCOLN ELECTRIC COMPANY
22801 St. Clair Avenue
Cleveland 17, Ohio

PRODUCTS: Electric Arc Welders; Arc Welding Electrodes and Arc Welding Supplies.

FACTORY BRANCHES

California	Emeryville	Manager	C.L.Stocker
	Los Angeles	"	J.B.Cormick
Oregon	Portland	"	E.H.Well
Washington	Seattle	"	R.L.Wilcox

DISTRIBUTORS

Colorado	Denver	Johnson Supply Co.
Montana	Billings	Great Northern Tool & Supply Co.
New Mexico	Albuquerque	Big Three Welding Equipment Co.
Utah	Salt Lake City	Industrial Supply Co.

LINK-BELT SPEEDER CORPORATION
1201 Sixth Street, S.W.
Cedar Rapids, Iowa

PRODUCTS: Shovels; Cranes; Trench Hoes; Draglines; Crawler, Truck, Wheel-Mounted; Gasoline, Diesel or Electric Power.

DISTRICT SALES REPRESENTATIVES

California	San Marino	2464 Sherwood Rd.	R.G.Robey
	Santa Ana	1531 W.12th St.	K.G.Snyder
Oregon	Beaverton	985 NW Millcreek	W.B.Severe
	Portland	3121 SW 10th Ave.	N.V.Chehak

DISTRIBUTORS

Alaska	Anchorage	Craig Taylor Equipment & Supply Co.
Arizona	Phoenix	Equipment Sales Co.
California	Fresno	Edward R.Bacon Co.
	Los Angeles	Essick Machinery Co.
	Oakland	Edward R.Bacon Co.
	Sacramento	" " " "
	Stockton	" " " "
	Ukiah	" " " "
Colorado	Denver	H.W.Moore Equipment Co.
Idaho	Bolse	Western Equipment Co.
Montana	Billings	Montana Powder & Equipment Co.
	"	" " " "
Nevada	Elko	A-D Machinery Co.
New Mexico	Albuquerque	N.C.Ribble Co.
Oregon	Portland	Nelson Equipment Co.
Utah	Salt Lake City	Wheeler-Kershaw Co.
Washington	Seattle	Totem Equipment Co.
	Spokane	Western Machinery Co.
Wyoming	Casper	Studer Tractor & Equipment Co.

LIPPmann ENGINEERING WORKS
4603 W.Mitchell Street
Milwaukee 14, Wisconsin

PRODUCTS: Crushing, Screening and Conveying Machinery.

DISTRIBUTORS

Arizona	Phoenix	Western Machinery Co.
California	Los Angeles	Casey-Metcalf Machinery Co.
Colorado	Denver	Woodriff Bros.
Idaho	Idaho Falls	Southern Idaho Equipment Co.
Oregon	Eugene	Loggers & Contractors Machinery Co.
	Portland	" " " "
Utah	Salt Lake City	Heiner Equipment & Supply Co.
	Washington	Hulse Machinery Co., Inc.

LITTLEFORD BROS., INC.
400 East Pearl Street
Cincinnati, Ohio

PRODUCTS: Bituminous Distributors; Kwik-Steam Generators; Supply Tanks; Utility Spray Tanks; Tar and Asphalt Kettles; Road Rollers; Road Brooms; Tanker Steam Heaters; Asphalt Tools and Pots.

DISTRIBUTORS

Arizona	Phoenix	Western Machinery Co.
California	Los Angeles	Smith-Booth-Usher Co.
	San Francisco	Edward R.Bacon Co.
Colorado	Denver	Ray Carson Machinery Co.
Idaho	Bolse	Feebaugh Machinery Co.
	Billings	Hill-Perry Machinery Co.
New Mexico	Albuquerque	J.D.Coggins Co.
	Portland	Feebaugh Machinery Co.
Utah	Salt Lake City	Lund Machinery Co.
Washington	Seattle	Feebaugh Machinery Co.
	Spokane	" " "
Wyoming	Cheyenne	Wortham Machinery Co.

LITTLE GIANT CRANE & SHOVEL, INC.

E. 16th & Howard Drive
Des Moines, 13, Iowa

PRODUCTS: Shovels; Cranes; Clamshells; Draglines; Trenchoes; Pile Drivers; Post Drivers; Crawler, Truck, mounted and Swamper and rail propulsion mounted; Gasoline, Diesel or Electric Power.

DISTRIBUTORS

Colorado	Denver	Faris-Moritz Equipment Co.
Montana	Billings	Western Construction Equipment Co.
New Mexico	Albuquerque	J.D.Coggins Co.
Oregon	Medford	Cal-Ore Machinery Co.
Washington	Seattle	Pacific Hoist & Derrick Co.
	Spokane	Western Machinery Co.

LOS ANGELES STEEL CASTING CO.

6100 So. Boyle Avenue
Los Angeles 58, California

PRODUCTS: Tamprite Tamper Shanks and Tips; Ripz Reversible Rippers.

MACK MOTOR TRUCK CORPORATION

Western Division Headquarters
2001 South Alameda Street
Los Angeles 58, California

PRODUCTS: Motor Trucks; Buses and Fire Apparatus.

FACTORY BRANCH MANAGERS

California	Los Angeles	2001 S.Alameda St. C.E.Cole
	San Francisco	1745 Folsom St. J.E.Donovan
Colorado	Denver	4850 Vasquez Blvd. E.R.Robinson
Oregon	Portland	1122 N.Williams Av. E.D.Young
Utah	Salt Lake City	704 S.Third West S.V.Trent
Washington	Seattle	3707 Airport Way E.A.May

DIVISION MANAGERS

California	Los Angeles	2001 S.Alameda St. J.C.Roovid, V.P.
	"	L.F.Lindstrom, Asst. D.M.

DISTRIBUTORS

Alaska	Anchorage	Northern Commercial Co.
Arizona	Phoenix	Arizona Truck Service & Sales
	Tucson	Graves & Reed
California	Bakersfield	California Truck & Ind. Equip. Co.
	Blythe	Lees Truck & Diesel Service
	Colma	Ferrell Bros.
	El Centro	McKays Specialized Brake Service
	Fresno	Reliable Automotive Co.
	Napa	Napa-Solano Mack Sales & Service
	Oakland	Howard B.Fredericks Co.
	Oroville	K & S Equipment Co., Inc.
	Palm Springs	Harold Smith Garage
	Sacramento	W.V.Morgan Co., A Corporation
	San Bernardino	Valley Parts & Equipment Co.
	San Jose	Morgans

Continued on next page

**C. I. T. specializes in financing equipment
for Distributors and Contractors**

MACK MOTOR TRUCK CORPORATION (CONTINUED)

San Luis Obispo Farmer's Hardware & Equipment Co.
 Santa Ana Ed Thompson Garage
 Stockton Roessler Truck Sales
 Ventura Fleet Maintenance, Inc.
 Colorado Cortez Cortez Diesel Sales
 Durango La Plata Repair Shop
 Grand Junction Grand Junction Mack Sales & Service
 Pueblo Mutual Machinery Co.
 Idaho Boise Western Equipment Co.
 Idaho Falls " "
 Lewiston Idaho Cletres Sales Co.
 Twin Falls Wyllies Truck Sales
 Montana Billings Billings Mack Sales & Service, Inc.
 Butte Roberts Truck & Parts Co.
 Great Falls Rice Transport Sales & Service
 Kalispell Kalispell Mack Sales
 Missoula Brian Motor Co.
 Nevada Las Vegas The Motor Equipment Co.
 Reno Jenkins & Albright
 Winnemucca Sonoma Motors, Inc.
 Oregon Eugene Pitchford Mack Sales Co.
 Lakeview Ted DeFord
 Medford Jerry Olson Mack Sales
 Ontario Mutch Oil Company
 Pilot Rock Mathews Motor Service
 Redmond Mid-States Truck & Tractor
 Utah Cedar City Cox Motor Co.
 Logan Dean C-Pack Motor Co., Inc.
 Moab Moab Garage Co.
 Ogden Revision Garage Co.
 Provo Central Utah Motor Co.
 Tooele E.L.Gillespie's Excel Service
 Washington Bellingham Ernest Walken
 Chehalis Mathis Motors
 Concrete Concrete Automotive
 Port Angeles Priest Logging & Equipment Co.
 Spokane Spokane Distributors
 Wenatchee Mid-State Equipment Co.
 Woodland Tri-County Mack Sales & Service
 Wyoming Casper Tire Sales & Equipment
 Cheyenne E.G.Drezick, Inc.
 O'Dell Motor Co.

MACWHYTE COMPANY
2009 14th Avenue
Kenosha, Wisconsin

PRODUCTS: Wire Rope; Wire Rope Slings and Wire Rope Assemblies.

WESTERN OFFICES

California Los Angeles 2035 Sacramento St. PH: TR 8383
 San Francisco 141 King St. PH: EX 2-4966
 Oregon Portland 1603 NW 14th Ave. PH: BR 1661
 Washington Seattle 87 Holgate St. PH: MA 1715

MADSEN IRON WORKS, INC.
14120 E.Rosecrans Avenue
La Mirada, California

PRODUCTS: Asphalt Paving Plants; Rock and Sand Dryers; Pug Mill Mixers; Cyclone Dust Collectors; Madsen Road Pug (Travel-Mix Plant); Johnson Float Finisher (Cement Finishing); Royal Crown Pump Valves.

DISTRIBUTORS

Arizona Phoenix Superior Equipment Co.
 California La Mirada Madsen Iron Works, Inc.
 Oakland C.H.Grant Company
 Colorado Denver McCoy Company
 Idaho Boise Western Equipment Co.
 Montana Billings Setzl Machinery Co.
 Nevada (Oklahoma) Kalispell Treasure State Equipment Co.
 (Salt Lake) C.H.Grant Company
 New Mexico Albuquerque Foulger Equipment Co.
 Oregon Portland Harry Cornelius Co.
 Utah Salt Lake City Cremer Machinery Co.
 Washington Portland Cremer Machinery Co.
 Wyoming Casper Studer Tractor & Equipment Co.

MAGINNIS POWER TOOL COMPANY
154 Distil Avenue
Mansfield, Ohio

PRODUCTS: Hi-Electric (110 Cycle) Concrete Vibrators and Generators; Side Form & Paving Vibrators.

DISTRIBUTORS

Arizona Phoenix Western Machinery Co.
 California Fresno Edward R.Bacon Co.
 Los Angeles Electric Tool & Supply Co.
 Oakland Edward R.Bacon Co.
 Sacramento " " "
 San Francisco " " "
 Colorado Denver Western Machinery Co.
 Montana Billings Montana Power & Equipment Co.
 Helena " " "
 Oregon Portland Casey Tractor & Equipment Co.
 Utah Salt Lake City Western Machinery Co.
 Washington Seattle Universal Equipment Co.
 Spokane Construction Equipment Co.

MALL TOOL COMPANY
7740 South Chicago Avenue
Chicago 19, Illinois

PRODUCTS: Chain Saws; Earth Augers; Concrete Vibrators; Surface & Finishers; Traveling Machines; Flexible Shafts; Generators; Grinders; Circular Hand Saws; Sump Pumps; Portable Electric & Pneumatic Drills.

FACTORY SALES PERSONNEL

California	Berkeley	Joseph Link	Regional Manager
	Glendale	Laurence Simelius	Sales
	Los Angeles	Richard Romandy	"
Colorado	Denver	Harold E.Ott	"
Oregon	Portland	Wilbur E.Fish	"
Washington	Seattle	Robert Speer	Manager
	Spokane	Myrtle E.Bean	Sales

MALSARY MANUFACTURING CO.
845 - 92nd Avenue
Oakland 3, California

PRODUCTS: Steam Cleaners; Water Heaters; Steam Generators.

FACTORY REPRESENTATIVES

California	Los Angeles	3923 W.6th St.	Don E.Nortz
Colorado	Denver	171 S.Holly St.	John Larsen
Washington	Seattle	6057 35th Ave.NE	H.T.Steinheim

DISTRIBUTORS

Arizona	Phoenix	Western Machinery Co.
California	Bakersfield	Delfel's
	Fresno	Edward R.Bacon Co.
	Los Angeles	Smith-Booth-Usher Co.
	" "	Duncan-Hunter Equipment Co.
Idaho	Boise	Turco Products, Inc.
Montana	Kalispell	Engineering Sales & Service Co.
	Great Falls	Treasure State Equipment Co.
Nevada	Reno	Hines Motor Supply Co.
New Mexico	Albuquerque	Gardner Automotive Parts
Oregon	Portland	Contractors' Equipment & Supply Co.
Utah	Salt Lake City	Hallide Machinery Co.
Washington	Seattle	Robert Taylor & Sons
	Spokane	Hallide Machinery Co.
Wyoming	Casper	Modern Machinery Co.
		Wyoming Automotive Co.

MANITOWOC ENGINEERING CORP.
South 16th Street
Manitowoc, Wisconsin

PRODUCTS: Cranes; Draglines; Shovels.

DISTRIBUTORS

Arizona	Phoenix	O.S.Stapley Co.
California	Los Angeles	Casey-Metcalf Machinery Co., Inc.
	Richmond	Bay Equipment Co.
Colorado	Denver	King & East Machinery Corp.
Montana	Helena	Steffek Equipment Co.
Oregon	Portland	C.H.Bell Equipment Co.
Utah	Salt Lake City	Foulger Equipment Co.

THE MARION METAL PRODUCTS CO.
Cheney Avenue
Marion, Ohio

PRODUCTS: Dump Bodies; Dump Trailers; Lift Gates and Refuse Collection Units.

DISTRIBUTORS

Arizona	Tucson	Bogard GMC Co.
California	Fresno	Ruckstell California Sales Co.
	Los Angeles	Truck Bodies Co.
Colorado	Oakland	Ruckstell California Sales Co.
Montana	Denver	Woeber Auto Body & Manufacturing Co.
New Mexico	Great Falls	Johnson Distributing Co.
Oregon	Portland	M & F Equipment Co.
Washington	Spokane	Pacific Body Builders, Inc.
		Alloy Manufacturing Co.

ADVERTISING TO THE CONSTRUCTION INDUSTRY OF THE WEST AND ALASKA IS A REGIONAL JOB—

- Construction needs, problems and practices are different
- The West's construction problems differ from those in the rest of the U.S., but are common to the whole western region
- Western contractors are regional operators—many work on projects anywhere in the West; most cross state borders continually

—AND WESTERN CONSTRUCTION IS ONE PUBLICATION THAT COVERS ALL THE WEST

C. I. T. CORPORATION

660 Market Street, San Francisco 416 West 8th Street, Los Angeles
Equitable Building, Portland

MARION-OSGOOD-GENERAL
Marion
Ohio

PRODUCTS: Power Cranes, Shovels, Draglines, Clamshells, Backhoes, Magne Cranes, Pile Drivers, Skimmers. From $\frac{1}{2}$ to 60 cubic yard capacity; from 10 to 60 ton lifting capacity; Mounted on Crawlers, Trucks or Rubber Tired as the Self-Propelled, One-man operated MOBILCRANE.

FACTORY BRANCHES

Arizona	Phoenix	1017 N. 22nd Ave.	Ernest J. Rines, Jr.
California	San Francisco	326 Shaw Road	Wm. Dean Collard
Oregon	Portland	3133 NE 87th Pl.	Wm. F. Llanus
		3930 SW Martins	Don R. Williams

SERVICE REPRESENTATIVES

California	San Mateo	36th Ave. West	Fred Holverstott
Oregon	Portland	9035 N. Clarendon	Norman S. Holcomb
		3915 NE 108th Ave.	John V. Bernhardt

DISTRIBUTORS-MARION

California	Oakland	Buran Equipment Co.
	Santa Clara	" " "
Idaho	Boise	Burt Equipment Co.
New Mexico	Albuquerque	M & F Equipment Co.
Oregon	Eugene	Western Equipment Co.
	Medford	Hauert Tractor Co.
	Portland	Western Equipment Co.
Washington	Seattle	Star Machinery Co.
	Spokane	" "

DISTRIBUTORS-OSGOOD-GENERAL

California	Los Angeles	Calaver Corporation
	Oakland	Buran Equipment Co.
	Santa Clara	" " "
New Mexico	Albuquerque	New Mexico Equipment Co.
Oregon	Eugene	Western Equipment Co.
	Medford	Hauert Tractor Co.
	Portland	Western Equipment Co.
Washington	Seattle	Star Machinery Co.

MARLOW PUMPS
512 Greenwood Avenue
Ridgewood, New Jersey

PRODUCTS: Self Priming Centrifugal, Diaphragm and Plunger Pumps.

DISTRICT MANAGERS

California	Burbank	223 S. Beachwood	Wm. M. Coopman
	E. Palo Alto	2867 Illinois St.	W. E. Galland, Jr.
Oregon	Portland	1908 NE 67th Ave.	W. T. R. Saari

DISTRIBUTORS

Arizona	Phoenix	Equipment Sales Co.
California	Bakersfield	Crooks Company
	Los Angeles	Dinsmore Equipment Co.
	San Diego	Hudson Corp.
	Monrovia	Geo. M. Philpott Co.
	Oakland	" " " "
	Sacramento	" " " "
Colorado	Denver	A. J. Philpott Co.
Idaho	Bolse	Engineering Sales Service, Inc.
Montana	Billings	Montana Powder & Equipment Co.
Oregon	Coos Bay	Coos Bay Supply
	Portland	Clyde Equipment Co.
Utah	Salt Lake City	George M. Philpott Co.
Washington	Seattle	Foulger Equipment Co.
	"	Jack Sahlberg Equipment Co.
		Star Machinery Co.

MARSH-HERRINGTON COMPANY, INC.
1511 W. Washington Street
Indianapolis 7, Indiana

PRODUCTS: Trucks; Heavy Duty All-Wheel Drive; Ford Trucks re-manufactured to All-Wheel-Drive Trucks.

DISTRICT MANAGER

California	Oakland	266 Lenos Ave.	Paul Bliss
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DISTRIBUTORS

Arizona	Phoenix	Ray Korte
California	Los Angeles	Crook Company
	San Francisco	Western Traction Co.
Colorado	Denver	The Winter-Weiss Co.
Idaho	Bolse	Starline Equipment Co.
Montana	Billings	Midland Implement Co.
Nevada	Reno	General Equipment Co.
New Mexico	Albuquerque	A & A Supply
	Farmington	Farmington Motor Co.
Oregon	Portland	Edward L. Kropp Co.
Utah	Salt Lake City	Foulger Equipment Co.
Washington	Seattle	Cole Commercial Co., Inc.
Wyoming	Casper	Natrona Supply Co.

MARTIN IRON WORKS, LTD.
1222 East 28th Street
P.O. Box 2857, Terminal Annex
Los Angeles, California

PRODUCTS: Valves and Gatevalves; Portable Hydrants for Irrigation and commercial uses; Concrete Pipe Making Machines.

DISTRIBUTORS

Arizona	Phoenix	Hooper Concrete Pipe Co.
California	Delano	Gibson Concrete Pipe Co.
	Greeley	Oliver Well Works
Idaho	Nampa	Idaho Concrete Pipe Co.
Montana	Great Falls	Montana Concrete Pipe Co.
New Mexico	Roswell	J.P. White Co.
Oregon	Medford	Medford Construction Co.
Texas	Lubbock	Gifford-Hill-Western, Inc.
Utah	Ogden	W.R. White Co.
Washington	Spokane	Spokane Concrete Pipe Co.

MARTIN MACHINE COMPANY
816 North East Street
Kewanee, Illinois

PRODUCTS: Heavy Duty Equipment Trailers.

Your "CATERPILLAR" Dealer is your MARTIN Dealer.

MARVEL EQUIPMENT CORPORATION
215 Eagle Street
Brooklyn 22, New York

PRODUCTS: Concrete Vibrators, Grinders, Saw-Rigs and Generator Sets.

DISTRIBUTORS

California	Pasadena	J. E. Haddock, Ltd.
Colorado	Denver	McKelvy Machinery Co.
New Mexico	Albuquerque	Harry Cornelius Co.
Oregon	Portland	Brunner & Lay Corp.
Utah	Salt Lake City	Heiner Equipment Co.
Washington	Spokane	Fred M. Viles Co.
Wyoming	Casper	Studer Tractor & Equipment Co.

MASTER VIBRATOR COMPANY
108 Davis Avenue
Dayton 1, Ohio

PRODUCTS: Generator Plants; Vibratory Screeds; Concrete Vibrators; Tampers; Hammers - Electric; Turn-A-Trowels and Space Heaters.

REGIONAL MANAGER

California	Los Angeles	2056 W. Century Blvd.	F. J. Flial
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DISTRIBUTORS

Arizona	Phoenix	Shriver Machinery Co.
California	Indewood	C. P. Concrete Equipment Co.
	Oakland	" " "
Colorado	Denver	Power Equipment Co.
Idaho	Bolse	Western Equipment Co.
Montana	Billings	" " "
New Mexico	Reno	Western Construction Equipment Co.
	Albuquerque	Sierra Machinery Co.
Oregon	Portland	New Mexico Equipment Co.
Utah	Salt Lake City	Nelson Equipment Co.
Washington	Seattle	Totem Equipment Co.
	Spokane	Andrews Equipment Co.
Wyoming	Cheyenne	Wortham Machinery Co.

MATERIALS HANDLING, INC.
4985 Fyler Avenue
St. Louis, Missouri

PRODUCTS: Material Handling Equipment; Batchers; Bindicators; Bins; Conveyors; Gates; Storage Bins; Water Meters and Bulk Cement Plants.

THE MAXI CORPORATION
P.O. Box 3129 Terminal Annex
1584 East 20th Street
Los Angeles 54, California

PRODUCTS: Maxi Crane Carriers; Maxi Six-Wheel Truck Units.

FACTORY BRANCH

California	Los Angeles	Manager	J. Ray Elliott
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DISTRIBUTORS

Contact Local Crane & Shovel Dealer for Maxi Crane Carrier Information.

C. I. T. finances installment sales of equipment for many Distributors

MAXON CONSTRUCTION CO., INC.
Manufacturing Division
131 N. Ludlow Street
Dayton 2, Ohio

PRODUCTS: Concrete Hauler.

DISTRIBUTORS

Arizona	Phoenix	Neil B. McGinnis Equipment Co.
California	Los Angeles	Garlinghouse Bros.
	San Francisco	Standard Machinery Co.
Idaho	Boise	Columbia Equipment Co.
Nevada	Reno	Sierra Machinery Co.
New Mexico	Albuquerque	Harry Cornelius Co.
Oregon	Portland	Cramer Machinery Co.
Utah	Salt Lake City	C.H. Jones Equipment Co.
Washington	Seattle	Columbia Equipment Co.

M-B CORPORATION
New Holstein
Wisconsin

PRODUCTS: Power Brooms; Power Maintainers; Trailers; Street, Airport, Highway and Warehouse Markers; Garbage Collection Bodies; Regular and Reflective Highway and Street Paints.

DISTRIBUTORS

Arizona	Phoenix	Western Machinery Co.
California	El Monte	Bronson Equipment Co.
	San Francisco	Edwin R. Bacon Co.
Colorado	Denver	Liberty Trucks & Parts Corp.
	"	Timple Bros. Inc.
Idaho	Bolise	Savioth Company
Montana	Billings	Industrial Equipment Co.
Nevada	Las Vegas	Clark County Whise. Merc. Co.
New Mexico	Albuquerque	Lively Equipment Co.
Oregon	Portland	Contractors Equipment Corp.
Utah	Salt Lake City	Western Machinery Co.
Washington	Spokane	"
	Seattle	"
Wyoming	Cheyenne	Jack Sahlgren Equipment Co.
		Ketemi Tractor & Equipment Co.

McCAFFREY-RUDDOCK TAGLINE CORP.
2131 East 25th Street
Los Angeles 58, California

PRODUCTS: Rud-O-Matic Taglines; Magnet Reels; Rud-O-Matic Thomas Boomstops; Rud-O-Matic Hose Reels.

DISTRIBUTORS

Arizona	Phoenix	Bertram Electric Co.
	"	Equipment Sales Co.
	"	E.D.Flournoy Co.
	"	Shriver Machinery Co.
California	Berkeley	Owen Bucket Co., Ltd.
	Culver City	F.W.Shrader Co.
	Los Angeles	Brown-Bevils Industrial Equipment Co.
	"	Crook Co.
	"	M.P.McCaffrey, Inc.
	"	Shaw Sales & Service Co.
	"	Shepherd Tractor & Equipment Co.
	"	Smith-Booth-Usher Co.
	"	Southern California Equipment Co.
Colorado	Wilmington	Hendricks Equipment Co.
	Denver	Constructors Equipment Co.
	"	Ray Corson Machinery Co.
	"	Faris-Moritz Equipment Co.
	"	H.W.Moore Equipment Co.
	"	"Quick-Way" Truck Shovel Co.
Idaho	Bolse	Feebaugh Machinery Co.
	"	Western Equipment Co.
	Idaho Falls	Arnold Machinery Co.
	"	Western Equipment Co.
Montana	Butte	Hill-Perry Machinery Co.
	Great Falls	Normont Equipment Co.
	Missoula	Westmont Tractor & Equipment
Nevada	Reno	Sierra Machinery Co.
New Mexico	Albuquerque	Contractors Equipment & Supply
	"	E.D.Flournoy Co.
Oregon	Eugene	Western Equipment Co.
	Medford	Cal-Orn Machinery Co.
	Portland	Balzer Machinery Co.
	"	Clyde Equipment Co.
	"	P.L.Crooks Co.
	"	Feebaugh Machinery Co.
Utah	Salt Lake City	Western Equipment Co.
	"	Arnold Machinery Co., Inc.
Washington	Seattle	Foulger Equipment Co.
	"	A.H.Cox & Co.
	"	Feebaugh Machinery Co.
	Spokane	Star Machinery Co.
	"	Feebaugh Machinery Co.
	Tacoma	General Machinery Co.
	Wenatchee	Modern Machinery Co., Inc.
	Cheyenne	A.H.Cox & Co.
Wyoming		"
		Kereml Tractor & Equipment Co.

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OF THE WEST'S BIG AND GROWING CONSTRUCTION
MARKET**

C. I. T. CORPORATION

C. I. I. CORPORATION
660 Market Street, San Francisco 416 West 8th Street, Los Angeles
Equitable Building, Portland

416 West 8th Street, Los Angeles
ing, Portland

THEN IT IS TO YOUR ADVANTAGE TO USE
THE CLASSIFIED SECTION OF WESTERN CONSTRUCTION

IF YOU WANT TO

- Sell, rent, lease or buy used equipment
 - Find or get a good job
 - Advertise an auction
 - Offer or obtain some special service

**THEN IT is to your advantage to use
THE DURACORD® SYSTEM OF INSTRUMENTATION**

MINNEAPOLIS-MOLINE COMPANY
P.O. Box 1050
Minneapolis 1, Minnesota

PRODUCTS: Tractors; Industrial Wheel Type, 30 & 50 HP Engines and Power Units; 27 to 292 HP Gasoline, Diesel, Gas and Distillate.

FACTORY BRANCHES

California Stockton Manager H.F. Anderson
Colorado Denver " L.M. Urevig

INDUSTRIAL DISTRICT SALES MANAGER

California San Francisco 112 Market St. Robert F. Trissell

DISTRIBUTORS

Arizona	Phoenix	Western Machinery Co.
California	Los Angeles	Casey-Metcalf Machinery Co., Inc.
	San Francisco	Coast Equipment Co.
Colorado	Denver	Gunderson-Taylor Machinery Co.
	Pueblo	Mutual Machinery Co.
Idaho	Bolse	The Sawtooth Co.
Montana	Great Falls	Central Machinery Co.
	Kalispell	Modern Equipment Co.
	Miles City	Tractor & Equipment Co.
	Missoula	Missoula Mercantile Co.
Nevada	Reno	Sierra Machinery Co.
New Mexico	Albuquerque	Contractor's Equipment & Supply
Oregon	Portland	Contractors Equipment Corp.
Utah	N. Salt Lake	Taylor Machinery Co.
Washington	Seattle	Modern Machinery Co., Inc.
	Spokane	" " "

MIXERMOBILE DISTRIBUTORS, INC.
8027 N.E. Killingsworth
Portland 20, Oregon

PRODUCTS: Scoopmobiles; Mixermobiles; Tovermobiles; Duo-Way Scoops; Duo-Way Lifts; Stationary Towers; Stationary Mixers; Tractormobiles; Dozermobiles.

DISTRIBUTORS

Arizona	Phoenix	Equipment Sales Co.
California	El Monte	Bronson Equipment Co.
	Oakland	Mixermobile Sales & Service, Inc.
Colorado	Denver	Constructors Equipment Co., Inc.
Idaho	Bolse	Western Equipment Co.
Montana	Missoula	Westmont Tractor & Equipment Co.
Nevada	reno	Mack Truck Sales
New Mexico	Albuquerque	Lively Equipment Co.
Oregon	Portland	Mixermobile Distributors, Inc.
Utah	Salt Lake City	Heiner Equipment & Supply Co.
Washington	Seattle	Air-Mac, Inc. of Washington
	Spokane	" " " "

MONARCH ROAD MACHINERY CO.
1331 Michigan Street N.E.
Grand Rapids 6, Michigan

PRODUCTS: Hydraulic Power Control Equipment for Operating Snow Plows; Road Machinery and similar devices; HY-LO-JACK Fan-Belt Driven Models; DYNAMIGHT Electric Controls for 6 and 12 volt systems powered by truck battery, etc.

MORSE BROS. MACHINERY CO.
2900 Brighton Blvd.
Denver 1, Colorado

PRODUCTS: Sluice Gates; Head Gates; Flap Gates; Jaw Crushers; Ball and Rod Mills; Flotation Machines; Thickeners; Classifiers; Agitators; Vacuum Filters; Diaphragm Pumps.

MORSE-STARRETT PRODUCTS CO.
1204 49th Avenue
Oakland 1, California

PRODUCTS: Wire Rope Cutters; Wire Rope Cutter Parts; Wire Rope Seizing Bands.

DISTRIBUTORS

Most all construction equipment and heavy hardware dealers and distributors' outlets handle the Wire Rope Cutters, Parts and Wire Rope Seizing Bands of our manufacture throughout the United States and Canada.

M-R-S MANUFACTURING CO.
Box 336
Flora, Mississippi

PRODUCTS: Diesel Wheel Tractors; Hauling Units; Bulldozers.

MUNICIPAL SUPPLY COMPANY
2508-18 So. Main
South Bend, Indiana

PRODUCTS: Street Sweepers; Street Flushers; Street Sprinklers; Bituminous Distributors; Bituminous Maintenance Units.

DISTRIBUTORS

California	El Monte	Wernock-Bancroft Equipment Co.
Colorado	Denver	Liberty Trucks & Parts Co.
	"	Constructors Equipment Co.
New Mexico	Roswell	Smith Machinery Co.
Oregon	Portland	Ted Henry Company
Utah	Salt Lake City	The C.H. Jones Equipment Co.
	"	Reliance Equipment & Supply Co.

MURPHY DIESEL COMPANY
5317 West Burnham Street
Milwaukee 14, Wisconsin

PRODUCTS: Engines and Power Units, 90 to 246 HP; Generator Sets, 60 to 154 KW; Marine Engines, 90 to 225 HP; Dual Fuel Engines, 135 to 215 HP; and Mech-Elecs which will furnish mechanical and electric power simultaneously.

DISTRICT REPRESENTATIVES

California	West Covina	1215 E. Merced	F. North Jones
	Seattle	2811 W. Crockett	Bradley Bartlett
Wyoming	Casper	1308 So. Melrose	J.L. Jarboe

DISTRIBUTORS

Arizona	Phoenix	Equipment Sales Co.
California	Bakersfield	Glenn Rose Engine Service
	Los Angeles	Industrial Engine Service
	San Francisco	Oswald Machine Works
Colorado	Denver	Power Equipment Co.
Idaho	Bolse	Engineering Sales Service Co., Inc.
Montana	Butte	Heil-Perry Machinery Co.
New Mexico	Albuquerque	Lively Equipment Co.
Oregon	Medford	Cal-Ore Machinery Co., Inc.
	Portland	Balzer Machinery Co.
	"	Western Equipment Co.
Utah	Salt Lake City	Arnold Machinery Co., Inc.
Washington	Seattle	Western Tractor & Equipment Co.
	Spokane	General Machinery Co.

L.R. MURPHY SCALE COMPANY
1610 North "C" Street
Sacramento, California

PRODUCTS: Contractors Motor Truck Portable Scales; Motor Truck Pit Type Scales; Hopper Scales; Built-In & Livestock Scales; Special Scale Equipment.

DISTRIBUTORS

Sold by machinery and equipment dealers throughout the entire United States.

NATIONAL WELDING EQUIPMENT CO.
218 Fremont Street
San Francisco 5, California

PRODUCTS: Welding and Cutting Torches for All Flame Applications; Single and Two-Stage Regulators; Manifolds, Station Valves and Line Regulators; Special Torches for Heating, Multi-Filames, including Water-Cooled Equipment; Flowmeters for Rare Gases; Adapters and Fittings for Welding; Medical Regulators, Humidifiers; Flowmeters for Oxygen Therapy.

DISTRIBUTORS

Arizona	Phoenix	Dye Oxygen Co., Inc.
	Tucson	" " "
	Yuma	" " "
California	Eureka	McGareghan Supply Co.
	Fresno	Fresno Oxygen & Welding Suppliers
	Hanford	Valley Oxygen Co.
	Long Beach	Bowers Ambulance Service
	Los Angeles	Angelus Oxygen & Equipment
	" "	Stuart Oxygen Co.
	"	H.C. Witherspoon Co.
Colorado	Oakland	Heidi Equipment Co.
	"	Stuart Oxygen Co.
	San Diego	Aeroweld Supply Co.
	San Francisco	Stuart Oxygen Co.
	San Jose	Pacific Hardware & Steel Co.
	Sacramento	California Oxygen Co.
	Denver	Western Oxygen Co.
	Pueblo	Spencer Supply Co.
Idaho	Bolse	Home Oxygen Co.
Montana	Billings	Mikes Welding Supply Co.
	Great Falls	Sierra Oxygen Co.
Nevada	Reno	New Mexico Steel
New Mexico	Albuquerque	Western Oxygen, Inc.
	Hobbs	Industrial Air Products Co.
Oregon	Medford	" " " "
	Portland	" " " "
	Washington	Gibson Welding Supplies
	Spokane	Worland Oxygen Co.
	"	"
Wyoming	Worland	"

C. I. T. specializes in financing equipment for Distributors and Contractors

NOBLE COMPANY
1860 Seventh St.
Oakland 20, California

PRODUCTS: Cement and Aggregate Batching Plants; Bins; Cement Silos; Conveyors; Elevators; Hoppers; Air Ram and Manually Operated Clampshell and Slide Type Bin Gates; Concrete Buckets.

NORTHWEST DISTRICT SALES REPRESENTATIVE

Washington Seattle 518 1st Ave.N. Robert C. Clark

DISTRIBUTORS

California Los Angeles Noble Co.
Oakland " "
Idaho Boise Intermountain Equipment Co.
Oregon Portland Loggers & Contractors Machinery Co.

ALL OTHER WESTERN STATES COVERED BY
NOBLE COMPANY SALES ENGINEERS

NORDBERG MANUFACTURING COMPANY
S. Chase and W. Oklahoma Avenue
Milwaukee 7, Wisconsin

PRODUCTS: "SYMONS" Cone Crushers; "SYMONS" Vibrating Screens; Primary Gyratory Crushers; Gyrodisc Crushers; Grinding Mills; Kilns; Coolers; Slakers; Mine Hoists; Railway Track Maintenance Machinery; Diesel Engines (10 to 10,800 HP), Gasoline Marine Engines.

WESTERN FACTORY BRANCHES

San Francisco Vancouver

DISTRIBUTORS

Idaho Boise Intermountain Equipment Co.
Oregon Portland Howard-Cooper Corporation

NORTHWEST ENGINEERING COMPANY
135 South LaSalle Street
Chicago 3, Illinois

PRODUCTS: Shovels; Cranes; Draglines and Pullshovels - Crawler and Truck Mounted.

FACTORY BRANCHES

California Los Angeles Manager P.G.Rove
San Francisco " A.G.Croley
Washington Seattle " J.L.Tallmen

DISTRIBUTORS

Arizona Phoenix Superior Equipment Co.
Colorado Denver Power Equipment Co.
Nevada Reno Sierra Machinery Co.
New Mexico Albuquerque Lively Equipment Co.
Oregon Medford Cal-Ore Machinery Co.
Portland Balzer Machinery Co.
Utah Salt Lake City Arnold Machinery Co.
Washington Spokane General Machinery Co.
Wyoming Cheyenne Mid-State Equipment Co.
Keremi Tractor & Equipment Co.

NOVO ENGINE COMPANY
702 Porter Street
Lansing 5, Michigan

PRODUCTS: Engines; Pavement Breakers; Pumps; Hoists; Generator Sets.

O.K. MACHINERY DIVISION OF
JOHN C. POTTER PRINTING PRESS CO.
Florence Street
Columbus, Pennsylvania

PRODUCTS: Hoists; Winches; Air Compressors (Portable); Portable Man Positioners; Portable Elevators.

DISTRIBUTORS

Arizona Phoenix Arizona Equipment Sales Co.
Colorado Denver Ray Corson Machinery Co.

13,000 WESTERN CONSTRUCTION READERS HAVE
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SUPPLIES.

THE OLIVER CORPORATION
400 West Madison Street
Chicago 6, Illinois

PRODUCTS: Crawler & Wheel Tractors (Gas & Diesel) with
Allied Equipment.

WESTERN DIVISION MANAGER

California Oakland 1066 47th Ave. Sam W. White, Jr.

FACTORY BRANCHES

California Los Angeles 4330 District Blvd H.W. DeMent, Mgr.
Oakland 1066 47th Ave. G.M. Blow, Mgr.
Oregon Portland 130 SE Morrison H.E. Noess, Mgr.

DISTRIBUTORS

Arizona Phoenix Arizona Equipment Sales, Inc.
California Bakersfield Motor Truck Sales & Service
Chico Cal-Butte Tractor Co.
Colton Condado Tractor Co.
Colfax Tractor Specialties
Escondido Willis Tractor & Equipment Co.
Eureka Gustafson Tractor Co.
Fresno Jim Ingle Co.
Merced Polzine Farm Equipment Co.
Napa Warner-Riffe Tractor & Equipment Co.
Redding Lowry Equipment Co., Inc.
Sacramento Flood Equipment Co.
Salinas Ashton Implement Co.
San Jose Mechanical Farm Equipment Co.
San Leandro Tractor & Equipment Co.
Stockton H & M Tractor Co.
Ukiah Banzhaf Farm Machinery Co.
Whittier Turner & Chapin, Inc.
Colorado Denver Liberty Truck & Parts Co.
Idaho Boise Eng. Sales Service, Inc.
Montana Missoula Idaho Cletrac Sales Co.
Montana Billings Western Construction Equipment Co.
Nevada Reno B & M Tractor & Equipment Co.
New Mexico Albuquerque N.C. Ribble Co.
Oregon Eugene Loggers & Contractors Machy. Co.
Portland "
Utah Salt Lake City Arnold Machinery Co., Inc.
Washington Seattle Pacific Hotel & Derrick Co.
Spokane Inland Diesel Machinery Co.
Walla Walla Melcher-Ray Machinery Co.
Wenatchee Central Tractor & Equipment

D.W. ONAN & SONS, INC.
University Ave. SE at 25th
Minneapolis 14, Minnesota

PRODUCTS: Electric Generating Plants; Gasoline & Diesel; Gasoline Engines; Separate Generators.

ZONE MANAGERS

California Palo Alto Frank Gernand
Colorado Denver 1588 Edgewood Drive Les Leland

DISTRIBUTORS

Arizona Nogales Commercial Distributors
Phoenix Equipment Sales Co.
California Monterey Ets Hokin & Galvan
Oakland "
San Diego "
San Francisco "
Stockton "
Wilmington "
Colorado Denver National Light & Pump Co.
Montana Billings Great Northern Tool & Supply Co.
Culberson "
Kevin "
Missoula "
New Mexico Albuquerque Miller Machinery Co.
Oregon Portland Harry Cornelius Co., Inc.
Utah Salt Lake City Sparks-Wills, Inc.
Washington Seattle Motor Mercantile Co., Inc.
Wyoming Casper Fremont Electric Co.
Power Service, Inc.

OSHKOSH MOTOR TRUCK, INC.
2300 Oregon Street
Oshkosh, Wisconsin

PRODUCTS: 4 and 6 Wheel Drive Trucks used in Snow Removal and
On and Off-Highway Hauling. Range from 22,000
pounds to 95,000 pounds gross vehicle weight.

DISTRIBUTORS

Arizona Los Angeles Phillips Equipment Co.
California Los Angeles "
Sacramento Diamond T Motor Truck Co. of Sacramento
Colorado Denver " "
Idaho Boise " "
Montana Billings Western Construction Equipment Co.
Nevada Reno Jenkins Albright
New Mexico Albuquerque Harry Cornelius Co.
Oregon Portland Contractors Equipment Co.
Utah Salt Lake City Arnold Machinery Co.
Washington Seattle Totem Equipment Co.
Wyoming Cheyenne "Keremi Tractor & Equipment Co.

C. I. T. CORPORATION

660 Market Street, San Francisco 416 West 8th Street, Los Angeles
Equitable Building, Portland

OVERSTROM & SONS
2213 West Mission Road
Alhambra, California

PRODUCTS: Vibrating Screens.

DISTRIBUTORS

Montana	Missoula	MILLER MACHINERY CO.
Oregon	Portland	Contractors Equipment Corp.
Utah	Salt Lake City	LUND MACHINERY COMPANY
Washington	Seattle	Washington Machinery Co.

OWEN BUCKET COMPANY
59 and Breakwater
Cleveland, Ohio

PRODUCTS: Clamshell Buckets and Grapples.

WESTERN FACTORY BRANCH

California	Berkeley	Manager	F.L.Kelzer
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DISTRIBUTORS

Arizona	Phoenix	Shriver Machinery Co.
"	"	State Tractor & Equipment Co.
California	Los Angeles	Western Machinery Co.
"	"	Brown-Bevis Industrial Equipment Co.
Idaho	Boise	Electric Steel Foundry Co.
Nevada	Reno	Garlinghouse Bros.
Oregon	Portland	Intermountain Equipment Co.
Washington	Seattle	Sierra Machinery Co.
	Spokane	Clyde Equipment Co.
		A.H.Cox & Co.
		Intermountain Equipment Co.

PACIFIC CAR & FOUNDRY CO.
4th and Factory
Renton, Washington

PRODUCTS: Hoists; Winches; Dozers; Loading Arches; Wire Rope
Rigging Fittings; Land Clearing Blades; Power Control
Units; Ship Repair; Structural Fabrication and
Erection of all kinds; Forgings; Castings; Sheet Metal
Work; Military Vehicles; Refrigerator Cars; Flat Cars;
Industrial Cars; Commercial Galvanizing; Heat Treat-
ing; Machining.

FACTORY BRANCHES

Washington	Everett	Marine Division	E.A.Black, V.P.
	Seattle	Structural Steel Division	
"	"	Ship Repair Div.	Paul Jacobson, V.P.
"	"	Kenworth Motor Truck Corp.	E.A.Black, V.P.
			John Holstrom, V.P.

BRANCH OFFICE

Oregon	Portland	Manager	A.W.Rhodes
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DISTRIBUTORS

ALL PRINCIPAL TRACTOR DEALERS IN ALL STATES

PACIFIC PUMPING CO.
9201 San Leandro St.,
Oakland 3, California

PRODUCTS: Pumps.

FACTORY BRANCHES

California	Los Angeles	Manager	R.H.Franklin
Oregon	Portland	"	S.B.Hunting
Washington	Seattle		Bernard B.Willis

DISTRIBUTORS

Arizona	Phoenix	Smith Engineering & Equipment Co.
Colorado	Denver	Mine & Smelter Supply Co.
New Mexico	Albuquerque	Waukesha Engine & Equipment Co.
Utah	Salt Lake City	Sebree-Huff Equipment Co.
	"	Mine & Smelter Supply Co.
	"	National Equipment Co.

ADVERTISING TO THE CONSTRUCTION INDUSTRY OF THE WEST AND
ALASKA IS A REGIONAL JOB—

- Construction needs, problems and practices are different
- The West's construction problems differ from those in the rest of the U.S., but are common to the whole western region
- Western contractors are regional operators—many work on projects anywhere in the West; most cross state borders continually

—AND WESTERN CONSTRUCTION IS ONE PUBLICATION THAT COVERS
ALL THE WEST

PACIFIC WIRE ROPE CO.
1840 E. 15th Street
Los Angeles 21, California

PRODUCTS: Wire Rope & Galvanized Strand

FACTORY BRANCHES

California	San Francisco	681 Market Street	John G.Brown
Oregon	Portland	3615 NW St.Helens	James K.Mosser

SALES CO-ORDINATOR

California	Los Angeles	1840 E. 15th St.	N.Graham
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DISTRIBUTORS

Arizona	Phoenix	Arizona Equipment Sales
	Tucson	AWECO Supply Co.
California	Bakersfield	Lamb Wire Line Service
	Blythe	Honnen Machinery Co.
	El Centro	Faure Tractor Co.
	Redding	Paul Droscher Sales
	Riverside	Johnson Tractor Co.
	Sacramento	James T.Gede Co.
	San Diego	San Diego Tractor & Equipment Co.
	"	Ducommun Metals & Supply Co.
Idaho	Boise	Spencer Supply Co.
Nevada	Fallon	Bernie Spencer's Industrial Sales & Serv.
New Mexico	Albuquerque	Leonard Motors Co.
Oregon	Portland	Balzer Machinery Co.
	Coos Bay	Looners Supply Co.
	Roseburg	Flury Supply Co.
Utah	Salt Lake City	The J.T.Holland Co.
Washington	Seattle	Collins Machinery Co.
	"	Pacific Hoist & Derrick Co.
	Spokane	Helliwell & Co.

PAGE ENGINEERING CO.
Clearing Post Office
Chicago 38, Illinois

PRODUCTS: Walking Draglines; "Automatic" Dragline Buckets;
Horizontal-Wee Diesel Engines; Chain & Bucket
Accessories.

DISTRIBUTORS

California	Los Angeles	Bevis Machinery Co.
"	"	Brown-Bevis Industrial Equipment Co.
	Richmond	Smith-Booth-Usher Co.
	San Francisco	Bay Equipment Co.
"	"	Edward R.Bacon Co.
	Stockton	Standard Machinery Co.
Colorado	Denver	Moore Equipment Co.
	"	Stockton Iron Works
	"	Colorado Builders Supply Co.
	"	Ray Carson Machinery Co.
	"	Faris-Moritz Supply Co.
	"	Liberty Trucks & Parts Co.
	"	Mine & Smelter Supply Co.
	"	H.W.Moore Equipment Co.
	"	McCoy Co.
	"	Western Machinery Co.
Idaho	Bolse	Western Equipment Co.
	Idaho Falls	Southern Idaho Equipment Co.
Montana	Billings	Western Construction Equipment Co.
	"	Industrial Equipment Co.
	Butte	Seltz Machinery Co., Inc.
	Great Falls	Hall-Perry Machinery Co.
	Helena	Central Machinery Co.
	Missoula	Steffek Equipment Co.
New Mexico	Albuquerque	Western Tractor & Equipment Co.
	"	Contractor Equipment & Supply Co.
Oregon	Medford	Harry Cornelius Co.
	Klamath Falls	Cal-Ore Machinery Co.
	Portland	Cascade Industrial Supply, Inc.
	"	Feeonaugh Machinery Co.
	"	Howard-Cooper Corp.
Utah	Salt Lake City	Nelson Equipment Co.
	"	Western Machinery Co.
Washington	Seattle	A.H.Cox & Co.
	"	Northern Commercial Co.
	"	Star Machinery Co.
	"	Yukon Equipment Co.
	Spokane	Andrews Equipment Co.
	"	Modern Machinery Co.
Wyoming	Cheyenne	Western Equipment Co.
	"	Wilson Equipment & Supply
	Greybull	Wortham Machinery Co.
	"	Nash-Davis Machinery Co.

Read WESTERN CONSTRUCTION for—

- The latest job methods and costs in the West
- Up-to-date equipment and supply information
- Job progress news, who's doing what
- News of contractors, distributors, engineers

C. I. T. finances installment sales
of equipment for many Distributors

THE PARSONS COMPANY
200 North 8th Ave., East
Newton, Iowa

PRODUCTS: Trenchliners and Trenchmobiles (Ditchers & Trenchers).
FACTORY BRANCH

California Stockton Koehring Co. of Calif., 2200 Country Club Blvd
Manager Harry Powers

DISTRICT REPRESENTATIVE

California Stockton 2003 Rosecrans Way K.R. Chandler

DISTRIBUTORS

Arizona	Phoenix	Nell B. McGinnis Co.
California	Los Angeles	Herron Rickard & McCone Co.
	San Francisco	Standard Machinery Co.
Colorado	Bakersfield	Bakersfield
Idaho	Boise	Engineering Sales Service, Inc.
Montana	Billings	Western Construction Equipment Co.
New Mexico	Albuquerque	Harry Cornelius Co.
Oregon	Portland	Columbia Equipment Co.
Utah	Salt Lake City	Kimball Equipment Co.
Washington	Seattle	Pacific Hoist & Derrick Co.
	Spokane	American Machine Co.
Wyoming (No) Billings, Mont.	Western Construction Equipment Co.	
(So) Denver, Colo.	McKelvy Machinery Co.	

PEERLESS PUMP DIVISION
Food Machinery and Chemical Corp.,
301 W. Avenue 26
Los Angeles, California

PRODUCTS: Pumps, all types.

FACTORY BRANCHES

Arizona	Phoenix	Manager	H.L. Drew
California	Bakersfield	"	Holly Stanford
	Fresno	"	C.H. Sotter
New Mexico	Albuquerque	"	M. Cannon

PERFECTION STEEL BODY CO.
Galloway
Ohio

PRODUCTS: Perfection-Dump, Stake, Contractors', Coal and Coke, Drop Side, Steel Platform and Special Purpose Truck Bodies; Hydraulic Hoists; Farm Booster Type Hoists; Hydraulic Lift End Gates (Hydra-Power); Two Wheel Trailers; Hydraulic Front End Loaders; Wagons; Soil Pulverizers; Snow Plows; Crane and Dozer Attachments for Front End Loaders.

DISTRIBUTORS

Dealers in all Principal Cities

PETERBILT MOTORS CO.,
10700 MacArthur Blvd.,
Oakland 5, California

PRODUCTS: Heavy Duty Trucks, MacDonald Division: Low Body Trucks; Converter Bodies and Lift Trucks.

FACTORY BRANCH

California San Francisco 757 Folsom St. Mr. Morris, Mgr.

DISTRIBUTORS

California	Fresno	Connel Motor Truck Co., Inc.
Los Angeles	Los Angeles	Carl N. Frank Truck Sales, Inc.
	San Jose	Coast Counties Truck & Equipment Co.
Colorado	Denver	Connell Motor Truck Co., Inc.
Montana	Billings	Kaer Truck & Equipment Co.
New Mexico	Albuquerque	Montana Trail Sales & Equipment Co.
Oregon	Portland	Harshorn Truck Sales
Utah	Salt Lake City	G.R. Stevenson, Inc.
Washington	Seattle	Commercial Equipment Co.
	Spokane	Northwest Truck Sales, Inc.
		Inland Diesel & Machinery Co.

IF YOU WANT TO—

- Sell, rent, lease or buy used equipment
- Fill or get a good job
- Advertise on auction
- Offer or obtain some special service

THEN it is to your advantage to use
THE CLASSIFIED SECTION OF WESTERN CONSTRUCTION

PETTIBONE MULLIKEN CORPORATION
4700 W. Division Street
Chicago 51, Illinois

PRODUCTS: Motor Graders; Front End Loaders; Speed Swing Loaders; Yard Cranes; Bucket Conveyor Loaders; Fork and Bucket Loaders; Material Handling Buckets; Clamshell, Dragline, Pullshovel Dippers and Shovel Dippers; Manganese Steel Castings.

FACTORY BRANCH

California N. Hollywood 8900 Tujunga Ave. Pettibone Wood Mfg. Co.

DISTRICT MANAGERS

California N. Hollywood	Phoenix	12147 Huston St. C.W. Cedarette
	Los Angeles	Denver 2800 Newport Ave. A.A. Ainley
	Sacramento	Washington Seattle 4975 3rd Ave. So. N. Anderson

DISTRIBUTORS

Arizona	Phoenix	Arizona Equipment Sales, Inc.
California	Los Angeles	Calaver Corp.
	Sacramento	Moore Equipment Co., Inc.
	San Francisco	FWD Pacific Co.
Colorado	Denver	Moore Equipment Co., Inc.
Idaho	Boise	Stockton Liberty Trucks & Parts Co.
	Pocatello	Carl R. Burt Equipment Co.
Montana	Helena	Rocky Mountain Machinery Co.
Nevada	Reno	Montana Powder & Equipment Co.
New Mexico	Albuquerque	Moore Equipment Co., Inc.
Oregon	Medford	Harry Cornelius Co.
	Portland	Leonard Motor Co., Inc.
Utah	Salt Lake City	Cal-Ore Machinery Co.
Washington	Seattle	Balzer Machinery Co.
	Spokane	Rocky Mountain Machinery Co.
Wyoming	Cheyenne	Modern Machinery Co., Inc.

Wyoming Cheyenne Mountain Equipment Co.

PETTIBONE NEW YORK CORP.

DIVISION OF PETTIBONE MULLIKEN CORP.
1212 E. Dominick Street
Rome, New York

PRODUCTS: Motor Graders (Speed Graders).

FACTORY BRANCH

California N. Hollywood 8900 Tujunga Ave. Pettibone Wood Mfg. Co.

DISTRICT MANAGERS

California N. Hollywood	Phoenix	12147 Huston St. C.W. Cedarette
Colorado	Denver	2800 Newport Ave. A.A. Ainley
	Washington Seattle	4975 3rd Ave. N. Anderson

DISTRIBUTORS

Arizona	Phoenix	Arizona Equipment Sales Co.
California	Los Angeles	Calaver Corp.
	San Francisco	FWD Pacific Co.
Idaho	Boise	Carl R. Burt Equipment Co.
	Pocatello	Rocky Mountain Machinery Co.
Montana	Helena	Montana Powder & Equipment Co.
New Mexico	Albuquerque	Leonard Motor Co., Inc.
Oregon	Medford	Cal-Ore Machinery Co.
	Portland	Balzer Machinery Co.
Utah	Salt Lake City	Rocky Mountain Machinery Co.
Wyoming	Cheyenne	Mountain Equipment Co.

PETTIBONE WOOD MFG. CO.
Subsidiary of Pettibone Mulliken Corp.
6900 Tujunga Avenue
North Hollywood, California

PRODUCTS: Roadmixers, Preparizers, and Allied Equipment for Mixed-In-Place Road Building.

DISTRIBUTORS

Arizona	Phoenix	Equipment Sales Co.
California	San Francisco	FWD Pacific Co.
	Los Angeles	Pettibone Wood Mfg. Co.
Colorado	Denver	H.W. Moore Equipment Co.
Idaho	Boise	Gate City Steel
Montana	Butte	Hall-Perry Machinery Co.
New Mexico	Albuquerque	J.D. Coatings Co.
Oregon	Portland	P.L. Crooks Co.
Utah	Salt Lake City	Arnold Machinery Co.
Washington	Seattle	Modern Machinery Co.
	Spokane	Spokane

Contractors, project and design engineers, and construction superintendents are among the highly-select group throughout the West which makes up the readers of WESTERN CONSTRUCTION. You can tell this group about what you have to sell in the pages of WESTERN CONSTRUCTION, the one publication that covers ALL the West.

C. I. T. CORPORATION

660 Market Street, San Francisco 416 West 8th Street, Los Angeles
Equitable Building, Portland

PIONEER ENGINEERING WORKS, INC.
1515 Central Avenue
Minneapolis 13, Minnesota

PRODUCTS: Feeding, Conveying, Crushing, Screening and Washing
Equipment; Bituminous Mixing Plants.

DISTRICT SALES REPRESENTATIVE

Oregon Portland 2145 NE Hancock Wm. H. Schanep

DISTRIBUTORS

Arizona	Phoenix	Neil B. McGinnis Equipment Co.
California	Los Angeles	Harcos, Rickard & McCone Co.
	Oakland	George M. Philpott Co.
	Sacramento	" " "
	San Francisco	" " "
Colorado	Denver	Colorado Builders Supply Co.
Idaho	Bolse	Feebaugh Machinery Co.
	Idaho Falls	Parkinson Tractor Co.
Montana	Billings	Industrial Equipment Co.
	Great Falls	Normont Equipment Co.
	Kalispell	Westmont Tractor & Equipment Co.
Nevada	Reno	Pioneer Equipment Co. of Nevada
New Mexico	Albuquerque	Lively Equipment Co.
Oregon	Portland	Feebaugh Machinery Co.
Utah	Salt Lake City	Wheeler-Kershaw Co.
Washington	Seattle	Feebaugh Machinery Co.
	Spokane	" " "
Wyoming	Casper	Colorado Builders Supply Co.

PITMAN MANUFACTURING CO.
300 W. 70th St., Terrace
Kansas City 14, Missouri

PRODUCTS: Cranes, Truck-Mounted; Pitman Hydra-Lift (3 ton) and
Pitman Crane, Model 80 (4 ton).

DISTRICT REPRESENTATIVE

California Altadena 1796 E. Mendocino St. Bert McMillin

DISTRIBUTORS

Arizona	Phoenix	Western Machinery Co.
California	Los Angeles	Smith-Booth-Usher Co.
	San Francisco	Edward R. Bacon Co.
Colorado	Denver	Western Machinery Co.
Idaho	Boise	Engineering Sales & Service, Inc.
Montana	Helena	Montana Powder & Equipment Co.
New Mexico	Albuquerque	Winter-Weiss Company
Oregon	Portland	Loaders & Contractors Machinery Co.
Utah	Salt Lake City	H.H. Nielsen Company
Washington	Seattle	Star Machinery Co.
	Spokane	" " "

POWDER POWER TOOL CORP.
7520 S.W. Macadam Ave.
Portland 14, Oregon

PRODUCTS: Powder Actuated Tools and Fasteners.

DISTRIBUTORS

Arizona	Douglas	Douglas Hardware Co.
	Nogales	Commercial Distributors
	Phoenix	Arizona Welding Equipment Co.
	Tucson	AWECO Supply Co.
	" "	Erv's Rental Service
California	Bakersfield	McCarthy Tank & Steel Co.
	La Jolla	A.B. Cartwright
	Long Beach	Masterson Tool & Equipment Co.
	Los Angeles	Gridley Equipment Co.
	" "	The Hubbard Co.
	" "	Industrial Power Tool Co.
	" "	R.S. Hardy, Inc.
	San Diego	Hudson Corp.
	San Francisco	J.F. Hamlin Co., Inc.
	" "	West Coast Industrial Sales Co.
Colorado	Colorado Springs	Bishop Tool Rental
	Denver	The Pape Organization
	Pueblo	Stapleton Supply, Inc.
Idaho	Bolse	Pueblo Tool Rental Co.
	Pocatello	Intermountain Equipment Co.
Montana	Billings	Rental Equipment Co.
	Great Falls	Building Service, Inc.
	" "	Glacier State Electric Supply Co.
Nevada	Helena	Builders Supply Co.
	Las Vegas	Industrial Power Tool Co.
New Mexico	Albuquerque	Albuquerque Machine & Supply
	" "	Industrial Power Tool Co.
Oregon	Eugene	Barnum Tool Co.
	Portland	West Pacific Sales Co.
	Salem	Salem Saw Works
Utah	Salt Lake City	Farm & Home Builders Supply
Washington	Seattle	West Pacific Sales Co. of Washington
	Spokane	Safway Scaffold Co. of Spokane
	Tacoma	St. Paul & Tacoma Lumber Co.
	Yakima	Safway Scaffold Co. of Yakima
Wyoming	Cheyenne	A.Y. McDonald Manufacturing Co.
	Evanston	Cook Plumbing & Heating Co.
		Carruth & Son

PRECO, INC.
6300 East Slauson Ave.
Los Angeles 22, Calif.

PRODUCTS: Bulldozer Back-Rippers and Dozer-Rippers.

DISTRIBUTORS

See list of Caterpillar Dealers.

THE PRIME-MOVER COMPANY
Sampson Street
Muscatine, Iowa

PRODUCTS: Prime-Mover; Wheelbarrow Type Dump Hopper of
10 cu. ft. Capacity, Interchangeable with Platform
Body in few seconds; 50-inch Steel Grader Blade
Attachment; Gasoline-powered, Gear-driven, takes
three-quarter ton load.

DISTRIBUTORS

Arizona	Phoenix	Equipment Sales Co.
California	Oakland	Ricker Machinery Co.
	Culver City	Superior Scaffold Co.
Colorado	Denver	Ray Corson Machinery Co.
Idaho	Bolse	The Sawtooth Co.
New Mexico	Albuquerque	J.D. Coggins Co.
Nevada	Reno	Pioneer Equipment Co.
Oregon	Portland	Contractors Equipment Co.
Utah	Salt Lake City	Rocky Mountain Machinery Co.
Washington	Seattle	Universal Equipment Co.
	Spokane	Andrews Equipment Service of Wash., Inc.
Wyoming	(Salt Lake)	Rocky Mountain Machinery Co.

QUINCY COMPRESSOR CO.
304 Main Street
Quincy, Illinois

PRODUCTS: Air Compressors; Dry Vacuum Pumps.

FACTORY BRANCH

California San Francisco 1185 Mission St. Bernard Katz

DISTRIBUTORS

Arizona	Phoenix	Western Machinery Co.
California	Berkeley	Central Equipment Co.
	Fresno	Edward R. Bacon Co.
	Los Angeles	Essick Manufacturing Co.
	" "	Binks Manufacturing Co.
	" "	Sharpe Manufacturing Co.
	" "	Smith-Booth-Usher Co.
Colorado	Denver	Benson & Zimmerman
	Oakland	J.T. Cline, Quincy Compressor Serv.
	Redding	Rother Auto Parts
	Sacramento	Franklin Machinery Co.
	" "	Western Machinery Co.
	San Francisco	Edward R. Bacon Co.
	" "	Binks Manufacturing Co.
	" "	Coast Equipment Co.
Colorado	Denver	Gunderson-Taylor Machinery Co.
New Mexico	Albuquerque	Lively Equipment Co.
Oregon	Portland	Clyde Equipment Co.
	" "	Contractors Equipment Co.
Utah	Salt Lake City	Equipment Service, Parts & Service
Washington	Seattle	Western Machinery Co.
	" "	Alaska Pacific Supply Co.
	" "	Olympic Supply Co.
	Spokane	Northwest Industrial Equipment Co., Parts and Service
		Western Machinery Co.

"QUICK-WAY" TRUCK SHOVEL CO.
2401 E. 40th Avenue
Denver, Colorado

PRODUCTS: Truck Shovels; Cranes; Draglines.

DISTRICT REPRESENTATIVES

California San Francisco 2310 Chestnut St. W.W. Cornell
Washington Bellevue 10564 NE 25th Leonard Overholt
Colorado Denver P.O. Box 1800 Cecil W. Terrel

DISTRIBUTORS

Arizona	Phoenix	Equipment Sales Co.
California	San Francisco	Edward R. Bacon Co.
	Oakland	" " "
	Fresno	" " "
	Sacramento	" " "
	Stockton	" " "
	Los Angeles	Cook Bros. Equipment Co.
Colorado	Denver	H.W. Moore Equipment Co.
Idaho	Idaho Falls	Arnold Machinery Co., Inc.
Montana	Butte	Hall-Perry Machinery Co.
	" "	" " "
	Billings	" " "
	Great Falls	" " "
	Missoula	" " "
Nevada	Reno	Edward R. Bacon Co.
New Mexico	Albuquerque	Lively Equipment Co.
Oregon	Portland	Nelson Equipment Co.
Utah	Salt Lake City	Arnold Machinery Co., Inc.
Washington	Seattle	Nelson Equipment Co.
	Spokane	General Machinery Co.
Wyoming	Cheyenne	Keremi Tractor & Equipment Co.
	Casper	" " "

C. I. T. specializes in financing equipment
for Distributors and Contractors

RAMSET FASTENERS, INC.
12117 Berea Road
Cleveland 11, Ohio

PRODUCTS: Powder Actuated Tools; Fasteners and Powder Charges.

DISTRIBUTORS

Arizona	Phoenix	Thunderbird Sales Corp.
	Tucson	Industrial Tool & Supply Co.
California	Bakersfield	Pioneer Mercantile Co.
	Compton	Crown Pipe & Supply Co.
	"	Thieme Construction Supplies
	Eureka	George C. Jacobs Co.
	Fresno	A.L. Young Machinery Co.
	Indio	Valley Lumber & Supply Co.
	Los Angeles	Andrey Co., Inc.
	"	Mine S Mill Machinery Co.
	"	Moss & Hallack
	Modesto	American Lumber Co.
	Monterey	Peninsula Saw Shop
	Oakland	Haven Saw & Tool Co.
	Sacramento	Rubber Products Co.
	"	Sacramento Machinery Co.
	Salinas	Electric Supply of Salinas
	"	Tynan Lumber Co.
	San Diego	Construction Tool & Supply Co.
	San Francisco	Elder & Co.
	"	Festco
	"	Hobelman & Co.
	"	A.L. Young Machinery Co.
	San Jose	Power Tool Mart
	Santa Ana	V.B. Anderson Co.
	Stockton	Delta Pipe & Supply Co.
	Ventura	Peoples Lumber Co.
	"	Crow-Gerrick Co.
	Whittier	V.B. Anderson Co.
Colorado	Denver	Central Electric Supply Co.
	"	Landes, Zachary & Peterson
	"	Mal-Foss, Inc.
	"	Union Supply Co.
	Grand Junction	Pacific & Western Industrial Supply Co.
	Pueblo	Johnson Electric Co.
	"	Pueblo Electric Supply
Idaho	Bolse	Safway Scaffold Co.
	Idaho Falls	Arnold Machinery, Inc.
	Twin Falls	Mid-State Supply Co.
	Wallace	Gardner Supply Co.
	Billings	Building Specialties Co.
	Butte	Construction Materials Co.
	Heva	Treasure State Supply
	Livingston	Builders Machine Co.
	Missoula	Missoula Mercantile Co.
Nevada	Reno	Hub Electric Supply
	New Mexico	Kitchen Electric Supply Co.
	Albuquerque	Contractors' Equipment & Supply Co.
	"	Landes, Zachary & Peterson
	Carlsbad	Santa Fe Builders Supply Co.
	Santa Fe	Carlsbad Supply Co.
Oregon	Astoria	Santa Fe Builders Co.
	Baker	Fisher Brothers Co.
	Coos Bay	Oregon Lumber Co.
	The Dalles	W.J. Conrad Lumber Co.
	Eugene	Stadelmann-Bonn Hardware Co.
	"	John Warren Hardware
	Grants Pass	T.V. Williams
	Klamath Falls	Jack Humrick
	Pendleton	Swan Lake Moulding Co.
	Portland	Tum-A-Lum Lumber Co.
	Salem	Cascade Distributors, Inc.
Washington	Aberdeen	Valley Welding Supply
	Bellingham	Grays Harbor Equipment Co.
	Everett	J.M. Van Wickle
	Pasco	Everett Hardware Co.
	Seattle	Lehi Electric Supply Co.
	Spokane	Cascade Distributors, Inc.
	Tacoma	Northern Commercial Co.
	Takima	Cascade Distributors, Inc.
	Casper	Harold Bird, Inc.
Wyoming	"	Arthur Krum Co.
	Casper	Landes, Zachary & Peterson
	Cheyenne	Wyoming Builders Service Co.
		Power Builders Supply

THE READY POWER CO., POWER PLANT DIVISION

11231 Freud Avenue
Detroit 14, Michigan

PRODUCTS: Engine Generator Sets; Electric Sets - Diesel and Gasoline; Motor Chargers; Engine Refrigeration Compressors.

DISTRICT MANAGERS

California	Huntington Park	Box 1205 State St., Sta. 1424 11th Ave.	Karl Mollendick George Hundsdorfer
	Seattle		

DISTRIBUTORS

California	Fresno	Allied Equipment Co.
	Los Angeles	Brown-Bevils Industrial Equipment Co.
	San Jose	Bay Cities Equipment, Inc.
	Sacramento	Sacramento Valley Tractor Co.
	San Diego	Southern Equipment & Supply Co.

Continued next column

THE READY POWER CO. (CONTINUED)

Colorado	Denver	Hahn Equipment Co.
	Glenwood Sprs.	Elliott Equipment Co.
	Grand Junction	Hillman-Boggs Truck & Impl. Co.
	Boise	Intermountain Equipment Co.
	Pocatello	" " "
	Billings	Industrial Equipment Co.
	Butte	" " "
	Kalispell	" " "
	Livingston	" " "
	Missoula	" " "
	Reno	Nevada Equipment Service, Inc.
Oregon	Albany	Howard-Cooper Corp.
	Central Point	" " "
	Coos Bay	" " "
	Eugene	" " "
	New Port	" " "
	Portland	" " "
	Roseburg	" " "
	Seattle	Fremont Electric Co.
	"	Glenn, Carrington & Co.
	Spokane	Howard-Cooper Corp.
		Intermountain Equipment Co.

REESE ENGINEERING CO.
9517 E. Rush Street
El Monte, California

PRODUCTS: Hydraulic Loaders; Fork Lift Attachments; Aisle Dozers; Backfill Blades; Job Rooms; Hydraulic Cylinders; Custom Work.

DISTRIBUTORS

Arizona	Phoenix	Western Machinery Co.
	Cottonwood	Western Welding & Sales
California	Los Angeles	Casey-Metcalf Machinery Co.
	El Monte	Reco Equipment Corp.
	San Francisco	Coast Equipment Co.
Colorado	Denver	Gurderson-Taylor Machinery Co.
	"	Al Willis Sales Co.
	Grand Junction	Gunderson-Taylor Machinery Co.
	Pueblo	Mutual Machinery Co.
Idaho	Bolse	The Sawtooth Co.
	Montana	Central Machinery Co.
	Great Falls	Missoula Mercantile Co.
	Missoula	Modern Equipment Co.
	Kalispell	Sierra Machinery Co.
Nevada	Reno	Contractors Equipment & Supply Co.
New Mexico	Albuquerque	Contractors Equipment Corp.
Oregon	Portland	Taylor Machinery Co.
Utah	No. Salt Lake	Modern Machinery Co.
	Washington	" " "
	Seattle	" " "
	Spokane	" " "

REISSER CORPORATION
P.O. Box 362
Blair, Nebraska

PRODUCTS: Elevader - Elevating Greder Attachment for Adams Motor Graders, Models 550, 610 and 660.

DISTRIBUTORS

Arizona	Phoenix	State Tractor & Equipment Co.
	Tucson	" " " " "
California	Bakersfield	Crook Co.
	Escondido	Southern Equipment & Supply Co.
	Eureka	Howard-Cooper Corp.
	Fresno	Allied Equipment Co.
	Los Angeles	Crook Co.
	Oakland	Bay Cities Equipment Co.
	Redding	Sullivan & Grove Equipment Co.
	Riverside	Brennan-Dickerson Co.
	Sacramento	Sacramento Valley Tractor Co.
	Salinas	Farmers Mercantile Co.
	San Diego	Southern Equipment & Supply Co.
	Santa Maria	Hanson Equipment Co.
	Stockton	Greco
	Stratford	Orton's Equipment Co.
	Vicalia	Exeter Mercantile Co.
Colorado	Denver	McKelvy Machinery Co.
Idaho	Bolse	Intermountain Equipment Co.
	Pocatello	" " " " "
	Billings	Industrial Equipment Co.
	Great Falls	Normont Equipment Co.
	Kalispell	Treasure State Equipment Co.
	Missoula	" " " " "
	Las Vegas	Clark County Wholesale Mercantile Co.
	Reno	Nevada Equipment Service Co.
New Mexico	Albuquerque	J.D. Cogins Co.
Oregon	Albany	Howard-Cooper Corp.
	Central Point	" " " " "
	Coquille	" " " " "
	Eugene	" " " " "
	Newport	" " " " "
	Portland	" " " " "
	Roseburg	" " " " "
Utah	Salt Lake City	The Long Co.
	Seattle	Howard-Cooper Corp.
	Spokane	Infermountain Equipment Co.

C. I. T. CORPORATION

660 Market Street, San Francisco 416 West 8th Street, Los Angeles
Equitable Building, Portland

WESTERN CONSTRUCTION HANDBOOK

MANUFACTURERS' SECTION

REMINGTON ARMS COMPANY, INC.
939 Barnum Avenue
Bridgeport 2, Connecticut

PRODUCTS: Model 450 Remington Stud Driver; Accessory Guards for Anchoring Pre-Fabricated Metal Sections; Cartridges; Accessory Fittings (couplings, conduit clips, eye-nuts, cupped washers).

DISTRICT MANAGERS

California San Francisco 785 Market St. D.L.Braun
Oregon Portland 921 SW Washington D.W.Wiemer
Utah Salt Lake City Walter Bk. Bldg. D.W.F.Bennigan

DISTRIBUTORS

Arizona Phoenix	Waco-Scaffolding & Equipment Co.
California Los Angeles	Nelson Stud Welding
" "	Waco-May Company
" "	Warden Tool Co.
Sacramento	Warden Tool Co.
San Diego	" "
San Francisco	" "
Colorado San Leandro	Nelson Stud Welding
Colorado Springs	Hendrie & Bolthoff Co.
Denver	General Electric Supply Co.
"	Hendrie & Bolthoff Co.
"	Nelson Stud Welding
"	Waco Scaffolding
Grand Junction	The Salt Lake Hdwe. Co.
Idaho Boise	General Electric Supply Co.
"	The Salt Lake Hardware Co.
Montana Billings	Billings Hardware Company
"	General Electric Supply Company
"	Marshall-Wells Company
Nevada Butte	General Electric Supply Company
Nev Mexico Albuquerque	Sierra Machinery Company, Inc.
Oregon Eugene	Lively Equipment Company
" Medford	Woodbury Medford
" Portland	Home Makers Supply Company
Utah Salt Lake City	General Electric Supply Company
Washington Seattle	The Salt Lake Hardware Company
Spokane	Seattle Hardware Company
"	Jensen-Byrd Company
Wyoming Casper	Gibson Welding Supplies, Inc.
"	General Electric Supply Co.
"	Wyoming Automotive Company

W.A.RIDDLELL CORPORATION
E. Warren
Bucyrus, Ohio

PRODUCTS: WARCO Graders.

DISTRICT REPRESENTATIVE

California Walnut Creek 124 Springside Road Joe D.Whelan

DISTRIBUTORS

Arizona Phoenix	Equipment Sales Co.
California Berkeley	West Coast Engine & Equipment Co.
El Monte	Warnock-Bancroft Equipment Co.
Eureka	Riley Logging & Supply Co.
Fresno	Reynolds Equipment Co.
Redding	Paul Droscher Sales
San Diego	Hudson Equipment Co.
Colorado Denver	Graham Road Equipment Co.
Idaho Boise	The Seafooth Company
Montana Helena	Caird Engineering Works
Oregon Portland	Nelson Equipment Co.
Utah Salt Lake City	Lund Machinery Co.
Washington Seattle	Western Tractor & Equipment Co.
Wyoming (Denver)	Graham Road Equipment, Inc.

ROCKLAND ALLIED EQUIPMENT CORP.
Marborside Park
Providence 5, Rhode Island

PRODUCTS: Rockland Heavy Duty Land-Clearing Rakes; Rock Rakes; Root Rakes; Bulldozer and Angledozer Blades.

DISTRIBUTORS

Colorado Denver	Power Equipment Co.
Montana Billings	Industrial Equipment Co.
"	Seitz Machinery Co., Inc.
Nevada Sidney	Richland Machinery Co.
Oregon Portland	Nevada Equipment Service, Inc.
Washington Seattle	Loggers & Contractors Machinery Co.
"	Hulse Machinery Co., Inc.

WESTERN CONSTRUCTION COVERS ALL
OF THE WEST'S BIG AND GROWING CONSTRUCTION
MARKET

JOHN A. ROEBLING'S SONS CORP.
640 South Broad Street
Trenton 2, New Jersey

PRODUCTS: Wire Rope Strand and Assemblies; Wire Rope Slings; Electrical Wire & Cable; Tensioning Materials for Prestressed Concrete; Suspension Bridges & Cable; Tramways.

FACTORY BRANCHES

California Los Angeles	Manager	R.C.Groesbeck
California San Francisco	"	G.C.Bukovsky
Colorado Denver	"	G.P.Hays
Washington Seattle	"	A.R.Robinson

ROGERS BROTHERS CORPORATION
Orchard Street
Albion, Pennsylvania

PRODUCTS: Low Bed Heavy Duty Trailers.

DISTRIBUTORS

California San Francisco	Coast Equipment Corp.
Colorado Denver	H.W.Moore Equipment Co.
Idaho Boise	Intermountain Equipment Co.
Montana Billings	Montana Trailer Sales & Equipment Co.
"	Miller Machinery Co.
New Mexico Albuquerque	J.D.Coggins Company
Utah Salt Lake City	Western Machinery Co.
Washington Seattle	Transport Trailer & Equipment Co., Inc.
Wyoming Cheyenne	Cheyenne Truck Equipment Co.

ROSCO MANUFACTURING CO.
311B Snelling Avenue
Minneapolis 6, Minnesota

PRODUCTS: Bituminous Distributors; Road Maintenance Units; Sweepers; Haul Tanks (Bituminous); Street Cleaners; Street Flushers; Water Sprinklers for Soil Stabilization; Asphalt Kettles; Burners; Road Rollers.

DISTRIBUTORS

Arizona Phoenix	Equipment Sales Co.
California Los Angeles	Larson Equipment Co.
"	FWD Pacific Co.
Colorado Denver	H.W.Moore Equipment Co.
Idaho Boise	The Starline Equipment Co.
"	Parkinson Tractor Co.
Montana Missoula	Westmont Tractor & Equipment
Nevada Reno	Sierra Machinery Co.
Oregon Portland	Contractors Equipment Co.
Utah Salt Lake City	Wheeler-Kershaw Co.
Washington Seattle	A.H.Cox & Co.
Spokane	Modern Machinery Co.
Wyoming Casper	Studer Tractor & Equipment Co.

ROWE MANUFACTURING CO.
614 W.Third Street
Galesburg, Illinois

PRODUCTS: Ro-Way Overhead Type Doors and Electric Operators for use in Commercial and Industrial Buildings, and Residential Garages.

DISTRIBUTORS

Arizona Phoenix	Baker-Thomas-Woolsey, Inc.
Colorado Colorado Springs	Colorado Overhead Door Co.
" Denver	Colorado Builders Supply
Idaho (Salt Lake)	Alder Sales Corp.
Montana Billings	Wm.M.Kennedy
" Butte	Archie W.Adams
" Havre	Treasure State Supply
New Mexico Albuquerque	Cobusco Steel Products
Artesia	Jay F.Vandeveenter
Wyoming (Denver)	Colorado Builders Supply Co.

R.P.B. CORPORATION
2751 E. 11th Street
Los Angeles 23, Calif.

PRODUCTS: Rapid Pavement Breakers.

DISTRIBUTORS

Arizona Phoenix	Shriver Machinery Co.
California Oakland	J.H.Wilson Co.
" Seattle	A.H.Cox & Co.

Contractors, project and design engineers, and construction superintendents are among the highly-select group throughout the West which makes up the readers of WESTERN CONSTRUCTION. You can tell this group about what you have to sell in the pages of WESTERN CONSTRUCTION, the one publication that covers ALL the West.

C. I. T. finances installment sales
of equipment for many Distributors

ST. PAUL HYDRAULIC HOIST
Mettoon
Illinois

PRODUCTS: Hoists & Bodies; Frate-Gate Elevating End Gates; Pax-all Refuse Collection Bodies.

DISTRICT MANAGER

California Richmond Gar Wood Industries J.T. Conway

DISTRIBUTORS

Arizona	Phoenix	Fruehauf Trailer Company
California	Fresno	Acme Trailer & Mfg. Co.
	Los Angeles	Standard Auto Body Co.
	Oakland	Utility Body Company
Colorado	Denver	Timple Brothers
Montana	Great Falls	Johnson Distributing Co.
Nevada	Reno	Acme Iron & Machine Co.
New Mexico	Albuquerque	Timple Brothers (Branch)
Oregon	Portland	Fruehauf Trailer Company
Washington	Seattle	" " "
	Spokane	" " "

THE SALEM TOOL CO.,
767 S. Ellsworth Avenue
Salem, Ohio

PRODUCTS: Salem Ladies, Kettles and Skimmers; McCarthy Auger Drills; Trench-Type Utility Drills; Truck Mounted and Self-Propelled Horizontal Highway Drills; Vertical 6" and 8" Drills; Mineral Recovery Drills.

DISTRIBUTORS

Arizona	Phoenix	Western Machinery Co.
California	San Francisco	Edward R. Bacon Co.
	Los Angeles	Smith-Booth-Usher Co.
	San Diego	Gould Hardware & Machinery Co.
Colorado	Denver	Union Supply Co.
Idaho	Bolse	Intermountain Equipment Co.
Montana	Butte	Hill-Perry Machinery Co.
Nevada	Reno	Sierra Machinery Co.
New Mexico	Carlsbad	Carlsbad Supply Co.
Oregon	Portland	Clyde Equipment Co.
Utah	Salt Lake City	Western Machinery Co.
Washington	Seattle	Clyde Equipment Co.
	Spokane	Intermountain Equipment Co.

SALYERS EQUIPMENT COMPANY
728 E. Washington Blvd.,
Los Angeles 21, California

PRODUCTS: Generator Sets - Diesel, Gasoline and Natural Gas Powered.

SANSTORM MANUFACTURING CO.,
Santa Clara at H Street
Fresno 15, California

PRODUCTS: Sanstorm Pressure Type and Suction Type Blast Cleaning or Sandblast Equipment.

DISTRIBUTORS

Arizona	Phoenix	Western Machinery Co.
California	Los Angeles	Garlinghouse Bros.
	"	Smith-Booth-Usher Co.
	Oakland	Pacific Graphite Co.
	"	Edward R. Bacon Co.
Sacramento	"	Moore Equipment Co.
	"	Western Traction Co.
	San Diego	Hudson Equipment Co.
	"	Edward R. Bacon Co.
	"	Coast Equipment Co.
	Stockton	Moore Equipment Co.
Colorado	Denver	Gunter & Zimmerman Sales Div., Inc.
Idaho	Bolse	Western Machinery Co.
Montana	Billings	Engineering Sales & Service, Inc.
	Butte	Montana Powder & Equipment Co.
	Helena	Hill-Perry Machinery Co.
New Mexico	Albuquerque	Montana Powder & Equipment Co.
	"	J.D. Coggins Company
Oregon	Portland	Contractors Equipment & Supply Co.
Utah	Salt Lake City	Herry Cornelius Company
Washington	Seattle	LaGrand Industrial Supply Co.
	Spokane	A.H. Cox & Company
	Tacoma	Western Machinery Co.
	Wenatchee	A.H. Cox & Company

SASGEN DERRICK COMPANY
3101 Grand Avenue
Chicago 22, Illinois

PRODUCTS: Derricks; Hoists and Winches.

The WESTERN CONSTRUCTION Annual Highways Issue, published each year in June, is a yearbook of progress in Western highway design, construction methods and costs. Advertisers in this special issue gain extra reader interest.

SAUERMAN BROS., INC.
620 S. 28th Avenue
Bellwood, Illinois

PRODUCTS: Drag Scrapers; Slackline & Tautline Cableways; Wire Rope Blocks; Wire Rope & Wire Rope Fittings.

DISTRIBUTORS

California	Los Angeles	Smith-Booth-Usher Co.
	Millbrae	Hugh L. Davis
Colorado	Denver	Constructors Equipment Co.
Montana	Billings	Hill-Perry Machinery Co.
	Butte	" " " "
	Great Falls	" " " "
Oregon	Portland	Clyde Equipment Co.
Washington	Seattle	Intermountain Equipment Co.
	Spokane	" " " "

SCHIELD BANTAM COMPANY
211 Park Street
Waverly, Iowa

PRODUCTS: Trench Hoes; Draglines; Clamshells; Shovels; Cranes; Magnets; Pile Drivers; Grapples; Backfillers.

DISTRICT MANAGERS

California San Mateo 419 41st Ave. A. Frank Landolt
Washington Spokane P.O. Box 849 R.A. Otterson

DISTRIBUTORS

Arizona	Phoenix	O.S. Stealey Co.
California	Fresno	Moore Equipment Co., Inc.
	Los Angeles	Cesey-Metcalf Machinery Co.
	No. Sacramento	Moore Equipment Co., Inc.
	Oakland	Bay Cities Equipment Co.
	Redding	Moore Equipment Co., Inc.
	San Diego	Shaw Sales & Service Co.
Colorado	Stockton	Moore Equipment Co., Inc.
Idaho	Denver	McKelvy Machinery Co.
Montana	Bolse	Engineering Sales Service, Inc.
	Billings	Industrial Equipment Co.
	Great Falls	Normont Equipment Co.
	Kalispell	Treasure State Equipment Co.
	Missoula	" " " "
Nevada	Elko	A-D Machinery Co.
	Reno	Moore Equipment Co., Inc.
New Mexico	Albuquerque	Harry Cornelius Co.
	Roswell	Smith Machinery Co., Inc.
Oregon	Medford	Haupert Tractor Co.
	Portland	Wood Tractor Company
Utah	Salt Lake City	Kimball Equipment Co.
Washington	Seattle	Modern Machinery Co.
	"	Yukon Equipment, Inc.
	Spokane	Modern Machinery Co.

SCHRAMM, INC.
West Chester
Pennsylvania

PRODUCTS: Backfill Tampers; Back Hoes; Bucket Loaders; Chain Saws; Clay Diggers; Clay Spades; Compactors; Concrete Breakers; Crawler Compactors; Demolition Tools; Earth Drills; Loaders; Pavement Breakers; Rock Bits; Rock Drills; Power Shovels; Snow Plows; Sump Pumps; Tampers; Wagon Drills; Pneumotracors.

FACTORY BRANCHES

California Los Angeles 846 E. 6th St. Karl S. Burle, Mgr.
San Francisco 1315 Howard St. Robert D. Harlow, Mgr.

DISTRICT REPRESENTATIVE

Oregon Portland 2727 SE Union Ave. Harlan K. Knudson

DISTRIBUTORS

Arizona	Phoenix	Neil B. McGinnis Co.
California	Corte Madera	North Bay Equipment Co.
	El Cajon	Daevulf Equipment Rental
	Eureka	Eureka Boiler Works
	Fresno	Haire Murray Co.
	Huntington Park	Fred E. Peugh, Inc.
	King City	Farmers Mercantile Co.
	Los Angeles	Schramm, Inc.
	" "	Acme Rentals
	" "	Active Rentals
	" "	Harron Rickard & McCone
	" "	Lersón Equipment Co.
	" "	Machinery Rental
	Porterville	Martin Supply Co.
	Redding	Porterville Equipment Rental
	Richmond	Gerlinger Steel & Supply Co.
	Riverside	Bay Equipment Co.
	Selma	Bremen Dickerson Co., Inc.
	San Carlos	Farmers Mercantile Co.
	San Diego	Peninsula Equipment Co.
	San Francisco	Hudson Equipment Co.
	" "	Schramm, Inc.
	Ven Nuys	Wade's Equipment Repair
	Watsonville	Valley Trailer Rentals
Colorado	Denver	Farmers Mercantile Co.
	" "	H.W. Moore Equipment Co.

Continued on next page

C. I. T. CORPORATION

660 Market Street, San Francisco
Equitable Building, Portland
416 West 8th Street, Los Angeles

SCHRAMM, INC. (CONTINUED)

Idaho	Bolse	Western Equipment Co.
Montana	Billings	Montana Powder & Equipment Co.
	Great Falls	" " " " "
	Helene	" " " " "
	Missoula	" " " " "
Nevada	Reno	C.D.Roeder Equipment Co.
New Mexico	Albuquerque	The Harry Cornelius Co.
Oregon	Portland	Contractors Equipment Corp.
Utah	Salt Lake City	Hiner Equipment & Supply Co.
Washington	Seattle	Rasmussen Equipment & Supply Co.
	Spokane	Universal Equipment Co.
Wyoming	Casper	General Machinery Co.
		Casper Supply Co.

SCREEN EQUIPMENT CO., INC.
1754 Walden Avenue
Buffalo 25, New York

PRODUCTS: Vibrating Screen.

DISTRIBUTORS

California	San Francisco	Cheney Machinery Sales & Parts Service
Colorado	Denver	Western Machinery Co.
Idaho	Bolse	Engineering Sales Service, Inc.
New Mexico	(Salt Lake)	National Equipment Company
Nevada	San Francisco	Cheney Machinery Sales & Parts Service
Oregon	Portland	Balzer Machinery Company
Utah	Salt Lake City	National Equipment Co.
Washington	Spokane	Western Machinery Co.
Wyoming	(")	" " "

SEAMAN MOTORS, INC.
305 North 25th Street
Milwaukee 3, Wisconsin

PRODUCTS: Mixers and Pulverizers; Soil Stabilization.

DISTRICT REPRESENTATIVES

Arizona	Mesa	508 N. Robson Street
California	San Mateo	606 S. El Camino Real

DISTRIBUTORS

Arizona	Mesa	Lyle E. Trimble, Inc.
California	Bakersfield	Lawless Brothers
	Fresno	Pearless Tractor & Equipment Co.
	Los Angeles	Brown-Bevis Industrial Equipment Co.
	N.Sacramento	Moore Equipment Co.
	Salinas	Farmers Mercantile Co.
	San Francisco	Western Traction Co.
	Stockton	Moore Equipment Co.
Colorado	Denver	Liberty Trucks & Parts Co.
Idaho	Pocatello	Western Machinery Co.
Montana	Billings	Industrial Equipment Co.
	Great Falls	Normont Equipment Co.
	Kellogg	Treasure State Equipment Co.
Nevada	Reno	Moore Equipment Co.
New Mexico	Albuquerque	Contractors Equipment & Supply Co.
Utah	Salt Lake City	Western Machinery Co.
Washington	Seattle	Jack Sahlberg Equipment Co.
Wyoming	Casper	Studer Tractor & Equipment Co.

SELMA TRAILER & MANUFACTURING CO.
3111 Highway 99
Selma, California

PRODUCTS: Trailers - Automotive and Agricultural, to 5 ton capacity; Construction Trailers for portable toolsheds and scaffolds; Trap Wagons; Trailers for hauling cement forms, steel water tanks and equipment; "Pallets on Wheels".

SHAWNEE MANUFACTURING CO., INC.
1947 N. Topeka
Topeka, Kansas

PRODUCTS: Shawnees: Hydro-Clam Excavators; Bull Dozers; Angle Dozers; Rear Blades; Backhoes; Scout Backhoes (Hydraulic).

SHUNK MANUFACTURING COMPANY
1460 Auto Avenue
Bucyrus, Ohio

PRODUCTS: Grader, Snow Plow, Sawtooth (serrated), Bulldozer and Scraper Blade Cutting Edges for all makes of road construction and maintenance equipment.

DISTRIBUTORS

California	Berkeley	American Supply Co.
Colorado	Denver	Ray Carson Machinery Co.
Idaho	Boise	Feez, Ghyb Machinery Co.
Montana	Butte	Hall-Perry Machinery Co.
New Mexico	Albuquerque	Contractors Equipment & Supply Co.
Oregon	Portland	Fendoughy Machinery Co.
Utah	Salt Lake City	Rasmussen Equipment & Supply Co.
Washington	Spokane	Tri-State Equipment Co.
Wyoming	Cheyenne	Wortham Machinery Co.

THE SILENT GLOW OIL BURNER CORP.
850 Windsor Street
Hartford 5, Connecticut

PRODUCTS: Portable Forced Air and Radiant Heaters.

SIMPLICITY ENGINEERING CO.
Durand
Michigan

PRODUCTS: Gyrating Screens; Horizontal Type Screens; Simpli-Flo Two-Bearing Screens; Scalpers; Grizzlies; Dewatering Wheels; Oscillating Type Feeders and Conveyors.

DISTRIBUTORS

Arizona	Phoenix	Arizona Equipment Sales, Inc.
	Prescott	Arizona Mining Supply Corp.
California	Los Angeles	Brown-Bevis Industrial Equipment Co.
	San Francisco	Standard Machinery Co.
Colorado	Denver	Patten Engineering Co.
Idaho	Pocatello	Rocky Mountain Machinery Co.
Montana	Billings	Industrial Equipment Co.
	Kalispell	Treasure State Equipment Co.
New Mexico	Albuquerque	" " "
Oregon	Portland	Harry Cornelius Co.
Utah	Salt Lake City	Columbia Equipment Co.
Washington	Seattle	Rocky Mountain Machinery Co.
	Spokane	Columbia Equipment Co.
		Modern Machinery Co.

SKAGIT STEEL & IRON WORKS
Sedro-Woolley
Washington

PRODUCTS: General Utility Hoists, Winches, Windlasses and Derricks.

SKIL CORPORATION
5033 Elston Avenue
Chicago 30, Illinois

PRODUCTS: Portable Electric & Pneumatic Tools; Saws; Drills; Sanders; Planes; Drivers & Nut Runners; Grinders; Hammers; Shears.

WESTERN FACTORY BRANCHES

California	Los Angeles	Branch Manager	Paul Jones
	San Francisco	" " "	Herman Pflug
Colorado	Denver	" " "	J. Edward Walwood
Oregon	Portland	" " "	Bart Macomber
Washington	Seattle	" " "	Hank Linder
	Spokane	" " "	Byron Hoffman

SMITH ENGINEERING WORKS
532 E. Capitol Drive, P.O.Box 723
Milwaukee 12, Wisconsin

PRODUCTS: Telsmith Gyrotary Breakers; Jaw Crushers; Gyrosphere Crushers; Intercone Crushers; Roll Crushers; Pulstors; Vibro-King Screens; Rotary Grizzlies; Hercules & Standard Rotary Screens; Super-Scrubbers; Screw Rewashers; Sand Classifiers; Sand Tanks; Sand Drags; Feeders; Apron Feeders; Elevators and Portable Crushing and Screening Plants.

DISTRICT MANAGERS

California	Los Angeles	816 W. 5th St.	R.S. Bailey
Oregon	Portland	1631 NW Thurman	J.R. Smith

DISTRIBUTORS

Arizona	Phoenix	Lee Redman Equipment Co.
California	Los Angeles	Robert S. Bailey
	San Francisco	Mines Engineering & Equipment Co.
Colorado	Denver	Constructors Equipment Co.
Idaho	Bolse	The Starline Equipment Co.
Nevada	(San Francisco)	Mines Engineering & Equipment Co.
	(Salt Lake)	Foulger Equipment Co.
Montana	Billings	Weststate Machinery Co.
	Helena	Caird Engineering Works
New Mexico	Albuquerque	Contractors' Equipment Co.
Oregon	Portland	Clyde Equipment Co.
Utah	Salt Lake City	Foulger Equipment Co.
Washington	Seattle	Clyde Equipment Co.
	Spokane	General Machinery Co.

IF YOU WANT TO —

- Sell, rent, lease or buy used equipment
- Fill or get a good job
- Advertise an auction
- Offer or obtain some special service

THEN it is to your advantage to use
THE CLASSIFIED SECTION OF WESTERN CONSTRUCTION

**C. I. T. specializes in financing equipment
for Distributors and Contractors**

S. MORGAN SMITH COMPANY
Box 712
York, Pennsylvania

PRODUCTS: Hydraulic Turbines; Rotovolutes; Bell Valves; Butterfly Valves; Howell-Bunger Valves for free discharge; Leonard Trash Rakes; Gates and Gate Hoists; Adjustable Blade Axial Flow Pumps.

DISTRICT OFFICE

California San Francisco 68 Post St. PH: GA 1-5582
Western District Manager-General Products Div-Harry A. Doell
Western Manager-Industrial & Water Works Valves-J. H. Boileau

SALES REPRESENTATIVES

California Los Angeles Water Works Supply Co.
" " W.J. Beckett Co.
San Francisco Trident Engineering Co.
" " Water Works Supply Co.
Oregon Portland E.A. Finkbeiner Co.
Washington Seattle Instrument Sales Co.

THE T.L. SMITH COMPANY
2835 N. 32nd Street
Milwaukee 10, Wisconsin

PRODUCTS: Stationary Tilting and Nontilting Concrete Mixers; Portable Concrete Mixers; Truck Mixers and Agitators.

DISTRIBUTORS

Arizona Phoenix Equipment Sales Company
California Los Angeles Essick Manufacturing Co.
San Diego Southern Equipment & Supply Co.
Oakland The Brose Company
Colorado Denver Constructors Equipment Co., Inc.
Idaho Boise Western Equipment Co.
Montana Helena Montana Powder & Equipment Co.
New Mexico Albuquerque R.L. Harrison Co., Inc.
Oregon Portland Clyde Equipment Co.
Utah Salt Lake City Lund Machinery Co.
Washington Seattle Clyde Equipment Co.
Spokane General Machinery Co.
Wyoming Casper Studer Tractor & Equipment Co.

SOUTHWEST WELDING & MANUFACTURING CO.
Alhambra
California

PRODUCTS: Scrapers; Rippers; Sheepfoot Rollers; Bottom-dump Wagons; Compaction Rollers; Sprinkler Tanks.

SPEARS-WELLS MACHINERY CO.
1832 W. 9th St.
Oakland 20, California

PRODUCTS: Road Oil Distributors; Refiners; Heater Planers; Screenings and Aggregate Spreaders; Brooms; Sweepers; Broom Winders; Patchers; Windrow Sizers; Water Tanks and Sprinklers; Specialized Equipment.

DISTRIBUTORS

California Los Angeles Crook Co.
Oakland Spears-Wells Machinery Co.
Nevada Reno Sierra Machinery Co.
Oregon Portland Cramer Machinery Co.
Utah Salt Lake City Arnold Machinery Co.

STANDARD STEEL CORPORATION
5001 South Boyle Avenue
Los Angeles 58, California

PRODUCTS: Portable and Semi-Portable Asphalt Plants and Accessories; Subgraders; Cement and Aggregate Batching Plants.

DISTRIBUTORS

Arizona Phoenix Western Machinery Co.
Colorado Denver Paris-Moritz Equipment Co.
New Mexico Albuquerque N.C. Ribble Co.
Oregon Portland Contractors Equipment Corp.
Utah Salt Lake City The Long Co.
Washington Seattle Western Tractor & Equipment Co.

IF YOU WANT TO—

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- Advertise an auction
- Offer or obtain some special service

THEN it is to your advantage to use

THE CLASSIFIED SECTION OF WESTERN CONSTRUCTION

STANDARD STEEL WORKS
16th & Howell Streets
North Kansas City 10, Missouri

PRODUCTS: Asphalt Pressure Distributors; Maintenance Distributors; Tar Kettles; Road Brooms; Gravel Spreaders; Street Flushers; Asphalt Supply Tanks; Asphalt Tools.

DISTRIBUTORS

Arizona	Phoenix	State Tractor & Equipment Co.
California	El Monte	Bronson Equipment Co.
	San Francisco	Western Tradition Co.
Colorado	Denver	McKelvy Machinery Co.
Idaho	Bolse	Engineering Sales & Service, Inc.
Montana	Billings	Western Construction Equipment Co.
Nevada	Reno	C.D. Roeder Equipment Co.
New Mexico	Albuquerque	R.L. Harrison Co.
Oregon	Portland	Columbia Equipment Co.
Utah	Salt Lake City	Foulard Equipment Co.
Washington	Seattle	Columbia Equipment Co.
Wyoming	Cheyenne	Kereml Tractor & Equipment Co.

STEPHEN'S-ADAMSON MFG. COMPANY
2227 East 37th Street
Los Angeles 58, California

PRODUCTS: Car Pullers; Conveyors; Crushers; Crushing Plants; Elevators; Feeders; Gates; Hand Winches; Hoists; Loaders; Mixers; Power Plants; Screens; Shovels; Transmissions; Vibrators; Vibratory Screens; Washing Plants; Winches.

FACTORY BRANCHES

California	San Francisco	Manager	R.J. Cooper, Sr.
Oregon	Portland	"	P.R. Hines
	Salt Lake City	"	Rav Nelson
Washington	Seattle	"	Don A. Lyons

STERLING DIVISION

The White Motor Company
842 E. 79th Street
Cleveland 1, Ohio

PRODUCTS: Sterling Motor Trucks, Gasoline and Diesel.

FACTORY BRANCHES

California	San Francisco	Manager	H.P. Strother
	Los Angeles	"	Jon A. Fleener
Colorado	Denver	"	R.W. Cochran
Oregon	Portland	"	H.D. Collins

PACIFIC COAST REGIONAL OFFICE

California San Francisco 590 Brannen St. W.D. Patterson

DISTRIBUTORS AND DEALERS

Arizona	Kingman	Williston & Ireland
	Phoenix	Truck Equipment Co.
California	Bakersfield	Southern Garage
	Burbank	George Cooper Co.
	El Centro	J.R. Townsend Co., Inc.
	Eureka	Bernie Anderson
	Fresno	Fresno Trailer Co.
	Long Beach	Joe Gill Motor Co.
	Napa	Regalia Machine Works
	Oakdale	P.E. Van Pelt, Inc.
	Oakland	White Truck Sales
	Ontario	Cochren & Nichols, Inc.
	Petaluma	John L. Boltano
	Redding	William A. Bystle
	Riverside	Briggs & Elliot
	Sacramento	White Truck & Equipment Co.
	Salinas	Hanson Auto Company
	San Diego	J.R. Townsend Co., Inc.
	San Jose	C & L Motor Co.
	Santa Barbara	The Roger Co.
	Santa Rosa	The Miller Motor Co.
	Stockton	Garvey Truck Service
	Ukiah	Chase's Garage
	Woodland	Ochoa Brothers
Colorado	Durango	La Plata Repair Shop
	Grand Junction	W.R. Hall Sales & Service
Idaho	Lewiston	Henderson Motors
	Robert	Jackson Auto Service
Montana	Billings	Billing's White Truck Co.
	Great Falls	Terminal Service Co.
	Helena	Frontier Motors, Inc.
	Kalispell	Kalispell Service Co.
	Lewiston	Central Motor Sales
	Miles City	Walters Repair Shop
	Missoula	Taber White Truck Co.
	Wolf Point	Taylor Motor Co.
Nevada	Reno	Dennison Tractor & Supply Co.
New Mexico	Albuquerque	Inland White Truck Co.
	Carlsbad	H.T. Page
	Hobbs	Siler White Truck Co.
	Eugene	Gunderson Bros. Engineering Corp.
	Albany	Oregon Truck Sales, Inc.
	Klamath Falls	West-Hitchcock Corp.
	Medford	Wilham Parts & Equipment Co.
Utah	Cedar City	Jones-Crawford Motor Co.
	Logan	Transport Motor Co., Inc.
	Salt Lake City	Lindner & Wood White Motor Sales

Continued on next page

C. I. T. CORPORATION

660 Market Street, San Francisco
416 West 8th Street, Los Angeles
Equitable Building, Portland

WESTERN CONSTRUCTION HANDBOOK

MANUFACTURERS' SECTION

STERLING DIVISION The White Motor Company (Continued)

Washington	Aberdeen	Olympic Motors
	Raymond	Ed Federow Sales & Service
	Seattle	Fageol Motors, Inc.
	Spokane	Jones-White Truck Co.
	Tacoma	Tacoma White Trucks, Inc.
	Vancouver	McCoy Auto Co.
Wyoming	Casper	Century White Truck Co., Inc.
	Canyon	Diamond Horseshoe
	Newcastle	Newcastle Equipment Co.
	Worland	H & S Motor Co.

STERLING MACHINERY COMPANY 1950 Santa Fe Avenue Los Angeles 21, California

PRODUCTS: PUMPS; Centrifugal, Diaphragm, Power and Sump.

DISTRIBUTORS

Arizona	Phoenix	Pratt-Gilbert Hardware Co.
	Tucson	R.Ronsfeldt Hardware Co.
	Tuma	Hartnett & Braden Tractor Co.
California	Bakersfield	Janco Pump & Engineering Co.
	Los Angeles	American Pump Co.
	"	Peerless Pump Div., Food Machy & Chem.
	Oakland	Pacific Pumping Co.
	San Francisco	Charles E. Love Co.
Colorado	Denver	H.W. Moore Equipment Co.
Idaho	Boise	Boise Implement Co.
	Jah-Falls	Parlinson Tractor Co.
Montana	Billings	Billings Pipe & Supply
	Missoula	Westmont Tractor & Equipment Co.
New Mexico	Albuquerque	United Supply & Manufacturing Co.
	El Paso	United Supply & Manufacturing Co.
	"	"
Oregon	Portland	Pacific Pumping Co.
Utah	Salt Lake City	Pump Pipe & Power Co.
Washington	Seattle	Nickerson Pump & Machinery Co.
	"	Glen Carrington & Co.
	"	Cascade Machinery Co.
	"	Modern Machinery Co.
	"	Pacific Hoist & Derrick Co.
Wyoming	Spokane	Modern Machinery Co., Inc.
	Sheridan	Sheridan Iron Works, Inc.

STOW MANUFACTURING CO. 443 State Street Binghamton, New York

PRODUCTS: Concrete Vibrators; Concrete Vibrating Screens; Concrete Vibrating Screen Packages; Rotary Trowels; Portable Concrete Grinding Machines & Accessories; Flexible Shafts; Flexible Shaft Power Take-Off Drives for Dump Trailers.

REGIONAL REPRESENTATIVES

California	Los Angeles	230 E. Anaheim Blvd.	Walter Humes
	San Francisco	445 Bryant St.	A.C. Cape
Oregon	Portland	35 SW First Ave.	B.Rutherford
Washington	Seattle	1954 First Ave. So.	B.Rutherford

DISTRIBUTORS

Arizona	Phoenix	Neil B. McGinnis Co.
California	Los Angeles	Brown-Revis Industrial Equipment Co.
	San Francisco	Trojan Tool Co.
Colorado	Denver	H.W. Moore Equipment Co.
Idaho	Idaho Falls	Pioneer Machinery Co.
	Pocatello	Flaherty Equipment Co.
Montana	Billings	Industrial Equipment Co.
	Butte	Hall-Perry Machinery Co.
	Great Falls	Carl Welsman & Sons
	Kalispell	Treasure State Equipment Co.
New Mexico	Albuquerque	Westmont Tractor & Equipment Co.
Oregon	Portland	J.D. Coggins Co.
Utah	"	Contractors Equipment Co.
Washington	Salt Lake City	Andrews & Andrews Equipment Co.
	"	J.T. Holland Co.
	"	Kimball Equipment Co.
	"	Star Machinery Co.
	"	Pacific Hoist & Derrick Co.
	Seattle	Construction Equipment Co.
	Spokane	

STRAUB MANUFACTURING CO., INC. 5583 Baldwin Street Oakland 21, California

PRODUCTS: Rock Crushing & Mining Machinery.

DISTRIBUTORS

Arizona	(El Paso)	Mine & Smelter Supply Co.
California	Los Angeles	Garlinghouse Bros.
	Oakland	Straub Manufacturing Co.
Colorado	Denver	Mine & Smelter Supply Co.
Idaho	(Spokane)	Construction Equipment Co.
Nevada	(Oakland)	Straub Manufacturing Co.
New Mexico	(Denver-El Paso)	Mine & Smelter Supply Co.
Oregon	Portland	Contractors Equipment Co.
Utah	Salt Lake City	Lund Machinery Co.
Washington	Seattle	Washington Machinery Co.
	Spokane	Construction Equipment Co.

SUPERIOR CONCRETE ACCESSORIES, INC. 4110 Wrightwood Avenue Chicago 39, Illinois

PRODUCTS: Snap Ties; Cone Fast Coil Ties; She-Bolts; Tilt-up Slab Pick-up Inserts; Reinforcing Bar Chairs and Spacers.

PACIFIC COAST FACTORY

California San Leandro Manager H.G. Ballou

DISTRIBUTORS

Arizona	Phoenix	Building Specialties Supply
California	Los Angeles	Thomas Concrete Accessory Co.
	Sacramento	A.W. Burrows
Idaho	Boise	Western Equipment Co.
	Pocatello	Lumber Dealers Supply Co.
Nevada	Reno	Ready-Mix Concrete Co.
Oregon	Portland	Mercer Steel Co., Inc.
Utah	Salt Lake City	Cobusco Steel Products
Washington	Seattle	Construction Supplies Co.
	Spokane	Concrete Supplies Co.

SUPERIOR-LIDGERWOOD-MUNDY CORP. 1101 John Avenue Superior, Wisconsin

PRODUCTS: Hoisting Machinery; Car Pullers.

DISTRIBUTORS

Arizona	Phoenix	Western Machinery Co.
California	Los Angeles	Brown-Bevis Industrial Equipment Co.
	"	Krogh Pump & Machinery Co.
Colorado	Denver	Western Machinery Co.
Oregon	Portland	Loggers & Contractors Machinery Co.
Utah	Salt Lake City	Western Machinery Co.
Washington	Seattle	Pacific Hoist & Derrick Co.
	Spokane	Western Machinery Co.

SYMONS BROTHERS COMPANY 11551 Hart Street North Hollywood, Calif.

PRODUCTS: Vibrating Screens and Grizzlies.

DISTRIBUTORS

Arizona	Phoenix	Superior Equipment Co.
California	Los Angeles	The Conveyor Company
	"	Edward R. Bacon Co.
Idaho	Boise	Intermountain Equipment Co.
	Pocatello	"
Oregon	Portland	Howard-Cooper Corp.
Utah	Salt Lake City	Cafe Equipment Co.
Washington	Seattle	Howard-Cooper Corp.
	Spokane	Intermountain Equipment Co.

SYMONS CLAMP & MANUFACTURING CO. 4249 Diversey Avenue Chicago 39, Illinois

PRODUCTS: Concrete Forms; Column Clamps; Adjustable Shores; Form Hardware and Ties.

DISTRIBUTORS

Arizona	Phoenix	AAA Building Specialties
Colorado	Denver	Art Jones Co.
Oregon	Portland	Concrete Forms, Inc.
Utah	Salt Lake City	Contractors Equipment & Supply Co.
Washington	Seattle	Concrete Forms, Inc.

TALBERT CONSTRUCTION EQUIPMENT CO. 7950 W. 47th Street Evans, Illinois

PRODUCTS: Removable Gooseneck Low Bed Trailers; Dump Semi-Trailers; Pole Trailers; Tubular Crane Booms.

FACTORY BRANCHES

California	Inglewood	240 W. Ivy Ave.	Wirth Bros. Fabr. Co.
Colorado	Denver	E. 40th at York	Timple Bros.

DISTRIBUTORS

Arizona	Phoenix	Superior Equipment Co.
California	Inglewood	Wirth Bros. Fabricating Co.
Colorado	Denver	Timple Bros.
Montana	"	"
New Mexico	Albuquerque	"
Utah	Salt Lake City	Rocky Mountain Machinery Co.
Washington	Spokane	General Machinery Co.
Wyoming	"	Timple Bros.

**CONSTRUCTION IN THE WEST IS DIFFERENT—
ONLY WESTERN CONSTRUCTION SERVES ITS SPECIAL NEEDS, AND YOURS**

**C. I. T. finances installment sales
of equipment for many Distributors**

TAMPO MANUFACTURING CO.
P.O. Box 2340
San Antonio 6, Texas

PRODUCTS: Pneumatic Tired Rollers, Towed Type and Self-Propelled; Compactors; Tamping Rollers, Sheepfoot; Buckets - Concrete; Road Brooms; Ready-Mix Batching Plants; Bins; Conveyors; Crushing Plants; Gravel Plants; Screening Plants; Storage Bins; Washing Plants.

DISTRIBUTORS

Arizona	Phoenix	Western Machinery Co.
California	Los Angeles	Smith-Booth-Usher Co.
Colorado	San Francisco	Edward R. Bacon Co.
Colorado	Denver	Western Machinery Co.
Idaho	Boise	Intermountain Equipment Co.
Montana	Billings	Industrial Equipment Co.
	Great Falls	Normont Equipment Co.
New Mexico	Kalispell	Treasure State Equipment Co.
New Mexico	Albuquerque	Lively Equipment Co.
Nevada	Reno	Moore Equipment Co.
Oregon	Portland	Howard-Cooper Corp.
Utah	Salt Lake City	Kimball Equipment Co.
Washington	Seattle	Howard-Cooper Corp.
	Spokane	Intermountain Equipment Co.
Wyoming	Casper	Studer Tractor & Equipment Co.

TEMPLETON, KENLY & CO.
16th & Gardner Road
Brookview, Illinois

PRODUCTS: Simplex Jacks-Mechanical and Hydraulic; Lever Jacks-for speed cap and toe liftings; Screw Jacks-for economy; Push and Pull Jacks-for assembly and maintenance; Drop Forged Steel Trench and Timber Braces; Hydraulic Jacks-for easier cap lifting; 3-100 ton capacity Jenny Center-Hole Hydraulic Pullers self-contained operating; and "Remotrol" Hydraulic Pullers with remote controlled Rams and Pumps with models 10 to 600 ton rated capacity; Roll-toe Foot Lift Hydraulic Jacks.

BRANCH OFFICE

California Los Angeles c/o Wm.S.Pine 1635 E.22nd St.

DISTRIBUTORS

Arizona	Phoenix	Arizona Hardware Co.
California	Bakersfield	Pratt Gilbert Hardware Co.
	Emeryville	Hopper Machine Works, Inc.
	Long Beach	Republic Supply Co. of California
Los Angeles		American Wholesale Hardware Co.
	"	California Hardware Co.
	"	Ducommun Metals & Supply Co.
	"	Fornaciar Co.
	"	Oil Well Supply Co.
	"	Republic Supply Co. of California
	"	Union Hardware & Metals Co.
Sacramento		Capital Machine & Welding Works
	"	Thomson Drags Co.
San Diego		Gould Hardware & Machinery Co.
	"	Hudson Corporation
	"	Western Metal Supply Co.
San Francisco		Edward R. Bacon Co.
	"	C.H.Bull Co.
	"	A.J.Glesener Co.
Stockton		Austin Brothers, Inc.
	"	Hickinbotham Bros.
Torrance		National Supply Co. of California
Colorado	Denver	Mine & Smelter Supply Co.
Idaho	Boise	Intermountain Equipment Co.
Montana	Billings	Great Northern Tool & Supply Co.
	"	Carl Weissman & Sons, Inc.
Nevada	Reno	Sierra Machinery Co.
New Mexico	Albuquerque	R.L.Harrison Co., Inc.
	"	J.Korber & Co.
Oregon	Astoria	Fisher Brothers Co.
	Corvallis	Roesser's Hardware Co.
	Portland	Clyde Equipment Co.
	"	J.E.Heseltine & Co.
	"	Nelson Equipment Co.
Utah	Salt Lake City	Mine & Smelter Supply Co.
Washington	Seattle	Glenn Carrington Co.
	"	Campbell Industrial Supply Co.
	"	Clyde Equipment Co.
	"	Seattle Hardware Co.
	"	Star Machinery Co.
Spokane	"	Kilmer & Sons
Tacoma	"	Towne Equipment Co.
Yakima	"	Hunt & Moffet Co.
	"	Yakima Hardware Co.

HYDRAULIC SERVICE STATIONS

California	Los Angeles	Fornaciar Co.
	San Francisco	C.H.Bull Co.
Colorado	Denver	Quinn & McGill Motor Supply Co.
Oregon	Portland	Equipment Service Co.
Utah	Salt Lake City	Wilsons Transport Supply
Washington	Seattle	Universal Repair Shop

THE SHOVEL COMPANY
Lorraine
Ohio

PRODUCTS: Power Shovels; Draglines; Cranes; Hoes, Clamshells.

DISTRIBUTORS

Arizona	Phoenix	Lee Redman Equipment Co.
California	Los Angeles	Electric Tool & Supply Co.
	San Francisco	Coast Equipment Co.
Colorado	Alamosa	McCoy Company
	Denver	" "
	Grand Junction	" "
	Sterling	" "
Idaho	Bolse	Southern Idaho Equipment Sales Co.
	Idaho Falls	" "
	Twin Falls	" "
Montana	Glasgow	Tractor & Equipment Co.
	Great Falls	Central Machinery Co.
	Havre	" "
	Kalispell	Mountain Tractor Co.
	Levinson	Central Machinery Co.
	Miles City	Tractor & Equipment Co.
	Missoula	Mountain Tractor Co.
	Sidney	Tractor & Equipment Co.
Nevada	Reno	General Equipment Co.
New Mexico	Albuquerque	J.D.Coggins Co.
Oregon	Portland	P.J.Crooks & Co., Inc.
Utah	Salt Lake City	H.H.Nielsen
Washington	Seattle	A.H.Cox & Co.
	Spokane	Andrews Equipment Service
	Tacoma	A.H.Cox & Co.
	Wenatchee	" "

THOR POWER TOOL COMPANY
175 N. State Street
Aurora, Illinois

PRODUCTS: Paving Breakers; Rock Drills; Clay Diggers; Trench Diggers; Backfill Tamers; Wagon Drills; Sump Pumps; Cement Hammers; Associated Mining and Contractors' Tools.

FACTORY BRANCHES

California	Los Angeles	Manager	M.J.Laughlin
	San Francisco	"	E.C.O'Connell
Colorado	Denver	"	C.H.Gabriel
	Washington	Seattle	R.J.Horrocks

DISTRIBUTORS

Arizona	Phoenix	Shriver Machinery Co.
	Kingman	N.R.Dunton Mining Mach. Co.
California	Bishop	Black's Machine Shop
	Los Angeles	Smith-Booth-Usher Co.
	"	Mine & Mill Mach. Co., Inc.
	Redding	Gerlinger Steel & Supply Co.
Colorado	San Francisco	Edward R.Bacon Co.
	Denver	Western Machinery Co.
Idaho	Bolse	Western Equipment Co.
	"	The Sawtooth Company
	Couer d'Alene	Gardner Supply Co.
Montana	Butte	Butte Machinery Co.
	Great Falls	Central Machinery Co.
	Helena	Montana Powder & Equipment Co.
	Sidney	Tractor & Equipment Co.
New Mexico	Albuquerque	J.D.Coggins Co.
Oregon	Medford	Cal-Ore Mach. Co., Inc.
	Portland	Nelson Equipment Co.
	"	Feebaugh's Machinery Co.
Utah	Midvale	Utah Bit & Steel Co.
	"	Western Machinery Co.
Washington	Seattle	A.H.Cox & Co.
	"	Yukon Equipment Co.
Wyoming	Casper	Western Machinery Co.
	Cheyenne	Casper Supply Co.
	"	Wortham Machinery Co.

TIMKEN ROLLER BEARING CO., THE
Canton 6
Ohio

PRODUCTS: Tapered Roller Bearings; Removable Rock Bits; Fine Alloy Steel and Seamless Steel Tubing.

BRANCHES

California	Los Angeles	2727 South Flower St.
	San Francisco	1452 Bush Street
	Seattle	305 Ninth Ave. North

TRACKSON COMPANY (A Wholly Owned Subsidiary of
333 S.Chase Ave. Caterpillar Tractor Co.)
Milwaukee, Wisconsin

PRODUCTS: Included with listing under Caterpillar Tractor Co.

DISTRIBUTORS

SAME AS CATERPILLAR DEALERS

C.I.T. CORPORATION

660 Market Street, San Francisco
Equitable Building, Portland
416 West 8th Street, Los Angeles

TRACTOMOTIVE CORPORATION
County Line Road
Deerfield, Illinois

PRODUCTS: Crawler Mounted Shovels (Tractor); Rubber Tired Loaders; Side Booms; Rippers; Shoulder Maintainers; Grader Mounted Loaders; Various Attachments.

DISTRIBUTORS

All Tractomotive products distributed through Allis-Chalmers Manufacturing Co., Industrial tractor dealers.

TRAILMOBILE, INC.

901 Gilman Street

Berkeley 10, California

PRODUCTS: Commercial Trailers; Truck Bodies.

FACTORY BRANCHES

California Los Angeles	1765 E. 46th St.	Wayne Hill
Oakland	640 Hegerberger Rd	Wm.A. Grange
Sacramento	510 N. 12th St.	A.W. Smith
San Francisco	2030 Third St.	Wm.A. Boykin
Utah	Salt Lake City 365 W. 1370 So.	J.W. Reuter

OTHER FACTORY PERSONNEL

California Berkeley	C.L. Hoerner	West Coast Gen.Mgr.
"	Alan Waddell	West Coast Div. SM
"	E.G. Weiss	West Coast Div.
		Plant Mgr.

DISTRIBUTORS

Arizona Phoenix	Kenneth S. Donnelly, Resident Salesman
Oregon Portland	Riddell Tractor & Equipment Co.
Washington Seattle	" " " "
Spokane	Critzer Equipment Co.

PARTS & SERVICE

California San Diego	405-12th Ave.	Kolbeck Auto Works
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TRANSPORT TRAILERS, INC.
1200-34 Twelfth St., S.W.
Cedar Rapids, Iowa

PRODUCTS: Trailers.

DISTRIBUTORS

Arizona Phoenix	Arizona Cedar Rapids Co.
Tucson	Fronstedt Hardware Co.
California Los Angeles	Cook Bros. Equipment Co.
Oakland	The Brose Company
Colorado Denver	H.W. Moore Equipment Co.
Idaho Boise	Western Equipment Co.
Montana Billings	Montana Powder & Equipment Co.
Helena	" " " " "
Nevada Reno	Sierra Machinery Co.
Oregon Portland	Feenauhthy Machinery Co.
Utah Salt Lake City	Arnold Machinery Co.
Wyoming Cheyenne	Keremi Tractor & Equipment Co.

TRAYLER ENGINEERING & MANUFACTURING CO.
10th and Mill Street
Allentown, Pennsylvania

PRODUCTS: Gyratory, Jaw and Reduction Crushers; Crushing Rolls; Rod Mills; Ball Mills; Apron & Grizzly Feeders.

FACTORY BRANCH OFFICE

California San Francisco	Sharon Bldg.	D.J. Kramm, Mgr.
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DISTRIBUTORS

Oregon Portland	Balzer Machinery Co.
Utah Salt Lake City	National Equipment Co.

TRUSCON STEEL DIVISION
Republic Steel Corporation
Youngstown 1, Ohio

PRODUCTS: Steel Windows (all types); Residential Interior Steel Doors; Industrial and Hanger Steel Doors; Metal Lath Products and Accessories; Steel Joists; Steeldeck Roofs; Complete Steel Buildings; Concrete Reinforcing Bars; Stresssteel Tensioning Units; Welded Wire Fabric; Steel Poles and Radio Towers.

WESTERN OFFICES

Arizona Phoenix	221 SE Camelback Rd	R.A. Johnson, Jr., Mgr.
California Los Angeles	5424 Slauson Ave.	N.J. Cavalier, P.C.M.
San Francisco	16 Beale Street	Hill Waller, Sls. Mgr.
Oregon Portland	2139 N. Kerby Ave.	C.W. Anderson, S.M.
Washington Seattle	107 W. Harrison St.	Norman Field, S.M.

WESTERN CONSTRUCTION serves the specialized needs and interests of 13,000 members of the engineering construction industry in the eleven Western states and Alaska.

TUCKER SNO-CAT CORPORATION
P.O. Box 888
Medford, Oregon

PRODUCTS: Sno-Cats; Sno-Kittens; Sno-Trailers.

DISTRIBUTORS

Colorado Denver	The H.W. Moore Equipment Co.
California Los Angeles	Calaver Corp.
San Francisco	The F.W.D. Pacific Co.
Utah Salt Lake City	The Lang Co.
Washington Seattle	Yukon Equipment, Inc.

TWIN DISC CLUTCH COMPANY
1328 Racine Street
Racine, Wisconsin

PRODUCTS: Friction Clutches (Mechanically and Air Actuated); Power Take Offs; Reduction Gears; Fluid Couplings; Hydraulic Torque Converters; HYDRO-SHEAVE DRIVE; HYDRO-WYND DRIVE; Two-Speed Transmissions; Reverse Gears.

FACTORY BRANCHES

California Los Angeles	2950 Leonis Blvd.
Washington Seattle	820 First Avenue, South

DISTRIBUTORS

AUTHORIZED PARTS STATIONS

Arizona Phoenix	Arizona Equipment Sales, Inc.
California Bakersfield	California Truck & Ind. Equip. Co.
San Francisco	Charles W. Carter Co.
Colorado Denver	Industrial Equipment Co., Inc.
Oregon Portland	Hydraulines, Inc.
Utah Salt Lake City	Diesel Electric Service & Supply Co.
Wyoming Casper	Gehring Equipment Co.

AUTHORIZED HYDRAULIC UNIT SERVICE STATIONS

California Los Angeles	Charles W. Carter Co.
Oregon Eugene	Mill-Log Equipment Co.
Washington Seattle	Rowers Machine Co.

AUTHORIZED HYDRO-SHEAVE - HYDRO-WYND DEALERS

Arizona Phoenix	McConkey-Docker Co. Inc.
California Bakersfield	California Truck & Ind. Equip. Co.
San Francisco	Charles W. Carter Co.
" " "	" " "
Huntington Park	Charles A. Fowler Co.
Colorado Denver	Nicholas D'Arcy, Jr.
Oregon Portland	Industrial Equipment Co., Inc.
Washington Seattle	Power Transmission Products
Spokane	Chain Gear, Inc.
	Bitco, Inc.

ULRICH PRODUCTS CORPORATION
Roanoke
Illinois

PRODUCTS: Elevating Graders; Road Wideners; Snow Blowers; Tractor Loaders for D-2 & D-4 Caterpillar Tractors.

DISTRIBUTORS

Same as for Caterpillar Tractor Co.

UNION WIRE ROPE CORP.
21st and Manchester Ave.
Kansas City 26, Missouri

PRODUCTS: Wire Rope; High Carbon Wire and "Tuffy" Slings.

FACTORY BRANCHES

California N. Sacramento	District Manager	D.L. Redford
Colorado Denver	" "	M.B. Riley
Oregon Portland	" "	C.D. Schooley

UNIT CRANE & SHOVEL CORP.
6411 West Burnham Street
Milwaukee 14, Wisconsin

PRODUCTS: Cranes; Shovels; Crawler and Mobile and Truck Mounted.

DISTRICT SALES REPRESENTATIVE

California Sacramento	4440 Cabrillo Way	Herman Combs
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DISTRIBUTORS

Arizona Phoenix	The O.S. Stapley Co.
California Fresno	Moore Equipment Co.
Los Angeles	Brown-Bevils Industrial Equipment Co.
N. Sacramento	Moore Equipment Co.
Oakland	Bay Cities Equipment, Inc.
Redding	Moore Equipment Co.
Stockton	" " "
Colorado Denver	Air Rentals, Inc.
Billings	Seitz Machinery Co., Inc.
Montana Great Falls	" " "
Missoula	Miller Machinery Co.

Continued on next page

C. I. T. specializes in financing equipment for Distributors and Contractors

WESTERN CONSTRUCTION HANDBOOK

MANUFACTURERS' SECTION

UNIT CRANE & SHOVEL CORP. (CONTINUED)

Nevada	Reno	Moore Equipment Co.
Oregon	Albany	Howard-Cooper Corp.
	Central Point	" " "
	Coquille	" " "
	Eugene	" " "
	Newport	" " "
	Port Orford	" " "
	Roseburg	" " "
Utah	Salt Lake City	Rasmussen Equipment & Supply Co.
Washington	Seattle	Howard-Cooper Corp.
	Spokane	Inland Diesel & Machinery Co.

UNIT MANUFACTURING COMPANY

1229 Harmon Street
Minneapolis 3, Minnesota

PRODUCTS: Hydraulic Cylinders; Unit Utility Hoists and "3 In 1" Lifts.

U.S. SPRING & BUMPER COMPANY

Division of Rheem Manufacturing Co.
4951 Alcoa Street
Los Angeles 54, California

PRODUCTS: U.S. Metal Plate Highway Guard Rail.

DISTRIBUTORS

Arizona	Phoenix	Arizona Hardware Co.
California	Oakland	The Highway Hardware Products Co.
Colorado	Denver	Colorado Builders Supply Co.
Idaho	Bolse	Starline Equipment
Montana	(Denver)	Colorado Builders Supply Co.
Nevada	Sparks	Paul Tholl
New Mexico	(Denver)	Colorado Builders Supply Co.
Oregon	Portland	Contractors Equipment Corp.
Utah	Salt Lake City	C.H. Jones Equipment Co.
Washington	Seattle	Jack Sahiberg Equipment Co.
Wyoming	(Denver)	Colorado Builders Supply Co.

UNIVERSAL ENGINEERING CORPORATION

624 C Avenue N.W.
Cedar Rapids, Iowa

PRODUCTS: Portable, Semi-Portable, Stationary Crushing-
Screening-Washing and Loading Equipment for Rock,
Gravel, Sand and Aglime; Ore Crushing and Handling
Equipment; Asphalt Plants.

DISTRICT REPRESENTATIVES

California	N.Hollywood	12147 Huston St.	Claude W. Cadarette
Colorado	Denver	2800 Newport St.	Alex Ainley

DISTRIBUTORS

Arizona	Phoenix	Arizona Equipment Sales, Inc.
California	Fresno	Moore Equipment Co., Inc.
	Los Angeles	Calver Corporation
	Redding	Moore Equipment Co.
	Sacramento	" "
	San Francisco	FWD Pacific Co.
	Stockton	Moore Equipment Co.
Colorado	Denver	Western Machinery Co.
		McKelvy Machinery Co.
Idaho	Bolse	Carl R. Burt Co.
Montana	Helena	Montana Powder & Equipment
Nevada	Reno	Moore Equipment Co.
New Mexico	Albuquerque	J.D. Coogins Co.
Oregon	Portland	Balzer Machinery Co.
Utah	Salt Lake City	Rocky Mountain Machinery Co.
Washington	Seattle	Modern Machinery, Inc.
	Spokane	" "
Wyoming	Cheyenne	Mountain Equipment Co.

UNIVERSAL FORM CLAMP CO.

1238 North Kostner Ave.
Chicago 51, Illinois

PRODUCTS: Uni-Form Panels; Spiroloc Form Ties; Twisting Form
Ties; Form Clamps; Anchoring Devices; Reinforcing
Bar Supports.

FACTORY BRANCHES

California	Los Angeles	Manager	Richard Allen
	San Leandro	Asst. Manager	Norm Turner

DISTRIBUTORS

Arizona	Phoenix	Superior Equipment Co.
Colorado	Denver	K.C. Construction Supply Co.
Oregon	Portland	McCracken-Ripley Co.
Washington	Seattle	Bow Lake Equipment Co.
	Spokane	Construction Equipment Co.

WESTERN CONSTRUCTION EDITORIAL MATERIAL
SERVES ALL THE WEST — IT IS BALANCED GEOGRAPHICALLY
AND JOB-WISE OVER THE ELEVEN WESTERN STATES AND ALASKA

UNIVERSAL MANUFACTURING CORP.

Zelienople

Pennsylvania

PRODUCTS: Ezebilt Steel-Panel Scaffolding and Scaffold-for-Shoring; Ledge-Lock Ladder-Panel Scaffolding; Endlok Pipe-and-Clamp Scaffolding; Sidewalk Bridging; Ledger Brackets; Post-Shores; Jacks and Trestles; American-Tubular Elevator Towers; American-Universal Bleachers.

DISTRIBUTORS

California	Burlingame	Ezebilt Scaffolding Co., American-Universal of California, Inc.
Colorado	Denver	The Universal Company
Utah	Salt Lake City	Salt Lake City Contractors Equipment & Supply Co.
Washington	Seattle	Universal Equipment Co.

UTILITY TRAILER MANUFACTURING CO.

3900 Medford Street
Los Angeles 36, California

PRODUCTS: Trailers; Van; Flats; Lowbeds; Tankers; Tiltbeds; Reel Carriers with Attachments.

DISTRIBUTORS

Arizona	Phoenix	Utility Trailer Sales Co.,
California	Fresno	" " "
	Los Angeles	" " "
	Sacramento	" " "
	San Diego	" " "
	San Francisco	" " "
Oregon	Portland	Utility Trailer Sales & Equipment Co.,
Utah	Salt Lake City	" " "
Washington	Seattle	Utility Trailer & Equipment Co.,
	Spokane	Alloy Manufacturing Co.

VIBER COMPANY

726 South Flower St
Burbank, California

PRODUCTS: Concrete Vibrators—Interchangeable Lines of Internal Vibrators, Electric, Pneumatic and Gasoline Engine Driven; Laboratory Electric; Heavy Duty Electric and Pneumatic; Full Depth Internal Paving; Electric and Pneumatic External.

VIBRO-PLUS PRODUCTS, INC.

54-11 Queens Boulevard

Woodside 77, New York

PRODUCTS: Concrete Vibrators; Vibrating Feeders; Vibratory Soil Compactors.

DISTRIBUTORS

California	Los Angeles	Gridley Equipment Co.,
	Oakland	Bay Cities Equipment Co., Inc.
	San Diego	Hudson Corporation
	Stockton	Moore Equipment Co., Inc.
Colorado	Denver	Air Rentals, Inc.
Nevada	Reno	Pioneer Equipment Co.,
New Mexico	Albuquerque	The Harry Cornelius Co.
Oregon	Portland	Andrews & Andrews Equipment Co.
Utah	Salt Lake City	Rocky Mountain Machinery Co.
Washington	Seattle	Universal Equipment Co.
	Spokane	Blackwell-Coleman Equipment Co., Inc.
Wyoming	Casper	Studer Tractor & Equipment Co.

VICTOR EQUIPMENT COMPANY

844 Folsom Street

San Francisco 7, Calif.

PRODUCTS: Flame Cutting and Welding Equipment, Accessories and Supplies; Hard-Surfacing Rods for all Purposes; Pneumatic Controls; High Pressure Gas Discharging Manifolds; Medical Gas Therapy Equipment; Super-Titan Blasting Nozzles.

FACTORY BRANCHES

California	Fresno	Al Dreith, Jr.	Manager
	Los Angeles	E.O. Williams	Vice President
	" "	Jack Spence	" "
	Oakland	Richard Helmemann	Manager
	Sacramento	Richard Leabagh	" "
	San Diego	Herb Maynard	" "
	Ventura	R.J. Campbell	" "

DISTRIBUTORS

Arizona	Phoenix	Arizona Welding Equipment Co.,
	Tucson	Consolidated Welding Supply Co.
Colorado	Craig	Avco Supply Co.
	Denver	U.S. Welding Works
	Grand Junction	Western Slope Oxygen Co.
	Pueblo	J.F. Damman Supply Co.
	Bolse	The Sawtooth Co.
	Pocatello	Spencer Supply Co.
	Twin Falls	Paul Roberts

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C. I. T. CORPORATION

660 Market Street, San Francisco
Equitable Building, Portland

416 West 8th Street, Los Angeles

VICTOR EQUIPMENT CO. (CONTINUED)

Montana	Billings	General Distributing Co.
	Butte	Butte Machinery Co.
	"	General Distributing Co.
	Great Falls	" " "
	" "	Mike's Welding Supply Co.
Nevada	Poplar	Poplar Supply Co.
	Elko	A-D Machinery Co.
	Fallon	Motor Supply Co.
	Reno	Nevada Rental Sales Co.
New Mexico	Albuquerque	Sierra Oxygen Co.
Oregon	Eugene	Industrial Supply Co.
		Eugene Welders Supply Co.
	Medford	J.E. Hazeltine & Co.
	Portland	Industrial Air Products
Utah	Salt Lake City	J.E. Hazeltine & Co.
	" "	The Galligher Co.
Washington	Kennewick	Industrial Air Products
	Seattle	J.E. Hazeltine & Co.
	" "	Industrial Air Products
	Spokane	Western Oxygen, Inc.
	" "	Gibson Welding Supplies
	Yakima	J.E. Hazeltine & Co.
	" "	Industrial Air Products
Wyoming	Worland	Worland Oxygen Co.

VULCAN IRON WORKS, INC.

327 N. Bell Avenue

Chicago 12, Illinois

PRODUCTS: Steam or Air Operated Pile Hammers; Drop Pile Hammers; Steam or Air Operated Pile Extractors; Pile Driving Accessories.

DISTRIBUTORS

Arizona	(Salt Lake)	The Galligher Co.
California	Los Angeles	Herron, Rickard & McCone Co.
	San Francisco	Coast Equipment Co.
Colorado	Denver	Hendrie & Bolthoff Co.
Idaho	(Salt Lake)	The Galligher Co.
Nevada	(Salt Lake)	" "
New Mexico	Albuquerque	Hendrie & Bolthoff Co.
Oregon	Portland	Balzer Machinery Co.
Utah	Salt Lake City	The Galligher Co.
Washington	Seattle	A.H. Cox & Co.
Wyoming	(Denver)	Hendrie & Bolthoff Co.

WALTER MOTOR TRUCK CO.

1001 Irving Avenue

Ridgewood, L.I. 27, New York

PRODUCTS: Four Wheel Drive Trucks; Wrecker and Utility Trucks; Snow Plow Trucks; Tractor Trucks; Dump Trucks.

DISTRIBUTORS

Arizona	Phoenix	Western Machinery Co.
California	Los Angeles	Shaw Sales & Service Co.
	San Francisco	Edward R. Bacon Co.
Colorado	Denver	Western Machinery Co.
Idaho	Boise	Southern Idaho Equipment Co.
Montana	Butte	Roberts Truck & Parts Supply
Oregon	Portland	Cramer Machinery Co.
Utah	Salt Lake City	Lund Machinery Co.
Washington	Spokane	Western Machinery Co.

WARSOP POWER TOOLS, INC.

P.O. Box 168

Danbury, Connecticut

PRODUCTS: Portable Gasoline Breakers; Portable Rock Drills and Gasoline Operated Rammers.

WAUKESHA MOTOR COMPANY

1001 West St. Paul Avenue

Waukesha, Wisconsin

PRODUCTS: Gas, Gasoline, and Diesel Engines and Power Units.

FACTORY BRANCH

California	Los Angeles	Manager	A.G. Mulkey
DISTRIBUTORS			
Arizona	Phoenix	Waukesha SW Engine-Parts Mfg. Co.	
California	Emeryville	Waukesha Pacific Equipment Co.	
California	Eureka	B & S Supply Co.	
	Los Angeles	Fralzer Wright Co.	
Colorado	Denver	Waukesha Engine & Equipment Co.	
Idaho	Boise	D.N. Nordling Parts Co.	
Montana	Billings	Hines-Bearings & Ind. Supply Co. (Sub-Div.)	
New Mexico	Hobbs	Waukesha Sales & Service, Inc.	
Oregon	Farmington	Waukesha Engine & Equipment Co.	
Oregon	Portland	Truck & Industrial Equipment Co.	
Utah	Salt Lake City	IV Koelsel and Love, Inc.	
Washington	Seattle	Northwest Industrial Equipment Co.	
Wyoming	Casper	Waukesha Engine & Equipment Co.	

WAUSAU IRON WORKS

Wausau

Wisconsin

PRODUCTS: Snow Plows for Trucks, Graders; Wheel Tractors; JARP Pump-Hi-Pressure Electric Hydraulic Power Unit to Replace Hand Pump Applications; Material Spreaders; Hydra Clutch Pumps.

DISTRIBUTORS

Arizona	Phoenix	Arizona-Cedar Rapids Co.
California	Los Angeles	Calaver Corporation
	San Francisco	F.W.D. Pacific Co.
Colorado	Denver	Liberty Truck & Parts Co.
Idaho	Bolse	Feeneyault Machinery Co.
Montana	Helena	Southern Idaho Equipment Co.
Nevada	Reno	Stiebeck Equipment Co.
New Mexico	Albuquerque	General Equipment Co.
	" "	J.D. Coggins Co.
	Los Cruces	N.C. Ribble Co.
Oregon	Portland	The Myers Company
Washington	Seattle	Feeneyault Machinery Co.
	Spokane	" " "
Wyoming	Casper	Studer Tractor & Equipment Co.

WAYER IMPACTOR, INC.

168 Hosack Street

Columbus 7, Ohio

PRODUCTS: Model D-25 Impactor.

DISTRIBUTORS

Arizona	Phoenix	Western Machinery Co.
California	Pasadena	Beedee, Inc.
Nevada	Reno	Sierra Machinery Co.
Texas	El Paso	Equipment Supply Co.

WAYNE MANUFACTURING CO.

1201 E. Lexington

Pomona, California

PRODUCTS: Motor Street Sweepers; Mechanical Leaf-Loaders.

DISTRIBUTORS

Arizona	Phoenix	State Tractor & Equipment Co.
California	Los Angeles	Brown-Reeves Industrial Equipment Co.
	San Francisco	Western Traction Co.
Colorado	Denver	Ray Corral Machinery Co.
Idaho	Boise	Feeneyault Machinery Co.
Montana	Billings	Industrial Equipment Co.
	Great Falls	N.Mont Equipment Co.
	Kalispell	Treasure State Equipment Co.
Nevada	Reno	General Equipment Co.
New Mexico	Albuquerque	J.D. Coggins Co.
Oregon	Portland	Feeneyault Machinery Co.
Utah	Salt Lake City	Rocky Mountain Machinery Co.
Washington	Seattle	Feeneyault Machinery Co.
	Spokane	" " "
Wyoming	Casper	Studer Tractor Co.

WAYNE SHOVEL & CRANE DIVISION

AMERICAN STEEL DREDGE CO., INC.

2511 Taylor Street

Fort Wayne, Indiana

PRODUCTS: Cranes; Shovels; Draglines; Dredges; Land Clearing Equipment.

DISTRICT REPRESENTATIVE

California Los Angeles 437 Douglas Bldg. Con Hjalmarsen
257 So. Spring St.

DISTRIBUTORS

Arizona	El Paso	E.D. Flournoy
California	El Monte	Bronson Equipment Co.
	Oakland	C.H. Grant Co.
Colorado	Denver	Constructors Equipment Co., Inc.
Idaho	(Spokane)	Blackwell-Coleman Equipment Co.
Nevada	(Oakland)	C.H. Grant Co.
New Mexico	(El Paso)	E.D. Flournoy
Oregon	Portland	Balzer Machinery Co.
Washington	Seattle	Air-Mac, Inc. of Washington
	Spokane	Blackwell-Coleman Equipment Co.
Wyoming	(Denver)	Constructors Equipment Co., Inc.

Contractors, project and design engineers, and construction superintendents are among the highly-select group throughout the West which makes up the readers of WESTERN CONSTRUCTION. You can tell this group about what you have to sell in the pages of WESTERN CONSTRUCTION, the one publication that covers ALL the West.

C. I. T. finances installment sales of equipment for many Distributors

WELLMAN ENGINEERING CO.
Wellman Williams Bucket Division
7000 Central Avenue
Cleveland 4, Ohio

PRODUCTS: Buckets, Clamshell and Dragline; Grapples, Wood and Stone.

DISTRIBUTORS

Arizona	Phoenix	Lee Redman Equipment Co.
California	Los Angeles	Electric Tool & Supply Co.
	San Francisco	Coast Equipment Co.
Colorado	Denver	McCoy Company
Idaho	Bolse	Western Equipment Co.
Montana	Missoula	Westmont Tractor & Equipment Co.
New Mexico	Sidney	Tractor & Equipment Co.
Oregon	Albuquerque	R.L. Herrison Co.
Utah	Portland	P.L. Crooks Co., Inc.
Washington	Salt Lake City	Lang Company
	Seattle	Clyde Equipment Co.
	Spokane	Construction Equipment Co.

THE S.K.WELLMAN COMPANY
200 Ebert Road
Bedford, Ohio

PRODUCTS: Velvetouch All-Metal Clutch Plates, Facings and Brake Linings for Automotive, Tractor and Industrial Equipment.

FACTORY BRANCHES

California	San Francisco	424 Bryant St.	J.S. Mitchell, Mar.
	Los Angeles	240 W. 21st St.	F.L. Moraen, Mar.
Oregon	Portland	636 NW 16th Ave.	

WESTERN DISTRICT MANAGER

California Los Angeles 240 W. 21st St. G.O. Abell

WEST COAST MACHINERY, INC.
1801 E. Charter Way
Stockton 6, California

PRODUCTS: Road and Farm Machinery; Lift Trucks; Orchard Ridders; Disc Harrows; Bulldozers; Tilt-Graders; Angleloaders; Power Control Units; Electric Car (Golf, Pickup, Trailer).

DISTRIBUTORS

California	Fresno	Moore Equipment Co., Inc.
	N. Sacramento	"
	Oakland	Bay Cities Equipment, Inc.
	Redding	Moore Equipment Co., Inc.
	Stockton	"
Montana	Kalispell	Mountain Tractor Co.
	"	"
Nevada	Reno	Moore Equipment Co., Inc.
Washington	Seattle	Star Machinery Co.

WHITE MANUFACTURING COMPANY
1227 West Beardsley Avenue
Elkhart, Indiana

PRODUCTS: Asphalt Plants; Asphalt Heating Kettles; Aggregate Dryers; Concrete Vibrators; Concrete Grinders; Concrete Trowlers; Kerosene Torches and Heaters.

DISTRIBUTORS

Arizona	Phoenix	Equipment Sales Co.
California	Los Angeles	The Gridley Equipment Co.
	Oakland	The Rose Co.
Colorado	Grand Junction	S. & M. Supply Co.
Idaho	Bolse	Intermountain Equipment Co.
Montana	Billings	Industrial Equipment Co.
	Great Falls	Normont Equipment Co.
Nevada	Reno	Sanford Tractor & Equipment Co.
New Mexico	Albuquerque	Contractors Equipment Co.
Oregon	Eugene	Howard-Cooper Corp.
Utah	Portland	"
	Salt Lake City	The Lang Co.
Washington	Seattle	Howard-Cooper Corp.
	Spokane	Intermountain Equipment Co.

WESTERN CONSTRUCTION
COVERS THE ENTIRE WEST

And it is the one publication that does

Western Construction is read by more contractors and engineers, the men who buy equipment for Western jobs, than any other construction magazine. Why not present your sales message in this magazine? Western contractors work all over the West as a region, disregarding state lines, and Western Construction follows them wherever they go. What makes the West different from any other section of the country? Western job sites are often remote and hard to get to, projects are larger and more complex, and contractors must save on labor costs. Therefore, the number of pieces of equipment used on each job is higher in the West. If your equipment saves labor, you can sell it in the West.

WHITE MANUFACTURING COMPANY
2249 Casitas Avenue
Los Angeles 39, California

PRODUCTS: Concrete Construction Equipment.

DISTRIBUTORS

Arizona	Phoenix	Baker Thomas Lime & Cement Co.
California	El Centro	W-K Equipment Co.
	Los Angeles	Brown-Bevis Industrial Equipment Co.
	"	Electric Tool & Supply Co.
	"	Essick Machinery Co.
	"	Garlinghouse Bros.
	"	Gridley Equipment Co.
	"	Smith-Booth-Usher Co.
	Porterville	Porterville Farm Implement Co.
	San Bernardino	W-K Equipment Co.
	San Francisco	Edward R. Bacon Co.
	"	W.J. Burke Co.
	San Diego	Southern Equipment & Supply Co.
	Santa Ana	Blystone Equipment Co.
Colorado	Denver	Western Machinery Co.
Idaho	Boise	Gate City Steel
	Idaho Falls	Parkinson Tractor Co.
	Pocatello	Western Machinery Co.
Montana	Billings	Midland Implement Co.
	Butte	Hill-Perry Machinery Co.
	Great Falls	" " "
	Helena	Steffek Equipment Co.
Nevada	Las Vegas	Inland Service & Supply Co.
	Reno	Senford Tractor & Equipment Co.
	"	Sierra Machinery Co.
New Mexico	Albuquerque	Contractors Equipment & Supply Co.
Oregon	Portland	Andrews & Andrews
Utah	Salt Lake City	C.H. Jones Equipment Co.
Washington	Seattle	Star Machinery Co.
	Spokane	" " "
Wyoming	Casper	Keremi Tractor & Equipment Co.
	Cheyenne	" " "

THE WHITE MOTOR COMPANY
842 E. 79th Street
Cleveland 1, Ohio

PRODUCTS: White Motor Trucks and Busses - Gasoline and Diesel; White Industrial Engines.

FACTORY BRANCHES

California	Los Angeles	Branch Manager	L.A. Fleener
	San Francisco	"	H.P. Strother
Colorado	Denver	"	R.W. Cochran
Oregon	Portland	"	H.D. Collins

PACIFIC COAST REGIONAL OFFICE

California San Francisco Regional Manager W.D. Patterson

DISTRIBUTORS

Arizona	Kingman	Milliston & Ireland
	Phoenix	Truck Equipment Co.
	Willcox	86 Truck Stop
California	Bakersfield	Southern Garage
	Burbank	George Cooper Co.
	Eureka	De Bon Motor Co.
	Fresno	Fresno Trailer Co.
	Long Beach	Joe Gill Motor Co.
	Modesto	Anderson's Truck Terminal
	Merced	Redding Machine Works
	Oakdale	P.E. Van Pelt, Inc.
	Oakland	White Truck Sales
	Ontario	Cochrane & Nichols, Inc.
	Peluloma	John L. Bolton
	Redding	William & Boyle
	Riverside	Briggs & Elliott
	Sacramento	White Truck & Equipment Co.
	San Diego	J.R. Townsend Co., Inc.
	San Jose	White Truck Sales
	Santa Rosa	The Miller Motor Co.
	Stockton	Carver Truck Service
	Woodland	Ochoa Bros.
Colorado	Durango	South Western Motor Co.
	Grand Junction	W.R. Hall Sales & Service
Idaho	Bolse	Bolke White Truck & Equipment Co.
	Lewiston	Henderson Motors
	Roberts	Jackson Auto Service
	Billings	Billings White Truck
	Great Falls	Terminal Sales, Inc.
	Helena	Frontier Motors, Inc.
	Kalispell	Kalispell Service Co.
	Lewiston	Central Motor Sales
	Miles City	Walter Repair Shop
	Missoula	Taber White Truck Co.
	Wolf Point	Taylor Motor Company
Nevada	Reno	Sierra Truck & Trailer Co.
New Mexico	Albuquerque	Inland White Truck Co., Inc.
	Carsbad	H.T. Page
Oregon	Albany	Oregon Truck Sales, Inc.
	Coos Bay	Harbor Diesel & Supply Co.
	Eugene	Gunderson Bros. Engineering Corp.
	Medford	Wilham Parts & Equipment Co.
Utah	Ceder City	Jones Crawford Motor Co.
	Logen	Transport Motor Co., Inc.
	Salt Lake City	Lindner & Wood White Motor Sales
	Reymond	Ed Pederson Sales & Service
	Seattle	Fageol Motors, Inc.

**

Continued on next page

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Equitable Building, Portland

THE WHITE MOTOR COMPANY (CONTINUED)

Washington	Spokane	Jones White Truck Co.
	Tacoma	Tacoma White Trucks, Inc.
	Vancouver	McCoy Auto Company
	Yakima	Du Bois White Trucks Co.
Wyoming	Casper	Century White Truck Co., Inc.
	Laramie	Diamond Horseshoe
	Newcastle	Newcastle Equipment Co.
	Worland	H. & S. Motor Company

WICKWIRE SPENCER STEEL DIVISION

Palmer
Massachusetts

SEE LISTING OF COLORADO FUEL & IRON CORPORATION

WINTER-WEISS CO.
2201 Blake Street
Denver 2, Colorado

PRODUCTS: Low Bed Machinery Trailers; Contractors Bodies; Truck Mounted Rotary Drilling Rigs for Blast Holes; Rock Removal, etc.

FACTORY BRANCH

New Mexico Albuquerque Manager Morris G. Clark

WISCONSIN MOTOR CORPORATION
1910 S. 53rd Street
Milwaukee 46, Wisconsin

PRODUCTS: Air-Cooled Engines.

DISTRIBUTORS

Arizona	Phoenix	Prett-Gilbert Hardware Co.
California	Emeryville	E.E. Richter & Son
	Los Angeles	Continental Sales & Service Co.
Colorado	Denver	Central Equipment Co.
Idaho	Idaho Falls (Portland)	Arnold Machinery Co., Inc.
	(Spokane)	Anderson Machinery
Montana	Billings	Star Machinery Co.
Nevada	(Emeryville)	Midland Implement Co., Inc.
	(Los Angeles)	E.E. Richter & Son
	(Salt Lake)	Continental Sales & Service Co.
New Mexico	Albuquerque	Arnold Machinery Co., Inc.
Oregon	Portland	Anderson Machinery
Utah	Salt Lake City	Arnold Machinery Co., Inc.
Washington	Seattle	Star Machinery Co.
	Spokane	
	(Portland)	Anderson Machinery
Wyoming	(Billings)	Midland Implement Co., Inc.
	(Denver)	Central Equipment Co.
	(Salt Lake)	Arnold Machinery Co., Inc.

WOOLDRIDGE MANUFACTURING CO.
Hendy Avenue
Sunnyvale, California

PRODUCTS: Self-propelled Scrapers; Tractor-drawn Scrapers; Hauling Wagons; Power Control Units; Rippers; Bulldozers; Angling Dozers.

DIVISION MANAGER

California Sunnyvale Hendy Ave. Larry Crane

DISTRICT MANAGER

California Menlo Park 837 Robie Ave. R.W. Christofferson

DISTRIBUTORS

Arizona	Phoenix	Shriver Machinery Co.
California	San Diego	Hudson Equipment Co.
	Stockton	Stockton Iron Works
Colorado	Denver	McKelvy Machinery Co.
Idaho	Bolse	Intermountain Equipment Co.
Montana	Billings	Hall-Perry Machinery Co.
	Butte	" " " "
	Great Falls	" " " "
Nevada	Reno	Jenkins & Albright
New Mexico	Albuquerque	Leonard Motor Co., Inc.
Oregon	Medford	Cal-Ore Machinery Co., Inc.
Washington	Spokane	Inland Diesel & Machinery Co.
	Seattle	Washington Machinery Co.

Construction methods in the West are different—therefore the reading requirements of Western contractors and engineers are different. To tell your sales story effectively in the West, put WESTERN CONSTRUCTION on your national schedule.

WORTHINGTON CORPORATION
Construction Equipment Division
Plainfield, New Jersey

PRODUCTS: Agitators; Backfill Tamers; Clay Diggers; Concrete Mixers; Paving Breakers; Compressors; Air Tools; Truck Mixers; Pavers; Pneumatic Placers; Rock Drills; Wagon Drills; Triplex Tamers; Construction Pumps.

REGIONAL SUPERVISORS

California Los Angeles 5075 Santa Fe Ave W.F. Martin
San Francisco 224 Townsend St. Charles R. Anaell
Utah Salt Lake City 118 Motor Ave. P.E. Wilson
Washington Seattle 2616 Western Ave. C.W. Croney

DISTRIBUTORS

Arizona	Phoenix	Lee Redman Equipment Co.
California	Bakersfield	Inland Equipment Co.
	Berkeley	West Coast Engine & Equipment Co.
	Fresno	Reynolds Equipment Co.
	Los Angeles	W.L. McGonagle Co. (Mixers)
	Oakland	Mixermobile Sales & Service (Mixers)
	Sacramento	Inland Equipment Co.
	Stockton	Equipment Sales & Service Co.
Colorado	Denver	Power Equipment Co.
Idaho	Pocatello	Rocky Mountain Machinery Co.
Montana	Helena	Cald Engineering Works
	Missoula	Miller Machinery Co.
Nevada	Elko	A-D Machinery Co.
New Mexico	Albuquerque	Leonard Motor Co.
	Medford	Cal-Ore Machinery Co.
	Portland	Andrews & Andrews Equipment Co.
Utah	Salt Lake City	Rocky Mountain Machinery Co.
	Seattle	Star Machinery Co.
Wyoming	Casper	Keremi Tractor & Equipment Co.
	Cheyenne	" "

WRIGHT POWER SAW & TOOL CORP.
292 Longbrook Avenue
Stratford, Connecticut

PRODUCTS: Gasoline WRIGHT Saw; Pneumatic WRIGHT Saw; WRIGHT Oilers.

DISTRICT MANAGER

California Lakewood 5944 Graywood Ave. A.L. Walde

DISTRIBUTORS

Arizona	Phoenix	Shriver Machinery Co.
California	San Francisco	The Rix Company
	Santa Rosa	John Sloss Company
Colorado	Denver	Colorado Builders Supply Co.
Idaho	Boise	Intermountain Equipment Co.
	Pocatello	" "
Montana	Butte	Hall-Perry Machinery Co.
	Great Falls	" "
New Mexico	Albuquerque	Contractors Equipment & Supply Co.
Oregon	Portland	Cramer Machinery Co.
Utah	Salt Lake City	Hatten Machinery Co.
	Seattle	Star Machinery Co.
Wyoming	Casper	Colorado Builders Supply Co.

ADVERTISING

TO THE CONSTRUCTION INDUSTRY
OF THE WEST AND ALASKA
IS A REGIONAL JOB

- Construction needs, problems, and practices are different
- The West's construction problems differ from those in the rest of the U.S., but are common to the whole Western region
- Western contractors are regional operators—many work on projects anywhere in the West; most cross state borders continually

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IS THE ONE PUBLICATION
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Regularly!**

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2. NEW EQUIPMENT SECTION . . . Advance announcements of new products appear here every month, with brief descriptions of the product, its applications and features.
3. JOB ARTICLES . . . You'll find a wealth of helpful information on how others use equipment to cut costs on their jobs. Benefit from their experience; no matter how tough your problem may be, the chances are good that someone has already solved it. Keep up . . . read WESTERN CONSTRUCTION regularly!

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DISTRIBUTORS & FACTORY BRANCHES SECTION

CONTAINS . . .

Names of Distributors arranged by states and cities, with their addresses, personnel, phone numbers, branch offices, and lines handled.

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Inland Machinery Co.		
Inslay Manufacturing Co.		
Intermountain Equipment Co.		
Interstate Tractor & Equipment Co.		
Iowa Manufacturing Co.		
Island Equipment Co.		

J

Jenkins, J. T. Co.	Fresno	65
	Los Angeles	71
	Phoenix	30
	San Francisco	85
Jenkins & Albright	Reno	102
Johnson Tractor Co.	Riverside	81
Jones, C. H. Equipment Co.	Salt Lake City	116
Jorgensen, Earle M. Co.	Oakland	86
Joy Manufacturing Co.	Denver	93
	Salt Lake City	72
	San Francisco	115

K

Keremi Tractor & Equipment Co.	Cheyenne	12
Kerns, J. W.	Klamath Falls	10
Kimball Equipment Co.	Salt Lake City	11
King & East Machinery Co.	Denver	9
Knapp Industrial Service Co.	Sacramento	11
Koehring Co.	Stockton	80

L

Lang Co., The	Salt Lake City	111
Larson Equipment Co.	Los Angeles	73
Lehmkuhl, M.C.	San Francisco	86
leRoi Division	Los Angeles	73
	San Carlos	85
	Denver	9
	Los Angeles	73
	Portland	11
	San Francisco	86
Leschen Wire Rope Division	Seattle	12
	Denver	9
	Portland	11
	San Marlin	80
Liberty Truck & Parts Co.	Albuquerque	10
Link Belt Speeder Corp.	Portland	11
Lively Equipment Co.	Portland	11
Loggers & Contractors Machinery Co.	Salt Lake City	111
Lund Machinery Co.		

M

Mack Motor Truck Corp.	Los Angeles	73
	Portland	11
	San Francisco	86
	Seattle	12
	Los Angeles	73
	Portland	11
	San Francisco	86
	San Jose	80
	Seattle	12
Malsbury Mfg. Co.	Seattle	12
Marion-Osgood-General	Portland	11
Marlow Pumps	Portland	11
Marmon-Merrington Company	Los Angeles	73
Master Vibrator Co.	Denver	9
McCorm Company	Phoenix	60
McGinnis, Nell B. Co.	Denver	9
Mckelvy Machinery Co.	Seattle	121
Mid-State Equipment Co.	Wenatchee	12
Min-A-Cor Equipment Co.	Phoenix	60
Mines Engineering & Equipment Co.	San Francisco	86
Mine & Smelter Supply Co.	Denver	9
Minneapolis-Moline Co.	San Francisco	40
Mixermobile Sales & Service	Oakland	11
Modern Machinery Co.	Seattle	12
Montana Powder & Equipment Co.	Spokane	12
Moore, Joseph G. Co.	Helena	10
Moore Equipment Co.	Santa Maria	10
Moore, H. W. Equipment Co.	Stockton	10
Moly & Van Dyke, Inc.	Denver	10
Mountain Tractor Co.	Klamath Falls	12
Murphy-Campbell Co.	Missoula	10
Murphy Diesel Co.	Seattle	12

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N

National Suppl. Engine Corp.	Portland	113
Nelson Equipment Co.	Portland	112
Nevada Equipment Service, Inc.	Reno	12
Noble Company	Seattle	121
Nordling, D. N. Parts Co.	Boise	97
Normont Equipment Co.	Great Falls	100
Northern Commercial Co.	Seattle	59
Northern Supply Co.	Anchorage	58
Northwest Engineering Co.	Los Angeles	72
	San Francisco	36
	Seattle	121

O

Oliver Corporation	Los Angeles	72
	Oakland	8
	Portland	113
Onan, D. W. & Sons, Inc.	Denver	94
	Palo Alto	9
Owen Bucket Co.	Berkeley	63

P

Pacific Hoist & Derrick Co.	Seattle	121
Pacific Pumping Co.	Los Angeles	2
	Portland	113
	Seattle	121
Parkinson Tractor Co.	Idaho Falls	98
Peerless Tractor & Equipment Div.	Fresno	65
Peterson Tractor & Equipment Co.	San Leandro	89
Pettibone-Mulliken Corp.	Denver	94
	Hollywood	66
	Seattle	122
Philpott, Geo. M. Co.	Portland	113
	San Francisco	86
Pioneer Equipment Co.	Reno	102
Pioneer Engineering Works	Portland	113
Power Equipment Co.	Denver	94
Prinole Tractor Co.	Salinas	82

Q

Quickway Truck Shovel Co.	Bellevue	116
	Denver	94

R

Rasmussen Equipment & Supply Co.	Salt Lake City	117
Redman, Lee Equipment Co.	Phoenix	60
Ribble, N. Co.	Albuquerque	104
Richter, E. E. & Son Co.	Oakland	78
Riddell, W.A.C.	Walnut Creek	91
Rocky Mountain Machinery Co.	Salt Lake City	117
Roebling's, John A. Sons Corp.	Denver	94
	Los Angeles	72
	Seattle	122
Roeder, C.D. Equipment Co.	Reno	122
Ronstadt Hardware	Tucson	62

S

Sacramento Valley Tractor Co.	Sacramento	51
Sahliber, Jack Equipment Co.	Seattle	122
St. Paul Hydraulic Hoist	Richmond	20
San Diego Tractor & Equipment Co.	San Diego	22
Sanford Tractor & Equipment Co.	Reno	122
San Joaquin Tractor Co.	Bakersfield	33
Santa Fe Equipment Co.	Los Angeles	27
Sawtooth Co., The	Boise	29
Schield Bantam Co.	San Mateo	14
Schramm, Inc.	Spokane	13
	Los Angeles	113
	Portland	113
	San Francisco	87
Seaman Motors, Inc.	Billings	99
Seltz Machinery Co., Inc.	Los Angeles	23
Shaw Sales & Service Co.	San Diego	22
Shepherd Tractor & Equipment Co.	Los Angeles	23
Shriver Machinery Co.	Phoenix	51
Sierra Machinery Co.	Reno	102
Sierra Tractor & Equipment Co.	Chico	64
Skill Corporation	Denver	25
	Los Angeles	14
	Portland	113
	San Francisco	27
Smith-Booth-Jster Co.	Seattle	122
Smith Engineering Works	Spokane	125
	Los Angeles	74
	Los Angeles	74
	Portland	113
	San Francisco	27
Smith, S. Morgan Co.	San Diego	93
Southern Equipment & Supply Co.	Boise	97
Southern Idaho Equipment Co.	Idaho Falls	98

Spears Wells Machinery Co.	Oakland	78
Spokane Kenworth Co.	Spokane	125
Spokane Machinery Co.	Spokane	125
Standard Machinery Co.	San Francisco	5
Stanislaus Implement & Hardware Co.	Modesto	61
Stapley, O. S. Co.	Phoenix	61
Starline Equipment Co.	Boise	97
Star Machinery Co.	Seattle	122
State Tractor & Equipment Co.	Phoenix	51
Steffeck Equipment Co.	Helena	151
Stephens-Adamson Mfg. Co.	Portland	113
	Salt Lake City	7
	Seattle	122
Stevenson Equipment Co.	Santa Rosa	20
Stow Manufacturing Co.	Los Angeles	34
	Portland	113
	San Francisco	85
Studer Tractor & Equipment Co.	Seattle	122
Sullivan & Crowe Equipment Co.	Casper	127
Superior Concrete Accessories, Inc.	Redding	80
Superior Equipment Co.	San Leandro	89
	Phoenix	61

T

Templeton, Kenly & Co.	Los Angeles	74
Thor Power Tool Co.	Denver	95
	Los Angeles	74
	San Francisco	87
Totem Equipment Co.	Seattle	122
Tractor & Equipment Co.	Seattle	123
Traimobile, Inc.	Sidney	101
Traylor Engineering Co.	Los Angeles	74
Treasure State Equipment Co.	Salt Lake City	117
Treasnor Equipment Co.	San Francisco	87
Tri-State Equipment Co.	Visalia	91
Tulare County Tractor Co.	Spokane	125
Twin Disc Clutch Co.	Visalia	91
	Los Angeles	74

U

Union Wire Rope Co.	Denver	95
	Portland	113
	Sacramento	22
Unit Crane & Shovel Co.	Sacramento	82
Universal Engineering Co.	Denver	95
Universal Form Clamp Co.	Hollywood	66
	Los Angeles	74
	San Leandro	89

V

Valley Equipment Co.	San Jose	88
Valley Truck & Tractor Co.	Marysville	75
Victor Equipment Co.	San Francisco	87

W

Wallace Machinery Co.	Cerrito	79
Warnock-Bancroft Equipment Co.	El Monte	44
Washington Machinery Co.	Seattle	23
Watson's Mechan.	San Francisco	87
Waukesha Motor Co.	Los Angeles	74
Wayne Shovel & Grav. Div.	Los Angeles	75
Weyerhaeuser Tractor Co.	Sacramento	82
Welding Service Sales, Inc.	San Francisco	88
Wellman, S. K. Co.	Los Angeles	75
West Coast Engine & Equipment Co.	Portland	114
West Coast Industrial Sales Co.	San Francisco	88
Western Construction Equipment Co.	Berkeley	23
Western Equipment Co.	San Francisco	24
Western Machinery Co.	31 ins.	99
	Baileys	21
	Portlands	14
Western Traction Co.	Denver	95
Western Tractor & Equipment Co.	Phoenix	22
Wheeler-Kershaw Co.	Salt Lake City	11
white Motor Co.	San Francisco	25
	Spokane	25
Wilson, J. H. Co.	Salt Lake City	11
Winter-Weiss Co.	Denver	25
Wood Tractor Co.	Los Angeles	25
Wortham Machinery Co.	Portland	114
Worthington Corp.	San Francisco	12
	Albuquerque	114
	Cheyenne	12
Wright Power Saw & Tool Co.	Los Angeles	11
	Salt Lake City	11
	San Francisco	22
	Seattle	123
Yukon Equipment, Inc.	Lakewood	66

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it saves time

The manufacturers' index immediately precedes the manufacturers' section. It is arranged alphabetically and gives you at a glance the exact page number of any manufacturer in the Handbook. It's more convenient and will save you time.

Alphabetical index of all distributors listed in the Handbook immediately precedes the distributors' section. The distributors' section is arranged geographically but the index is arranged alphabetically for your convenience. The use of this index will save you lots of time.

Factory Branches and Factory Personnel are also listed in the distributors' section. Refer to the index immediately preceding this section.

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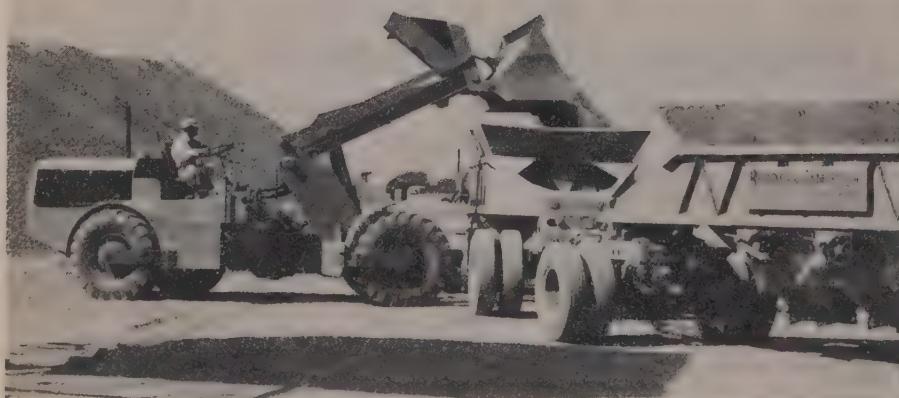
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Parts Manager...Vern Helton

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American Optical Co. Lincoln Engineering Co.
Chicago Pneumatic Tool Co. Mann Edge Tool Co.
Campbell Chain Co. National Welding Equipment Co.
Craig Carroll Co. OTC Tool Company
Coffing Hoist Co. Oil Filter Service
California Colton Mills Pacific Wire Rope Co.
Dixon Graphite Co. Roebling Wire Rope Co.
Electric Steel Foundry Co. Rust-Oleum Paint Co.
Gates Rubber Co. W.A. Riddell Corp.
Grisholts, Inc. Skookum Co., Inc.
Great Western Cordage Co. Standard Tool Co.
Harnischfeger Corp. Teco Products Co.
Lew Saw Company U.S. Walton Co.
Jorgensen Steel Co. Winslow Engineering Co.
Kellef Steam Cleaner Co. Westrac Company
Laher Spring & Tire Corp. Young Iron Works
Lebus Rotary Tool Works, Inc. Western Fence & Wire Works

SIERRA TRACTOR & EQUIPMENT CO. (Branch)..... REDDING
Highway 99 South PH: 920

Manager..... Grant Thompson

SEE MAIN OFFICE LISTING UNDER CHICO

SULLIVAN & CROWE EQUIPMENT CO. REDDING
South Market & Angelo Sts. PH: 2280-81

Partner..... W.C.Sullivan Partner..... C.P.Troxclair
Partner..... John Crowe Sales Manager...W.C.Sullivan
Manager..... W.C.Sullivan Office Manager...C.P.Troxclair
Parts Manager...R.J.Paul Service Manager...W.A.Schutte

LINES HANDLED

J.D.Adams Manufacturing Co. Frank G.Hough Co.
Pacific Car & Foundry Co. Insley Manufacturing Co.
Droft Manufacturing Co. International Harvester Co.
Elgin Corporation Leschen Rope Division
Essick Manufacturing Co. Palmer Electric Mfg. Co.

WATSON & MEEHAN (Branch)..... REDDING
1127 Parkview Avenue PH: 2840

Manager..... Carroll Reed

SEE MAIN OFFICE LISTING UNDER SAN FRANCISCO

ALLIED EQUIPMENT CO. (Branch)..... REEDLEY
1230 G Street PH: 25

Manager..... E.W.Callison

SEE MAIN OFFICE LISTING UNDER FRESNO

BAY EQUIPMENT CO. RICHMOND
3254 East Shore Hiway PH: LA 5-2190

President..... Ray D.Smith Vice President...C.Garfield
Manager..... Luke T.Holcomb Sales Manager...Chas.A.Robinson
Parts Manager...Chas.Tompkins Service Manager...Tom Aydelotte

LINES HANDLED

Bay City Shovels, Inc. Fafe-Roof-Heath Co.,
California Wire Cloth Harris Manufacturing Co.,
Clyde Iron Works Mall Tool Co.,
E.D.Etnyre Co. Manitowoc Engineering Corp.,
Wooldridge Manufacturing Co.

BLACK & DECKER MFG. CO. RICHMOND
PACIFIC COAST WAREHOUSE PH: BE 5-4232
1732 Wright Ave.

Pacific Coast Sales Manager..... A.S.Boehm
Warehouse Manager..... A.R.Meyers

GAR WOOD INDUSTRIES, INC. RICHMOND
Wayne Division PH: BE 4-3914

District Mgr...A.M.Guthrie

ST. PAUL HYDRAULIC HOIST RICHMOND
Garwood Industries

District Mgr...J.T.Conway

WEAVER TRACTOR CO. (Branch) RIO VISTA
PH: 4-0100

Manager..... Jerry Morse

SEE MAIN OFFICE LISTING UNDER SACRAMENTO

BRAMAN-DICKERSON CO., INC. RIVERSIDE
1575 Eighth St., P.O.Box 471 PH: OV 6-2121

President..... Guy C.Wilson Vice President...A.O.Smith
General Manager...Guy C.Wilson Sales Manager...Ivan H.Brown
Parts Manager...Lloyd R.Olson Service Manager...Roy Shetzel
Office Manager...C.H.Stanley

LINES HANDLED

J.D.Adams Mfg. Company Frank G.Hough Company
American Chain & Cable Co. International Harvester Co.
Bucyrus-Erie Company M-R-S Mfg. Company
Harnischfeger Corporation Pullman Mfg. Company
Schramm, Inc.

BROWN-BEVIS INDUSTRIAL EQUIPMENT CO. (Branch) RIVERSIDE
P.O.Box 2005 PH: OV 3-5215

Manager..... R.L.Dunham

SEE MAIN OFFICE LISTING UNDER LOS ANGELES

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Phone OV. 6-2121

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Equitable Building, Portland

WESTERN CONSTRUCTION HANDBOOK

JOHNSON TRACTOR CO.....RIVERSIDE
3133 - 7th Street PH: OV 6-4560President.....W.Ruel Johnson Sales Manager.....J.Wm.Muller
Manager.....W.Ruel Johnson Service Manager.....E.Murray Pratt
Parts Manager.....Clyde H.Bowles

BRANCH OFFICES

Ontario Manager Jay Genger PH: YU 63-3117
Coachella " L.S.Slack PH: 8-2261

LINES HANDLED

Athey Products Corp. Hyster Company
Caterpillar Tractor Co. John Deere Plow Co.
Fleco Pacific Wire Rope Co.
Gardner-Denver Co. PrecoCARVER PUMP COMPANY.....ROLLING HILLS
26942 Buckskin Lane

Western Regional Sales Manager.....Wm.A.McMahan

EDWARD R.BACON COMPANY (Branch).....SACRAMENTO
211 North 7th Street PH: GI 2-1008

Office Manager.....N.B.Denney

SEE MAIN OFFICE LISTING UNDER SAN FRANCISCO

BAY CITIES EQUIPMENT, INC. (Branch).....SACRAMENTO
601 Fulton St. PH: IV 9-8298

Manager.....Eldon Wible

SEE MAIN OFFICE LISTING UNDER OAKLAND

EUCLID DIVISION-General Motors Corp.....SACRAMENTO
710 La Sierra Dr.

District Sales Rep.....H.P.Behl

FRUEHAUF TRAILER CO.....SACRAMENTO
3660 W. Capitol Ave. PH: GI 3-3906

Office Manager.....Chester Gleba

HOMELITE CORPORATION.....NO. SACRAMENTO
2234 Auburn Blvd. PH: WA 5-5396

Branch Mgr.....Richard Dodelin

ISLAND EQUIPMENT CO.(SUBSIDIARY).....SACRAMENTO
West Coast Engine & Equipment Co.

Route 8, Box 1693 PH: HI 5-2116

Manager.....B. Zink

GEORGE M. PHILPOTT CO. (BRANCH).....SACRAMENTO
1725 33rd St. PH: HI 5-3079

Manager.....J. Close

SEE MAIN OFFICE LISTING UNDER SAN FRANCISCO

KNAPP INDUSTRIAL SERVICE CO.....SACRAMENTO
515 - 12th Street PH: HU 4-9208President.....E.R.Knapp Manager.....E.R.Knapp
Service Manager.....Hugo Tiemann

LINES HANDLED

Alldit Steel Products Mobilift Fork Trucks
Brunnen & Lay Drill Steel Rex-Arc Electrodes, Welding
Curtis' Compressors Rol-Pak Filters
Jorgensen Cutting Edges Swingspout
Lincoln Lubricating Equipment Sure-Seal Tractor Seals
Westrac Tractor PartsMOORE EQUIPMENT CO., INC. (Branch).....N. SACRAMENTO
903 Del Paso Blvd. PH: WA 9-8525

Sales Manager.....Paul Hayden Parts & Service.....M.L.Morgan

SEE MAIN OFFICE LISTING UNDER STOCKTON

SACRAMENTO VALLEY TRACTOR CO.....SACRAMENTO
1901 Broadway PH: GI 3-1727Partner.....J.W.H.Pahl Partner.....C.B.Gilliam
Partner.....B.K.Milner Sales Manager.....C.B.Gilliam
Service Mgr.....L.O.Cheffin Parts Manager.....N.E.Newell

BRANCH OFFICE

Valley Truck & Tractor Co. 100 D St. Marysville

Manager.....Henry S.Miller PH: 2-2386
Sales Manager.....L.Clayton

LINES HANDLED

J.D.Adams Manufacturing Co. Hughes-Keenan Co.
American Tractor Equip. Co. International Harvester Co.
Bucyrus-Erie Co. Pacific Car & Foundry Co.
Drott Manufacturing Corp. Palmer Electric Mfg. Co.
Elgin Corp. Ready Power Company
Harnischfeger Corp. Southwest Welding & Mfg. Co.
Frank G.Hough Co. Trackson Company

TRAILMOBILE, INC.....SACRAMENTO
510 North 12th Street

Manager.....A.W.Smith

UNION WIRE ROPE CORP.....N. SACRAMENTO
903 Del Paso Blvd. PH: WA 5-5124

District Mgr.....D.L.Bedford

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P & H Cranes and Shovels

Adams Graders

Drott Loaders

Elgin Sweepers

Carco Winches

Sacramento Valley Tractor Co.

1901 Broadway

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UNIT CRANE & SHOVEL CORP..... SACRAMENTO
4440 Cabrillo Way PH: MU 6-2205

Dist.Sls.Repr...Hermen Combs

WEAVER TRACTOR CO..... SACRAMENTO
1900 T Street PH: HU 1-1221

President.....A.S.Weaver,Jr.
Sales Manager...John J.Weber

BRANCH OFFICES

Dixon	Manager	Connie Meyer	PH: 8-2395
Rio Vista	"	Jerry Morse	PH: 4-0100
Woodland	"	Max Meyers	PH: 2-4637

LINES HANDLED

American Tractor Equipment Co.	Fleco Company
Athey Products Corp.	Hyster Company
Austin Overshot Loaders	Martin Machine Co.
Broderick & Bascom Rope Co.	Preco, Inc.
Caterpillar Tractor Co.	Skalff Steel & Iron Co.
John Deere Plow Co.	Ulrich Products Corp.

WESTERN TRACTION CO. (Branch)..... SACRAMENTO
16th and American St. PH: S-8551

Manager.....William Davis

SEE MAIN OFFICE LISTING UNDER SAN FRANCISCO

FARMERS MERCANTILE COMPANY..... SALINAS
721 Abbott Street, P.O.Bok 1131 PH: 7383

President.....J.H.Riley	Vice President...James Fane
Manager.....Chas.T.Mathers	Office Manager...Geo.T.Jameson

BRANCH OFFICE

Watsonville	Manager	R.M.Johnson	PH: 4-3861
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LINES HANDLED

J.D.Adams Manufacturing Co.	Hughes Keenan Company
American Tractor Equipment Co.	International Harvester Co.
Bucyrus-Erie Company	Isaacson Iron Works(Std.Pullman)
Drott Manufacturing Co.	Schramm, Inc.
Harnischfeger Corporation	Seaman Motors, Inc.

PRINGLE TRACTOR CO..... SALINAS
110 Abbott Street PH: 8036

President.....Wm.B.Pringle	Sales Manager...Mark Yucavich
Office Manager...Wm.H.Shervey	Industrial Sales,James Gibb
Parts Manager...Frank Laidler	Service Manager..Al Dutra

BRANCH OFFICES

King City	905 Broadway	R.M.Wray	PH: 222
Watsonville	Lake & Walker	L.D.Schoonover	PH: 4-3885

LINES HANDLED

Athey Products Corp.	Fleco
Be-De Manufacturing Co.	Hyster Company
Caterpillar Tractor Co.	Preco Company
John Deere Plow Co.	Trackson Company

ELECTRIC TOOL & SUPPLY CO., INC. (Branch)..... SAN BERNARDINO
867 Colton Avenue PH: 824-492

Manager.....H.W.Miller

SEE MAIN OFFICE LISTING UNDER LOS ANGELES

CONSTRUCTION MACHINERY CO..... SAN CARLOS
1440 Cordilleras Avenue PH: LY1-1-0510

District Repr...Edward R.Dalley

COP-O-AIR..... PH: 930 Brittan Avenue PH: LY 3-2421

President.....Chas.W.Ferris V.P. & Gen.Mar...C.E.Burton
District Mar...Paul Snow Business Mar....W.D.Marshall

BRANCH OFFICES AND MANAGERS

Denver	2360 S.Delaware	Arnold Dodd	PH: PE 3-2926
Phoenix	1326 N.22nd Ave.	Howard Brown	PH: AL 2-2022
Salt Lake City	1065 S.2nd West	Keith Reading	PH: 4-2318
Spokane	1509 W.2nd Ave.	Carlos Milner	PH: TE 1531

LINES HANDLED

A/B Atlas Diesel, Stockholm, Sweden
Sandvikens Jernverks Aktiebolag, Sandviken, Sweden

Atlas Diesels, Compressors, Rock Drills, Pneumatic Drills,
Wagon Drills, Winches and Hoists

Sandvikens: Integral Tungsten-Carbide Drill Steels and
Detachable Bits

LE ROI DIVISION, Westinghouse Air Brake Co..... SAN CARLOS
1564 Laurel St. PH: LY 3-9162

Regional Mar...E.G.Simmons

BROWN-BEVIS INDUSTRIAL EQUIPMENT CO.(Branch)..... SAN DIEGO
701 E.Harbor Drive PH: BE 4-2833

Manager.....John Winchel

SEE MAIN OFFICE LISTING UNDER LOS ANGELES

HUDSON EQUIPMENT CO..... PH: 9-5171
629 First Ave., P.O.Box 350

Owner-President,William Kenton	Service Manager...K.W.Rowell
Sales Manager...E.A.Myers	Parts Manager...Mark Kleinberg

BRANCH OFFICE

El Centro	3rd & Broadway	Ed L.Thiles,Mgr.,	PH: 677
	(P.O.Box 1663)		

LINES HANDLED

Abbey-Scherer Co.	Leschen Wire Rope Div.
Aeroll Products Co.	Mall Tool Company
Blackmer Pump Co.	Marlon Pumps
Brunner & Lay, Inc.	Minnesota Mining & Mfg. Co.
Bearborn Chemical Co.	Newman Mfg. & Sales Co.
Diamond Chain Co.	Quaker Rubber Corp.
R.E.Dietz Co.	W.A.Riddell Co.
Dixon Valve & Coupling Co.	Sansform Mfg. Co.
Duff-Norton Mfg. Co.	Sin-Rite Pump Co.
Eco Engineering Co.	Schramm, Inc.
Fife Bros. Refining Co.	A.O.Smith Corp.
Garlinghouse Brothers	Gordon Smith & Co.
Gillson Brothers Co.	Sontron Company
Hensley Equipment Co.	Tremec Company, Inc.
Homeslide Valve Mfg. Co.	U.S.Pumps, Inc.
Kato Engineering Co.	Wood Shovel & Tool Co.
Kraloy Plastic Pipe Co.	Woolridge Mfg. Co.
	Worthington Corporation

SAN DIEGO TRACTOR & EQUIPMENT CO..... SAN DIEGO
701 - 1st Avenue PH: MA 6151

President.....H.W.Booth,Jr.	Vice President...Rolly W.Fowler
Manager.....H.W.Booth,Jr.	Sales Manager....Rolly W.Fowler
Parts Manager...Jack Deaderick	Service Manager...Royal Gusboom

BRANCH OFFICE

Escondido	Santa Fe Ave.	J.H.Fort, Mar.	PH: 326
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LINES HANDLED

Athey Products	John Deere Plow Co.
John Bean Western	Fleco
Caterpillar Tractor Co.	Hyster Co.
	Preco

SHAW SALES & SERVICE CO. (BRANCH)..... SAN DIEGO
1475 Newton St. PH: 9-4145

Manager.....J.Patterson

Parts & Serv.Mar Milton Collier

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C. I. T. CORPORATION

660 Market Street, San Francisco
Equitable Building, Portland

416 West 8th Street, Los Angeles

WESTERN CONSTRUCTION HANDBOOK

SOUTHERN EQUIPMENT & SUPPLY CO..... SAN DIEGO
2025 East Harbor Drive PH: BE 2-6123

President.....P.H.Davenport Exec.Vice Pres...Hugh McArthur
 Vice President...E.T.Guymon,Jr. Manager, Steel Dept.,
 Manager.....Clifton Coates Manager-Buyer...Wm.S.W.Low
 Parts Manager...W.J.Putnam Industrial Supplies
 Service Manager..T.H.Thatcher

BRANCH OFFICE

Escondido 301 W.Grand PH: 111 R.Hillbert, Mgr.

LINES HANDLED

J.D.Adams Manufacturing Co. Harnischfeger Corp.
 American Tractor Equipment Co. Frank G.Hough Co.
 Atlas Scraper & Engineering Hughes-Keenan Co.
 Be-Ge Manufacturing Co. International-Ran. Co.
 Black & Decker Mfg. Co. International Harvester Co.
 Bucyrus-Erie Mfg. Co. Mail Tool Company
 E.H.Edwards Company M-R-S Manufacturing Co.
 Electric Steel Foundry Co. Pullman Standard Car Mfg. Co.
 Essick Manufacturing Co. Oven Bucket Company
 Eveready Brixsaw Co. Palmer Electric Mfg. Co.
 Firestone Tire & Rubber Co. T.L.Smith Company
 Friend Manufacturing Co. Waukesha Motor Co.
 Whiteman Manufacturing Co.

J.D.ADMANS MANUFACTURING CO..... SAN FRANCISCO
230 7th St. PH: UN 1-3430

District Mgr....Don Hoffman Branch Manager...H.J.Cooke
 Parts Manager...Lee Hartwig

AMERICAN CHAIN & CABLE CO., INC..... SAN FRANCISCO
890 Tennessee St. PH: MI 7-4640

Dist.Sls.Mgr....Geo.F.Lehr

AUSTIN WESTERN CO..... SAN FRANCISCO
33 Clementina St. PH: DO 2-1654Dist.Manager....J.E.Huber Parts Depot Mgr...F.J.Anzalone
Asst.Dist.Mgr...Fred Bourquin Service Manager...R.H.Witherill

EDWARD R.BACON COMPANY..... SAN FRANCISCO
Folsom at 17th St. PH: HE 1-3700

General Manager,Jack How Sales Prom.Mgr...Albert P.Hahn
 Manager.....W.F.McGouirk Chief Accountant...P.J.Mangel
 Parts Manager...E.T.Johnson Service Manager...W.R.Kidder
 Manager of Field Salesmen.....Max B.Campbell

BRANCH OFFICES

Fresno	Office Manager	P.H.Hamm	PH: 6-8129
Oakland	General Sups.	LaVerne Morgan	PH: KE 3-0432
Sacramento	Office Manager	N.B.Denney	PH: GI 2-1008

LINES HANDLED

Advance Car Mover Co.,Inc. Link-Belt Speeder Corp.
 Advance Scale & Mfg. Co. Littleford Bros., Inc.
 Air Placement Equipment Co. Maginnis Power Tool Co.
 American Air Filter, Inc. Malsbary Manufacturing Co.
 Herman Nelson Division Manning, Maxwell & Moore, Inc.
 American Gage & Mfg. Co. McKiernan-Terry Corp.
 Atlas Conveyor Company M-B Corporation
 Austin-Western Company Morse-Stearrett Products Co.
 Beebe Bros. Murphy Company, L.R.
 Brunner & Lay, Inc. N.P.Nelson Iron Works, Inc.
 Campbell Equipment Co. Ohio Locomotive Crane Co.
 Camm Manufacturing Co. Ottawa Steel Products, Inc.
 Cataphote Corporation Page Engineering Co.
 Cleveland Trencher Co. Pilman Manufacturing Co.
 Colorado Fuel & Iron Corp. Pyramid Steel Company
 Concrete Surfacing Machinery Co. "Quick-Way" Truck Shovel Co.
 Dibble Foundry & Machine Co. Quincy Compressor Co.
 Doug-Lynn Co., Inc. Radiator Specialty Co.
 Drever Vibrator Co. Roebling's Sons Corp., John A.
 Edwards Manufacturing Co. David Round & Son
 Elmco Corporation Salem Tool Co.
 Electric Tamper & Equipment Co. Sansform Manufacturing Co.
 Eveready Brixsaw Company Sasseg Derrick Co.
 Everhot Manufacturing Co. Skagit Steel & Iron Works
 G & T Industries, Inc. Southwest Welding & Mfg. Co.
 Gar-Bro Manufacturing Co. Superior Concrete Acc., Inc.
 General Machine & Welding Works Symons Brothers Co.
 Gesner Equipment Corp. Tampa Manufacturing Co.
 Grier Engineering Co., Kay M. Templeton, Kenly & Co.
 H & L Tooth Company Thor Power Tool Co.
 Handlan, Inc. Tilden Tool Manufacturing Co.
 Jackson Vibrators, Inc. Toledo Pressed Steel Co.
 Jaeger Machine Co. Walter Motor Truck Co.
 Jones Superior Machine Co. Waterloo Steel & Equipment Co.
 Kiesler Company, Jos. F. Western Machinery Co.
 Kinney Spring Steel Broom Co. Whitman Manufacturing Co.
 Ko-Mo Tools, Inc. Willshire Power Sweeper Co.
 Klauber Manufacturing Co. Winslow Gart.Std.Scale Wks., Inc.
 Kohler Company Wisconsin Motor Corp.
 LaCrosse Traller Corp. Woolridge Manufacturing Co.
 Woolery Machine Company

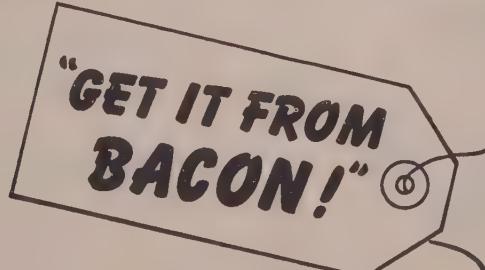
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San Francisco 10, Calif.

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OAKLAND

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BLACK & DECKER MANUFACTURING CO.....SAN FRANCISCO
4343 3rd Street PH: AT 2-1900

Branch Manager.....Paul W. Pounds
Pacific West Coast Sales Manager.....A.S. Boehm

PACIFIC COAST WAREHOUSE

1732 Wright Avenue.....Richmond

Pacific West Coast Sales Mgr.....A.S. Boehm
Warehouse Manager.....A.R. Meyers

BLAW KNOX EQUIPMENT DIV. BLAW KNOX CO.....SAN FRANCISCO
(Western Sales Office)
681 Market St. PH: YU 2-1569

West Coast District Manager.....J.P. Cullen

BRODERICK & BASCOM ROPE CO.....SAN FRANCISCO
44 Potrero Avenue

Manager.....J.E. Carmichael

BUCYRUS-ERIE CO.....SOUTH SAN FRANCISCO
120 Freeway St. PH: PL 5-7436

Western Sales Manager.....J.H. Sackett

BUDA ENGINE & EQUIPMENT CO., INC.....SAN FRANCISCO
Subsidiary of Allis-Chalmers Mfg. Co.
470 Bayshore Blvd. PH: VA 4-3906

Factory Branch Manager.....C.H. Ridings

CHICAGO BRIDGE & IRON COMPANY.....SAN FRANCISCO
200 Bush Street PH: EX 2-8936

Western Sales Mgr.....L.A. Elsener

COAST EQUIPMENT COMPANY

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444 Eighth Street San Francisco

Market 1-5740

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855 Bryant Street PH: ME 1-7928-29

Western Sales Representative.....E.W. Karp
Branch Manager.....C.W. "Scotty" Scott

COAST EQUIPMENT CO.....SAN FRANCISCO
444 Eighth Street PH: MA 1-5740

President.....W.M. Nosman Vice President.....Paul R. Eall

LINES HANDLED

Aeroll Products, Inc.
Alamo Iron Works
American Chain & Cable Co.
American Hoist & Derrick Co.
Barber-Green Co.
Beebe Brothers
Wm. Bros Boiler & Mfg. Co.
Brunner & Ley
Buda Co. (Earth Drills)
Burch Corporation
C.F. & I. Co. (Grader Blades)
Chain Belt Company
Coffing Hoist Co.
Consolidated Machy. & Supply Co.
Dibble Foundry & Machine Works
Duff-Norton Company
Eagle Iron Works
W.E. Grace Manufacturing Co.
Huber Manufacturing Co.
Hughes-Keenan Corp.
Joy Manufacturing Co.

Kansas City Hay Press Co.
Kardong Bros.
Kohler Company
Lacer Enterprises
Leschen Rope Co.
Lincoln Engineering Co.
Mall Tool Company
Morse-Starr特 Products Co.
Quincy Compressor Co.
Rogers Bros. (Trailers)
Ruemmler Manufacturing Co.
Sandstorm Manufacturing Co.
Skill Corporation
The Skookum Co., Inc.
Southwest Welding & Mfg. Co.
Star Wire Screen & Iron Works
Templeton, Kenly & Co.
The Shovel Company
Vulcan Iron Works
Waterloo Steel & Equipment Co.
Wellman Engr. Co. (Buckets)
Wisconsin Motors Corp.

CONTRACTORS MACHINERY CO.....SAN FRANCISCO
1401 Illinois Street PH: MI 7-0588

President.....J.W. Beatty Sales Manager.....J.W. Beatty
Parts Manager.....Thomas W. Lyden Service Manager.....Thomas W. Lyden

LINES HANDLED

BeGe Manufacturing Co.
C H & E Manufacturing Co.
J.I. Case Company
Denuser Machine Co.
Duplex Truck Company

Henry Manufacturing Co.
Hydraulic Tool & Equipment Co.
Lull (Baker-Lull) Mfg. Co.
Ottawa Steel Products Co.
Schramm Co., Inc.
Werner & Swasey Co., Gradall Div.

CASE INDUSTRIAL TRACTORS
BE GE TRENCHERS & CARRYALLS
HENRY BACKHOES & LOADERS
MULTI-PURPOSE GRADALL
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BAKER-LULL FRONT END LOADERS
& BROOMS
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Phone: Mission 7-0588

WESTERN CONSTRUCTION HANDBOOK

A.C. COPE COMPANY.....SAN FRANCISCO
445 Bryant Street PH: EX 2-8054

Owner & Mgr....A.C.Cope

DIRECT FACTORY REPRESENTATIVES FOR:

Allied Marine Equipment Corp. Manhattan Marine & Electric Co.
Aqua Meter Co. David Round & Son
Cascade Paradise Mfg. Co. SHMCO Valves, Inc.
John Cooper Co., Inc. Stow Manufacturing Co.
Darling Valve & Mfg. Co. Swanson Boat Oar Factory
The Kraliss Co., Inc. E.J. Willis Company

F.W.O. PACIFIC CO.....SAN FRANCISCO
850 Harrison Street PH: GA 1-4971

Manager.....John E. Battles
Parts Manager....David Whalton

LINES HANDLED

Alaskaug, Inc. Pettibone Wood Manufacturing Co.
Byers Manufacturing Co. Pettibone New York Graders
Four Wheel Drive Auto Co. Rosco Manufacturing Co.
Garrison Manufacturing Co. Butler Equipment, Inc.
Highway Trailer Co. Tucker Sno-Cat Corp.
K-Hill Manufacturing Co. Universal Engineering Corp.
Pettibone Mulliken Corp. Wausau Snow Plows

GARDNER-DENVER CO.....SAN FRANCISCO
811 Folsom Street PH: EX 2-8747

District Mgr....C.H. Dirks

HARNISCHFEGER CORPORATION.....SAN FRANCISCO
Room 212, 100 Bush St. PH: DO 2-2313

Dist. Manager....J.M. Stout
Sales Engineer....J.H. Taylor

HAUCK MANUFACTURING COMPANY.....SAN FRANCISCO
625 Third Street

Manager.....H.B. Cleveland

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850 Harrison Street San Francisco

Phone GARFIELD 1-4971

HEIL EQUIPMENT CO.....SAN FRANCISCO
999 - 16th Street PH: KL 2-3040

President.....Alford R. Smith
Manager.....Richard Goddard
Parts Manager....Richard Hughes

Vice President...E.T. Smith
Sales Manager....Richard Goddard
Service Manager...J. McKellar

LINES HANDLED

Foster Tilt Bed Trailers Michigan Safety Fuel Tanks
Heil Hoists & Dump Bodies Omaha Bottom Dump Trailers
Hendrickson 6-Wheel Attachments Reliance Trailers
Knapheide Platform Bodies Unit Hydraulic Lifts

HERCULES POWDER COMPANY.....SAN FRANCISCO
225 Bush Street

Manager.....F.Geo. Trescher

HOMELITE CORPORATION.....SAN FRANCISCO
1201 Shafter Street PH: MI 8-6100

District Mgr....R.C. Glidden Office Manager...Dick Claunch
Branch Manager...Ralph Evans

INGERSOLL-RAND CO.....SAN FRANCISCO
350 Brannan Street PH: GA 1-6330

District Mgr....W.C. Collyer

INTERNATIONAL HARVESTER CO.....SAN FRANCISCO
610 Brannan Street PH: YU 2-5085

Manager.....H.F. Koelling

IOWA MANUFACTURING CO.....SAN FRANCISCO
6 Fuente Avenue PH: JU 4-1058

District Repr....O.E. "Bud" Whitney

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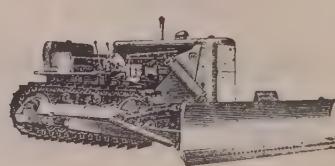
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Tibert Construction & Equip. Co.
Viking Pump Company
Wagner Steam Pump Co.
Wall Manufacturing Co.
Washington Iron Works
Western Brass Works
Western Fence & Wire Works
Western Machine Tool Works
William Patent Crusher Co.
Winslow Scale Works

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Cleaver Brooks Co.
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Coffey Hoist Co.
Construction Equipment Co.
Electric Steel Foundry
E.D.Ehrney Company
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Iowa Manufacturing Co.
Lincoff Engineering Co.
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Owen Birket Co.
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H & L Tool Co.
Kohler Company
LeTourneau-Westinghouse Co.

Minneapolis Moline Co.
Page Engineering Co.
Pettibone Mulliken Corp.
Rosco Manufacturing Co.
Schield Bantam Co.
Simplicity Engineering Co.
Sterling Machinery Co.
Thermoid Rubber Co.
Universal Engineering Corp.
Wickwire Spencer Co.
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CONTAINS:

Alphabetical listing of products manufactured by the manufacturers listed in the yellow section.

A

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Clipper Manufacturing Co.
Construction Machinery Co.
Dewalt, Inc.
Felker Mfg. Co.
LeTourneau-Westinghouse Co.
Shunk Manufacturing Co.
Skill Corporation
Thor Power Tool Co.

AERATORS

Butler Bin Company
Dorr-Oliver, Inc.
Werthington Corporation

AERIAL TRAMWAYS

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John A. Roebling Sons Corp.
Sauermann Bros.
Skagit Steel & Iron Works

AGITATORS

Blew Knox Co.
Bodinson Mfg. Co.
Construction Machinery Co.
Dorr-Oliver, Inc.
Jaeger Machine Co.
Morse Bros. Machinery Co.
Straub Mfg. Company
T. L. Smith Company
Worthington Corporation

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American Tractor Equipment Corp.
Austin-Western Co.
Baker Manufacturing Co.
Wm. Bros. Boiler & Mfg. Co.
LeTourneau-Westinghouse Co.
Oliver Corp.
Pacific Car & Foundry Co.
Shawnee Mfg. Co.
West Coast Machinery Co.
Woolridges Mfg. Co.

ASPHALT CUTTERS

Arrow Tools, Inc.
Barco Manufacturing Co.
Brunner & Lay
Clipper Manufacturing Co.
R.P.B. Corp.
Thor Power Tool Co.

ASPHALT KETTLES

Clipper Products, Inc.
Clipper Manufacturing Co.
Hoover Mfg. Co.
Littleford Bros., Inc.
Rosco Manufacturing Co.
Standard Steel Works
White Manufacturing Co.

ASPHALT PAVING EQUIPMENT

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Burch Corporation
Foote Co., Div., Blew Knox Co.
Harnischfeger Corp.
Hauk Mfg. Co.
Hetherington & Berner, Inc.
Highway Equipment Co.
Littleford Bros., Inc.
Iowa Manufacturing Co.
Kwik-Mix Company
Madsen Iron Works
Pioneer Engineering Works
Ulrich Products Corp.
Universal Engineering Co.
Waver Impactor, Inc.

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Geo. Haisl Mfg. Co.
Hetherington & Berner, Inc.
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Kwik-Mix Company
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Standard Steel Corp.
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Universal Engineering Corp.
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ASPHALT SUPPLY TANKS

E. D. Etnyre & Co.
Gunnison Mfg. Co.
Littleford Bros., Inc.
Standard Steel Works

B

BACKFILLERS

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Cleveland Trencher Co.
Gardner-Denver Co.
Frank G. Hough Co.
Koehring Co.
Misermobile Distributors, Inc.
Northwest Engineering Co.
Schild Bantam Co.
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Gar-Bro Mfg. Co.
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Joy Manufacturing Co.
Le Roi Division
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Schramm, Inc.
Thor Power Tool Co.
Vibro-Plus Products, Inc.
Warsop Power Tools, Inc.
Waver Impactor, Inc.
Worthington Corp.

BACKHOES

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American Hoist & Derrick Co.
Badger Machine Co.
Baldwin-Lima-Hamilton Corp.
Bay City Shovel, Inc.
Browning Crane & Shovel Co.
Bucyrus-Erie Co.
Byers Mfg. Co.
Clark Equipment Co.
Cook Bros. Equipment Co.
Electric Steel Foundry Co.
General-Osgood Co.
Hanson Clutch & Machinery Co.
Harnischfeger Corp.
Hyster Company
Insley Manufacturing Co.
Koehring Co.
Le Roi Company
Link Belt Speeder Corp.
Little Giant Crane & Shovel, Inc.
Marion-Osgood-General
M. P. McCaffrey, Inc.
Oliver Corporation

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Quick-Way Truck Shovel Co.

Schield Bantam Co.
Schram, Inc.
Shawnee Mfg. Co.
The Shovel Co.
Wayne Shovel & Crane Division

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Barber-Greene Co.
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Butler Bin Co.
Bodinson Mfg. Co.
Construction Machinery Co.
Conveyor Company
Gar-Bro Mfg. Co.
Koehring Co.

BATCHERS

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Bucyrus-Erie Co.
Cleveland Trencher Co.
Gardner-Denver Co.
Frank G. Hough Co.
Koehring Co.
Misermobile Distributors, Inc.
Northwest Engineering Co.
Schild Bantam Co.
Shawnee Mfg. Co.

BELT FASTENERS

Conveyor Company
Flexible Steel Lacing Co.

BENDERS

C.H. & E. Mfg. Co.

BINDERS

Butler Bin Company
Conveyor Company
C.S. Johnson Company
Materials Handling, Inc.

BINS

Baldwin-Lima-Hamilton Corp.
Barber-Greene Co.
Baughman Mfg. Co.
Blew Knox Company
Bodinson Mfg. Co.
Butler Bin Company

BOILERS, STEAM

BITUMINOUS HAUL TANKS

E.D. Etnyre & Co.
Gunnison Mfg. Co.
Littleford Bros., Inc.
Rosco Manufacturing Co.

BITUMINOUS MIXING PLANTS

Barber-Greene Co.
F. D. Cummer & Son Co.
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Iowa Manufacturing Co.
Koehring Co.
Kwik-Mix Company
Madsen Iron Works, Inc.
Pioneer Engineering Works
White Mfg. Co.

BLAST CLEANING EQUIPMENT

Sanstrom Mfg. Co.
Victor Equipment Co.

BLOCKS & SHEAVES

American Hoist & Derrick Co.
Gar Wood Industries, Inc.
M. P. McCaffrey, Inc.
Page Engineering Co.
Sauermann Bros.
Owen Bucket Company

BLOWERS

Homelite Corp.
Ingersoll-Rand Co.
Skill Corporation

BOILERS, STEAM

Wm. Bros. Boiler & Mfg. Co.
Cleaver Brooks Co.
Littleford Bros., Inc.
McKiernan-Terry Corp.

BOOMS

Colby Steel & Mfg. Co.
M. P. McCaffrey, Inc.
Pacific Car & Foundry Co.

BOOSTERS

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Pettibone-Mulliken Corp.
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Wellman Engineering Co.

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Inster Mfg. Co.
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Petibone-Mulliken Corp.
Quick-Way Truck Shovel Co.
Sauermaier Bros.
Schield Bantam Co.
Wellman Engineering Co.

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Baker-Lull Corp.
Barber-Greene Co.
Drott Manufacturing Co.
Eagle Crusher Co.
Geo. Heiss Mfg. Co.
Lippman Engineering Works
Mixermobile Distributors, Inc.
Oliver Corp.
Petibone-Mulliken Corp.
Reese Engineering Co.
Schramm, Inc.
Ulrich Products Corp.

BULLCLAMS

Drott Manufacturing Co.
Frank G. Hough Co.

BULLDOZERS

Atlas-Chalmers Mfg. Co.
American Coleman Co.
American Tractor Corp.
Austin-Western Co.
Atlas Scraper & Engineering Co.
Baker Manufacturing Co.
Baker-Lull Corp.
Wm. Bros. Boller & Mfg. Co.
Caterpillar Tractor Co.
Drott Mfg. Co.
Gar Wood Industries, Inc.
Hell Company
LeTourneau-Western Co.
Mixermobile Distributors, Inc.
M-R-S Mfg. Company
Oliver Corp.
Pacific Car & Foundry Co.
Perfection Steel Body Co.
Shawnee Mfg. Co.
West Coast Machinery Co.
Woolridge Mfg. Co.

BULLDOZER BLADES

American Tractor Corp.
Baker-Lull Corp.
Colorado Fuel & Iron Corp.
Electric Steel Foundry Co.
Hell Company
Hensley Equipment Co.
Earle M. Jorgenson Co.
LeTourneau-Western Co.
Oliver Corp.
Pacific Car & Foundry Co.
Rockland Allied Equipment Corp.
Shunk Manufacturing Co.
West Coast Machinery Co.
Wright Power Saw & Tool Co.

C

CABLEWAYS

Bethlehem Pacific Corp.
Columbia-Geneva Steel Co.
Sauermaier Bros.
Superior-Lidgerwood-Mundy Corp.

CAR PULLERS

American Hoist & Derrick Co.
Badinson Mfg. Company
Clyde Iron Works, Inc.
Frank G. Hough Co.
Stephens-Adamson Mfg. Co.
Superior-Lidgerwood-Mundy Corp.

CAR SCOOPS

Butler Bin Company

CHAIN SAWS

Home-life Corp.
Mail Tool Company
McCulloch Motors Corp.
Schramm, Inc.
Skill Corporation

CIRCULATORS

Wm. Bros. Boller & Mfg. Co.

CLAY DIGGERS

Arrow Tools, Inc.
Brunner & Levy, Inc.
Chicago Pneumatic Tool Co.
Gardner-Denver Co.
Ingersoll-Rand Company
Le Roil Division
Schramm, Inc.
Thor Power Tool Co.
Worthington Corp.

CLAY SPADES

Arrow Tools, Inc.
Barco Manufacturing Co.
Brunner & Levy, Inc.
Chicago Pneumatic Tool Co.
Ingersoll-Rand Company
Le Roil Division
Schramm, Inc.
Thor Power Tool Co.
Worthington Corp.

COMPRESSORS

Chicago Pneumatic Tool Co.
Davey Compressor Co.
Essick Manufacturing Co.
Gardner-Denver Company
Ingersoll-Rand Co.
Jaeger Machine Co.
Joy Manufacturing Co.
Le Roil Division
Morse Bros. Machinery Co.
O.K. Clutch & Machinery Div.
Schramm, Inc.
Worthington Corp.

CONCRETE BREAKERS

Arrow Tools, Inc.
Barco Manufacturing Co.
Brunner & Levy, Inc.
Chicago Pneumatic Tool Co.
K.O. Duncan Co.
Eagle Iron Works
Gardner-Denver Co.
Ingersoll-Rand Co.
Joy Manufacturing Co.
Le Roil Division
R.P.B. Corp.
Schramm, Inc.
Thor Power Tool Co.
Warsop Power Tools, Inc.

CONCRETE CARTS

Gar-Bro Mfg. Company
W.E. Grace Mfg. Co.
Insley Manufacturing Co.
Koehring Co.
Kwik-Mix Company
Prime Mover Co.
Whiteman Mfg. Company

CONCRETE FINISHING MACHINES

Blaw Knox Company
Dolmar Industries, Inc.
Flexible Road Joint Machine Co.
Jaeger Machine Company
Koehring Co.
Madsen Iron Works, Inc.
Mail Tool Company
Stow Manufacturing Co.
Whiteman Mfg. Co.

CONCRETE FORM TIES

Economy Forms Co.
Superior Concrete Accessories, Inc.
Symons Clamp Mfg. Co.
Universal Form Clamp Co.

CONCRETE HAULERS

Koehring Co.
Mail Tool Construction Co.
SuPremex, Inc.

CONCRETE HEATERS

Aeroil Products Co., Inc.
Littleford Bros., Inc.
Moretemp Heat Machine Co.

CONCRETE PAVING SPREADERS

Blaw Knox Company
Flexible Road Joint Machine Co.
Foots Co., Div., Blaw-Knox Co.
Jaeger Machine Company
Koehring Co.
Stow Manufacturing Co.
Whiteman Mfg. Company

CONCRETE PLACING EQUIPMENT

Chain Belt Company
Chicago Pneumatic Tool Co.
Construction Machinery Co.
Gar-Bro Mfg. Co.
Insley Manufacturing Co.
Jaeger Machine Company
Koehring Company
Kwik-Mix Company
Mixermobile Distributors, Inc.
Schield Bantam Company
Stow Manufacturing Co.

Continued next column

THEW SHOVEL CO.

Universal Form Clamp Co.
Whiteman Mfg. Co.

CONCRETE SAWS

Clipper Manufacturing Co.
Eveready Brikset Co.
Feller Mfg. Company
Skill Corporation
Thor Power Tool Co.

CONCRETE SURFACERS

Concrete Surfacing Machinery Co.
Flexible Road Joint Machinery Co.
Koehring Company
Mail Tool Company
Stow Manufacturing Co.
Thor Power Tool Co.
Whiteman Mfg. Company

CONVEYORS

Atlas Conveyor Co.
Baldwin-Lima-Hamilton Corp.

Barber-Greene Co.
Baughman Mfg. Co.
Badinson Mfg. Co.
Chain Belt Company

Conveyor Company
Diamond Iron Works

Fairfield Engineering Co.
Geo. F. Heiss Mfg. Co.
Hercules Steel Products Co.

Iowa Mfg. Company
C.S. Johnson Company

Joy Manufacturing Co.
Kolman Mfg. Company

Lippman Engineering Works
Martin Iron Works

Materials Handling, Inc.
Noble Company

Oliver Corp.
Pioneer Engineering Works

Simplicity Engineering Works

Stephens-Adamson Mfg. Co.

Straub Mfg. Company

Tempo Manufacturing Co.
Thew Shovel Company

Universal Engineering Corp.

CRANES

American Hoist & Derrick Co.

Austin-Western Company

Badger Machine Company

Baldwin-Lima-Hamilton Corp.

Browning Crane & Shovel Co.

Buycrus-Erie Company

Byers Manufacturing Co.

Clark Equipment Co.

Clyde Iron Works

Colby Steel & Mfg. Co.

Cook Bros. Equipment Co.

Hornischfeger Corp.

Hughes-Keenan Company

Hyster Co.

Insley Manufacturing Co.

Koehring Company

LeTourneau-Western Co.

Link Belt Speeder Corp.

Little Giant Crane & Shovel Co.,

Manitowoc Engineering Works

Mariion-Osgood-General

Michigan Clark Equipment Co.

Northwest Engineering Co.

Osgood-General

Pacific Car & Foundry Co.

Pettibone-Mulliken Corp.

Pilgrim Manufacturing Co.

Quick-Way Truck Shovel Co.

Schield Bantam Co.

Thew Shovel Co.

Unit Crane & Shovel Corp.

Versatile Hydraulic Co.

Wayne Shovel & Crane Div.

CRANES, TRUCK

American Hoist & Derrick Co.

Austin-Western Company

Badger Machine Co.

Baldwin-Lima-Hamilton Corp.

Browning Crane & Shovel Co.

Buycrus-Erie Co.

Byers Manufacturing Co.

Cook Bros. Equipment Co.

General-Osgood Co.

Koehring Co.

Hanson Clutch & Machinery Co.

Hornischfeger Corp.

Hughes-Keenan Company

Hyster Co.

Insley Manufacturing Co.

Kenworth Motor Truck Corp.

Koehring Co.

Little Giant Crane & Shovel Co., Inc.

Link Belt Speeder Corp.

Northwest Engineering Co.

Pettibone-Mulliken Corp.

Continued next column

QUICK-WAY TRUCK SHOVEL CO.

Skagway Steel & Iron Works

Schield Bantam Co.

Thew Shovel Co.

Unit Crane & Shovel Co.

Versatile Hydraulic Crane Co.

Wayne Shovel & Crane Div.

CRANES, WAGON

American Hoist & Derrick Co.

Baldwin-Lima-Hamilton Corp.

Bay City Shovel Co., Inc.

Browning Crane & Shovel Co.

Byers Mfg. Company

Cook Bros. Equipment Co.

Hanson Clutch & Machinery Co.

Hensler Manufacturing Co.

Link Belt Speeder Corp.

Northwest Engineering Co.

Thew Shovel Co.

Wayne Shovel & Crane Div.

Continued next column

CRAWLERS

Allis-Chalmers Mfg. Co.

American Hoist & Derrick Co.

Auskin-Western Co.

Baldwin-Lima-Hamilton Corp.

Badger Machine Co.

Browning Crane & Shovel Co.

Byers Mfg. Co.

Euclid Div., General Motors Corp.

Hanson Clutch & Machinery Co.

Hornischfeger Corp.

Frank G. Hough Co.

International Harvester Co.

Koehring Co.

Link Belt Speeder Corp.

Little Giant Crane & Shovel, Inc.

Oliver Corp.

Schield Bantam Co.

Thew Shovel Co.

Unit Crane & Shovel Corp.

Continued next column

CRUSHERS

Baldwin-Lima-Hamilton Corp.

Brooks Equipment & Mfg. Co.

Browning Mfg. Co.

Buffalo-Springfield Roller Co.

Diamond Iron Works

Conveyor Company

Eagle, Crusher Co.

Eagle Iron Works

Iowa Manufacturing Co.

Lippman Engineering Works

Morse Bros. Machinery Co.

Nordberg Mfg. Co.

Pioneer Engineering Works

Smith Engineering Works

Stephens-Adamson Mfg. Co.

Straub Mfg. Co.

Tempo Manufacturing Co.

Universal Engineering Corp.

Continued next column

CRUSHING PLANTS

Athens Products Corp.

Baldwin-Lima-Hamilton Corp.

Badinson Mfg. Co.

Conveyor Company

Diamond Iron Works

Geo. Heiss Mfg. Co.

Iowa Manufacturing Co.

Lippman Engineering Works

Nordberg Mfg. Co.

Pioneer Engineering Works

Smith Engineering Works

Stephens-Adamson Mfg. Co.

Taylor Engineering & Mfg. Co.

Universal Engineering Corp.

Continued next column

CRUSHING ROLLS

Baldwin-Lima-Hamilton Corp.

Conveyor Company

Diamond Iron Works

Electric Steel Foundry Co.

Iowa Manufacturing Co.

Lippman Engineering Works

Pioneer Engineering Works

Smith Engineering Works

Stephens-Adamson Mfg. Co.

Taylor Engineering & Mfg. Co.

Universal Engineering Corp.

Continued next column

CULVERTS

Armclo Drainage & Metal Products

CURB & GUTTER FORMS

Blaw Knox Co.

Dolmar Industries, Inc.

Heltzel Steel Form & Iron Corp.

Continued next column

C. I. T. CORPORATION

660 Market Street, San Francisco
416 West 8th Street, Los Angeles
Equitable Building, Portland

D**DANGER BEACONS**
Caliphate Corp.**DEMOLITION TOOLS**

Barco Manufacturing Co.
Brunner & Ley, Inc.
Chicago Pneumatic Tool Co.
K.O. Duncan Co.
Ingersoll-Rand Co.
M.F. McCaffrey, Inc.
Schaeffer, Inc.
Thor Power Tool Co.

DERRICKS

American Hoist & Derrick Co.
Civco Corp. Works
Four Wheel Drive Auto Co.
Sasson Derrick Co.
Stagit Steel & Iron Works
Superior-Lidgerwood-Mundy Corp.

DUST EXTRACTORS, PULP

Chicago Bridge & Iron Corp.
Electric Steel Foundry Co.

DIPPERS

Electric Steel Foundry Co.
Pettibone-Mulliken Corp.
Schiedt Bantam Co.

DITCHERS

Bader Machine Co.
Berger-Green Co.
Bee-Go Manufacturing Co.
Brisco Mfg. Co., Inc.
Cleveland Dresser Co.
Car Wood Industries, Inc.
Graeff Div., Warner-Swasey Co.
Jetclo, Inc.
Kochring Co.
Northwest Engineering Co.
Parsons Company
Shawne Mfg. Co.

DRAGLINES

American Hoist & Derrick Co.
Baldwin-Lima-Hamilton Corp.
Bay City Shovel, Inc.
Bethlehem-Pacific Corp.
Browning Crane & Shovel Co.
Bucyrus-Erie Co.
Bvers Mfg. Co.
Clark Equipment Co. (Const. Div)
Colorado Fuel & Iron Corp.
Cook Bros. Equipment Co.
Electric Steel Foundry Co.
Hanson Clutch & Machinery Co.
Henschkefger Corp.
Hyster Co.
Inslay Manufacturing Co.
Kohring Co.
Link Belt Speeder Corp.
Little Giant Crane & Shovel Co.
Marion-Osgood-General
Northwest Engineering Co.
Page Engineering Co.
Quick-Way Truck Shovel Co.
Schield Bantam Co.
Stagit Steel & Iron Works
The Shovel Co.
Unit Crane & Shovel Corp.
Wayne Shovel & Crane Div.

DREDGING EQUIPMENT

Eagle Iron Works
Essick Manufacturing Co.
Henschkefger Corp.
Hetherington & Berne, Inc.
Little Giant Crane & Shovel Co.
Superior-Lidgerwood-Mundy Corp.
Unit Crane & Shovel Corp.
Wayne Shovel & Crane Div.

DRILLS

Barco Mfg. Co.
Black & Decker Mfg. Co.
Brunner & Ley, Inc.
Bucyrus-Erie Co.
Edu Company
Chicago Pneumatic Tool Co.
Davey Compressor Co.
Feller Mfg. Co.
Gardner-Denver Co.
Ingersoll-Rand Co.
Joy Manufacturing Co.
Le Roi Division
Mail Tool Co.
McCulloch Motors Corp.
Powder Power Tool Corp.
Salem Tool Co.
Skil Corp.
Thor Power Tool Co.
Timken Roller Bearing Co.
Worsop Power Tools, Inc.
Winter-Weiss Co.
Washington Corp.

DUMMIES JOINTS

Buffalo-Springfield Boiler Co.
Flexible Road Joint Machine Co.
DUMP BOATS
Anthony Company
Cook Bros. Equipment Co.
Euclid Div., General Motors Corp.
Galion Allis-Chalmers Body Co.
Car Wood Industries, Inc.
Hercules Steel Products Co.
Hell Company
Marion Metal Products Co.
LeTourneau-Westinghouse Co.
Perfection Steel Body Co.
St. Paul Hydraulic Hoist Div.
Winter-Weiss Co.

DUMP TRAILERS

Anthony Company
Atkey Products Corp.
Bauchman Mfg. Co.
Cook Bros. Equipment Co.
Euclid Div., General Motors Corp.
Galion Allis-Chalmers Body Co.
Car Wood Industries, Inc.
Hell Company
Hercules Steel Products Co.
LeTourneau-Westinghouse Co.
Marion Metal Products Co.
M-R-S Mfg. Co.
Winter-Weiss Co.

DUST COLLECTORS

Clipper Mfg. Co.
Iowa Mfg. Company
Madsen Iron Works

E**EARTH DRILLS**

Buda Company
Chicago Pneumatic Tool Co.
Four Wheel Drive Auto Co.
Mail Tool Co.
McCulloch Motors Corp.
Salem Tool Co.
Schramm, Inc.
Thor Power Tool Co.

ELECTRIC SETS, DIESEL

Caterpillar Tractor Co.
Henschkefger Corp.
Marvel Equipment Co.
D.W. Olsen & Sons, Inc.
Ready Power Co.

ELEVATORS

American Hoist & Derrick Co.
Berger-Green Co.
Budhman Mfg. Co.
Bodinson Mfg. Co.
Butler Bic Company
Colby Steel Form & Iron Co.
Construction Machinery Co.
Conveyor Company
F.D. Cummer & Sons Co.
Hiltzel Steel Form & Iron Co.
Iowa Manufacturing Co.
C.S. Johnson Company
Madsen Iron Works, Inc.
Noble Company
O.K. Machinery Div.
Lippman Engineering Works
Stephens-Adamson Mfg. Co.

ENGINES, AIR COOLED

Briggs & Stratton Corp.
Continental Motors Corp.
Crosley Company
McCulloch Motors Corp.
D.W. Olsen & Sons, Inc.
Wisconsin Motor Co.

ENGINES, DIESEL

Allis-Chalmers Mfg. Co.
Buda Company
Edu Company

Caterpillar Tractor Co.
Chicago Pneumatic Tool Co.
Continental Motors Corp.
Cummins Engine Co.
Detroit Diesel Engine Div.
Henschkefger Corp.

Hercules Motors Corp.
Ingersoll-Rand Co.

International Harvester Co.
Minneapolis-Moline Co.

Murphy Diesel Co.
Nordberg Mfg. Co.

Nova Engine Co.
O.K. Machinery Co.

Powerhouse Mfg. Co.
Winter-Weiss Co.

Waukesha Motor Co.
White Motor Co.

EX-LES. CO.

Alco Diesel Mfg. Co.
Bunting & Sherman Corp.
Edu Company
Edu Company
Goodwells Motors Corp.
Chrysler Corp., Engine Div.
Hercules Motor Corp.
Homelite Corp.
Ingersoll-Rand Co.
Le Roi Division
M.C.C. Corp. Motors Corp.
Minnesota Mining Co.
Nordberg Mfg. Co.
Nova Engine Co.
Oliver Corp.
D.W. Olsen & Sons, Inc.
Waukesha Motor Co.
White Motor Co.

F**FEEDERS, MECHANICAL**

Brown-Boveri Corp.
Budhman Mfg. Co.

Continental Company
Diamond Mfg. Company

East Man Diesel Co.
Foster Fuel Company

General Engineering Works

Jameson Engineering Co.

John Deere Equipment Co.

Stephens-Adamson Mfg. Co.

Stensel Mfg. Co.

Traylor & Harting & Mfg. Co.

Waukesha Products Co.

FLYERS

Chicago Bridge & Iron Co.

Continental Co., Inc.

Edu Company

General Equipment Co.

Marvin Equipment Co.

Master Vibrator Co.

Stephens-Adamson Mfg. Co.

Traylor & Harting & Mfg. Co.

Waukesha Products Co.

FLYING MACHINES

Berger-Green Co.

Black & Decker Co.

Continental Company

Flexible Road Joint Machine Co.

Foots Co., Div., Blaw-Knox Co.

Iowa Manufacturing Co.

Jester Machine Co.

Koerting Co.

Madsen Iron Works, Inc.

Waukesha Mfg. Co.

FLYING APPARATUS

Four Wheel Drive Auto Co.

Kennedy Motor Truck Corp.

Marvin Motor Truck Co.

McGill, Inc. Monitors Co.

Stephens-Adamson Mfg. Co.

FLYING CRANES

Continental Co., Inc.

Edu Company

General Engineering Works

Jameson Engineering Co.

Stephens-Adamson Mfg. Co.

Traylor & Harting & Mfg. Co.

Waukesha Products Co.

GRAVEL PLANTS

Baldwin-Lima-Hamilton Corp.
Bodinson Mfg. Co.
Butler Bin Co.
Conveyor Company
Diamond Iron Works
Eagle Iron Works
Iowa Manufacturing Co.
Lippman Engineering Works
Materials Handling, Inc.
Pioneer Engineering Works
Smith Engineering Works
Straub Mfg. Co.
Tampa Manufacturing Co.
The Shovel Co.
Universal Engineering Corp.

GRINDERS

Black & Decker Mfg. Co.
Chicago Pneumatic Tool Co.
Dewalt, Inc.
Ingersoll-Rand Co.
Lippman Engineering Works
Mall Tool Company
Marvel Equipment Co.
Nordberg Mfg. Company
Skill Corporation
Stow Manufacturing Co.
Straub Mfg. Co.
Thor Power Tool Co.
White Manufacturing Co.
Whiteman Mfg. Co.

GRIZZLIES

Colorado Fuel & Iron Corp.
Conway Co.
Diamond Iron Works
Iowa Manufacturing Co.
Lippman Engineering Works
Nordberg Mfg. Co.
Simplicity Engineering Co.
Smith Engineering Works
Straub Mfg. Co.
Symons Bros. Co.
Taylor Engineering & Mfg. Co.
Universal Engineering Corp.

GRUBBER BLADES

Rockland Allied Equipment Corp.
Drott Manufacturing Co.

H

HAMMERS

Arrow Tools, Inc.
Barco Manufacturing Co.
Black & Decker Mfg. Co.
Dotmar Industries, Inc.
Electric Steel Foundry Co.
Master Vibrator Co.
McKernan-Terry Corp.
Skill Corp.
Thor Power Tool Co.
Vulcan Iron Works

HAMMERMILLS

Brooks Equipment & Mfg. Co.
Diamond Iron Works
Eagle Crusher Co.
Geo. Heiss Mfg. Co.
Iowa Manufacturing Co.
Lippman Engineering Works
Morse Bros. Machinery Co.
Universal Engineering Corp.

HAND WINCHES

American Hoist & Derrick Co.
Clyde Iron Works, Inc.
Skagit Steel & Iron Works
Stephens-Adamson Mfg. Co.

HEATERS, PORTABLE

American Air Filter Co.
Herman Nelson Div.
Arthur Baughman Co.
Cleaver Brooks Co.
International Mfg. Co.
Jackson Vibrators, Inc.
Madsen Iron Works, Inc.
Malsbury Mfg. Co.
Silent Glow Oil Burner Corp.

HIGHWAY & STREET MARKERS

Cataphote Corp.
Meili-Blumberg Co.

HIGHWAY GUARD RAIL

U.S. Spring & Bumper Co.

HIGHWAY WIDENERS

Burch Corporation
Dotmar Industries, Inc.
Ulrich Products Corp.

Whiteman Mfg. Co.

HOISTS

American Hoist & Derrick Co.
Anthony Company
Beebe Bros.
Brooks Equipment & Mfg. Co.
C. H. & E. Mfg. Co.
Chicago Pneumatic Tool Co.
Clipper Manufacturing Co.
Clyde Iron Works, Inc.
Coffing Hoist Company
Construction Machinery Co.
Cook Bros. Equipment Co.
Essick Manufacturing Co.
Galion Allsteel Body Co.
Gar Wood Industries, Inc.
Gripholst, Inc.
Harnischfeger Corp.
Heil Company
Hercules Steel Products Co.
Hyster Co.
Ingersoll-Rand Co.
Jaeger Machine Co.
Joy Manufacturing Co.
LeTourneau-Westernhouse Co.
Morse Bros. Machinery Co.
Nordberg Mfg. Co.
Novo Engine Co.
O.K. Machinery Division
Pacific Car & Foundry Co.
Perfection Steel Body Co.
Sauerman Bros., Inc.
St. Paul Hydraulic Div.
Sassen Derrick Co.
Skagit Steel & Iron Works
Stephens-Adamson Mfg. Co.
Sterling Machinery Co.
Superior-Lidderwood-Mundy Co.
Thomas Hoist Co.
Thor Power Tool Co.
Unit Manufacturing Co.
Versatile Hydraulic Crane Co.

HOPPERS

Barber-Greene Co.
Blaw Knox Co.
Bodinson Manufacturing Co.
Butler Bin Company
Conveyor Company
Gar Wood Industries, Inc.
Gar-Bro Mfg. Co.
Heltzel Steel Farm & Iron Co.
Inslay Manufacturing Co.
Koehring Co.
Noble Company
Lippman Engineering Works

HYDRAULIC COUPLINGS

American Tractor Equipment Corp.
Chiksan Company
Dixon Valve & Coupling Co.
Oliver Corporation
Twin Disc Clutch Co.
Ulrich Products Corp.

J

JACKS

Branick Manufacturing Co.
Bude Company
Duff Norton Mfg. Co.
Koehring Co.
Symons Clamp Mfg. Co.
Templeton, Kenly & Co.
Universal Mfg. Co.

JAW CRUSHERS

Baldwin-Lima-Hamilton Corp.
Brooks Equipment & Mfg. Co.
Conveyor Company
Diamond Iron Works
Eagle Crusher Co.
Iowa Manufacturing Co.
Lippman Engineering Works
Morse Bros. Machinery Co.
Nordberg Mfg. Co.
Pioneer Engineering Works
Smith Engineering Works
Straub Mfg. Company
Taylor Engineering & Mfg. Co.
Universal Engineering Corp.

JOINT INSTALLERS

Flexible Road Joint Machine Co.

K

KETTLES, HEATING

Aeroll Products Co., Inc.
Blaw Knox Company
Heuck Mfg. Co.
Littleford Bros., Inc.
Rosco Manufacturing Co.
Salem Tool Company
Standard Steel Works
White Manufacturing Co.

KILNS

Madsen Iron Works, Inc.
Morse Bros. Machinery Co.
Nordberg Mfg. Co.
Taylor Engineering & Mfg. Co.

L

LEAF COLLECTORS

Austin-Western Co.
Gledhill Road Machinery Co.
Good Roads Machinery Co.
Wayne Manufacturing Co.

LEVELERS

American Tractor Corp.
Atlas Scraper & Mfg. Co.
Be-Ge Manufacturing Co.
Essick Mfg. Co.
Gledhill Road Machinery Co.
Oliver Corp.

LIFT GATES

Anthony Co.
Galion Allsteel Body Co.
Gar Wood Industries, Inc.
Hercules Steel Products Co.
Merlin Metal Products Co.
S. Morgan Smith Co.
St. Paul Hydraulic Div.
Winter-Weiss Co.

LIGHTING PLANTS

Harnischfeger Corp.
D.W. Oan & Sons, Inc.
Ready Power Co., Inc.
U.S. Motors Corp.

LOADERS

Allis-Chalmers Co.
J.D. Adams Mfg. Co.
American Coleman Co.
American Tractor Corp.
Athey Products Corp.
Austin-Western Company
Badger Machine Co.
Baker-Lull Corp.
Barber-Greene Co.
Brooks Equipment & Mfg. Co.
J. L. Case Co.
Clark Equipment Co.
Drott Manufacturing Co.
Eagle Crusher Co.
Elmco Corp.
Euclid Div., General Motors Corp
General Motors Div., Euclid
Geo. Heiss Mfg. Co.
Harnischfeger Corp.
Frank G. Hough Co.
Hyster Co.

Jaeger Machine Company
Joy Manufacturing Co.
Lippman Engineering Works
Minneapolis-Moline Co.

Mixermobile Distributors, Inc.
Oliver Corp.
Perfection Steel Body Co.
Pettibone Mulliken Corp.
Oliver Corp.
Reese Engineering Co.
Schramm, Inc.
Skagit Steel & Iron Works
Stephens-Adamson Mfg. Co.
Tractomat Corp.
Ulrich Products Corp.
Versatile Hydraulic Crane Co.
West Coast Machinery Co.

LOGGING ARCHES

Hyter Co.
LeTourneau-Westernhouse Co.
Pacific Car & Foundry Co.

M

MAGNETS

Austin-Western Co.
Owen Bucket Co.
Schield Bantam Co.
F.W. Shrader Co.

MAGNET CHARGERS

D.W. Oan & Sons, Inc.
Ready Power Co.

MAGNET REELS

McCaffrey-Ruddock Tagline Corp.
Owen Bucket Co.

MAINTAINERS

Austin-Western Co.
Burch Corporation
Galion Iron Works & Mfg. Co.
Gledhill Road Machinery Co.

Continued next column

Huber Manufacturing Co.
Meili-Blumberg Corp.
Oliver Corp.
Tractionotive Corp.

MIXERS

Barber-Greene Company
Chain Belt Company
C. H. & E. Mfg. Co.
Concrete Transport Mixer Co.
Construction Machinery Co.
Cook Bros. Equipment Co.
Dorr-Oliver, Inc.
Essick Manufacturing Co.
Foote Co. Div., Blaw Knox Co.
Gibson Bros. Co.
Iowa Manufacturing Co.
Jaeger Machine Company
Koehring Co.
C. S. Johnson Co.
Kwik-Mix Company
Madsen Iron Works, Inc.
Merlin Iron Works
Mixermobile Distributors, Inc.
Seaman Motors, Inc.
T. L. Smith Co.
Stephens-Adamson Mfg. Co.
SuPremex, Inc.
Worthington Corp.

MIXING PLANTS

Barber-Greene Co.
Blaw Knox Co.
Bodinson Mfg. Co.
Butler Bin Company
Concrete Transport Mixer Co.
Construction Machinery Co.
Cook Bros. Equipment Co.
Conveyor Company
Heltzel Steel Form & Iron Co.
Iowa Manufacturing Co.
C.S. Johnson Co.
Kwik-Mix Company
Mixermobile Distributors, Inc.
Noble Company
SuPremex, Inc.

MUD JACKS

Koehring Co.

O

OIL BURNERS

Aeroll Products Co., Inc.
Cleaver Brooks Co.
Littleford Bros., Inc.

OIL BOOSTERS

Cleaver Brooks Co.

P

PAVERS

Berber-Greene Co.
Blaw Knox Co.
Burch Corporation
Chain Belt Company
Dolmar Industries, Inc.
Doug-Lynn Mfg. Co.
Foote Construction Equipment Co.
Hetherington & Bowers, Inc.
Iowa Manufacturing Co.
Jaeger Machine Co.
Koehring Co.
Pioneer Engineering Works
Worthington Corp.

PAVEMENT BREAKERS

Arrow Tools, Inc.
Barco Manufacturing Co.
Brunner & Levy, Inc.
Chicago Pneumatic Tool Co.
Gardner-Denver Co.
Ingersoll-Rand Co.
Joy Manufacturing Co.
Le Rol Division
Novo Engine Company
R. P. B. Corp.
Rockland Allied Equipment Corp.
Schramm, Inc.
Thor Power Tool Co.
Warsaw Power Tools, Inc.
Worthington Corp.

PAVING FORMS

Blaw Knox Co.
Heltzel Steel Form & Iron Co.

PEN STOCKS

Chicago Bridge & Iron Corp.

PILE EXTRACTORS

Contractors Machinery Co.
McKernan-Terry Corp.
Vulcan Iron Works

C. I. T. CORPORATION

660 Market Street, San Francisco
416 West 8th Street, Los Angeles
Equitable Building, Portland

PILE HAMMERS

Browning Crane & Shovel Co.
Clyde Iron Works, Inc.
Consolidated Machinery & Supply
Contractors Machinery Co.
Eagle Iron Works
Little Giant Crane & Shovel Co.
McKinnon-Terry Corp.
Schield Bantam Co.
Schramm, Inc.
Vulcan Iron Works

PILES, STEEL

Arco Drainage & Metal Prod. Co.
Bethlehem Pacific Corp.
Columbia-Geneva Steel Co.
Contractors Machinery Co.
L. B. Foster Co.

POWER CONTROL UNITS

Allis-Chalmers Mfg. Co.
Be-Ge Manufacturing Company
Baker Manufacturing Co.
Caterpillar Tractor Co.
Hell Company
International Harvester Co.
Kay Brunner Steel Prod. Co.
Le Tourneau-Westinghouse Co.
Monarch Road Machy. Co.
Oliver Corp.
Pacific Car & Foundry Co.
West Coast Machinery Co.
Woolridge Mfg. Co.

POWER PLANTS

Detroit Diesel Engine Div.
Electric Tamper & Equipment Co.
Fairfield Engineering Co.
Henschelfeiger Corp.
Hobart Bros.
Homelite Corp.
Jackson Vibrators, Inc.
Kohler Company
Le Tourneau-Westinghouse Co.
Master Vibrator Co.
Maginnis Power Tool Co.
Morse Bros. Machinery Co.
Nordberg Mfg. Co.
D.W. Chan & Sons, Inc.
Ready Power Co.
Stephens-Adamson Mfg. Co.

POWDER ACTUATED TOOLS

Powder Power Tool Corp.
Remington Arms, Inc.
Ramsell Fasteners, Inc.

POWER TAKE-OFFS

American Coleman Co.
American Tractor Corp.
Continental Motor Corp.
Davey Compressor Co.
Gar Wood Industries, Inc.
Hercules Steel Products Corp.
Perfection Steel Body Co.
Twin Disc Clutch Co.
Winter-Weiss Co.

PRE-FABRICATED HOMES

Henschelfeiger Corp.

PRIME MOVERS

American Coleman Co.
Frank G. Hough Co.
Kenworth Motor Truck Corp.
Le Tourneau-Westinghouse Co.
Prime Mover Co.

PULL SHOVELS

American Hoist & Derrick Co.
Bedger Machine Co.
Baldwin-Lima-Hamilton Corp.
Bay City Shovel, Inc.
Browning Crane & Shovel Co.
Bucyrus-Erie Co.
Byers Mfg. Co.
Clark Equipment Co.
Hanson Clutch & Machinery Co.
Henschelfeiger Corp.
Inslay Manufacturing Co.
Koehring Co.
Link Belt Speeder Corp.
Marion-Osgood-General
Northwest Engineering Co.
Quick-Way Truck Shovel Co.
Schield Bantam Co.
Tew Shovel Co.
Unit Crane & Shovel Corp.
Wayne Shovel & Crane Div.

PULVERIZERS

Eagle Crusher Company
Brooks Equipment & Mfg. Co.
Gillson Bros. Company
Iowa Manufacturing Co.
Lippman Engineering Works
Morse Bros. Machinery Co.
Oliver Corp.
Perfection Steel Body Co.
Seaman Motors, Inc.
Straub Mfg. Co.
Universal Engineering Co.

PLUMPS, POWER

Barnes Manufacturing Co.
Berkeley Pump Company
Ralph B. Carter Co.
Carver Pump Co.
Chain Belt Co.
C. H. & E. Mfg. Co.
Chicago Pneumatic Tool Co.
Construction Machinery Co.
Continental Motors Corp.
Dorr-Oliver, Inc.
Elliott Manufacturing Co.
Gardner-Denver Co.
Gorman-Rupp Co.
Homelite Corp.
Ingersoll-Rand Co.
Jaeger Machine Co.
Lincoln Engineering Co.
Mall Tool Co.
Marlow Pumps
Morse Bros. Machinery Co.
McCulloch Motors Corp.
Novo Engine Co.
Pacific Pumping Co.
Peerless Pump Div.
Quincy Compressor Co.
S. Morgan Smith Co.
Sterling Machinery Co.
Thor Power Tool Co.
Viking Pump Co.
Wausau Iron Works
Worthington Corp.

R

RAMMERS

Barco Manufacturing Co.
Chicago Pneumatic Tool Co.
Ingersoll-Rand Co.
Jaeger Machine Co.
Wersop Power Tools, Inc.

REFLECTOR BUTTONS

Cataphote Corp.

REFUSE COLLECTION UNITS

Brooks Equipment & Mfg. Co.
Gar Wood Industries, Inc.
Good Roads Machinery Co.
Hell Company
Marion Metal Products Co.
St. Paul Hydraulic Div.

RIPPERS

American Tractor Corp.
Atlas Scraper & Engineering Co.
Baker Mfg. Company
Caterpillar Tractor Co.
Drott Mfg. Company
Electric Steel Foundry Co.
Gar Wood Industries, Inc.
Hensley Equipment Co.
Le Tourneau-Westinghouse Co.
Los Angeles Steel Casting Co.
Pacific Car & Foundry Co.
Rockland Allied Equipment Corp.
Southwest Welding & Mfg. Co.
Tractomatic Corp.
Woolridge Mfg. Co.

ROAD MIXERS

Austin-Western Co.
Barber-Greene Co.
Burch Corp.
Footh Co., Div. Blaw Knox Co.
Henschelfeiger Corp.
Kwik-Mix Company
Pettibone-Wood Mfg. Co.
Seaman Motors, Inc.

ROCK BITS

Brunner & Lay, Inc.
Chicago Pneumatic Tool Co.
Hensley Equipment Co.
Ingersoll-Rand Co.
Earle M. Jorgensen Co.
Le Roi Div.
Schramm, Inc.
Timken Roller Bearing Co.
Thor Power Tool Co.
Winter-Weiss Co.

ROCK DRILLS

Barco Mfg. Co.
Chicago Pneumatic Tool Co.
Davey Compressor Co.
Eugene Engineering Co.
Gardner-Denver Co.
Ingersoll-Rand Co.
Joy Manufacturing Co.
Le Roi Division
Salem Tool Co.
Schramm, Inc.
Thor Power Tool Co.
Wersop Power Tools, Inc.
Winter-Weiss Co.
Worthington Corp.

ROCKER SHOVELS

Elmco Corp.
ROCK & GRAVEL EQUIPMENT
Baldwin-Lima-Hamilton Corp.
Bodinson Mfg. Co.
Butler Bin Co.
Conveyor Company
Diamond Iron Works
Eagle Iron Works
Geo. Haiss Mfg. Co.
Frank G. Hough Co.
Iowa Manufacturing Co.
Lippman Engineering Works
Pioneer Engineering Works
Smith Engineering Works
Straub Manufacturing Co.
Tew Shovel Co.
Unit Crane & Shovel Co.
Universal Engineering Corp.

ROCK & SAND DRYERS

Bodinson Mfg. Co.
Conveyor Company
Iowa Manufacturing Co.
Madsen Iron Works
Pioneer Engineering Works

ROLLERS, ROAD

All Purpose Spreader Co., Inc.
Austin-Western Co.
Wm. Bros. Boiler & Mfg. Co.
Buffalo-Springfield Roller Co.
C. H. & E. Mfg. Co.
Clyde Iron Works
Elliott Manufacturing Co.
Gallion Iron Works & Mfg. Co.
W.E. Grace Mfg. Company
Iowa Manufacturing Co.
Hensley Equipment Co.
Huber Manufacturing Co.
Hyster Co.
Le Tourneau-Westinghouse Co.
Browning Mfg. Co.
Littleford Bros., Inc.
Southwest Welding & Mfg. Co.
Tampa Mfg. Co.

ROTARY SNOW PLOWS

J. D. Adams Mfg. Co.
Austin-Western Co.
Wm. Bros. Boiler & Mfg. Co.
Four Wheel Drive Auto Co.
Oliver Corp.
Ulrich Products Corp.
Walter Motor Truck Co.

S

SAND BLASTING EQUIPMENT

Sanstron Mfg. Co.
Schramm, Inc.
Victor Equipment Co.

SAWS, POWER

Black & Decker Mfg. Co.
C. H. & E. Mfg. Co.
Chicago Pneumatic Tool Co.
Clipper Mfg. Co.
Consolidated Machinery & Supply
Construction Machinery Co.
Dewalt, Inc.
Felker Mfg. Company
Homelite Corp.
McCulloch Motors Corp.
Mall Tool Co.
Oliver Corp.
Skil Corp.
Thor Power Tool Co.
Wright Power Saw & Tool Co.

SAW RIGS

C. H. & E. Mfg. Co.
Marvel Equipment Co.
Oliver Corp.

SCALES, CONTRACTORS

Butler Bin Co.
Construction Machinery Co.
Conveyor Company
C. S. Johnson Co.
L. R. Murphy Co.

SCAFFOLDING

Universal Mfg. Corp.

SCARIFIER TEETH

J. D. Adams Mfg. Co.
American Tractor Corp.
Austin-Western Co.
Baker Manufacturing Co.
Drott Mfg. Co.
Electric Steel Foundry Co.
Gallion Iron Works & Mfg. Co.
H & L Tool Co.
Hensley Equipment Co.
Rockland Allied Equipment Corp.
Shunk Mfg. Co.

SCRAPERS

Allis-Chalmers Mfg. Co.
American Tractor Equipment Corp.
Atlas Scraper & Engineering Co.
Geo-C Manufacturing Co.
Burch Corporation
Caterpillar Tractor Co.
Colorado Fuel & Iron Corp.
Elenco Corp.
Euclid Div., G. M. C.
Ger Wood Industries, Inc.
Good Roads Machinery Co.
Hell Company
Le Tourneau-Westinghouse Co.
Oliver Corp.
Seemann Bros.
Southwest Welding & Mfg. Co.
Woolridge Mfg. Co.

SCREENS

Baldwin-Lima-Hamilton Corp.
Bodinson Mfg. Co.
Colorado Fuel & Iron Corp.
Conveyor Company
Diamond Iron Works
Iowa Manufacturing Co.
Kolmen Mfg. Co.
Lippman Engineering Works
Morse Bros. Machinery Co.
Nordberg Mfg. Co.
Overstrom & Sons
Pioneer Engineering Works
Screen Equipment, Inc.
Simplicity Engineering Co.
Smith Engineering Works
Stephens-Adamson Mfg. Co.
Straub Manufacturing Co.
Symons Bros. Co.
Universal Engineering Corp.

SHEEPFOOT ROLLERS

Baker Manufacturing Co.
Wm. Bros. Boiler & Mfg. Co.
Browning Mfg. Co.
Electric Steel Foundry Co.
Le Tourneau-Westinghouse Co.
Los Angeles Steel Casting Co.
M. P. McCaffrey, Inc.
Southwest Welding & Mfg. Co.
Tampa Mfg. Co.

SHOVELS, POWER

American Hoist & Derrick Co.
Austin-Western Co.
Badger Machine Co.
Baldwin-Lima-Hamilton Corp.
Bay City Shovel, Inc.
Browning Crane & Shovel Co.
Bucyrus-Erie Co.
Byers Mfg. Co.
Caterpillar Tractor Co.
Clark Equipment Co. (Michigan)
Cook Bros. Equipment Co.
Gar Wood Industries, Inc.
Hanson Clutch & Machinery Co.
Henschelfeiger Corp.
Inslay Mfg. Co.
Koehring Company
Link Belt Speeder Corp.
Little Giant Crane & Shovel, Inc.
Manitowoc Engineering Works
Marion-Osgood-General
Northwest Engineering Co.
Quick-Way Truck Shovel Co.
Schield Bantam Co.
Schramm, Inc.
Tew Shovel Co.
Tractomatic Corp.
Unit Crane & Shovel Co.,
Wayne Shovel & Crane Div.

SIDE WALK FORMS

Blaw Knox Co.

SIDE WALK PAVERS

Domtar Industries, Inc.

Koehring Co.

SKID LOADERS

Drott Manufacturing Co.
Reese Engineering Co.
Hyster Co.

SMOKE STACKS

Wm. Bros. Boiler & Mfg. Co.
Chicago Bridge & Iron Corp.

SNAP TIES

Economy Forms Co.
Superior Concrete Accessories,
Symons Clamp & Mfg. Co.,
Universal Form Clamp Co.

**C. I. T. specializes in financing equipment
for Distributors and Contractors**

SNOW PLOWS

J.D. Adams Mfg. Co.
American Tractor Corp.
Atlas Scraper & Engineering Co.
Austin-Western Co.
Baker Manufacturing Co.
Wm. Bros. Boiler & Mfg. Co.
Burch Corporation
Colorado Fuel & Iron Corp.
Four Wheel Drive Auto Co.
Gleddill Road Machinery Co.
Good Roads Machinery Co.
Krauer Mfg. Co.
Le Tourneau-Westinghouse Co.
Oliver Corp.
Schramm, Inc.
Ulrich Products Corp.
Walter Motor Truck Co.
Wausau Iron Works

SNOW VEHICLES

American Coleman Co.
Tucker Sno-Cat Corp.
Walter Motor Truck Co.

SOIL COMPACTION UNITS

Austin-Western Co.
Baker Manufacturing Co.
Barco Manufacturing Co.
Wm. Bros. Boiler & Mfg. Co.
Buffalo-Springfield Roller Co.
Electric Tamper & Equipment Co.
W.E. Grace Mfg. Co.
Iowa Manufacturing Co.
Jackson Vibrators, Inc.
Le Tourneau-Westinghouse Co.
Tampa Manufacturing Co.
Vibro-Plus Products, Inc.
Weyer Impactor, Inc.

SOIL STABILIZERS

Austin-Western Co.
Harnischfeger Corp.
Hercules Steel Products Corp.
Rosco Manufacturing Co.
Seaman Motors, Inc.

SPREADERS

Baughman Mfg. Co.
Blaw Knox Co.
Burch Corporation
Essick Mfg. Co.
Foot Co., Div. of Blaw Knox Co.
Gleddill Road Machinery Co.
Good Roads Machinery Co.
Hercules Steel Products Co.
Highway Equipment Company
Jaeger Machine Company
Standard Steel Works
Wausau Iron Works

STAND PIPES

Chicago Bridge & Iron Corp.

STEAM GENERATORS

Wm. Bros. Boiler & Mfg. Co.
Cleaver Brooks Co.
Littleford Bros., Inc.
Madsen Iron Works, Inc.
Malsbury Mfg. Co.
McKernan Terry Corp.
Morse Bros. Machinery Co.

STEERING DEVICES

Garrison Mfg. Co.
Superior-Lidderwood-Mundy Corp.

STOPAGE BINS

Blaw Knox Company
Bodinson Mfg. Co.
Butler Bin Company
Chicago Bridge & Iron Co.
Construction Machinery Co.
Conveyor Company
Diamond Iron Works
Car-Bro Mfg. Co.
Heltzel Steel Form & Iron Co.
Iowa Manufacturing Co.
C.S. Johnson Co.
Koehring Co.
Lippman Engineering Works
Noble Company
Pioneer Engineering Works
Tampa Manufacturing Co.
Universal Engineering Corp.

STREET & HIGHWAY MARKERS

Cataphote Corp.
Melli-Blumberg Co.

STREET FLUSHERS

E.D. Etnyre & Co.
Gunnison Mfg. Co.
Hell Company
Municipal Supply Co.
Rosco Manufacturing Co.
Standard Steel Works

STREET SWEEPERS

Austin-Western Co.
Baker-Lull Mfg. Co.
Conveyor Company
W.E. Grace Manufacturing Co.
Municipal Supply Co.
Rosco Manufacturing Co.
Standard Steel Works
Wayne Mfg. Company

SUB GRADERS

Austin-Western Company
Blaw Knox Company

SUMP PUMPS

Chicago Pneumatic Tool Co.
Ingersoll-Rand Co.
Mell Tool Company
Schramm, Inc.
Sterling Machinery Co.
Thor Power Tool Co.

T

TAGLINES

McCaffrey-Ruddock Tealine Corp.

TAMPERS

Barco Manufacturing Co.
Wm. Bros. Boiler & Mfg. Co.
Brunner & Ley, Inc.
Chicago Pneumatic Tool Co.
Cleveland Trencher Co.
Electric Tamper & Equipment Co.
Gar-Bro Mfg. Co.
Gardner-Denver Co.
Gunderson-Taylor Machine Co.
Ingersoll-Rand Co.
Jackson Vibrators, Inc.
Joy Manufacturing Co.
Le Roi Division
Master Vibrator Co.
R.P.B. Corp.
Schramm, Inc.
Thor Power Tool Co.
Vibro-Plus Products, Inc.
Weyer Impactor, Inc.
Whiteman Mfg. Company
Worthington Corp.

TAMPING ROLLERS

American Tractor Equipment Co.
Baker Manufacturing Co.
Blaw Knox Co.
Wm. Bros. Boiler & Mfg. Co.
W.E. Grace Manufacturing Co.
Hyster Co.
Iowa Manufacturing Co.
Lewis-Browning Mfg. Co.
Tampa Manufacturing Co.

TANDEM ROLLERS

Austin-Western Co.
Baker Manufacturing Co.
Buffalo-Springfield Roller Co.
C. H. & E. Mfg. Co.
Clyde Iron Works, Inc.
Essick Manufacturing Co.
Gallion Iron Works & Mfg. Co.
Lewis-Browning Mfg. Co.
W. A. Riddell Co.
Tampa Manufacturing Co.

TANKS

Wm. Bros. Boiler & Mfg. Co.
Chicago Bridge & Iron Co.
Lippman Engineering Works
Littleford Bros., Inc.
Morse Bros. Mfg. Co.

TANK CAR HEATERS

W. Bros. Boiler & Mfg. Co.
Cleaver Brooks Company
W.E. Grace Mfg. Company
Littleford Bros., Inc.

TRACTORS

Allis-Chalmers Mfg. Co.
American Coleman Co.
American Tractor Corp.
Buda Co. (Industrial)
J.I. Case Co.
Caterpillar Tractor Co.
Euclid Division, General Motors
Four Wheel Drive Auto Co.
Harris Manufacturing Co.
International Harvester Co.
Le Roi Company
Le Tourneau-Westinghouse Co.
Frank G. Hough Co.
Minneapolis-Moline Co.
Mixermobile Distributors, Inc.
M.R.S. Manufacturing Co.
Oliver Corporation
Reese Engineering Co.
Wausau Iron Works

TRAFFIC LANE MARKERS

Cataphote Corp.
Gleddill Road Machinery Co.
Melli-Blumberg Corp.

TRAFFIC SIGNS

Cataphote Corp.
W.E. Grace Manufacturing Co.

TRAILERS

American Tractor Corp.
Athey Products Corp.
Cleveland Trencher Co.
Cook Bros. Equipment Co.
Euclid Div., General Motors Corp.
Foster Tractor Company
Four Wheel Drive Auto Co.
Fruehauf Tractor Co.
Gallion Allsteel Body Co.
Hanson Clutch & Machinery Co.
John Deere Division
La Crosse Tractor Corp.
Le Tourneau-Westinghouse Co.
Martin Machine Co.
Melli-Blumberg Corp.
Perfection Steel Body Co.
Rogers Bros. Corp.
Selma Manufacturing Co.
Trallmobile, Inc.
Utility Trailer Mfg. Co.
Winter-Weiss Co.

TRANSMISSIONS

Fuller Manufacturing Co.
Stephens-Adamson Mfg. Co.
Winter Weiss Company

TRENCHERS

Badger Machine Co.
Berger-Green Co.
Be-M Manufacturing Co.
Byers Mfg. Company
Cleveland Trencher Co.
Gar Wood Industries, Inc.
Gradall Division, Werner Swayze Jetco, Inc.
Jor Manufacturing Co.
Koehring Co.
Northwest Engineering Co.
Oliver Corporation
Parsons Company
Quick-Way Truck Shovel Co.
Shawnee Mfg. Company

TRENCH HOES

Badger Machine Co.
Baldwin-Lima-Hamilton Corp.
Bay City Shovel, Inc.
Browning Crane & Shovel Co.
Bucyrus-Erie Co.
Byers Mfg. Co.

Clark Equipment Co.
Cook Bros. Equipment Co.
Gradall Div., Werner & Swayze Co.
Hanson Clutch & Machinery Co.
Harnischfeger Corp.
Insley Manufacturing Co.
Koehring Co.
Little Giant Crane & Shovel, Inc.
Link Belt Speeder Corp.
Marion-Osagood-General
Northwest Engineering Co.
Quick-Way Truck Shovel Co.
Schield Bantam Co. ..
The Shovel Co.
Wayne Crane Division

TUNNEL & DAM FORMS

Blaw Knox Co.
Chicago Bridge & Iron Corp.
Conveyor Company
Irvington Form & Tank Co.
Superior Concrete Accessories,
Symons Clamp Mfg. Co.

V

VACUUM FILTERS

Chicago Bridge & Iron Co.
Dorr-Oliver, Inc.
Elmo Corp.

VALVES

American Tractor Equipment Corp.
Atlas Scraper & Engineering Co.
Brinck Mfg. Company
Dixon Valve & Coupling Co.
Garrison Mfg. Co.
Madsen Iron Works, Inc.
Martin Iron Works
Reese Engineering Co.
S. Morgan Smith Co.

VIBRATORS

Blaw Knox Co.
Butler Bin Company
Chicago Pneumatic Tool Co.
Conveyor Company
Drever Vibrator Co.
Electric Tamper & Equipment Co.
Gar-Bro Mfg. Co.

Continued next page

TRUCK BEDS

Anthony Company
Baughman Mfg. Co.
Cook Bros. Equipment Co.
Fruehauf Tractor Co.
Gallion Allsteel Body Co.
Gar Wood Industries, Inc.
Hell Company

Continued next column

C. I. T. CORPORATION
660 Market Street, San Francisco
Equitable Building, Portland
416 West 8th Street, Los Angeles

VIBRATORS, Continued

Ingersoll-Rand Company
Jackson Vibrators, Inc.
Maginnis Power Tool Co.
Mail Tool Company
Marvel Equipment Co.
Master Vibrator Co.
Overstrom & Sons
Stephens-Adamson Mfg. Co.
Stow Manufacturing Co.
Thor Power Tool Co.
Viber Company
Vibro-Plus Products, Inc.
Wayer Impactor, Inc.
White Manufacturing Co.
Whiteman Mfg. Company

VIBRATORY SCREEDS

Blaw Knox Company
Bodinson Mfg. Company
F.D. Summer & Son Company
Electric Tamper & Equipment Co.
Iowa Manufacturing Co.
Jackson Vibrators, Inc.
Master Vibrator Co.
Lippman Engineering Works
Simplicity Engineering Co.
Smith Engineering Works
Stow Manufacturing Co.
Vibro-Plus Products, Inc.

WAGONS

Allis-Chalmers Mfg. Co.
Athey Products Corp.
Caterpillar Tractor Co.
C & D Manufacturing Co.
Dart Truck Company
Inslay Manufacturing Co.
M.R.S. Mfg. Company
Oliver Corp.
Perfection Steel Body Co.
Selma Trailer & Mfg. Co.
Southwest Welding & Mfg. Co.
Wooldridge Mfg. Co.

WAGON CRANES

American Hoist & Derrick Co.
Bay City Shovel, Inc.
Browning Crane & Shovel Co.
Clark Equipment Co.
Cook Bros. Equipment Co.
Hanson Clutch & Maching Co.
Inslay Manufacturing Co.
Link Belt Speeder Corp.
Northwest Engineering Co.
Unit Crane & Shovel Corp.
Wayne Shovel & Crane Division

WAGON DRILLS

Brunner & Lay, Inc.
Chicago Pneumatic Tool Co.
Gardner-Denver Co.
Ingersoll-Rand Co.
Joy Manufacturing Co.
Le Roil Division
Schramm, Inc.
Thor Power Tool Co.
Versatile Hydraulic Crane Co.
Worthington Corp.

WASHING PLANTS

Baldwin-Lima-Hamilton Corp.
Bodinson Mfg. Co.
Conveyor Company
Diamond Iron Works
Eagle Iron Works
Iowa Manufacturing Co.
Lippman Engineering Works
Pioneer Engineering Works
Smith Engineering Works
Stephens-Adamson Mfg. Co.
Tampa Manufacturing Co.
Universal Engineering Corp.

WEIGHING BATCHERS

Blaw Knox Company
Bodinson Mfg. Company
Butler Bin Company
Construction Machinery Co.
Conveyor Company
Gar-Bro Mfg. Co.
Iowa Mfg. Co.
C.S. Johnson Co.
Koehring Co.
Noble Company

WELDERS

Hernschiesser Corp.
Hobart Bros.
Lincoln Electric Co.
National Welding Equipment Co.
Victor Equipment Co.

WHEELBARROWS

Gar-Bro Mfg. Company
Koehring Company
Kwik-Mix Company
Prime Mover Company

WHIRLEYS

American Hoist & Derrick Co.
Clyde Iron Works, Inc.
WINCHES

American Hoist & Derrick Co.
American Tractor Corp.
Beebe Bros.
Chicago Pneumatic Tool Co.
Clyde Iron Works, Inc.
Essick Manufacturing Co.
Four Wheel Drive Auto Co.
Gar Wood Industries, Inc.
Grifolift, Inc.
Hyster Co.
Maxi Corporation
O.K. Machinery Division
Pacific Car & Foundry Co.
Sasson Derrick Co.
Skagit Steel & Iron Works
Stephens-Adamson Mfg. Co.
Superior-Lidgerwood-Mundy Corp.
Winter-Weiss Co.

WIRE ROPE

American Chain & Cable Co., Inc.
Bethlehem Pacific Coast Steel Co.
Broderick & Bascom Rope Co.
Colorado Fuel & Iron Corp.
Columbia-Geneva Steel Co.
E.H. Edwards Co.
Jones & Laughlin Steel Corp.
Leschen Rope Division
Le Tourneau-Westinghouse Co.
Macwhyte Company
Pacific Wire Rope Co.
John A. Roebling Sons Corp.
Sauermann Bros.
Union Wire Rope Co.
Wickwire Spencer Steel Division

WOODWORKING MACHINERY

Black & Decker Mfg. Co.
Consolidated Maching. & Supply Co.
DeWalt, Inc.
Skill Corporation

**ADVERTISING
TO THE CONSTRUCTION
INDUSTRY OF THE WEST
AND ALASKA
IS A REGIONAL JOB**

- Construction needs, problems, and practices are different
- The West's construction problems differ from those in the rest of the U. S., but are common to the whole Western region
- Western contractors are regional operators—many work on projects anywhere in the West; most cross state borders continually

**AND
WESTERN CONSTRUCTION
IS THE ONE PUBLICATION**

**THAT COVERS ALL THE WEST'S
BIG AND GROWING
CONSTRUCTION MARKET**

**C. I. T. finances installment sales
of equipment for many Distributors**

WESTERN CONSTRUCTION HANDBOOK

TRADE NAMES OF MANUFACTURERS

Only when the name of a product differs from the name of the manufacturer is that brand or Trade Name listed in the Directory below.

Acco.....	American Chain & Cable Co.
Adnun.....	Foote Co-Div., Blaw Knox Co.
Aeroquip.....	Aero Coupling Co.
Airco.....	Air Reduction Pacific Co.
Air-plus.....	The Jaeger Machine Co.
Airmite.....	Dofmer Industries, Inc.
Airoviber.....	Viber Company
Alco.....	Aluminum Co., of America
Alta.....	Gorman-Rupp Co.
American.....	American Hoist & Derrick Co
American Crosby.....	American Hoist & Derrick Co
Ansco.....	Amer. Manganese Steel Div.
Ascor.....	Alloy Steel Corp.
Ateco.....	Amer. Tractor Equipment Corp
Atlas.....	Copco Pacific, Ltd.
Autocraft.....	Austin-Western Co.
Automatic.....	Paine Engineering Co.
Bantam.....	Schield Bantam Co.
Bell-Pack.....	Dresser Mfg., Division
Bemco.....	Brooks Equipment & Mfg. Co.
Berg.....	Concrete Surf., Machy. Co.
Bethcon.....	Bethlehem Pac. Coast Steel
Beth-Co-Weld.....	"
Bin Batcher.....	Construction Machinery Co.
Bj.....	Byron Jackson Co.
Black Topper.....	E.D. Etnyre & Co.
Blue Brute.....	Worthington Corp.
Blue Center.....	John A. Roebling Sons Corp.
B-M.....	Bodinson Mfg. Co.
BMCO.....	Lewis Browning Mfg. Co.
Booster.....	Cleaver Brooks Co.
Branick.....	Branick Mfg. Co., Inc.
Brodrill.....	Broderick & Bascom Rope Co
Brogel.....	"
Brolocaster.....	"
Brooks Ld. Shovel.....	Brooks Equipment & Mfg. Co.
Buckeye.....	Car Wood Industries, Inc.
Buliclim.....	Draft Mfg. Corp.
Carco.....	Pacific Car & Foundry Co.
Gary-Lift.....	Pettibone-Mulliken Corp.
Cal.....	Caterpillar Tractor Co.
Cedarpids.....	Lees Mfg. Company
Century.....	Keesby & Mattison, Inc.
G.F. & L.....	Colorado Fuel & Iron Corp.
Challenge.....	Coffing Hoist Co.
Challenger.....	Galion Iron Works & Mfg. Co.
Chief Rollers.....	International Mfg. Co.
Chinook.....	Colorado Fuel & Iron Corp.
Clinton.....	The American Coleman Co.
Coleman.....	Coleman Iron Co.
Conkey.....	Chicago Bridge & Iron Co.
Conveco.....	The Conveyor Co.
CP.....	Chicago Pneumatic Tool Co.
CraneMobile.....	Bay City Shovel, Inc.
Crescent.....	Sauer Bros., Inc.
Crosby.....	American Hoist & Derrick Co
Cruiser Crane.....	Koehring Co.
Dandie Mixers.....	Kwik-Mix Company
Darex.....	Devry & Almy Chemical Co.
Deuce.....	Cleaver Brooks Co.
Diaphragm.....	Gorman-Rupp Co.
Dieslectric.....	American Hoist & Derrick Co
Domar.....	Ulrich Products Corp.
Dozer-Roofter.....	Electric Steel Foundry Co.
Drive-It!.....	Powder Power Tool Co.
Duel-Prime.....	Construction Machinery Co.
Dumpcrete.....	Maxon Construction Co., Inc.
Dumper.....	Koehring Company
Duralite.....	Sauer Bros., Inc.
Dyna-Chute.....	Monarch Road Machinery Co.
Dyna-Might!.....	"
Ecco.....	Eugene Engineering Co.
Efco.....	Economy Forms Co.
Electroboss.....	Woodboss, Inc.
Elecrader.....	Reisser Company
Endlock.....	Universal Mfg. Co.
Escos.....	Electric Steel Foundry Co.
Eucs.....	Euclid Div., G.M.C.
Ezebility.....	Universal Mfg. Co.
Fastback.....	Electric Steel Foundry Co.
Ferris Grubber.....	Frank B. Ferris Co.
Fletweave.....	John A. Roebling Sons Co.
Fleco.....	Florida Land Clearing Co.
Flexco.....	Flexible Steel Lacing Co.
Flexplane.....	Flexible Road Joint Mech. Co
Gar-Bro.....	Garlinghouse Bros.
Gas-O-Dome.....	Victor Equipment Co.
General.....	Marlon-Osmond-General
Goldedoe.....	Earle M. Jorgenson Co.
Greco.....	W.E. Grace Co.
Gradefill.....	Werner & Swayse Co.
Graderunner.....	Atlas Scraper & Eng. Co.
Gravel King.....	Universal Engineering Corp
Gravel Master!.....	"
Grid-Roller.....	Hyster Co.
Gutter-Snipe.....	Municipal Supply Co.
Gyro-Flo.....	Ingersoll-Rand Co.
Hells-T.....	Pettibone-Mulliken Corp.
Hendeebox.....	Littleford Bros., Inc.
Mendi-Crane.....	Clyde Iron Works
Heat Treat.....	U.S. Spring & Bumper Co.
Helco.....	Heltzel Steel Form & Iron
Hercules.....	"
Redi-Strand.....	Leschen Wire Rope Div.
Hi-Electric.....	MacInnis Power Tool Co.
Hill-Billy.....	Insley Mfg. Company
Hi-Lo.....	Concrete Transport Co.
Hi-Loader.....	Athey Products Corp.
Hi-Speed.....	Baughman Mfg. Company
Hi-Way.....	Highway Equipment Co., Inc
Hoe Boy.....	Construction Machinery Co.
Hoist-All!.....	Coffing Hoist Co.
Hoplo Digger.....	Baader Marine Company
Hoton.....	Chicago Bridge & Iron Co.
Humdinger.....	Ralph B. Carter Co.
Hydra-Lift!.....	Pilman Mfg. Company
Hydropair.....	Dresser Mfg. Division
Hydrocrane.....	Bucross-Erie Co.
Hydrohook.....	"
Hydroline.....	Ralph B. Carter Co.
Hydro-Spring!.....	Draft Mfg. Company
Hy-Lo-Jack!.....	Monarch Road Machinery Co.
Hy-Lo-Jeep!.....	"
Hyundai.....	Hyster Co.
Impactor.....	Waver Impactor Co.
Insulok.....	Dresser Mfg. Division
Intelli-Giant!.....	Chickens Company
Jenny.....	Templeton, Kenly & Co.
Jetcrete.....	Construction Machinery Co.
Jiffy Link!.....	Page Engineering Co.
Jiffy Teeth!.....	Jetco, Inc.
Koolite.....	National Welding Ept., Co.
Kompressor.....	Buffalo-Springfield Roller
Kue-Ken!.....	Straub Mfg. Company
KW!.....	Kenworth Motor Truck Corp.
Kwik-Melter!.....	Littleford Bros., Inc.
Kwik-Steem!.....	"
Ladscof!.....	Universal Mfg. Co.
Lev-Set!.....	American Chain & Cable Co.
Lew!.....	Lippman Engineering Works
Lime.....	Baldwin-Lime-Hamilton Corp
Little Monster.....	Madsen Iron Works, Inc.
Load King!.....	Cook Bros. Equipment Co.
Load-Plus!.....	The Jaeger Machine Co.
Long Bowl!.....	Electric Steel Foundry Co.
Lorain!.....	Thev Shovel Co.
Lubrovans.....	Lincoln Engineering Co.
McCarthy Drills!.....	The Salem Tool Co.
Mavari-R!.....	Bethlehem Pac. Coast Steel
Michigan!.....	Clark Equipment Co.
Mighty Midget!.....	Coffing Hoist Company
Min King!.....	Goodall Rubber Co.
Mississippi!.....	M-R-S Mfg. Co.
Mite-Mite!.....	Harnischfeuer Corp.
Mixall!.....	Barber-Greene Co.
Mix Plus!.....	The Jaeger Machine Co.
Model 48!.....	Madsen Iron Works, Inc.
Mo-St!.....	Horse-Storrett Products Co
Moto-Bug!.....	Kwik-Mix Company
Moto Mixer!.....	Chain Belt Company
Moto Patcher!.....	Hetherington & Berner, Inc.
Moto Paver!.....	"
Multifoote!.....	Foote Div., Blaw Knox Co.
Murex!.....	Metal & Thermit Co.
National!.....	National Welding Ept., Co.
Omaha!.....	Drake-Williams-Mount Co.
On-The-Square!.....	Madsen Iron Works, Inc.
Os-A-Veyor!.....	Simplicity Engineering Co.
Pace Makers!.....	Universal Engineering Corp
Pace Makers!.....	Cook Bros. Equipment Co.
Pace Makers!.....	National Welding Ept., Co.
P & H!.....	Harnischfeuer Corp.
Pedirill!.....	Walter-Weiss Co.
Pile-loader!.....	Monarch Road Machinery Co.
Pack-Temp!.....	Cleaver Brooks Company
Pile-Pounder!.....	Littleford Bros., Inc.
Pneumodrill!.....	Schramm, Inc.
Pneumofeed!.....	"
Pneumajack!.....	"
Pneumapower!.....	"
Pneumafilter!.....	"
Power loader!.....	J.I. Case Company
Power Vane!.....	Chicago Pneumatic Tool Co.
Pulvi-Mixer!.....	Seaman Motors, Inc.
Pumpcrete!.....	Chain Belt Company
Pure Strand!.....	Bethlehem Pac. Coast Steel
Quick-Lift!.....	Coffing Hoist Co.
Redi-Fab!.....	Barber-Greene Co.
Red Seal!.....	Continental Motors Corp.
Red Strand!.....	Leschen Wire Rope Division
Remotrol!.....	Templeton, Kenly & Co.
Res!.....	Chain Belt Co.
Rhino!.....	Shunt Mfg. Company
Roc-Jak!.....	K.O. Duncan Co.
Rocket!.....	Concrete Transport Co.
Roeclad!.....	John A. Roebling Sons Corp.
Roecord!.....	"
Roweld!.....	"
Roll-O-Hoist!.....	Construction Machinery Co.
Roll-O-Matic!.....	Galloway Iron Works & Mfg. Co.
Roll-Toe!.....	Templeton, Kenly & Co.
Ross!.....	Snow Plows, The Burch Corp.
Rot-O-Troll!.....	Slow Mfg. Company
Rot-O-Valves!.....	S. Morgan Smith Co.
Rousabout!.....	Hughes-Keenan Corp.
Royal Crown!.....	Madsen Iron Works, Inc.
Rubber Ide!.....	Utility Trailer Mfg. Co.
Rud-O-Matic!.....	McCaffrey Rudderback Co.
Runabout!.....	Barber-Greene Co.
Saco!.....	Stephens-Adamson Mfg. Co.
Secon!.....	"
Safety Pull!.....	Coffing Hoist Company
Scoomobile!.....	Mixermobile Distributors
Sedimaster!.....	Stephens-Adamson Mfg. Co.
Seco!.....	Screen Equipment Co., Inc.
Sistro!.....	Hornischfeuer Corp.
Simplex!.....	Templeton, Kenly & Co.
Simplex Flow!.....	Simplicity Engineering Co.
Skid-Loader!.....	Draft Mfg. Company
Skid-Shovel!.....	"
Sm!-Mobile!.....	T.L. Smith Company
Sho-Cat!.....	Tucker Sho-Cat Corp.
South Bend!.....	Municipal Supply Co.
Speedall!.....	Pettibone-Mulliken Corp.
Speed Grader!.....	"
Speedloader!.....	"
Speedmaster!.....	Dolmar Industries, Inc.
Speed-O-Matic!.....	Link Belt Speeder Corp.
Speed Slinger!.....	Pettibone-Mulliken Corp.
Spiruloc!.....	Form Tiles, Universal Form Clamp Co.
Spray Leader!.....	Littleford Bros., Inc.
Spray Master!.....	"
Steffan!.....	National Welding Ept., Co.
Super-Power!.....	Coffing Hoist Company
Sure-Primer!.....	The Jaeger Machine Co.
Swede!.....	Copco Pacific, Ltd.
Sulzer!.....	Eagle Iron Works
Swiveloader!.....	Stephens-Adamson Mfg. Co.
Symons!.....	Nordberg Mfg. Company
Tempo!.....	Tempo Mfg. Co.
Tankar!.....	Littleford Bros., Inc.
Telermatic!.....	Anthony Company
Tellever!.....	Stephens-Adamson Mfg. Co.
Telsmith!.....	Smith Engineering Works
Terra Cobre!.....	Woolridge Mfg. Co.
Terra-Lift!.....	American Tractor Co.
Terra-loader!.....	"
Terratrac!.....	"
They Lorain!.....	Thev Shovel Company
Thor!.....	Thor Power Tool Co.
Tiger Brand!.....	Columbia Steel Co.
Tirfor!.....	Gripholst, Inc.
Torcon!.....	Clark Equipment Co.
Tourna!.....	Le Tourneau-Westinghouse Co.
Towermobile!.....	Mixermobile Distributors, Inc.
Tractair!.....	Allele Rol Division
Tracto!.....	Tractomotive Corp.
Tracto-Winch!.....	American Hoist & Derrick Co.
Trail-O-Roller!.....	Littleford Bros., Inc.
Transcrete!.....	Construction Machinery Co.
Transport!.....	Concrete Transport Mixer Co.
Travaloader!.....	J.D. Adams Mfg. Co.
Trav-L-Plant!.....	Seaman Motors, Inc.
Trechmobile!.....	Parsons Company
Triplex!.....	Gunderson-Taylor Mchv. Co.
Tru-Lay!.....	Doua Lynn Company
Tuffy!.....	Union Wire Rope Co.
Tucker!.....	Construction Machinery Co.
Tumbalch Paver!.....	Koshring Company
Twistile!.....	Stephens-Adamson Mfg. Co.
Twistives!.....	Universal Form Clamp Co.
Uniform Panels!.....	Universal Form Clamp Co.
Unionmet!.....	Linde Air Products Co.
Unistage!.....	Schramm, Inc.
Util-A-Tool!.....	Templeton, Kenly & Co.
Varil-Packer!.....	Littleford Bros., Inc.
Velvetouch!.....	S.K. Wellman Co.
Viber!.....	Viber Company
Vicrometer!.....	Victor Equipment Co.
Warclo!.....	W.A. Riddell Co.
Warrior Rollers!.....	Galloway Iron Works 3 Mfg. Co.
Wom!.....	Western Machinery Co.
Whirlielettes!.....	Clyde Iron Works, Inc.
Whirlies!.....	"
Wickwire!.....	Colorado Fuel & Iron Corp.
Windrow Loader!.....	Barber-Greene Co.
Wonder!.....	Construction Machinery Co.
Yellow Strand!.....	Broderick & Bascom Rope Co.
Zephycrome!.....	Link Belt Speeder Corp.

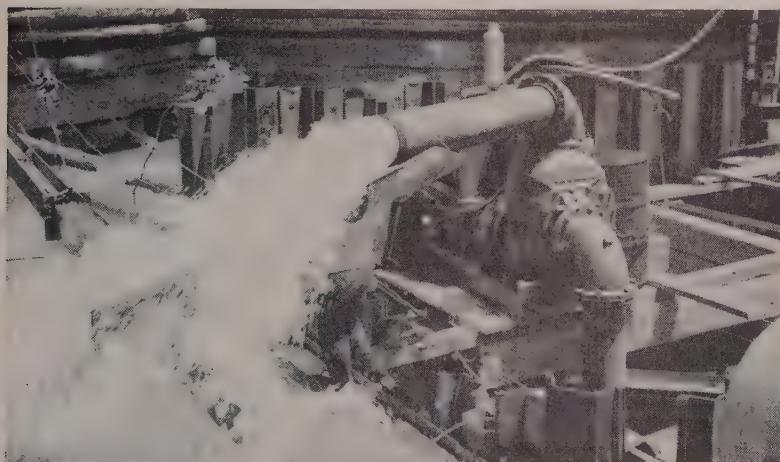
Hi-performance Jaeger pumps cut water-handling costs



New Model 2PN moves all the water a 2" hose can handle

This latest Jaeger 2" pump delivers its rated 10,000 gph when operating at only 2400 to 2550 rpm (as much as 400 rpm slower than similar pumps). It will actually pump all the water that can be pulled through a 2" suction line under average pumping conditions. You'll find it conservatively rated, even at heads

well above 100 ft. Weighs only 190 lbs. including big pneumatic tires, measures only 24" x 21" x 26" high, yet it's built for heavy duty service with 20% steel shell, reversible liner plate, long-life Jaeger Lubri-Seal on shaft, impeller adjustable for wear and powerful Wisconsin AKN engine of 5.3 hp at 2500 rpm.



Pumping 4,000 gpm with low-cost diesel power

Because they develop their full rated volume at low operating speeds, big Jaeger pumps are ideally suited for diesel operation on big cofferdam and well point work. The Jaeger Model 10PD above is pumping 4000 gpm at 1500 rpm. This high efficiency at fuel-saving, engine-saving speeds is an ex-

clusive characteristic of Jaeger "Sure-Prime" pumps. It requires larger shells and impellers but pays off in performance. Jaegers prime without engine-racing, don't vapor-lock on hard pulls, consume less fuel and average thousands of hours longer service than pumps that must run at higher speeds.

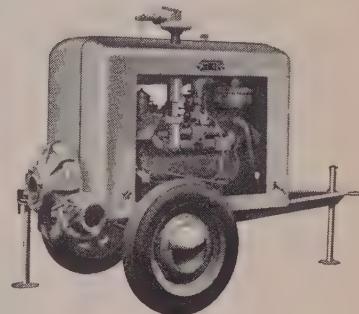
Sold and Serviced by:

EDWARD R. BACON CO. San Francisco 10
 NELSON EQUIPMENT CO. Portland 14
 WESTERN MACHINERY CO. Salt Lake City, Denver 4, Spokane 11
 SHRIVER MACHINERY CO. Phoenix
 J. D. COGGINS & CO. Albuquerque

See manufacturer's listing page 31H, Yellow Section

Latest type jetting pumps in 3", 4", 5", 6" sizes

For a wide range of volumes, and pressures up to 275 psi, Jaeger has developed the most modern type of high pressure pumps... self-priming at the rate of 1 second per foot of lift, equipped with enclosed impellers, labyrinth sealing rings, positively lubricated shaft seals, automatic spring-actuated check valves, heat-resisting stellite-valved engines:



Model 3CPH delivers 420 gpm at 40 lbs., 125 gpm at 130 lbs., with air-cooled Wisconsin VF-4 (25 hp @ 2400 rpm).

Model 4CPH delivers 700 gpm at 75 lbs., 325 gpm at 200 lbs., with 6 cylinder engine of 218 cu. in. displacement (80 hp @ 2500 rpm).

Model 5CPH delivers 825 gpm at 80 lbs., 200 gpm at 250 lbs., with 6 cylinder engine of 236 cu. in. displacement (195 hp @ 2600 rpm).



1 1/2" to 10" Electric Pumps

Jaeger "Sure Prime" pumps with electric motor drive are available for all types of dewatering, including the operation of Jaeger Well Point Systems. The characteristic low speed (1150 rpm) operation of Jaeger 6" to 10" electric pumps results in much longer life. Jaeger's oversize shells, holding more priming water, also prevent overheating and vapor-lock even when exhausting the longest well point header lines.

For engineering service on pumping problems, or specific information about any Jaeger pumps, see your Jaeger distributor or write. For file data, request Catalog P-4.

SMITH BOOTH USHER CO.	Los Angeles 54
A. H. COX & CO.	Seattle 4 and Tacoma
THE SAWTOOTH CO.	Boise and Twin Falls, Idaho
TRACTOR & EQUIPMENT CO.	Sidney, Miles City, Glasgow
CENTRAL MACHINERY CO.	Great Falls and Havre
WORTHAM MACHINERY CO.	Cheyenne, Wyo.

REPORTS from the COURTS

By HOWARD S. BURNSIDE, Attorney and Registered Engineer

Smog-cancer—judgment for plaintiff

"The way the stacks were acting was characterized as an 'inversion' . . . where the fumes normally emitted from the stacks come downward because of atmospheric conditions, instead of going upward.

"About 7:00 P.M. telephone complaints began to come into the plant.

"About 7:45 P.M. the fumes within the plant were so dense that Hicken and Whitman had to put on their gas masks (which generate their own supply of oxygen).

"The longer the plant operated, the heavier became the smog, and at 8:25 P.M. the plant was shut down as an emergency measure.

"A Standard Oil employee working . . . close by . . . noticed . . . a fog bank coming in . . . which burned his nose and throat, so that he put on a gas mask. Others did likewise.

"At approximately 8:00 P.M. Mr. and Mrs. Hagy . . . on their way home . . . drove past the Allied plant and through the smog. It made them cough . . . and Mrs. Hagy even fainted.

"The theory of plaintiff's case is (1) that Mrs. Hagy had cancer of the larynx before her exposure to the smog but . . . did not know it; (2) that her exposure and the irritation therefrom 'lighted up' the dormant cancer; (3) that she lost her voice; (4) that her doctors then . . . determined . . . that she had a cancer of the larynx . . . [which was removed by an operation] . . . and (6) that such operation might have been averted had she not been exposed to the smog and the irritation therefrom."¹

The jury concluded that the sulphuric acid fumes aggravated the pre-existing cancer and in their verdict awarded the sum of \$25,000. Testimony of medical experts was voluminous and was given for both the plaintiff and defendant. The judgment was affirmed on appeal.

This case is regarded by some as a step forward in the development of the law of negligence and by others as a step backward. In any event it demonstrates the high degree of "public responsibility" required today in industrial operations.

¹ *Hagy v. Allied Chemical & Dye Corp.* 285 P. 2d 88.

Practice of professional engineering by unlicensed person

In September 1947 an amendment to the California "engineer-registration" law became effective. This amendment provided for the regulation of professional engineers in the branches of chemical, electrical, mechanical, and petroleum engineering. At the outset and until June 20, 1948, persons with certain qualifications could apply for and secure registration without examination. Later applicants would have to take an examination. It was provided that the use by a person of the title professional engineer, mechanical engineer, etc., unless the person was registered, would be unlawful and a misdemeanor. However, in contrast to the civil engineering portion of the act, the statute did not make it unlawful for an unregistered person to practice professional engineering.

In April and June 1948 the plaintiff contracted with the defendant for certain engineering services. His letterhead identified him as an electrical as well as a mechanical engineer. In late May he had notice of unfavorable (but not final) action on his application for electrical engineering registration under the "grandfather" clause. He had already received his certificate as a mechanical engineer.

When the relations between the parties broke down at a later date, the plaintiff was unpaid and brought legal action. One of the defendant's arguments was that the practice of electrical engineering was unlawful. The defendant's argument was based on the foregoing facts which are greatly condensed. A judgment for the plaintiff was affirmed.

It is interesting to note that the appellate court observed but did not decide the question of whether the statute does actually make the practice of professional, mechanical, or electrical engineering by an unlicensed person unlawful.

From a legal standpoint this is important. The practice of civil engineering or architecture or operating as a contractor without a proper license is specifically prohibited. This means that one who contracts for such work cannot enforce his contract and be paid under it. Whether

this is true of the practice of professional engineering is an open question.

Kelly v. David D. Bohannon Organization.
119 C. A. 2d 787.

Expensive breach of oral contract

The high cost of a breach of contract is demonstrated again in a recent California decision. In *Western Construction*, September 1954², a subcontractor recovered against the general contractor for a "hasty" exercise of the option to terminate. In the present case, *Empire Steel Building Co. v. Harvey Machine Co.*², the construction contractor obtained a judgment for \$29,400 loss of profits against an owner that failed to perform its oral contract. The facts which follow are the essential elements of the breach.

The contractor was constructing a "pot room" at the owner's premises when they were asked by the owner to bid on the steel and concrete work for a foundry building. The bid submitted stated a fixed price for the steel work with a lower alternate price if the concrete work was also awarded, a separate price being given for concrete work. The steel work was awarded while negotiations were going on to reduce the total price. Finally, an oral agreement was reached between an officer of each company on a price, according to the testimony of one of the contractor's officers. Engineering work had already started on the steel-work.

Ten days later, the owner's president telephoned. "It looks like we will have to abandon the foundry building. As you know, we are having trouble with the building department getting our permit . . . so don't do anything further on the job and we will pay you for your expense and engineering." Later in the day, upon learning the building permit was issued that same day the contractor's officer called the owner back and asked for an explanation. He was informed, "Well, you are \$30,000 high . . . Do you want to cut your price?" The contractor's response was that he didn't want to cut his price, that he intended to perform his part of the contract and expected the owner to do the same. Later the owner entered into a written contract with another firm for a price about \$14,000 under the oral contract price and the present action followed resulting in a judgment for plaintiff.

The owner denied the existence of a contract at all times.

Oral contracts are not easy to prove; and as a rough rule of thumb, the larger the sum involved the more difficult the proof.

¹ *Western Construction Sept. 1954*, p. 86.
² *Empire Steel Bldg. Co. v. Harvey Mach. Co.* 265 P. 2d 32.



Pioneers in Concrete Cutting!



Felker DI-MET concrete cutters are the result of continuous development and improvement to meet the needs of the construction industry. Straight cutting, fast, easy to maneuver, these machines offer the rigidity, strength and power for all jobs from ordinary patchwork to heavy-duty construction applications.



Felker DI-MET Model 252—The ultimate in heavy-duty machines. 26 h.p. Wisconsin engine with starter and generator provides surplus of power for fast, deep cutting. Uses blades up to 18", cuts to 6½" depth, right or left hand operation. Built-in power drive and water pump reduce labor, increase footage, insure straight cutting.



Felker DI-MET SPAN-SAW—The answer to joint cutting in new highway and airport concrete construction! Multiple diamond blades make short work of transverse cuts. Machine spans concrete slab, rides on header boards or slab, saws at desired intervals. Cuts costs, minimizes manpower!

Contact your local Felker DI-MET dealer for added product information and correct blade recommendations on your specific job!

See manufacturer's listing page 22H, Yellow Section



Felker DI-MET Model 100—Light, powerful, with unexcelled maneuverability. An excellent "budget priced" concrete cutter for all maintenance, light repairs and municipal applications. 12" blade mounts on either right or left spindle end, lifts and lowers hydraulically. Positive adjustable depth control. 7½ h.p. Wisconsin engine.



Felker DI-MET Model 200—Maximum economy in a maneuverable, heavy-duty machine. Uses up to 18" blades, giving 6½" depth of cut, right or left hand operation. Hydraulic lift and retardant. Available as a basic unit to which the following accessories can be added: Power drive, coolant pump assembly, starter and generator. 13.5 h.p. Wisconsin engine.



Felker DI-MET Segmented Type DIAMOND ABRASIVE WHEELS—Leading diamond wheel for long life, greatest economy, more footage! Rugged, fast cutting. Stiff, correctly tensioned tempered steel core for maximum resistance to deflection. 6" to 24" diameters. Many bond variations and wheel specifications to assure best results on your job!

Felker DI-MET MASONRY SAW—Ahead of the field in speed, convenience and easy operation! Cuts all masonry materials. 26" throat capacity (spindle center to table top.) All arbor height adjustments and controls at operator's position in front of machine. Husky 1½ h.p. 110-220V repulsion-induction motor. Available with or without coolant pump for wet or dry cutting.

Write for Literature
and Quotations!



FELKER MANUFACTURING CO.

TORRANCE, CALIFORNIA

World's Largest and Oldest Manufacturer
of Diamond Abrasive Cut-Off Wheels and Machines

WESTERN CONSTRUCTION

NEWS

ARIZONA

THREE TO GO — Superstructure for the last three floors is going up on the First National Bank of Arizona building in Phoenix. The structure will have nine stories when completed. Stewart Construction Co. has the \$4,000,000 contract. Sidney McMullin is job superintendent.

RECENT MAJOR CONTRACT AWARDS and low bids in Arizona include a low bid of \$212,997 submitted by **W. J. Henson** of Prescott for 8 mi. of draining and surfacing on a new alignment of Route 80 located 23 mi. southeast of Tucson, and another low bid of \$226,480 for 1.9 mi. of grading, draining, and seal coat on the Kingman-Ashfork highway beginning at Ashfork Junction. **Morrison-Knudsen Co., Inc.**, of Los Angeles submitted a low bid of \$816,744 for earthwork, concrete lateral lining, and structures on the Dome and Welton-Mohawk distribution system.

Dale F. Payne Construction Co. of Phoenix submitted a low bid of \$141,678 for grading and draining roadway for the new alignment of US 70 about 30 mi. southeast of Globe. **San Xavier Rock and Sand Co.** of Tucson submitted a low bid of \$158,913 for 3.9 mi. of grading, draining, and surfacing on US 80, 89, and SR 77 located about 21 mi. north of Tucson.

CALIFORNIA

OVER 27 MI. OF FREEWAYS are in the ribbon-cutting stage in Southern California. The longest strip of freeway ever opened at one time was 13.5 mi. on Ramona Freeway November 16. The link cost \$3,300,000 for right-of-way and \$8,650,000 for construction. When completed the Ramona Freeway will extend 41 mi. from Los Angeles to Ontario. Other sections finished, or practically finished, include Long Beach Freeway, 6.5 mi.; Harbor Freeway, 1.5 mi.; Santa Ana Freeway, 2 mi., and Ventura Freeway, 4.1 mi.

THE LAST LINK of concrete pipe has been set in place on a \$2,000,000 storm drain project affecting Glendale and Los Angeles. Within a year

an additional \$900,000 worth of lateral drains will be completed to deliver water to this drain. The project has been a joint venture of the Flood Control District, Los Angeles, and Glendale. The length of the drain, constructed of 144-in. reinforced concrete pipe, is 2.85 mi.

WESTERN DESTRUCTION — Work has begun on the tearing down of the Hill St. tunnel at 1st St. in Los Angeles. The job will be done by Tomei Construction Co. and is expected to take 240 calendar days. Engineers said the first task will be the removal of an estimated 300,000 cu. yd. of dirt from above the tunnel.

NIMBUS DAM NEARLY DONE — Winston Brothers and Al Johnson Company, holders of the \$6,000,000 contract for Nimbus Dam on the American River, have poured the final bucket of concrete on the project. Except for cleanup work Winston-Johnson activities at the dam are completed. The structure, which will serve as an afterbay for regulation of water released from the much larger Folsom Dam 7 mi. upstream, required more than 175,000 cu. yd. of concrete and 3,400 tons of structural and reinforcing steel. The project was started two years ago and completion was ahead of the original schedule.

FEATHER RIVER DAM DRILLING — Boyle Brothers Drilling Co. has completed its contract for diamond drilling at the site of the proposed dam on the Feather River in Butte County. The rock was found to be exceptionally hard and therefore adequate for a foundation. Preliminary plans for the dam, power plant, spillways and afterbays are finished and a model is on display at the state engineer's office in Sacramento.

THE POWER COMMISSION reports that Pacific Gas and Electric Co. has submitted a revised application for a proposed hydroelectric project on the Pit River. The new application differs from the one filed in 1953 in that it would use water from both the Pit River and the McCloud River. The combined project would have a 230-ft. high concrete gravity dam with a powerhouse of installed capacity of 100,000 kw.

RECENT MAJOR CONTRACT AWARDS and low bids in California

nia include a low bid of \$480,978 submitted by **Basich Bros. Construction Co.**, **R. L. Basich, N. L. Basich** and **O. B. Pierson** of South San Gabriel for construction of two welded steel girder bridges and approach roadways over Coyote Creek Flood Control Channel in Los Angeles and Orange counties. **Dinwiddie Construction Co.** and **Martinez Construction Co.** of San Francisco have a \$15,000,000 contract to construct 7 major buildings at Stanford University. **R. A. Erwin** of Colton submitted a low bid of \$215,896 for grading and surfacing near San Bernardino.

Granite Construction Co. of Watsonville submitted a low bid of \$1,513,047 for 5.1 mi. of grading and paving and construction of six reinforced concrete bridges near Sacramento; another low bid of \$1,268,027 for 2.1 mi. grading and surfacing and construction of four bridges and one utility crossing in Santa Clara County, and a third low bid of \$185,651 for 5 mi. grading and surfacing in Fresno County.

Matich Brothers of Colton submitted a low bid of \$183,894 for 1.6 mi. grading and surfacing 2 mi. north of Redlands. **C. K. Moseman** of Redwood City submitted a low bid of \$370,218 for 5.5 mi. grading and surfacing and construction of three reinforced bridges in Fresno County. **A. G. Raisch Co.** of San Rafael submitted a low bid of \$1,192,952 for 3.7 mi. surfacing and two tunnels to be tiled between Manzanita and Golden Gate Bridge in Marin County. **Somers & Stacy** of Klamath Falls submitted a low bid of \$632,697 for earthwork and structures on the Corning canal of the Central Valley Project.

COLORADO

A \$30,000,000 CONSTRUCTION project, with a goal of 2,500 homes, has been started near Colorado Springs by American Builders. The site embraces 700 ac. The homes will range in price from \$7,500 to \$15,000, mostly financed under FHA and GI plans. The area is being completely planned to take care of a modern city of 8,000 to 10,000.

DAM 22 READY — The last bucketful of concrete has been poured on Denver's \$12,000,000 Dam 22 in South Boulder Creek canyon. Some joints

See manufacturer's listing page 13H, Yellow Section →

23 pieces of CAT-built equipment on the job—every day!



**"At no time have we had a piece of Cat-built equipment down for a day.
It's on the go 95 per cent of the time."** *Says Job Superintendent Sutton*

To move 1,250,000 yards of borrow on a relocation job near Alton, Ill., R. B. Potashnick, Cape Girardeau, Mo., used 23 pieces of Cat* equipment. The equipment is on the job 10 hours a day, six days a week—*without fail!*

The D8 pictured—one of 11 D8s on the job—explains what makes big yellow equipment click. Equipped with a No. 8S Bulldozer and a sheepsfoot tamper, it is spreading and compacting fill.

There'll be no trouble with that 'dozer. Its moldboard is shaped to dig and roll a full load, making efficient use of the tractor's power. Carbon steel cutting edges are reversible. Lengthwise box-section reinforcements provide great strength for the blade.

And the D8 was built for hard-and-heavy use in any kind of terrain. Protected final drives and track rollers keep dust, mud and water out and lubricant in. Its sure-footed traction uses maximum engine power to do jobs quickly and inexpensively.

But most important, tractor and 'dozer are engineered to *work together*. Only Caterpillar manufactures both as matched equipment.

Follow the lead of construction leaders—standardize on Caterpillar equipment and watch costs drop, profits pyramid. See the difference for yourself. Call your Caterpillar Dealer today. Have him show you the new, more powerful D8. He's ready to demonstrate on *your job!*

Caterpillar Tractor Co., San Leandro, Calif.; Peoria, Ill., U. S. A.



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USE CAT EQUIPMENT
FOR MONEY-MAKING
PERFORMANCE



Ad. A.C.M.



... We're talking about the finish our new Stow G-34 and E-34 Roto-Trowels deliver on any paving job!

We've some interesting figures on performance for you, too!

Write today for complete information on STOW Roto-Trowels.

STOW MANUFACTURING CO.,

56 SHEAR ST., BINGHAMTON, NEW YORK

See manufacturer's listing page 47H, Yellow Section

remain to be grouted by the Macco-Puget Sound contractors, but the dam will be ready to impound water next spring. It is 340 ft. high and 1,002 ft. long at the top.

WORK HAS STARTED on a 20-story, 1,000-room hotel on long-vacant Courthouse Square in downtown Denver. William Zeckendorf said his firm of Webb & Knapp will build the hotel, plus shops across from the square, at a cost of \$35,000,000. The new hotel will be twice the size of the present largest hotel in Denver. The new building should be open by September, 1956.

HOMES FOR ARVADA — Westcraft Homes, Inc., has obtained building sites and has started construction on the first group of 1,000 homes adjacent to Arvada at a cost of \$12,500,000. Three model homes are now being built and the present schedule calls for the completion of one a day for the next two years. The units will be in the \$10,000 to \$12,000 class.

USBR FIRES 100 — Dismissal notices have been prepared for 100 key employees in the U.S. Bureau of Reclamation's planning and engineering office at the Denver federal center. The mass firing of top-ranking engineers, designers, researchers and supervisors was a direct result of failure of the last Congress to approve any new reclamation projects — including the Upper Colorado basin project and the proposed Frying Pan-Arkansas diversion project.

IDAHO

PENNY CLIFFS ABANDONED — The Pacific Northwest Power company has applied to the state of Idaho for water use and storage rights at two sites on the Snake River downstream from the controversial Hells Canyon site. The company said it would try to develop those sites, abandoning plans for Penny Cliffs on the Clearwater because of opposition of wildlife interests. Pacific Northwest is made up of Washington Water Power Co., Pacific Power & Light, Montana Power Co., and Portland General Electric.

RECENT MAJOR CONTRACT AWARDS and low bids in Idaho include a low bid of \$296,124 submitted by Aslett Construction Co. of Twin Falls for 5.8 mi. grading and surfacing SR 34 on the Grace-Niter section, Caribou County. Pickett & Nelson of Idaho Falls submitted a low bid of \$256,765 for 7.2 mi. of oiling the Yellowstone Park highway, north of Ashton, Fremont County.

LONGER LIFE FOR ALL ENGINES

WITH YEARS-AHEAD
RICHFIELD

"CIRCLE C"
MOTOR
OIL



Construction men throughout the West have found that this heavy-duty oil makes all engines — *diesel or gasoline* — last longer and operate better. That's because "Circle C" Motor Oil combats the bad effect of high sulphur content in Western diesel fuels... and reduces the formation of power-wasting deposits in gasoline engines.

Ask your local Richfield representative. THEN TRY IT AND SEE!



MONTANA

GREAT FALLS BANK—The Montana Bank has announced plans to build a \$400,000 structure in Great Falls. A contract is to be let next spring for construction of the 2½-story bank and office building.

RECENT MAJOR CONTRACT AWARDS and low bids in Montana include an award of \$431,123 to **Peter Kiewit Sons' Co.** of Lewistown for grading, draining, and surfacing on the highway west of Wolf Point-North Dakota Line, Roosevelt County, and another of \$342,750 for 9.7 mi. grading, draining, and road-mix oiling on the Molt-Billings highway, Yellowstone County. **Sundling Construction Co.** of Great Falls received a \$285,807 award for 13.1 mi. grading and surfacing on the Baker-Wibaux highway, Wibaux County.

NEVADA

ANOTHER RESORT HOTEL, to cost \$5,000,000, is scheduled for Las Vegas, announced Norman O. Houston, Golden State Mutual Life Insurance president, who heads the corporation which plans to erect the structure. The hotel, named the Continental, will be one which will cater to all races, colors and creeds. Houston said.

CONSTRUCTION IS DUE to start on Fallon's \$250,000 sewage disposal system. George E. Miller has the contract for the \$67,000 outfall line. Nommelini Construction Co. was low bidder at \$175,000 for the disposal plant. Additional costs will be for services of engineers, bonding companies, legal counsel, and inspection. The job is to be finished within 270 days after work starts.

RECENT MAJOR CONTRACT AWARDS and low bids in Nevada include an award of \$330,011 to **W. W. Clyde & Co.** of Springville for construction on a portion of the state highway system in Eureka and Elko counties from 3 mi. south of Palisade to 2 mi. south of Carlin. **Silver State Construction Co.** of Fallon submitted a low bid of \$280,291 for 6.7 mi. grading and surfacing northwest of Lovelock, Pershing County.

NEW MEXICO

THE \$2,000,000 Simms Building is ready for occupancy. The 13-story structure is the tallest in Albuquerque. Construction was begun 15 months ago by Lembke, Clough and

King, Inc. Architects are Flatow and Moore. The building has 126,000 sq. ft. of floor space and stands 160 ft. high.

CITY COMMISSION of Albuquerque approved construction of the Edith Blvd. sewer trunk at an estimated cost of \$789,000. The commissioners accepted the proposal of W. E. Turney & Associates for an increased trunk line from Edith Blvd. and Menaul Blvd. eastward to serve an estimated future population of 256,000.

MISSILE MONEY—New facilities actually under construction at White Sands Proving Ground total \$6,000,000. Heading the list of new buildings are four projects to provide additional facilities in technical operations. The balance are necessary "housekeeping" projects to support the work of testing missiles and rockets. No figures have been released for future construction.

WATER PROSPECTS STUDIED—State Engineer John Erickson said his office is spending almost a third of its total budget on work intended to improve long range water prospects in New Mexico. Records show that \$239,931 of a total of \$727,968 are going for water investigations, construction on water projects, and work aimed at preserving and increasing the state's scarce surface water.

RECENT MAJOR CONTRACT AWARDS and low bids in New Mexico include a \$722,719 award to **Jack Adams** of Santa Fe for 14.9 mi. grading and surfacing the Algodones-La Rajada road, Sandoval and Santa Fe counties. **Armstrong & Armstrong** of Roswell received a \$525,155 award for 4.8 mi. grading and surfacing in Las Cruces, Dona Ana County.

Metropolitan Paving Co. of Oklahoma City submitted a low bid of \$2,072,740 for a paving and lighting project at Roswell Air Force Base. **Sharp & Fellows Contracting Co.** of Los Angeles received a \$316,559 award for construction work on the Alameda bridge road in Bernalillo County. **Henry Thygesen & Co.** of Albuquerque received a \$179,261 award for 2.4 mi. grading and surfacing on the Cerrillos Road-Las Vegas highway in Santa Fe.

OREGON

SHOP FABRICATION of sections of the penstock for California Oregon Power Company's Lemolo No. 1 project has been completed by United States Steel's Consolidated Western Steel Division. The sections, some weighing as much as 27 tons, are being joined to form a pen-

stock 7,230 ft. long. Field installation is being done by setting the sections on concrete piers using a crawler crane. On the steepest portion the sections are lowered into position from the top of the hill using parallel skids and a sled for carrying each section. Field joining is being done by means of Dresser couplings, which do not require riveting or welding. The couplings will also act as expansion joints for the line.

SWEDISH BEAMS, type HB, are being used for the first time in Portland in the construction of a grade school. The webbing is two solid courses of 1-in. boards set at right angles to each other and the flanges are laminated, 1-in. members pressure-glued to form continuous members. The cross section varies with the stress. With this beam long spans are possible with a small rise.

RECENT MAJOR CONTRACT AWARDS and low bids in Oregon include a low bid of \$624,787 submitted by **J. C. Compton Co.** of McMinnville for grading, paving, and construction of a bridge on the Siletz Bay-Miher Creek section of the Oregon Coast Highway, Lincoln County. **Coos Bay Dredging Co., Inc.**, of Coos Bay submitted a low bid of \$290,929 for grading and oiling on the West Unit, Reedsport-Dean Creek section, Umpqua highway, Douglas County. **Hamilton & Thoms** of Eugene submitted a low bid of \$178,280 for construction of four structures on the Portland-Salem Expressway, Marion County.

Rogers Construction Co., Inc., of Portland submitted a low bid of \$268,466 for grading and surfacing on the Warm Springs highway in Jefferson County; a low bid of \$501,931 for grading, paving, and structures on the Tigard-Newberg section of the Pacific Highway west in Washington County; a low bid of \$432,215 for paving the Emigrant Hill section of the Old Oregon Trail highway in Umatilla County. **White Bros.** of Walla Walla received a \$504,150 award for construction of roads and bridges in Douglas County.

UTAH

NEW POWER PLANT—The \$11,800,000 Carbon plant at Castle Gate is now generating 66,000 kw. for Utah Power & Light. The plant is located in the heart of Utah's coal fields and is the first generating station in the area. The project was started by Bechtel in the summer of 1953.

SALT LAKE sidewalk superintendents were getting their first look at "skin-type" building construction early in December. About 100 tons of

HUBER

WARCO

TWO FAMOUS NAMES IN ROAD MACHINERY

BECOME ONE!

The Huber Manufacturing Company of Marion, Ohio, and the W. A. Riddell Corporation of Bucyrus, Ohio, are now combined in the new HUBER-WARCO COMPANY with headquarters in Marion.

Our combined lines include the following:

HUBER-WARCO MOTOR GRADERS: 4D-75, 4D-85 and 4D-115.

HUBER-WARCO MAINTAINER: With versatile attachments for service as a bulldozer, grader, broom, snow plow, berm leveler, lift-loader, side-dozer, road planer, mower or patch roller.

HUBER-WARCO TANDEM ROLLERS: 3-5, 5-8, 8-10, 8-12 and 10-14 ton.

HUBER-WARCO 3-WHEEL ROLLERS: 5, 6, 7, 8, 10, 12 and 14 ton. 8-10, 10-12 and 12-14 ton variable weight.

HUBER

WARCO

HUBER-WARCO COMPANY
Road Machinery
MARION, OHIO, U.S.A.
Road Rollers • Maintainers • Motor Graders

See manufacturer's listing page 29H, Yellow Section



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plants. Yours for the asking!

Find out why hundreds of users
throughout the nation say,
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for quality—for low operating
and maintenance costs!"
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STANDARD STEEL CORPORATION

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See manufacturer's listing page 46H, Yellow Section

porcelain-coated steel panels were being erected on the north side of the 12-story First Security Bank Building. Estimated cost of the structure is \$2,500,000.

SECOND BIDS have been received for work on the installation of a new 78-in. sewer trunk line to connect with Salt Lake City's new sewage pumping plant. Young & Smith Construction Co. submitted a low bid of \$198,975. Earlier, Gibbons & Reed Co. had submitted a low bid of \$175,509, but forfeited the bid and a bid bond of \$8,975.

WASHINGTON

LAST CHIEF JOSEPH POUR—The last of 981,000 cu. yd. of concrete on Chief Joseph Dam has been poured by the main contractor, Chief Joseph Builders. Concrete work is also finished on the powerhouse intake, which took 800,000 cu. yd. The project will go into the Northwest power pool in the fall of 1955. Its capacity of 1,024,000 kw. is second only to Grand Coulee Dam.

PUYALLUP SEWERS—The Puyallup city council has accepted a \$342,691 bid by Bona Fide Builders Co. for construction of a sewage treatment plant. The council authorized Gray & Osborne to draw plans for the remaining portion of the \$1,800,000 sewer and water improvement work. Bids for storage reservoirs and improvements in supply lines will be called early in 1955.

PERMIT REVIEW GRANTED—The Federal Power Commission has agreed to review its order granting a preliminary permit to public utility district No. 1 of Douglas County for a proposed hydro project on the Columbia River at the Wells site. The review was requested by Puget Sound Power and Light Co., which also had applied for a preliminary permit. The commission said that further consideration of the issues raised by Puget Sound Power is in the public interest.

CORE DRILLING equipment is being installed at the Priest Rapids and Beverly sites on the Columbia River by Grant County public utility district. The PUD holds a permit to investigate the building of a dam or dams at the sites. Boyle Construction Co. will make the core drilling tests.

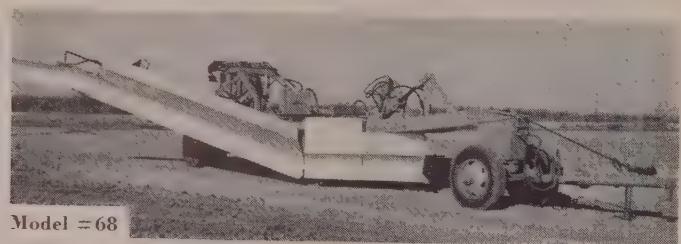
BREMERTON WATER SUPPLY—Bremerton's \$1,000,000 water supply dam and related improvements become a step nearer to realization as the city council voted approval of a contract with John W. Cunningham and Associates for engineering on the job. The firm will get 4½% of

FOR IRRIGATION & DRAINAGE WATERWAYS

Briscoe Ditchers

DIG NEW DITCHES
CLEAN OLD ONES

DITCH CONSTRUCTION AND
MAINTENANCE AT LOW COST



INTRODUCING 3 NEW MODELS No. 35-No. 46-No. 68

COVER WIDE RANGE
OF SIZES FOR DITCHES
WITH BOTTOM WIDTHS
FROM 2½ TO 8 FEET AND
DEPTHS OVER 5 FEET



1940 Cu. Yards Per Hour on New Ditch!

The Model # 68 Briscoe above is forming a new ditch with an 8-foot Bottom, Slope of about 1½ to 1, depth of 6 feet. Ditch was 1½ miles long and total actual Ditcher time was 12 hours, for a total yardage of 23,271! 4 D7 "Caterpillar" tractors used in line; D8 on far bank is pulling grader to move spoils back.

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Sloper doing Weed Control work on Arizona gov't. project



Adding finishing touches to Calif. irrigation project

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TALL TOWERS

Erection work is progressing rapidly on the 918 towers which will form the Bonneville Power Administration's powerful new McNary-Ross single circuit transmission line. The 175-mi. line along the Columbia River's north side runs from McNary Dam to Vancouver, Wash. Bethlehem Pacific's tower shops at Seattle and South San Francisco have fabricated the steel. Towers range in height from 80 to 160 ft.

the total cost. Preliminary work was expected to get under way this winter, with actual construction to start in the spring.

SWINOMISH SPAN — Construction of a high-level bridge across the Swinomish Channel in Mount Vernon will start in 1955 regardless of the outcome of a \$1,200,000 bond issue vote. County commissioners in Skagit county said that if the bond issue is defeated certain other bridges would not be built.

A BID CALL for Mayfield dam construction on the Cowlitz River will be made in February 1955 according to officials of Tacoma City Light. Mayfield will be the first of two dams to be built in the \$146,000,000 hydroelectric project. Together they will produce 460,000 kw. Harza Engineering Co. is consulting engineer. Mayfield will be 185 ft. high; the other, Mossyrock, will be 325 ft. high.

THE SHOPPING CENTER now being built in Spokane is believed to be the first and is certainly the largest project in the country to use lift slab methods on reinforced concrete columns. The largest single slab will weigh more than 500 tons. Precast tilt-up walls are also being used in the structure. H. Halvorson, Inc., is general contractor.

ATTALIA WAREHOUSE — The Lewis Hopkins Co. has begun con-

struction of a warehouse on the site of Columbia River Chemical Corp.'s \$12,000,000 fertilizer plant at Attalia. The H. B. Palmberg Construction Co. is building docks and other facilities to serve the site. K. C. Dack Co. is leveling land under a subcontract.

RECENT MAJOR CONTRACT AWARDS and low bids in Washington include a low bid of \$850,772 for construction of two multi-purpose hangars at Larson AFB. **Boyles Bros. Drilling Co.** of Salt Lake City submitted a low bid of \$207,050 for subsurface exploration core drilling for the foundation of the proposed Priest Rapids Dam, Grant County. **Buchanan, Sather, & DeRycke** of Seattle submitted a low bid of \$167,777 for construction of the Mesa Pumping Plant and canal lateral, Block 14, Columbia Basin project.

Roy T. Earley Co. of Tacoma received a \$1,008,944 award for construction of secondary state highway 1-K and the First Ave. South Bridge and approaches in King County. **Fiorito Bros.** of Seattle received a \$205,225 award for 8.9 mi. grading and surfacing on secondary state highway 11-G, Larson AFB to Euphrata Wye, Grant County. **Havorson, Inc.**, of Spokane submitted a low bid of \$1,928,047 for construction of school buildings in Seattle.

Lige Dickson Co. of Tacoma received a \$578,447 award for 3.6 mi. grading and surfacing on state highway 2, Middle Crossing Snoqualmie River to Camp Mason, King County. **Lockyear & White** of Longview received a \$174,600 award for construction of an overcrossing at the Great Northern railroad on state highway, Skagit County. **C. E. Oneal Co., Inc.**, of Ellensburg received a \$239,131 award for 5.8 mi. grading and surfacing on the Wenatchee-Malaga Road in Chelan County.

WYOMING

GLENDON BID — Lytle & Green Construction Co. is low bidder at \$6,270,790 for the construction of the Glendo Dam, powerplant foundation, and roads. The 1,300-day job involves the building of a 2,200-ft. long earthfill dam requiring 4,000,000 cu. yd. of excavation, 2,935,000 fill, and 44,000 cu. yd. of concrete.

A RESOLUTION passed by the Highway Commission states that resident equipment and machinery dealers will be given preference on bids in order that such equipment may be "expeditiously serviced and repaired." The resolution was expected to do away with expensive time de-

lays in repair of equipment purchased from dealers in distant cities and states.

RECENT MAJOR CONTRACT AWARDS and low bids in Wyoming include a \$323,039 award to **Asbell Bros. Construction Co.** of Riverton for 8.6 mi. of grading, draining, and surfacing on the Torrington-Cheyenne road in Laramie County. **Big Horn Construction Co.** of Sheridan received a \$198,842 award for 5.2 mi. grading, draining, and surfacing near Ft. Steele, Carbon County. **Platte Valley Construction Co.** of Grand Island received a \$300,992 award for 6.9 mi. grading, draining, and surfacing on the Dubois road, Fremont County.

ALASKA

ARCTIC RADAR NET — The United States will build and pay for the long-sought radar warning net above the Arctic Circle across the frozen wastes of the Alaskan-Canadian rim of the continent. Canada and the United States have agreed that the United States should build the "distant early warning line." Unofficial estimates put the cost around \$1,000,000,000. No details about the project were disclosed.

RECENT MAJOR CONTRACT AWARDS and low bids in Alaska include a low bid of \$271,500 submitted by **Cole & Paddock** of Juneau for reconstruction of the Coast Guard wharf at Ketchikan. **Keil & Peterman** of Juneau received a \$731,368 award for improvements to the Douglas highway in Juneau. **Grove, Shepherd, Wilson & Kruse, Inc.**, of Seattle received a \$1,377,205 award for construction of two 200-man barracks with mess facilities and outside utilities at Ladd AFB. **Peter Kiewit Sons' Co.** of Seattle received a contract award of \$464,543 for construction of four concrete utilidors at Ladd AFB.

Here and There

THE LAST LOAD OF DIRT has been dumped on the embankment at Garrison Dam in North Dakota. Peter Kiewit-Morrison Knudsen has been handling the job for the Corps of Engineers since 1948. First work was started in 1947 by Garrison Builders, Inc. Bids on the last major contract, Stage II of the spillway, were opened in November and PK-MK was apparent low bidder at \$6,000,000. Work on the contract will not start until next spring and the completion date has been set for December 31, 1957.

See manufacturer's listing page 26H, Yellow Section →

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... in capacity,
speed, earning power



Full convertible.
Buckets from 20 to 32 in.
7 tons capacity as a crane.



Don't limit your production to the pace of old-fashioned machines . . . when you can buy the fast and modern P&H MITI-MITE at such a low price! Hundreds already in service all over the country and plenty more on the way!

Once you see it you'll agree, MITI-MITE is the most rugged little truck crane ever built. Take MITI-MITE anywhere — use it for all jobs . . . many that normally call for bigger machines. *Pocket the savings!* Watch how MITI-MITE handles standard heavy-duty attachments at maximum boom lengths. See the heavy-duty hoe and compare it with any other on the market. MITI-MITE works day after day with only gas and oil maintenance.

MITI-MITE leads the pack . . . the biggest and best producer in its class . . . at a new low price you won't pass up.

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CRESCENT CITY, Calif. Riley Logging Supply Co., Highway "Y"
EL CENTRO, California Purdy-Holmqvist Co., 1275 Main Street
ESCONDIDO, California Southern Equipment & Supply Co., 301 W. Grand
EUREKA, California Riley Logging Supply Co., 1034 Broadway Street
LOS ANGELES 22, California Shaw Sales & Service Co., 5100 Telegraph Rd.
OAKLAND, California Cook Bros. Equipment Co., 416 E. Eighth Street
SACRAMENTO, California Sacramento Valley Tractor Co., 1901 Broadway
SALINAS, California Farmers Mercantile Company, 15 W. Alisal Street
SAN DIEGO 13, Calif. Southern Equipment & Supply Co., 2025 East Harbor Drive
FRESNO, Calif. Allied Equipment Co., 1824 Santa Clara St.

SANTA MARIA, Calif. Hanson Equipment Company, Main St. at Blosser Road
DENVER, Colorado Liberty Trucks & Parts Co., 693 Lincoln Street
BOISE, Idaho Starline Equipment Co., 503 South 16th St.
ALBUQUERQUE, New Mexico Leonard Motor Company, 1211 North 4th Street
RENO, Nevada Jenkins & Albright, 100 Giroux St.
EUGENE, Oregon Loggers & Contractors Machinery Co., 540 Filmore Street
PORTLAND 14, Oregon Loggers & Contractors Mach. Co., 240 S.E. Clay Street
SALT LAKE CITY, Utah Western Machinery Company, 2300 South Main Street
SEATTLE 8, Washington Bow Lake Equipment Co., Inc., 300 Michigan Avenue
SEATTLE 4, Washington Glenn Carrington & Co., 91 Columbia Street
SPOKANE 1, Wash. Construction Equipment Company, E. 3823 Trent Ave.

P&H PACIFIC DIVISION

HARNISCHFEGER CORPORATION

ALASKA Newsletter

By CLIFFORD S. CERNICK, Anchorage

UNEMPLOYMENT HITS PEAK

The unhappiest time of the year in Alaska for the construction industry is the month of December and part of January when the curve of unemployment zooms to its peak. At the present time there are more unemployed in Alaska than at any other time since last winter. Joblessness is heaviest in the ranks of construction workers normally employed on outside work. For example in the Anchorage area alone, there are 281 laborers unemployed. Also jobless are 159 carpenters, 118 truck drivers, 88 painters, 95 heavy equipment mechanics and operators and 39 plumbers. There are now 1,800 unemployed persons in Anchorage which is 500 more than were unemployed last month.

SILVER LINING—There is a silver lining to the bleak cloud of unemployment that has darkened the Alaska job picture. For one thing, employment officials and contractors do not expect the total of unemployment to increase further. Instead they anticipate that from the end of January on, jobs will gradually become more plentiful. If the yearly pattern of unemployment repeats itself, there will be a steady increase in jobs throughout the spring, reaching a peak next August. For another thing, there are fewer construction men in the Anchorage area than last year, largely because fewer outside workers came to the territory during the construction season. This means, of course, that fewer persons will be confronted with the rigors of the Alaskan winter and high cost of living at a time when unemployment is at its worst.

BUSTLING TUNDRA VILLAGE—A dilapidated collection of shacks on the Alaska tundra will be transformed into a busy bustling hub of activity next spring. The town of Naknek on Bristol Bay on the southwest coast of Alaska, never much more than a fishing camp and the site of an ancient native village, is expected to mushroom as a result of plans to expand military facilities there including an airfield, required housing, and utilities. Naknek is one of many almost forgotten tundra villages that give promise of growing under the impetus of military spending for defense of Alaska.

CONTRACTORS' GRAB BAG—If you are a construction contractor and want to save a few chips on supplies for your Alaskan projects you'd

do well to look into the gigantic surplus sale being planned by the Alaska Railroad for next spring. A veritable grab bag of supplies for construction projects will be available to you at rock-bottom prices. Everything from a hand shovel to a locomotive, from a gasoline engine to a couple of hundred miles of copper wire, will go on the block around April of 1955. The mountain of material, valued at more than \$5,000,000 is now located in warehouses and storage yards in the Anchorage area. It was acquired by the Alaska Railroad from the War Assets Administration after the war. Now railroad officials have decided they have no use for the material and will sell it to the highest bidder. If you want further information about this surplus write to Ralph G. Deede, General Services Administration, 901 1st Avenue in Seattle.

RADAR ROUNDUP—A substantial proportion of 1955 construction in Alaska is expected to be in connection with the radar warning network being built across northern Canada and Alaska. A press service statement from Washington, D. C., reports that responsibility for the work of construction and installation of the radar network is vested in the United States. The statement adds that seven radar stations in the Alaskan segment of the line already are in operation. Because of security regulations very little can be said as to the scope of the radar projects other than the information given above.

RADAR AND YOU—How does the announcement of a proposed Alaska radar network affect the construction industry? By reason of the vast sums that will undoubtedly be expended on these projects, a number of major construction contracts will be opened for bids. These will provide an opportunity for both large and small contractors to participate. However, only those contractors familiar with problems of construction in remote wilderness areas where transportation facilities are at a minimum will be in a favorable position for taking these jobs. No doubt some of these projects will be awarded after competitive bidding to firms which already have undertaken and completed similar projects. If you are a construction worker you will no doubt have some opportunity to participate in the radar construction program. If you go to work on such a project, you will find it has certain advantages and disadvantages. For one thing, you will be able to lay up

a good-sized bankroll because wages at these projects generally are quite high and the cost of living in contractors' camps is extremely low, by Alaskan standards. However, the work is usually in remote locations where conditions of weather, isolation, insects, and morale tend to be at their worst. Also unless you are used to working seven days a week such a project is not for you.

BIG PORT PROJECT—A port construction project costing in excess of \$8,000,000 is being planned by the city of Anchorage. The city already has authorized a bond issue in the amount of \$2,000,000 for the project. The balance required is now being sought through Congress as a direct grant. Construction of a year-round port in Anchorage would greatly benefit the construction industry from the standpoint of both cost-saving and convenience. Since a large number of construction projects are situated in the Anchorage area, shipment of supplies could be speeded up and delivered to the job site at lower cost. Previously, most supplies were unloaded at the seaports of Whittier or Seward, then hauled to Anchorage by railroad or truck. Once an adequate port is constructed supplies would come directly to Anchorage where contractors' vehicles could pick them up and haul them to the job sites in a matter of minutes.

COMMERCIAL CONSTRUCTION—A number of sizable commercial construction projects now under way are scheduled to begin next spring and should take up the slack in Alaska construction caused by a dwindling volume of defense projects. Typical of these projects is a huge new \$700,000 motel to be built in Fairbanks by Walter Hickel, Anchorage contractor. Another important project being planned is a \$450,000 school building on the outskirts of Anchorage. A third commercial project is already under way. It is a \$300,000 suburban theatre and supermarket building at Spenard, a community located a mile from Anchorage. What may develop into one of the biggest Alaska commercial projects—a new Methodist college in the Anchorage area—still is in early stages of discussion and planning. The college will be financed through a fund drive in the 48 states and Alaska. When completed, the college, as presently envisioned, will cost between 8 and 10 million dollars.

OIL SPECULATION CONTINUES—Alaskans who are hopeful that some oil firm will strike a gusher and thus give a shot in the arm to the Territory's sagging economy were heartened by the news that the Richfield Oil Company has filed application for leases on 37 sites on the Kenai Peninsula. Richfield thus became the ninth major oil firm to invest in Alaska's oil potential.



**Piled right
for easy digging
with ROCKMASTER®**

Typical ROCKMASTER loading patterns for thorough-cut blasting



This is the kind of breakage and displacement that means economical handling for the contractor. With the ROCKMASTER Blasting System, close control over throw and maximum breakage was obtained by Condon-Cunningham Co. and Peter Kiewit Sons Co., contractors for part of the new West Virginia Turnpike.

The diagrams above show typical ROCKMASTER loading patterns for thorough-cut blasting. The holes are loaded with the earliest delays in the center with successive delays located progressively to

the edges of the cut. As the blast is fired, the first delays give relief to the following holes and movement of the burden is toward the center of the blast area. You can see it in the second photograph . . . movement is in, not out. And the breakage was so thorough this pile was "panned" out.

For results like this, put ROCKMASTER to work on your blasting problems . . . it is the way to better breakage, easier handling. Get complete information on ROCKMASTER by writing for your copy of the new Atlas Explosives Catalog.



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EXPLOSIVES**

"Everything for Blasting"

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WILMINGTON 99, DELAWARE

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ENGINEERS on the move

George E. Lang, new Arizona state highway engineer, has the assistance of **C. B. Browning** in the function of deputy state engineer, and **H. H. Brown** as assistant deputy engineer. Browning was formerly materials engineer and in his new position retains his present status as construction engineer. **W. G. O'Harras** is now engineer of materials, with **R. H. Willow**, assistant. **S. A. Erickson** is engineer of bridges and dams, and **W. N. Price**, former senior resident engineer, is now traffic engineer.

* * *

The annual service award program of the New Mexico State Highway Department this time pays honor to **L. C. Campbell** of Las Cruces and presents him with a 35-yr. award. This is as great a length of time as there has been a New Mexico highway department, the first project having been awarded Oct. 14, 1918. **Lindsay F. Root**, supervisor of the reports and information section, also

reports the appointment of **J. W. McIntosh** as chief accountant. He has been acting chief accountant. Also that **R. W. De LaRue** has been changed from acting right-of-way engineer to right-of-way engineer.

* * *

Charles D. Beach was recently appointed district engineer for the Colorado District, Bureau of Public Roads, succeeding **Jesse E. Williams** who retired after 36 yr. of Federal service. Beach, who has been with the Bureau since 1928, has been engineer in the Colorado district since 1945. Prior to joining BPR he was employed by the Colorado highway department. Williams has accepted a position as advisor to the minister of public works at Bogota, Colombia, S.A.

* * *

L. A. Adams, property and equipment officer with Division 8 of the Bureau of Public Roads, Portland, Ore., retired Nov. 23. He had been



COL. JOHN A. GRAF, newly appointed San Francisco District Engineer, is the youngest officer to have assumed this important post in the San Francisco District.

with the Bureau since 1923, serving part of the time in Washington, D. C., Alaska, and in Costa Rica.

* * *

Col. William F. Cassidy was recently chosen South Pacific division engineer, Corps of Engineers, at San Francisco, to succeed **Col. Paul D. Berrigan**, division engineer since January 1953, who will be assigned elsewhere soon. A graduate of the



Cassidy

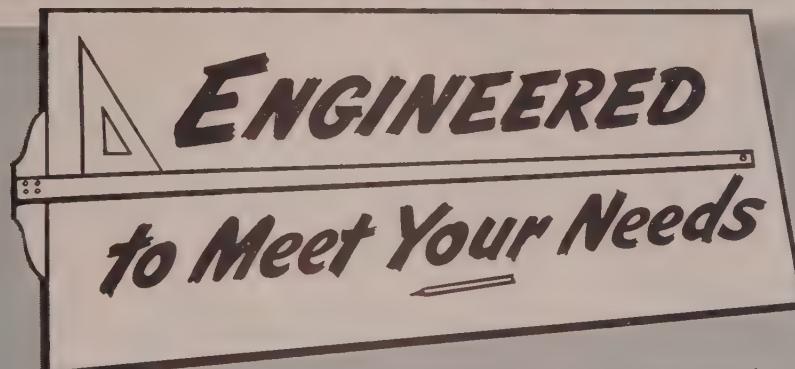
United State Military Academy, Colonel Cassidy has served since last August as assistant South Pacific division engineer.

* * *

When the Nellis AFB project, Indian Springs AFB project, and the Nellis Ordnance Storage Area project of the Corps of Engineers were combined under the Nellis Project last October, **Bruce W. Bennett** was relieved of his duties as project engineer at Nellis ordnance storage area, and **Beattie C. Hedrick** was assigned as project engineer responsible for all construction at

COLONEL Arthur H. Frye, Jr., district engineer for the Los Angeles District of the Corps of Engineers, late last year presented **Charles W. Phillips**, supervisory engineer, with a check for \$275 for a suggestion that was put into effect in the engineering division at an estimated savings of \$42,000 per annum, for the Los Angeles District alone. The suggestion has already been referred to higher echelon. Mr. Phillips suggested the elimination of a "projected cost" estimate now being prepared by architect-engineer firms preparing designs for Air Force construction. Instead they will make more detailed "control" estimates and revise them just before advertising for bids, thus saving time and a considerable amount of money.

Austin-Western CRUSHING EQUIPMENT



Skilled engineering characterizes each and every Austin-Western crushing and screening plant, which is tailor-made to a particular production problem.

- Portable crushing and screening plants
- Stationary crushing, screening and washing plants
- Jaw crushers from 10" x 16" to 32" x 40"
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- Conveyors • Screens • Feeders,
bins and auxiliary equipment



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CRUSHING, SCREENING
and WASHING EQUIPMENT



Construction Equipment Division

BALDWIN-LIMA-HAMILTON CORPORATION
Construction Equipment Division
LIMA, OHIO, U.S.A.

See manufacturer's listing page 7H, Yellow Section

these locations. Bennett was reassigned as project engineer at Camp Cooke, Lompoc, Calif.

*** G. Donald Kennedy was elected president of the Portland Cement Association at the annual meeting of the association in November. He succeeds Carl D. Franks, who retired after 38 years of service with the association. Kennedy joined PCA in January 1950 as consulting engineer and assistant to the president. He was appointed executive vice president in May 1953. Franks, who was president for the past year and a half, has served with the organization since its establishment in 1916. Kennedy has a record of over 24

years' experience in the fields of structural, municipal, and highway engineering. At one time, prior to joining the PCA, he was consultant to several states, including Oregon, Washington, and California, on the development of long-range highway programs.

William W. Moore, San Francisco foundation engineer and partner in the firm of Dames & Moore, has been elected president of the Consulting Engineers Association of California. Other new officers, elected at the recent annual meeting, are Stephenson B. Barnes, member of the state board of registration for engineers, vice president; and

Homer W. Jorgenson, Modesto sanitary engineer, secretary-treasurer.

George T. McCoy, California State Highway Engineer, is the new president of the American Association of State Highway Officials, succeeding A. E. Johnson. McCoy was elevated from the position of first vice president at the 40th annual AASHO convention held in Seattle, Wash.

T. P. Stivers, former South San Joaquin Irrigation District engineer and executive engineer of the Tri-Dam Project, has been appointed executive secretary of the California Districts Securities Commission.

DEATHS

Walter Johannessen, 63, died suddenly of a heart attack on Nov. 15 at his home in Phoenix, Ariz. He was senior engineer and partner in the consulting engineering firm of Johannessen and Girand.

Francis C. Bach, 44, city engineer of Lovelock, Nev., died suddenly at his home. He had been city engineer since 1947.

John Zoss, 67, died recently after a brief illness. A bridge engineer with the Bureau of Public Roads, Division 8, Portland, Ore., he had been resident engineer on Blue Creek Bay Bridge near Coeur d'Alene, Idaho.

Daniel A. Peterson, draftsman in the plans and contracts division of the Washington Department of Highways, died Oct. 23.

CALENDAR

- Jan. 10-13—American Road Builders' Association, annual meeting at Roosevelt Hotel, New Orleans, La.
- Jan. 23-28—Associated Equipment Distributors, annual meeting, Conrad Hilton Hotel, Chicago.
- Feb. 2-4—Institute of Transportation and Traffic Engineering, 7th annual California Street & Highway Conference, at the University of California, Berkeley.
- Feb. 6-11—American Society of Civil Engineers, national convention, Hotel U. S. Grant, San Diego, Calif.
- Feb. 7-9—Association of Asphalt Paving Technologists, annual meeting, Jung Hotel, New Orleans.
- Feb. 24-25—Highway Engineering Conference of the University of Colorado, annual conference, Boulder, Colo.
- Mar. 9-12—American Concrete Pipe Association, annual meeting at Sheraton-Plaza Hotel, Boston.

WHEN WILL SCHRAMM BUILD A ROTARY COMPRESSOR?

Schramm might build a rotary compressor when the rotary compressor can be built that will perform better than the Schramm UNISTAGE compressors they are now building.

Schramm might consider a rotary compressor if one could be built that would:

Have as low maintenance as the Schramm UNISTAGE;

Use as little fuel as the Schramm UNISTAGE

Be as easy to service as the Schramm UNISTAGE

Have as simple controls as the Schramm UNISTAGE

So far — none have been built that can equal the economy and performance of the Schramm UNISTAGE.

Records of Schramm users have proved this!

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SCHRAMMAIR YOUR JOBS

For Your Plant

DEPENDABLE WATER SERVICE

Plus

ASSURED FIRE PROTECTION

—in a single storage unit

**PITTSBURGH
•DES MOINES
ELEVATED
STEEL TANKS**

Combining 25,000 gallons of water storage for regular use with a fixed reserve of 75,000 gallons for sprinkler demand, this 100,000-gallon Pittsburgh-Des Moines Double-Ellipsoidal Elevated Steel Tank is of a type and size widely favored by industrial plants, hospitals, institutions and smaller communities.

The tank and its 100-foot tubular column tower are of welded construction. The pleasing appearance of the unit results from balanced, functional design; it is standardized throughout for maximum dollar value to the purchaser.

Write for our complete Elevated Tank Catalog, free on request.



100,000-gallon P-DM dual service elevated steel tank at Hartford Special Machinery Co., Simsbury, Conn.



Diagram illustrates plant-use storage down to 75,000 gallon level. Balance of tank and riser capacity reserved for fire protection only, supplying automatic sprinkler system.



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CHICAGO (3),	1224 First National Bank Bldg.	SEATTLE,	528 Lane Street
LOS ANGELES (48),	6399 Wilshire Blvd.	SANTA CLARA, CAL.	627 Alviso Road



SUPERVISING the jobs

T. H. Lind, job superintendent, and K. V. Bull, engineer, are key men for C. E. Youngdahl & Co. which recently won a \$1,478,000 contract for the erection of ten reinforced concrete steel frame buildings on a new high school project at Vancouver, Wash. This is a 450-day job which has been under way since early October.

* * *

Edward J. Clark is general superintendent for Viesko & Post and Hoffman Construction Co., joint contracting firm which is putting up the \$8,000,000 department store at Salem, Ore., for Meier and Frank Co., Inc.

* * *

D. D. (Don) Morgan, project manager, and H. R. Carver, general superintendent, with H. D. White, general foreman, are top men on construction of a motel at Marysville, Calif. Contract is being executed by Rice Bros., Inc., at a cost of about \$200,000.

* * *

Charles J. Johnson, project manager, and William R. Wilson, super-

intendent, assisted by O. R. Kennen, Jr., are top men for Parker Johnson Co. which recently received a subcontract at about \$250,000 for concrete and reinforcing steel superstructure of the Columbia River Bridge at Umatilla, Ore. Prime contractor is American Bridge Division of U. S. Steel Corp.

* * *

Phil Treat, general superintendent; Fred Maas, job superintendent; Harry Scott, field engineer, and "Doc" Shaw, office manager, are top men on the construction of Westchester High School, Los Angeles. This is a 450-day contract which recently went to J. C. Boesplug Construction Co. on a bid of \$4,213,000.

* * *

C. U. Forrest is project manager for Robert E. McKee on a \$3,800,000 construction of two hangars (maintenance) at Kirtland AFB, Albuquerque, New Mex., for the Corps of Engineers. General superintendent is A. W. Irwin, who recently replaced L. V. Jorgensen in the spot. The following are foremen: Jack Wallace,

ironworker; Charles Westerhold, carpenter; Paul Martin, brick; and James Powell, labor.

* * *

C. H. Taylor, general superintendent, and John Medley, assistant superintendent, are top men heading the crew of Haddock Engineers, Ltd., working on the erection of four buildings at Kirtland AFB and other buildings at Sandia AFB in Albuquerque, New Mex. Carpenter foremen are: Tom Chapel, Floyd Bentley, "Bill" Rillinger, Harold Noble, and Ray Cook. This contract is expected to end March 1955.

* * *

B. H. Pebley is general superintendent and Fred Singleton is assistant superintendent for North West Engineering Co. on a grading and paving job consisting of a 6-mi., 4-lane highway, Denver to Broomfield,



White

Pebley

Colo. Also working on this stretch of the Valley Highway are: Guy Mertz and Nolan Yates, grade foremen; George Babb, structures foreman; N. H. Christy, pipe foreman, and Tex Hayes, master mechanic. Val White is office manager.

* * *

John N. Matich, project manager, and Ed Morse, superintendent, are top personnel on a \$183,894 contract recently awarded Matich Brothers for highway work in San Bernardino County, Calif., about 2 mi. north of Redlands. Work involves 1.6 mi. to be graded and surfaced. Charlie Harp is concrete foreman. Frank Garcia is plant-mix foreman and Sam Payton is master mechanic. James Whelan is acting as purchasing agent.

* * *

Dave Boswell (not "Broswell" as misspelled in the Nov. issue) is directing the contract for earthwork, clearing, and structures in connection with the rehabilitation of drains on the Middle Rio Grande project in New Mexico. Assisting him is Charlie Gardner. The work is being done by Boswell Construction Co. for the Bureau of Reclamation at a cost of \$127,980.

* * *

Dan Ratliff is the superintendent on a \$529,429 job of grading, draining, surfacing, and miscellaneous work on

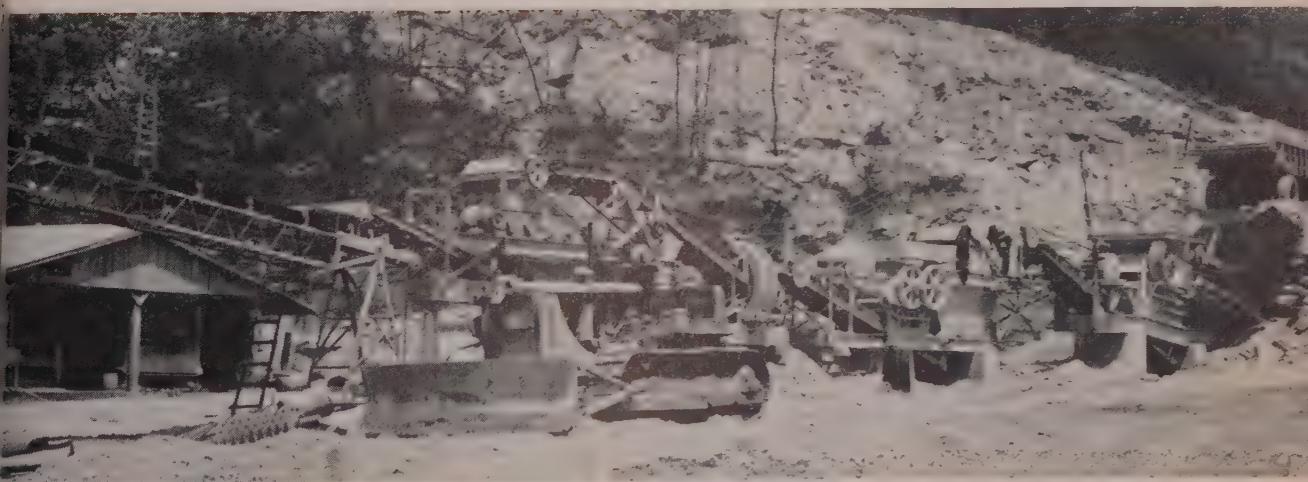
Down-time By Domagalski



HOW CAT* ENGINES HELPED PRODUCE 3,000,000 TONS OF CRUSHED ROCK —IN A HURRY



Lambert Brothers crushing plant uses a D13000 to help produce 1,000,000 tons quickly.



Two Cat Electric Sets supply all the power for Central Materials crushing plant.

BECAUSE the 88-mile West Virginia Turnpike was to be paved in four months, 3,000,000 tons of rock required for base material had to be crushed and stockpiled starting in mid-winter. At the seven crushing plants, Caterpillar yellow was a predominant color.

Reported L. Freeman, plant foreman, Central Materials Corp., Canandaigua, N. Y.: "These Caterpillar Diesels are the answer to the prayer and wishes of a rock-crushing company. They furnish all our electric power. We needed an absolutely dependable power supply and the Cat Engines gave it to us. They couldn't be better."

Central Materials supplied 500,000 tons from two plants. A D386 and a D364 Electric Set powered a Cedarapids crusher designed to produce 250 tons an hour. A D8 with 'dozer worked at the quarry and a No. 12 Motor Grader leveled at the stockpile.

Reported Charles Ogle, superintendent of Lambert Brothers, Inc., Knoxville, Tenn.: "Our Caterpillar Diesel Engines stand up under hard conditions. They require less attention than other diesels. The abrasive dust from the crushers does not get into their internal parts to cause expensive wear and down time."

Lambert Brothers plant produced 1,000,000 tons. A Caterpillar D8800 Electric Set powered belts and screens.

Two Telesmith 30 x 42 jaw crushers were each powered by a D13000 Engine. A D6 worked the quarry.

Here then are two good reasons to have modern, heavy-duty Cat Diesels on your side when a big job has to be done and done fast. One contractor liked their dependability, the other the way their seals and filters eliminated premature wear.

Next time you order new equipment, get the best—specify Caterpillar Engines. Leading manufacturers of crushers, excavators, compressors and other construction machinery can furnish Cat Engines as part of their equipment. And when it's time to repower, your Caterpillar Dealer can show you 12 sizes of engines and electric sets up to 500 HP and 315 KW.

Caterpillar Tractor Co., San Leandro, Calif.; Peoria, Ill., U. S. A.

CATERPILLAR*

*Both Cat and Caterpillar are registered trademarks—®

**MODERN
HEAVY-DUTY POWER**



CONSTRUCTION OF A new dormitory on the campus of the Colorado A. & M., Fort Collins, Colo., is a \$1,250,000 contract of Mead & Mount Construction Co. Here are some of the chief personnel: (left) John T. Hogan, general superintendent; Barney Overhiser, ironworker foreman; Bob Hinkle, carpenter foreman; Don Bashor, labor foreman.

a 2.9 mi. stretch of Thermopolis-Shoshoni road in Wind River canyon from tunnels north, in Fremont and Hot Springs counties, Wyo. Inland Construction Co. has the contract. Most of excavation is solid rock. The job started in late October and is expected to be finished this August.

* * *

Larry Mahan, superintendent, and **Bill Ille** and **Larry Heilman**, foremen, are among the top men working for S. Birch & Sons Construction Co. on a \$336,198 award for grading, draining, surfacing, and miscellaneous work on 3.5 mi. of the Rawling-Medicine Bow road, Carbon County, Wyo. This is a 6-months' job which has been going since Oct. 10. **K. N. Dahl** is in charge of the office.

Frank G. Huston, superintendent, and his assistant **Thomas E. Mason**, are supervising the construction of a building for the California Division of Highways at San Luis Obispo, a \$358,000 contract which Lew Jones Construction Co. has under way since early November 1954 and expects to finish by late June.

* * *

Richard A. Mortensen is supervising the construction of 2.3 mi. of grading and oiling on the Shady-Canyonville section of Pacific Highway north from Myrtle Creek, Douglas County, Ore., for Kuckenberg Construction Co. Other important men on this \$620,567 contract are **Jack Griffin**, foreman, and **E. I. Park**, timekeeper.

and Jim Hogan, assistant superintendent; (center) **Don Chestnut**, plumbing superintendent, and "Doc" **Gray**, heating superintendent, working for Johnson-Davis, subcontractor; and (right) **R. D. Pierce**, electrical superintendent for Fort Collins Electric Co. Begun last June, the job is scheduled for completion in September this year.

Earl Sherman is directing the construction of the Arroyo High School in El Monte, Calif., for the Crown Construcion Co. which is doing the \$1,042,327 job. Other important personnel are **Allen Katz**, project engineer; **Thor O. Thorson**, superintendent; and **Edward Shapiro**, administrator. A 300-day job. work started in mid-October last year.

* * *

Charles H. Calkins, project manager; **Floyd E. Muth**, general superintendent; **Fred Muth**, clearing and drainage superintendent, and **Mike Berosik**, equipment superintendent, comprise the top personnel working on a 4.5-mi. grading and paving contract on Highway 2-A, Midlakes to Kirkland, King County, Wash. This \$422,063 contract was awarded to Herman Kathman, contractor, who started work in early November and expects the job to run 250 days.

* * *

Hubert M. Roth, general superintendent, heads the construction personnel of England & Roth Construction Co. which was awarded a contract for grading, borrow-topping, and draining a section of road in Fergus County, Mont., from Grassrange to Malta. Acting as foremen on this \$680,303 project are **D. F. England**, **H. E. Roth** and **R. A. Millard**. **J. R. England** is in charge of the contractor's home office in Rapid City, So. Dak.

* * *



COLORADO STATE Highway Department's new office building is fast going into the last construction stages. **C. G. Marrs** is project manager for C. H. Leavell & Co., which is doing the \$1,875,000 job. Pictured here are four of the principal supervisors (l. to r.) **J. A. Filippini**, ironworker foreman; **J. S. Cohrs**, assistant engineer; **H. E. Monroe**, superintendent, and **J. A. Trujillo**, engineer. Others, not shown, are **C. W. Crees**, superintendent of labor, and **Warren Kruse** and **James Halepeska**, carpenter foremen. "Buzz" **Gray** is resident engineer.

Rexford B. Stuart, superintendent; **James Davis**, grade foreman; and **Ralph Stalsberg**, clearing foreman, are top personnel of the Curtis Construction Co. which is working on 11.2 mi. of grading on the Priest River road in Kaniksu National For-

MORE CYCLES PER DAY



AS A 1 3/4-YARD DRAGLINE. This fast swinging K-375 rig digs coral rock and sand in Florida. Speed-o-Matic control makes dig-swing-dump one fluid motion because operator has perfect "feel" of the load. There are no grabby clutches that produce lag and lost motion.



AS DEEP-DIGGING TRENCH HOE. This K-360 with 1 3/4-yard hoe makes full use of its 142 net hp, a natural for those deep, tough sewer jobs.



AS A HEAVY-DUTY 1 3/4-YARD SHOVEL. High strength components—precision machined—assure profitable, trouble free performance.

K-300 series shovel-cranes with Speed-o-Matic control, 142 net hp, plus greater "live weight" can boost your output up to 25%

IT'S not only how much per bucket—but *how many* buckets per day that piles up profits for shovel-crane owners. Smooth, instantaneous response of Speed-o-Matic power hydraulic control means faster, more productive cycles. Gives operator positive control for pinpoint accuracy and maximum safety. Cuts end-of-day fatigue too!

The 142 usable net hp gives you more digging or lifting power. And it has the built-in stamina

and "live weight" necessary to produce under continuous use of this extra horsepower.

Equally important, with full convertibility you have maximum use of your K-300 rigs for hundreds of 1 3/4-yard jobs. Ask your distributor, or write for K-300 series literature now.

13-626-A

LINK-BELT SPEEDER CORPORATION
Cedar Rapids, Iowa

BUILDERS OF A COMPLETE LINE OF CRAWLER, TRUCK AND WHEEL-MOUNTED SHOVEL-CRANES

LINK-BELT SPEEDER

See manufacturer's listing page 33H, Yellow Section



Building a Reputation

Consistent achievement year after year — that's what makes a reputation, especially in a field as demanding and complicated as tunnel construction.

In the field of bonding, too, consistently good service to contractors has won an outstanding reputation for the *Ætna* Casualty and Surety Company. For years, the *Ætna* has been known for prompt, expert service — on jobs of all sizes, in all sections of the country.

The next time *you* need a bond, why not join the many hundreds of leading contractors who bond with *Ætna* — always.

No job too big--no job too small

ÆTNA CASUALTY AND SURETY COMPANY

AFFILIATED COMPANIES: *Ætna* LIFE INSURANCE COMPANY
AUTOMOBILE INSURANCE COMPANY • STANDARD FIRE INSURANCE COMPANY

HARTFORD 15, CONNECTICUT



est, Idaho, a \$258,045 project which got under way the middle of November and will run 180 days.

* * *

Claude McKim, superintendent, assisted by Walt Drexler, shovel foreman; Bob DeCamp, clearing foreman; and John Baker, drill foreman, is directing the work of Miller & Strong, consisting of 2.4 mi. of grading on the Lewis & Clark highway east of Kooskia, Idaho. Master mechanic on this \$141,340 job is Lee Colwell.

* * *

B. A. Snow, general superintendent, with the aid of Ernest Rans, assistant superintendent, is supervising the construction of the Arapahoe steam plant at Denver, which is being built for the Public Service Co. of Colorado by the Ebasco Services, Inc., at a cost of about \$15,000,000. Others among the key men are K. S. Stanton, chief inspector; G. G. An-



Stanton

Rans

McFadden

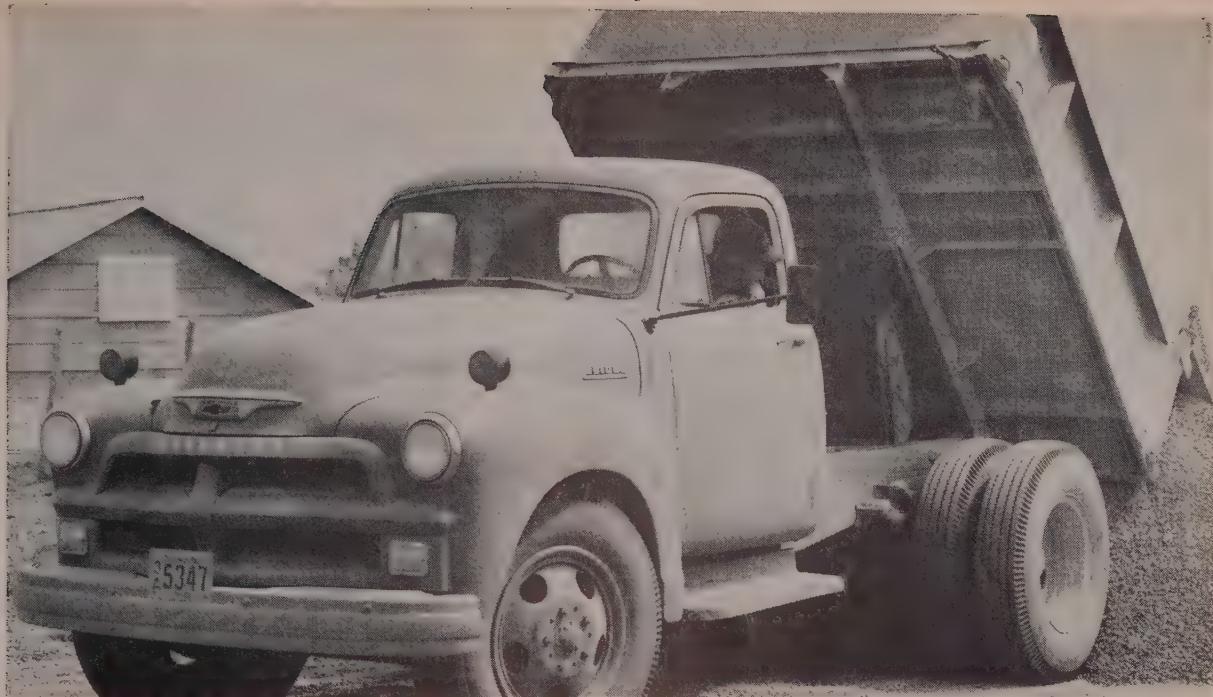
derson, office engineer; D. P. Durkee, purchasing agent; W. H. Thomas, field engineer; and the following superintendents and foremen: Superintendents: B. W. Bates, pipe; G. R. Fickel, electric; J. H. Maxwell, boiler; and L. H. McFadden, steel. Foremen: M. M. Carraher, boilermaker; P. A. Callicrate, millwright; A. E. Carlson, crane operator; E. H. Brown, cement finisher; W. A. Fee, brick; A. R. Collins, carpenter; and F. H. Covey, labor. Job is scheduled to be completed by mid-year.

* * *

O'Neil Jones, project manager; A. M. Stolzenburg and Carl Lowry, superintendents, are top men working for Albert Lalonde Co. on this contractor's job consisting of 14 mi. of grading, graveling, lining, and surfacing, including 715,883 cu. yd. of excavation, in Teton County, Mont. This is a \$516,303 award, a 300-day job.

* * *

Paul Cross and Cliff Earsley, superintendents; and Earl Shannon, assistant superintendent, comprise the top personnel working on a contract recently awarded to Henry Thygesen & Co. for 2.4 mi. of grading and surfacing on the Cerrillos road-Las Vegas highway in Santa Fe, New



NEW CHEVROLET TRUCKS

engineered and designed with your profit in mind!

Everything about these new Chevrolet trucks spells *profit!* Their low cost, their stamina and dependability, even their traditionally higher resale value!

COST LESS TO BEGIN WITH

That's right, Chevrolet brings you America's lowest-priced line of trucks—so you save right from the start. The beauty of it is, you go right on saving! With the high compression ratio of Chevrolet's three great engines, you register more miles on the job for each tankful of gas. You can count on fast starts; easy pulling up steep grades. You stay on schedule and keep the profits coming in *on time!*

COST LESS TO MAINTAIN

That's because of the rugged strength and stamina engineered into every new Chevrolet truck. They stay on the job longer (actual owner reports prove it!), cutting your maintenance costs right to the bone. Look over the many advance-design features in the next column and you'll begin to see why.

Your best bet is to talk trucks with your Chevrolet dealer. He'll tell you all you want to know about these Chevrolet profit-makers! . . . Chevrolet Division of General Motors, Detroit 2, Michigan.



CHEVROLET ADVANCE-DESIGN TRUCK FEATURES

THREE GREAT ENGINES—The "Jobmaster 261" engine* for extra heavy hauling. The "Thriftmaster 235" or "Loadmaster 235" for light-, medium- and heavy-duty hauling. **TRUCK HYDRA-MATIC TRANSMISSION***—offered on $\frac{1}{2}$ -, $\frac{3}{4}$ - and 1-ton models. **Heavy-Duty SYNCHRO-MESH TRANSMISSION**—for fast, smooth shifting. **DIAPHRAGM SPRING CLUTCH**—positive-action engagement. **HYPOID REAR AXLE**—for longer life on all models. **TORQUE-ACTION BRAKES**—on all wheels on light- and medium-duty models. **TWIN-ACTION REAR WHEEL BRAKES**—on heavy-duty models. **DUAL-SHOE PARKING BRAKE**—greater holding ability on heavy-duty models. **RIDE CONTROL SEAT***—eliminates back-rubbing. **LARGE UNIT-DESIGNED PICKUP AND PLATFORM STAKE BODIES**—give trip-saving load space. **COMFORTMASTER CAB**—offers greater comfort, convenience and safety. **PANORAMIC WINDSHIELD**—for increased driver vision. **WIDE-BASE WHEELS**—for increased tire mileage. **BALL-GEAR STEERING**—easier, safer handling. **ADVANCE-DESIGN STYLING**—rugged, handsome appearance.

*Optional at extra cost. Ride Control Seat is available on all cabs of $\frac{1}{2}$ -, $\frac{3}{4}$ - and 2-ton models, standard cabs only in other models. Jobmaster 261^{1/2} engine available on 2-ton models, truck Hydra-Matic transmission on $\frac{1}{2}$ -, $\frac{3}{4}$ - and 1-ton models.



R. T. BICKHARD CONSTRUCTION CO. is handling the construction of the 15-story Farmers Union Bldg. going up in Denver, a \$3,000,000 structure. Shown here are (left) "Hank" Ruff, labor foreman; Ernie Little, steel superintendent; J. D. Martin (Jumbo), project superintendent, and Bob Graham, job engineer; (center) Dick Swartz, carpenter fore-

man, and Elwood Cottrell, cement finisher foreman; (right) Frank Kronquist, carpenter foreman; Everett Trujillo, labor foreman; Bob Armstrong, ironworker foreman; Don Glass, carpenter foreman, and Felix Trujillo, labor foreman. Leo Lavelle (not shown) is another ironworker foreman on the job. Building will soon be turned over to the owner.

Mex. This \$179,261 job was scheduled to start Dec. 6, 1954, and is expected to take 125 days.

* * *

C. R. Jurgensen and **Walter Gott**, both superintendents for O. D. Cowart, are supervising a \$562,052 job of grading and surfacing 8.3 mi. of the State College south road in Dona Ana County, New Mex. **Clyde R. Fulton** and **Cecil Raley** are foremen on the work. Office manager is **Fred Roeder**.

* * *

Charles A. McMahon, who recently completed the Anheuser-Busch Brewery construction in Los Angeles, has been chosen project superintendent on the Big Broadway-Valley Department Store to be constructed at the corner of Van Nuys Blvd. and Roscoe Blvd., Los Angeles, by **Louis C. Dunn, Inc.**, contractor.

* * *

R. M. Skamnes, acting as superintendent, assisted by **Frank Wiggs**, foreman, is supervising a contract awarded Brighton Sand & Gravel Co.

and R. M. Skamnes for 1.3 mi. road work on County Rt. 901 and for construction of two reinforced concrete and steel bridges across the Mokelumne River near Lockeford, Calif. Job will probably end in June this year.

* * *

Bill Cole is superintendent for Peter Kiewit Sons' Co. on about an 8-mi. job of grading on Oregon Forest Highway, Curry County, Ore., a \$723,731 award. **Harry Eckstein** is job office manager. Work got under way Nov. 1, 1954, and will run for 400 days.

* * *

G. C. Blackwood, general superintendent, assisted by **O. A. Peters** as general foreman, and **Joe Vasilinda**, brick foreman, is supervising the construction of a headquarters building at Kirtland AFB, Albuquerque, New Mex. Foster Construction Co. is doing the job for the Corps of Engineers.

* * *

R. R. Thomas, Sr., superintendent; **G. Sutherland**, foreman; and **W.**

Tange, Jr., timekeeper, are among the key men working on the Riverside High School auditorium at Riverside, Calif., a \$600,000 job being executed by the Baruch Corporation. Construction is expected to be finished in March 1955.

* * *

Albert S. Olsen is superintendent for **Meredith & Simpson**, contractor on addition to the Coachella Valley Union High School at Coachella, Calif., a lift-slab construction.

* * *

Floyd C. Cantrell of the firm of **Todd & Cantrell Construction Co.** is supervising construction on the bridge north of Indio, Calif., on Highway 99. Bridge railing forms of contractor's own design are being used on this and other bridge structures in the state.

* * *

Arnold Lindeland and **Stanley Quigley** in partnership are directing the work of grading 18.3 mi. on the Old Oregon Trail and constructing a 60-ft. bridge and 13,000 rods of fencing. This work is in Malheur County, Ore. Contract was awarded to Earl L. McNutt and work started in September last year and will probably end late in 1955. It is a \$1,251,712 job.

* * *

R. A. Neumeister is superintending a \$371,955 job involving construction of 1,850 lin. ft. of steel piling bulkhead and dredging 350,000 cu. yd. of fill for channel in the state of Washington. **Hugo Johnson** is dredge superintendent. **G. Palmberg** is the contractor.

* * *

W. O. (Bill) Loy as general superintendent for **Fredericksen & Kasler** heads up a job for this contractor in Imperial County, Calif. **George Bell** is plant superintendent and **Jimmie Fair** is street foreman on the same project, which is just about completing. Contract price was \$333,333.



NEARING COMPLETION at Albuquerque, New Mexico, is the new sewage treatment plant. **C. H. Leavell & Co.** is the contractor on this \$1,200,000 project. **Raymond Nethers** is inspector for the City. Here are some of the contractor's personnel: (l. to r.) **W. H. Haws**, assistant superintendent; **B. C. Johnston**, steel foreman, and **Paul Nigh**, general superintendent; **D. C. Roderick**, labor foreman; and **E. K. Brown**, carpenter foreman.

ON THE JOB,

... ON TIME!

STANDARD PORTLAND
MODIFIED PORTLAND
HIGH EARLY STRENGTH
LOW HEAT
SULPHATE RESISTANT
PRONTO (Pipe Cement)
PORTLAND POZZOLAN
BRICK MIX
PLASTIC CEMENT
OIL WELL CEMENTS



*On the job - On time **

WITH THE WEST'S LARGEST PROPRIETARY FLEET OF BULK CEMENT TRUCKS

Good service requires good equipment — so Permanente bought the best! More than \$800,000 worth of high speed, lightweight, diesel-powered tractor-trailer units, built by two of the Nation's leading manufacturers of heavy duty trucks. The units were specially designed for high efficiency operation on the roads of Northern California and Western Nevada, and to most effectively meet the varying delivery problems of customers throughout the territory.

The extensive use of aluminum in the tractors, trailers and bulk tanks resulted in such a reduction of dead weight that pay load capacity has been increased to 143 barrels per unit — over 8,000 lbs. more cement per trip than the older style trucks.

Permanente's new Lightweight Truck Fleet, supplemented by regular contract carriers, will enable the Company to strengthen its services to customers throughout Northern California and Western Nevada — and will assure availability of all required equipment during the peak delivery periods of the construction season.

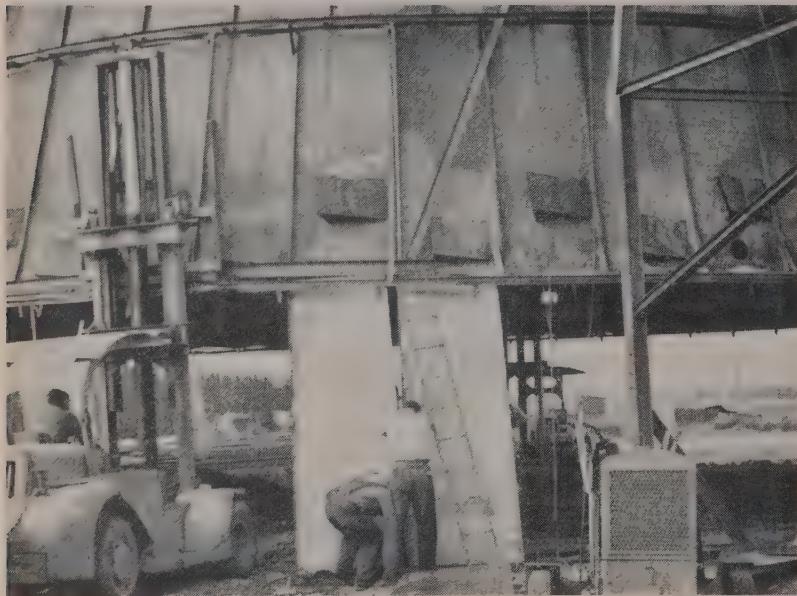
**PERMANENTE
CEMENT COMPANY**

PERMANENTE, SANTA CLARA, YOSEMITE AND KAISER BRANDS OF PORTLAND CEMENT AND PERMANENTE LIME PRODUCT:

OAKLAND • PORTLAND • SEATTLE
ANCHORAGE • FAIRBANKS • HONOLULU

* SERVICE MARK

TRICKS of the TRADES



Time saving lift on waste burner

USING FOUR Hyster "150" Lift Trucks, the Olson-Ross Lumber Co. burner at Medford, Ore., now has a 20% increase in burning area. The company's burner was originally a 60 x 60-ft. model rated at 100,000 fbm. on a single shift. When they added equipment and increased their cut to 200,000 fbm. each shift, a larger burner was necessary.

A unique plan for on-the-spot en-

largement was advanced by the Medford Blow Pipe Co., Inc., and the Rees Blow Pipe Co. of San Francisco. The four Hyster units were positioned at strategic spots around the burner and the entire 20-ton structure was raised 10 ft. while a new course was constructed at the base. The entire operation was completed without difficulty and with a minimum loss of operating time.

New vermiculite use

AN UNPROTECTED steel roof construction seven times more fire resistive than anything else in its field was recently announced in Chicago at the completion of Underwriters Laboratories tests. The roof, consisting of reinforced vermiculite insulating concrete on a ribbed steel deck whose underside was completely exposed to the fire, withstood temperatures ranging up to 1,830 deg. F. for 1 hr. 49 min.

Unprotected rolled structural steel has a fire resistance of approximately 15 to 20 min. according to Edward R. Murphy, director of the Vermiculite Institute, sponsors of the test. "This

is the first unprotected roof construction using vermiculite concrete ever tested, and points to greater plant safety and considerable insurance savings," he said. Cost of the new system is comparable with other unprotected systems.

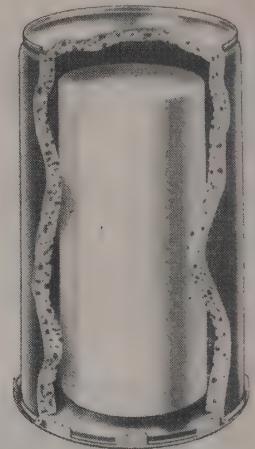
In many fires involving unprotected steel roof decks, the heat causes the decks to buckle. Molten pitch or asphalt from the vapor barrier or roofing then pours down on the fire and adds to the blaze's intensity. Even at the end of the test period, the vermiculite-steel roof deck did not collapse, and deflections were nominal.

The test slab consisted of 3 in. of 1:4 mix reinforced vermiculite con-

crete on Detroit Steel Products Company's Holorib steel deck. A steel beam supported the deck in the center. The beam was individually protected with metal lath and vermiculite plaster. The slab, loaded to 40 lb. per sq. ft. was then subjected to temperatures in accordance with American Society of Testing Materials standard fire test.

Controlled curing

A NEW AND INEXPENSIVE method for curing concrete test cylinders in the field under controlled humidity and temperature conditions has been developed by a Midwestern concern. The test cylinders are placed in a ruggedly constructed metal curing can, lined with a thick layer of Dupont cellulose sponge. This interlining permits the absorp-



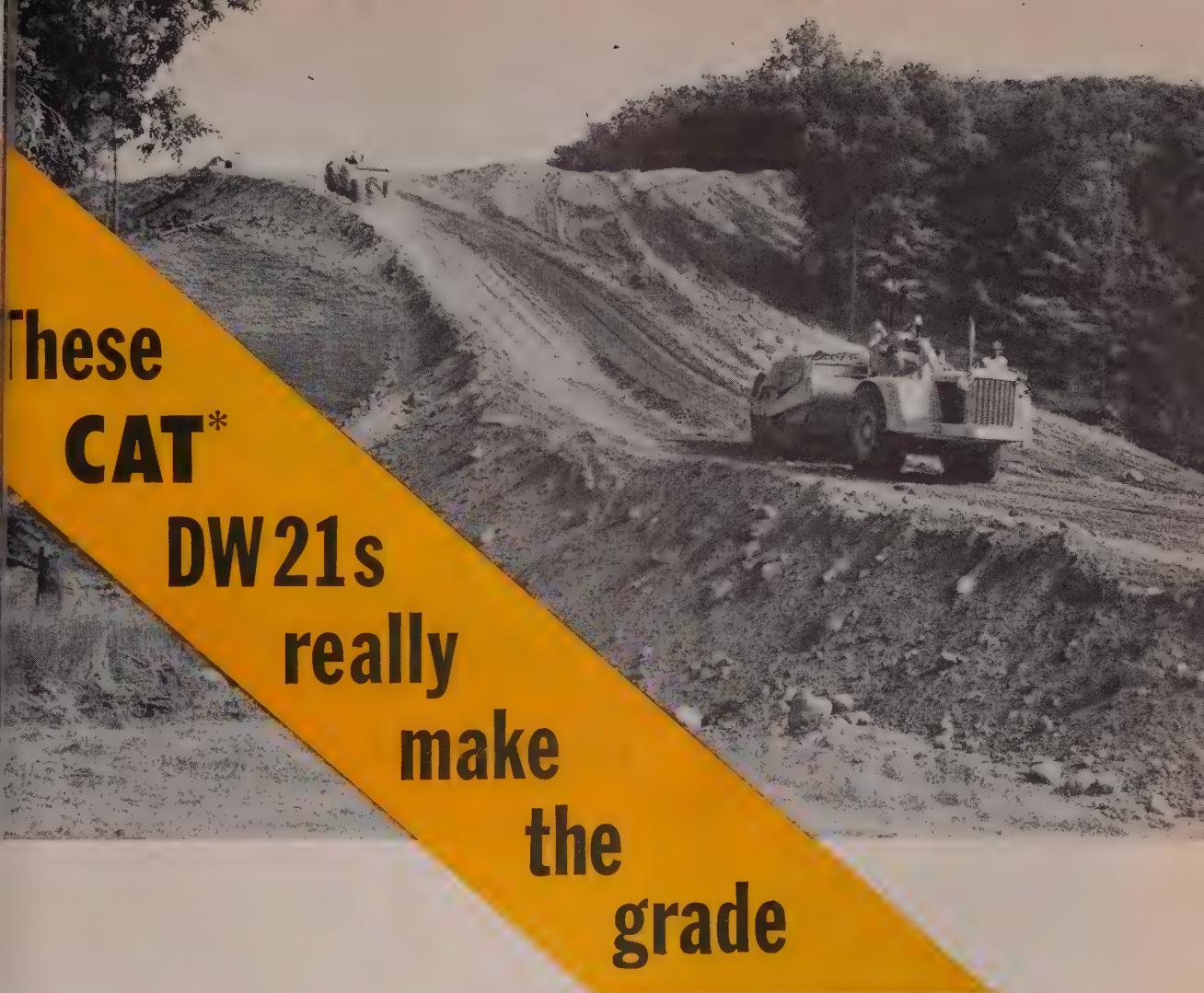
tion of 2 to 4 qts. of water and will retain 60% of this water at 7 days. The bottom of the can has a special gasket that insures a complete seal when the top is in place.

With this equipment, concrete test cylinders can be cured satisfactorily in a field laboratory during the hot summer. After the test cylinders have been prepared and the sponge liner of the curing can thoroughly saturated with water—then adequate humidity is assured for proper curing. During winter field operations, the liner used in a dry condition helps as an insulating agent at low temperatures. The "Acme" curing can is made by E. W. Zimmerman of Chicago, Illinois.

For moving mountains

THE LARGEST BULLDOZER BLADES ever manufactured are being produced by Gar Wood Industries, Wayne, Mich. The giant dozers have a moldboard measuring 5 ft. high and 24 ft. long. Each dozer is mounted on two Allis-Chalmers HD-

See manufacturer's listing page 13H, Yellow Section →



These CAT* DW21s really make the grade

THAT's a 28% grade these Caterpillar DW21 Tractors with No. 21 Scrapers are working.

They're starting an 85-foot cut through sandy clay and boulders. The DW21s load on the level, haul downhill, then scoot back up that slope for more.

"A steep grade like this is certainly a tough tryout for any rubber-tired machine," says Oscar Lindstrom, superintendent for Victor Nelson Construction Company, "but those DW21s take it in stride. They're about the best earthmovers you'll find on rubber."

Here, southwest of Slinger, Wisc., constructing a new grade and right-of-way for U.S.-Wisconsin No. 41, each of four Cat DW21 Tractors is moving 250 yards an hour—830,000 yards in all. "They handle a great deal of payload in a day," says Superintendent Lindstrom.

Other users say much the same. One reason: the DW21 is the only two-wheel earthmover designed and built by one company—every part *matched* to deliver peak performance on the job.

Another: its 225 HP is all there at the flywheel. As Mr. Lindstrom points out, here's one rig that won't smother on grades.

And a third reason: always handy with prompt, genuine parts service is your Caterpillar Dealer. He'll be glad to demonstrate this high-speed, high-capacity, big yellow machine any time you say.

Caterpillar Tractor Co., San Leandro, Calif.; Peoria, Ill., U.S.A.



CATERPILLAR*

*Both Cat and Caterpillar are registered trademarks—®

NAME THE DATE...
YOUR DEALER
WILL DEMONSTRATE

20 crawler tractors which have been welded together to operate as one tractor to supply the power needed to move the many tons of coil handled by the dozer.

Diesel problems cut

GONE ARE THE DAYS of expensive tooling for diesel fuel systems. The only tools needed for normal maintenance of the new Cummins PT Fuel System are: two end

wrenches; one allen wrench; a pair of snap-ring pliers; a screw driver; and injector cup wrench; and an injector plug gage.

Field reports show that Cummins PT fuel pumps have operated over 250,000 mi. without adjustment. Cummins believes that the PT fuel pump is the only diesel fuel pump in commercial use that does not have to be timed to the engine. The PT Fuel System is now standard on all models

of Cummins Diesels. In addition, the PT Fuel System may be adapted to all Cummins diesels built since 1932.

Valuable timber design booklet

The American Institute of Timber Construction now has available for distribution copies of the "AITC Timber Construction Standards," a concise booklet covering the design, fabrication and erection of engineered timber construction, and standard practices of the industry. To quote from the foreword of the booklet, "The Standards are based on the most reliable technical data available, and those aspects of commercial practice which have been found to be most practical and economical in the design, fabrication, erection and utilization of structural timber framing." Copies of the publication are available at the special introductory price of \$2.00 from AITC headquarters, 1757 K Street N.W., Washington 6, D.C.

Long lasting floats

AN AGE OLD PROBLEM of how to keep a marine float afloat year after year without constant repair, finally has a practical solution. Overcoming the big problem of water-soaked logs, cracked or rusted pontoons, the Pointer-Willamette Company of Edmonds, Wash., has developed a unique molded fiberglass pontoon, or floating foundation. The life expectancy of this type floating foundation is not known, but navy people feel that 20 yr. without any attention is a very conservative estimate. Compared with the 4 or 5 yr. expected life of a good cedar log, this new development is welcome news to marine facilities operators everywhere.

The Feather-Ride Marine Float makes use of the new type floating foundation in a completely engineered, prefabricated marine structure. The marine float sections are available in one length, 16 ft., but in four different widths, 4, 5, 7, and 9 ft. These sections will fit together end to end, side by side, end to side or in any manner to make a complete float any size or shape.

Assembly is extremely easy with all hardware, treated wood sections, and floating foundations furnished. They are light in weight; a 4x16 ft. section weighs as little as 530 lb., which means it can be assembled on shore if desired, picked up by four men and carried to the water.



this laboratory plays football

Skip Collins looks ready for anything. Is he ready for polio?

Last spring he received a vaccine designed to protect him from infantile paralysis. Some time this year, after studying records on Skip and nearly two million other youngsters, scientists will know if the vaccine works. Skip's a football-playing laboratory, helping them out.

Your March of Dimes contributions not only make the vaccine trials possible, they also give a chance for a better life to thousands who have polio.

Join THE MARCH OF DIMES

The National Foundation for Infantile Paralysis

The Only COMPLETELY PORTABLE Conveyor-Screen Plant on the Market

Offering All of
These Advantages:



50' x 36' conveyor with 8' x 48' screen, 36 1/2 hp. gasoline engine, dozer trap and plate feeder.

KOLMAN Conveyor-Screen Plant

• NO DISASSEMBLY FOR TRANSPORTATION

The heavy-duty KOLMAN conveyor is capable of supporting the complete unit during travel. You'll save valuable time with its rapid set-up and take-down.

• SCREEN FOLDING FEATURE

(on single-deck screens)
Vibrating screen folds easily into towing position without disassembly.

• PORTABLE TRAP AND PLATE FEEDER

Reciprocating plate feeder is built right into trap! Both trap and feeder are part of conveyor, and portable without disassembly.

• SINGLE, DOUBLE OR TRIPLE-DECK SCREENS

• MOTOR-TO-GROUND CONTROLS

Here is the most complete and versatile loading and screening plant that money can buy. Its combination of features *can not* be found elsewhere! Adaptable to any type of feeding—dozer, dragline, shovel, front-end loader or other. Available in any length and in widths from 18" to 36", with vibrating screen to match.

These plants are saving money for contractors from coast to coast with their outstanding performance records. If you handle sand, gravel, crushed rock, clay, dirt, coal, coke, or any similar bulk material, there's a KOLMAN combination suited to your job. Best of all, you'll find a KOLMAN plant costs less to buy. Let us prove it—write now for full details!

KOLMAN MANUFACTURING CO.

5670 West 12th St.

Sioux Falls, S. D.

Please send () Conveyor Bulletin #101, and price of lghth.
() Vibrating Screen Bulletins #109, #112 and price of" x
...." () single () double () triple-deck.

Name.....

Company.....

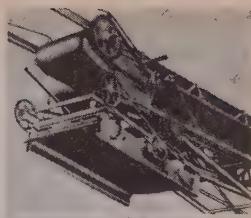
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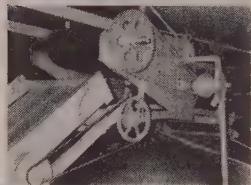
Distributors

S. A. Madrid, 1739 32nd Ave., San Francisco
Warnock-Bancroft Equip. Co., 9635 Rush St., El Monte, Calif.
Westate Machinery Co., 3017 Lincoln Lane, Billings, Mont.

See manufacturer's listing page 32H, Yellow Section



Folding feature permits weight of screen to be shifted back under conveyor.



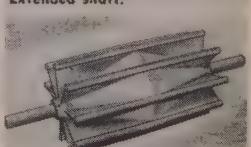
Head pulley clutch permits operation of screen while conveyor or belt is idle.



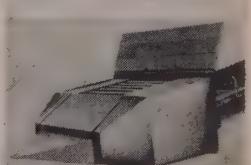
Motor-to-ground controls extend throttle and clutch for easy one-man operation.



Bar type head pulley eliminates the necessity of logging. Extended shaft.



Self-cleaning wing type tail pulley protects belt against stone cuts and bruises.



Easily-portable dozer trap is built onto tail section. Grizzly bars stop large rocks. Designed for easy access to tail section.

For your concrete forming needs...

EFCO "LIFETIME"
STEEL FORMS

available
on a

**PURCHASE
BASIS**



Increase profits, reduce costs—with EFCO "Lifetime" Steel Forms. They save time, material, money. Adaptable to wide use. Available in many types of regular and special sizes.

WRITE FOR NEW CATALOG
on EFCO "Lifetime" Steel Forms. And ask for details on Special Economy Steel Forms and the Economy Steel Form System on a rental basis.

ECONOMY FORMS CORP.
HOME OFFICE • DES MOINES, IOWA

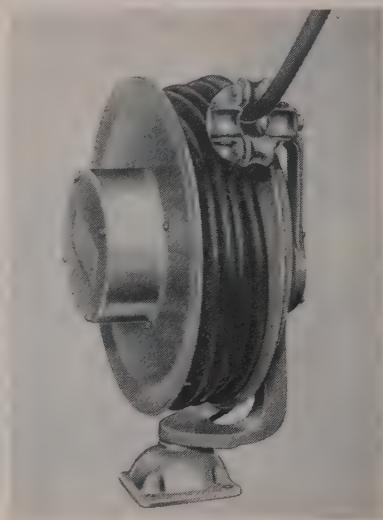
DISTRICT SALES OFFICES: St. Louis, Mo. • Kansas City, Mo. • Lincoln, Nebr. • Minneapolis, Minn. • Ft. Wayne, Ind. • Cincinnati, Ohio • Cleveland, Ohio • Metuchen, N. J. • Springfield, Mass. • Rochester, N. Y. • Washington, D. C. • Decatur, Ga. • Dallas, Texas • Los Angeles, Calif. • Oakland, Calif. • Denver, Colo.

See listing page 21H, Yellow Section

TOOLS of the TRADES

Use the addresses listed for further information on any of these items

ELECTRICAL CABLE REELING UNIT—Industrial Electrical Works, 1503 Chicago St., Omaha, Nebraska, is now manufacturing an electrical cable



reeling unit. According to the manufacturer its operation simplifies and speeds up pay-out and take-up of elec-

trical power supply cables on hoists, cranes, and mobile equipment, thereby protecting the cables from tangling and unnecessary wear. The spring housing permits a large variety of springs, making the reel adaptable to a balance reel or hose reel. The weight of the unit is 25 lb. Construction includes a pivot base, reel hanger frame, and cable guide arm. Reel flanges and collection ring housing are made of cast aluminum. The entire collector ring is accessible for easy installation of the cable. The combination cable guide arm and junction box cover may be installed in any one of five positions. Descriptive literature is available.

A WALL CHART, furnishing condensed information on how end welded studs of many shapes and sizes are used for various fastening jobs is now available on request from the Nelson Stud Welding Division of Gregory Industries, Inc., Lorain, Ohio. The chart is illustrated with cutaway and line drawings of typical construction applications of studs and shows the equipment with which studs are welded to steel. Dimensions of most commonly used studs are listed. Also available is the Nelson catalog and data sheets.

AN IMPROVED MECHANISM that requires only finger-tip pressure for attaching and detaching the shop boom to a Unit hydraulic lift has been announced by Unit Mfg. Co., 1251 Harmon Place, Minneapolis, Minn. The boom, which has a capacity of 500 lb., can be mounted or removed in less than a minute by means of the finger touch

AT LARGE!

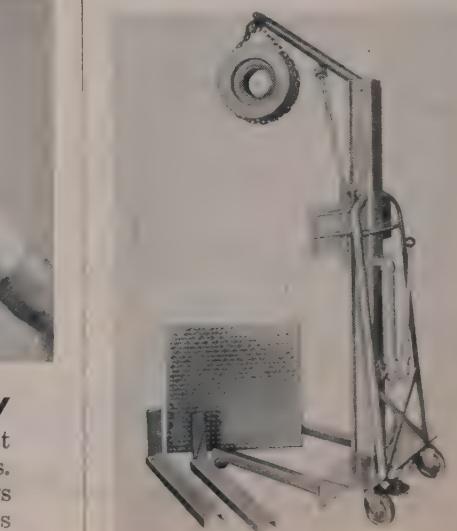


Slashing Odd-Job Costs All over the Country

Be on the lookout for Miti-Mite Big-time operator. Fast worker, always on the move. Surprises you for jobs it tackles. Lifts, loads, digs. Pockets real money for owners. Swings 32" hoe bucket with ease; is deft at handling loads to 7 tons. A fast-change artist for shovel, crane, clamshell, dragline, trench hoe, magnet, pile driver. Mounts quickly, easily on most any truck, new or used. Carries low price tag. Get the facts. Harnischfeger Corporation, Pacific Division, Milwaukee 46, Wisconsin. Or better yet ...

See Your P&H Dealer

See manufacturer's listing page 26H, Yellow Section



lock. The company claims that the boom is good for maintenance work in handling heavy loads of all kinds. Power is supplied by a hydraulic hand pump and cylinder. The fork and platform each have a capacity of 750 lb. and lift to 55 in. above floor level. Loads can be lifted either with the boom, fork, or platform.

NEW EQUIPMENT

For your convenience in obtaining more information quickly, the manufacturer's address is provided with each review.

Wide-base crawler for irrigation work

The Schield Bantam Co. of Waverly, Iowa, has announced a new wide-base version of its $\frac{3}{8}$ -cu. yd. crawler-mounted crane-excavator. It is designed for drainage and



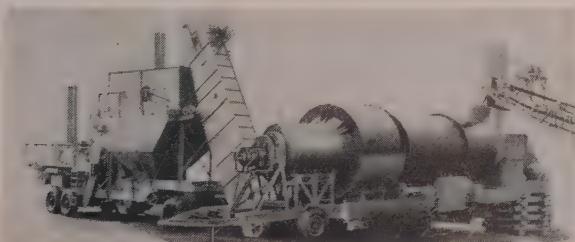
irrigation work and ditch cleanout. The dumper dumps freely to either side and provides high flotation for work in swampy areas. The track widths can be converted quickly to standard for normal operations. Free literature giving specifications and applications is available.

Allis-Chalmers adds to scraper line

Allis-Chalmers Manufacturing Co., Tractor Division, Milwaukee, Wis., has added a 15-cu. yd. struck, 19-cu. yd. heaped, rubber-tired four-wheel scraper to its line of pull-type scrapers. The unit is cable-controlled and features positive forced ejection. It provides a 9-ft. 8-in. wide cut with its carbon steel offset type cutting edge. Overall length of the Model 315 is 33 ft. 5 in. and the width is 11 ft. 6 $\frac{1}{4}$ in. The overall height is 8 ft. 8 in. with blade on ground and 9 ft. 2 in. when bowl is raised. Rear bowl ground clearance is 20 $\frac{1}{2}$ in. and front axle clearance is 29 in. Shipping weight is 25,850 lb.

Large bituminous plant designed for portability

A 100- to 175-ton-per-hr. central hot mix plant has been developed by Pioneer Engineering Works, Inc., Minneapolis, Minn. The new plant, called the Model 102, has but two main units each mounted on a single chassis, a



combination drier-dust collector and a combination gradation-mixer. To increase portability the auxiliary units are all designed for ready loading and towing in line behind the two main units. These are the feeder and con-

veyor for delivering aggregates to the drier, the bucket elevator for transferring material from the drier to the gradation-mixer, the truck-mounted burner-combustion chamber and the diesel-generator set.

Although primarily a portable plant, the Model 102 can be readily adapted to permanent operations. The plant can be furnished with diesel or diesel-electric power, or it can be completely electrified. Detailed specifications are available.

Ditcher for roadside drainage

Recently developed by Gar Wood Industries, Inc., of Wayne, Mich., is the Model 306 ditcher for digging trenches for roadside drainage where narrow shoulders and sloping banks prevent standard ditchers from operat-



ing. The Model 306 has an offset digging wheel frame which allows the digging wheel to be positioned to the left or right of center to dig trench in line with the outside edge of the machine's crawlers. It can be used for trenches up to 5 ft. 6 in. deep and 24 in. wide.

Snow loader has conveyor discharge

A new high capacity snow loader with 16-ft. swivel conveyor discharge has been announced by the N. P. Nelson Iron Works, Inc., Clifton, N. J. The model is called the S-11 snow loader. The length of the conveyor per-



mits even the largest trucks to be loaded either over the cab or alongside. There is no need for trucks to maneuver, turn, or back up under the loader. It has a capacity of up to 20 cu. yd. per min.



TAKING A SEWER *Out to Sea*

This project, to deposit sewage in the Pacific Ocean a mile out from shore, required driving both timber and steel H-beam piles.

The contractor, Guy F. Atkinson, used a McKiernan-Terry No. 11-B-3 Double-Acting Pile Hammer for the job, operating the hammer from the gradually lengthening work trestle, and this powerful hammer fully justified its selection.

No matter what your own pile-driving operations may be, you can safely rely on McKiernan-Terry Hammers for power and dependability. Write for bulletins describing the complete line of double-acting and single-acting hammers and double-acting extractors.

McKIERNAN-TERRY CORPORATION Manufacturing Engineers

Also builders of Coal and Ore Unloaders and Bridges, Grab Buckets, and Special Machinery

16 Park Row, New York 38, N. Y.

Seattle and Spokane: Star Machinery Co.; Portland, Ore.; Cramer Machinery Co.; San Francisco: Edward R. Bacon & Co.; Los Angeles: Garlinghouse Brothers; Salt Lake City: C. H. Jones Equipment Co.; Denver: Mine & Smelter Supply Co.; Albuquerque, N. Mex.: R. L. Hartson & Co.



McKiernan-Terry
No. 11-B-3
Double-Acting
Pile Hammer

MCKIERNAN TERRY

PILE HAMMERS

See manufacturer's listing page 36H, Yellow Section

Water truck can carry large bulk loads

A low-bed water truck that is capable of carrying large bulk loads has been announced by **Davey Compressor Co.** Known as Model FT-50 flat-top water truck, it is offered as a companion unit for Davey air drills and mud drills. The truck employs a large capacity flat water tank the



top of which serves as the bed of the truck. The tank is constructed of heavy gauge steel with the floor section covered with safety-plate. Sixteen removable metal stakes are located along the edges of the top side of the tank to prevent loss of cargo. The truck utilizes suction from the manifold to draw water into the tank. The tank interior is divided by baffles which prevent rapid shifting of fluid weight. Standard equipment includes water tank, 2-in. suction hose, 16 removable bed-stakes, tool box on each side, winch, vacuum-lift, and 3-gal. drinking water can. Tanks are available in 650- and 1,000-gal. capacities. Address: Kent, Ohio.

Detachable ditcher for Caterpillar tractor

Model CW-4, a detachable ditcher for attachment to Caterpillar D4 tractors, is now in full production at Unimatic Corp. The CW-4 which can be detached within



30 min. will dig to a maximum depth of 5 ft. 6 in. with the width of cut ranging from 15 to 24 in. in increments of 1 in. It is an all hydraulic unit with the controls within the normal reach of the seated operator. It will move forward at any speed from 0 to 26 ft. per minute. The conveyor is controlled independently of the digging wheel. With a straight bulldozer the CW-4 ditcher is 22 ft. 8 in. long, 8 ft. 3 in. wide, and 9 ft. 11 in. high. The weight of the ditcher ranges from 6,660 to 6,930 lb. Literature is available upon writing Box 1166, Tulsa, Okla.

Vibrator head has interchangeable tips

A new high speed vibrator head with interchangeable tips has been developed by **Stow Manufacturing Co.** Rubber or steel tips can be screwed or unscrewed easily with a wrench. A nylon plug holds the tips securely in place in spite of continuous vibration. The new head is 10 in. long and is available in diameters of 1½ in., 2 in., and 2½ in. It can be operated as fast as 9,000 rpm. Address: 443 State St., Binghamton, N. Y.

New Color Movie

MEN, STEEL AND EARTHQUAKES

What causes earthquakes? How are seismic forces measured? Why do some buildings collapse during an earthquake while others remain undamaged? These and many other questions about earthquakes are answered in this interesting motion picture which dramatizes one of nature's most terrifying forces.

Now available to professional, educational and civic groups, this 16-mm color film runs for 28 minutes. Accompanied by factual narration, the causes and effects of earth movements are depicted graphically by animated scenes. In tracing the important steps in man's efforts to prevent the destruction of buildings and other structures by earthquakes, the color photography shows how sound structural design and the use of steel have proved highly effective in resisting strong seismic forces.

Of interest both to technical and general audiences, the film explains the various kinds of forces which buildings must withstand when earthquakes occur. Steel provides the great strength required by architects and designers to build structures that can resist earthquakes. Its role as a fabricated steel framework, and as reinforcing for concrete and other materials, is fully described.

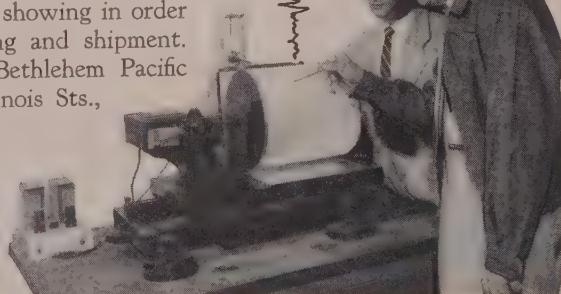
The film takes a look behind the scenes at some of the earthquake research activities being carried on by leading universities, technical societies, and government bureaus. Such groups have contributed generously to the factual background of this Bethlehem Pacific production.

FREE ON REQUEST

The film is available without cost, except for return postage. We suggest that requests be made at least three weeks in advance of the date of showing in order to allow sufficient time for scheduling and shipment. Write to Publications Department, Bethlehem Pacific Coast Steel Corporation, 20th & Illinois Sts., San Francisco 19, Calif.



Sales Offices: Los Angeles,
San Francisco, Portland,
Seattle, Spokane



These buildings withstood
strong earthquakes . . .



... but this one didn't



Earthquake research
helps to improve
building designs.

BETHLEHEM PACIFIC

See manufacturer's listing page 8H, Yellow Section

Self-propelled wagon mount for Gradall

A mobile self-propelled wagon mount has been added to the Gradall line as an item which will be built to order at the Gradall Division, 5701 Carnegie Ave., Cleveland 3, Ohio.



The carrier has a short wheel base of 108 in. and a turning radius of 21 ft. 7 in. to the right and 19 ft. 10 in. to the left. Operating controls are mounted on a panel in the cab. The unit has air brakes and power steering. A tow bar is supplied with each wagon for use in moving the machine over long distances. It has a standard width of 8 ft. The unit complete with the Gradall weighs 30,000 lb.

Wagon drill announced for Gardner-Denver

A wagon drill with a hammer diameter of 4½ in. has been announced by Gardner-Denver Co. of Quincy, Ill. It was designed to develop greater drilling speed and power

for service on highways, railways, dams, and other large construction projects as well as for quarries and open pit mines. The unit is delivered with sectional drill rods and a drill wagon with hydraulic power lifts for positioning the mast. The unit is designed for handling 10- to 12-ft. steel changes.

New Badger digger has increased power

A 20% increase in power and a boom and dipper stick of formed plate are features of the new digger Model 200 DTM-55 manufactured by the Badger Machine Co. of Winona, Minn. The unit can be mounted on any 1½-ton



or larger truck. It may be powered by an air-cooled or water-cooled unit or from the power take-off of the truck. The hydraulic outriggers on the new model afford unusually good stability for the unit, according to the manufacturer. Digging depth is about 11½ ft.

*When it's a question
of wholesalers...*



The answer's in the YELLOW PAGES!



There's no argument about it. The "Classified" directory is the place to look for wholesalers, dealers, distributors...just about any local business or service. In addition to names, addresses and telephone numbers, you'll find other helpful information on many dealers...brands they carry, delivery areas and hours of business. That's why most people use the Yellow Pages as a guide to local folks who serve or sell.

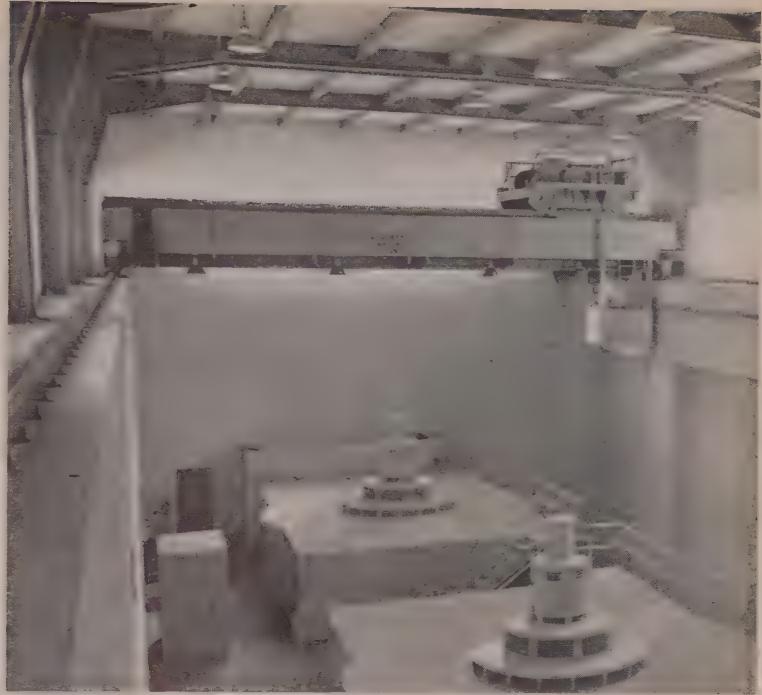
You'll find it fast in the YELLOW PAGES!



Pacific Telephone



MOFFETT powerhouse crane,
designed and installed at Tenkiller Dam,
Oklahoma, for Corps of Engineers,
U.S. Army. Main hoist, 75 tons.
Auxiliary hoist, 15 tons.
Span, 48½ feet.
Lift, 49½ feet.



How to avoid headaches on overhead crane jobs—

Consult **MOFFETT**

CAPACITIES: 1/4 to 650 TONS

MOFFETT

"plant individualized" cranes can be designed to solve almost any overhead materials handling problem.

Types include:

- continuous duty
- heavy industrial duty
- intermittent duty
 - powerhouse
 - standby
- steel mill
- gantry
- special purpose

Remember, whether it's a crane or a part, MOFFETT can build it for you. Call us NOW for consultation and quotations. No obligation.

When you contract with MOFFETT for an overhead crane, you can be sure the design will be "plant individualized" for your job...will be delivered when you're ready for it...and will be match marked so you can install it quickly and without confusion.

We're old hands at working with contractors, public utilities and governmental bodies...know and understand the importance of coordinating deliveries with your erection schedules. The engineers designing your crane work directly with you, so you avoid red tape and foul-ups. Result: you get a crane that fits into place exactly...contractors tell us MOFFETT cranes are the easiest to erect. And maintenance records show the user can count on long, trouble-free service.

MOFFETT
ENGINEERING COMPANY

Traveling Cranes • Hoists

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3930 N. Mission Rd., Los Angeles 31 • Capital 2-7161
15 Park Row, New York 38 • WOrth 2-7048

10,000 Tons of Proof... in the last three years alone, we have built cranes with an aggregate capacity of 10,000 tons for such leaders as:

Atomic Energy Commission
Bechtel Corporation
Bureau of Reclamation
City of Los Angeles
East Bay Municipal Utility District
Gibbs & Cox, Inc.
Kaiser Engineers
Peter Kiewit Sons' Co.
Ferro Construction Co.
H. K. Ferguson Co.

Pacific Gas & Electric Co.
Swinerton & Walberg Co.
Robt. Simmons Construction Co.
Stone & Webster
Tennessee Valley Authority
U. S. Army, Corps of Engineers
U. S. Navy
U. S. Maritime Commission
Texas Construction Co.
Foley Bros. Construction Co.

75-pound portable generator

A 1,000-watt AC power plant which weighs 75 lb. is now available from **Mall Tool Co.**, 7740 South Chicago Ave., Chicago 19, Illinois. The unit



supplies AC current to electric tools, air digits, house lights, radios, heating units, and water pumps. Complete price of the generator including the engine and auxiliary gas tank is \$325, f.o.b. Chicago. The three items can be purchased separately if desired.

Bucket design changed

A change in design of the standard bucket for the HD-5-G crawler tractor has been made by the **Allis-Chalmers Mfg. Co.**, Tractor Division, Milwaukee, Wisconsin. Rated capacity is increased to $1\frac{1}{4}$ cu. yd. from the former 1 cu. yd. The new design also reduces spillage by bringing the bucket's back sheet further forward and extending the spill guard. Longer life for the bucket is provided by raising the floor approximately 7 deg. at the rear to further reduce wear to the bottom sheet. Easier loading results from the new curvature of the bucket and through elimination of the angle formerly used on the inside of the back sheet at the base of the spill guard.

Highway Model J spreader

Echelon spreading of salt, cinders, sand, and calcium chloride for ice control work, can be done with a new highway spreader introduced by the **Highway Equipment Co., Inc.**, 616 D Ave., N.W., Cedar Rapids, Iowa. The



spreader offers an option of echelon spreading and is equipped to handle sand, cinders, and pea gravel for salt control work. The spreader is attached to the truck frame and can

be used with any width dump body. Power is provided by two traction tires which put the drive in motion when they come in contact with the inside truck dual as dump body is raised. This arrangement does not interfere with installation of tire chains on outside duals. Literature is available.

Electric nut runner

A new rotary electric hand tool has been developed by **Ingersoll-Rand**, 11 Broadway, New York, for nut-running. It is claimed to have sufficient power to handle all but the largest nuts and bolts on cars and trucks. The tool has a $\frac{1}{2}$ -in. drive and weighs $6\frac{1}{4}$ lb. With standard attachments, this tool can be converted to drill, drive screws, ream, tap, do wire brushing, and hole sawing.

100-ton sprocket puller

Pulling and installing drive sprockets on crawler type tractors can now be accomplished with savings in time and labor with a new 100-ton



sprocket puller developed by **Owatonna Tool Co.**, 389 No. Cedar St., Owatonna, Minn. The puller is equipped with gripping lugs which grip harder as the pressure is increased. The tool can be used on International TD-24, all Allis-Chalmers and all Caterpillar crawler tractors. Further information is available.

Vibrator for concrete spreaders

Maginniss Power Tool Co., Mansfield, Ohio, is manufacturing a new unit designed to provide efficient side form vibration. It can provide vibration at any depth, angle, or distance from the side forms. A lever actuated rotating mechanism enables the spreader operator to move the vibrator heads into or out of the concrete slab in one motion.

Engine water filter

A new engine water filter as an optional accessory on Series 51, 71, and 6-110 diesel engines has been announced by **Detroit Diesel Engine Division** of General Motors Corp., 13400 W. Outer Drive, Detroit 28, Michigan. Through the use of mechanical filtration, inhibitors, and resistor plates the filter removes impurities from the cooling system, softens the water, and controls alkalinity and rust formation. The unit

contains a replaceable filter element which can be renewed at regular intervals. In the event the element becomes clogged, water by-passes the filter. The filters are available in ranges from $3\frac{1}{2}$ to 5 in. in diameter and from 6 to $7\frac{1}{2}$ in. in height.

Idler for belt conveyors

A 2-bearing, cable-suspended idler permits easy assembly, moving and storage of conveyor sections, according to **Joy Manufacturing Co.**, Henry W. Oliver Bldg., Pittsburgh 22, Pa. The idler consists of resilient, pres-



sure-molded neoprene discs. The discs are all of the same size and revolve at the same speed. In continuous contact with the loaded belt, they exert a slight gripping action that holds slippage to a minimum and tends to keep the belt aligned. It permits conveyor heights from 13 to $15\frac{1}{4}$ in. and is available for 24-, 30-, and 36-in. belt widths. Further details are offered in Bulletin LD-103.

Portable rotary drill

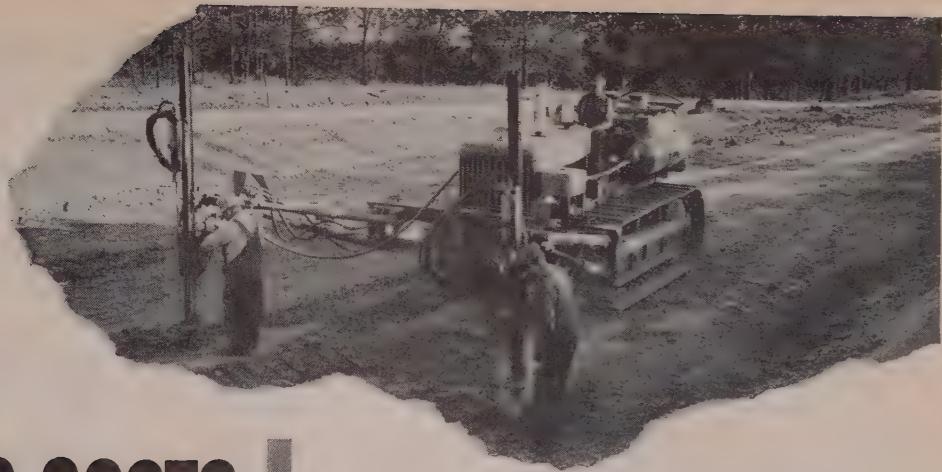
A portable rotary hammer which is useful for drilling holes up to 4 ft. is being manufactured by **Demo Tool Corp.**, 8735 Melrose Ave., Los Angeles, Calif. It weighs $9\frac{1}{2}$ lb. and can be used for overhead or ceiling work. The tool is powered by a 115-volt, 5-amp. motor. No transformer or rectifier is required.

High lift fork tractor

A new loading machine, the Econo-mobile, is being manufactured by **American Road Equipment Co.**, Omaha, Nebraska. Equipped with a pallet fork, the machine can hoist up to 2,500 lb. in excess of 17 ft. in the air. Equipped with an auxiliary tower, the unit will serve heights up to 22 ft. The unit can be used to pour concrete walls over an open excavation without the need for scaffolding and concrete wheeling operations.

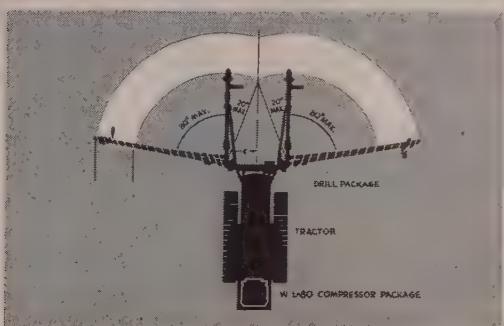
75-hp. motor grader

A 75-hp. motor grader is now available from **W. A. Riddell Corp.**, Bucyrus, Ohio. A rotating saddle permits elevation of the blade to 90 deg. on either side and passage of the blade from one side to the other without any mechanical adjustment of linkages. Every blade position is reached by hydraulic controls from the cab.



DRILLING COSTS CUT IN HALF with this JOY

TRAC-DRILL



Each Hydro Drill Jib on the Joy TRAC-DRILL operates in a 100° arc making it possible with extensible 10' jibs to drill to a 42' width.

Consult a Joy Engineer

for AIR COMPRESSORS • ROCK DRILLS • WAGON DRILLS
CORE DRILLS • BLAST HOLE DRILLS • PORTABLE HOISTS • FANS
BLOWERS • TUNNEL, QUARRY, MINE EQUIPMENT

56%, TO BE EXACT was this contractor's reduction in drilling costs on his Missouri highway job, with the Joy Trac-Drill.

"STAY AHEAD OF THE SHOVELS," was the order. But *four* wagon drills driven by *two* compressors couldn't do it. Even with overtime . . . a long ten-hour day . . . the seven-man crew (four drillers, two helpers, one compressor operator) couldn't meet production.

A JOY TRAC-DRILL PACKAGE was mounted on a used tractor along with a Joy WL-80 Compressor Package. (Joy furnished complete instructions.) The rig worked like a charm. It easily led the shovels . . . and with only *four* men—two drillers, one helper and a tractor operator. The unit was completely self-contained and maneuverable. The B-I-G savings show up in the contractor's weekly cost figures:

	4 WAGON DRILLS	JOY TRAC-DRILL
Labor.....	\$ 810	\$500
Depreciation (3-yr.)....	212	145
Fuel.....	140	86
<i>Total</i>	<i>\$1160</i>	<i>\$730</i>
Performance (week)	7200 ft.	10,200 ft.
Cost—foot of hole.....	16¢	7¢

THE TRAC-DRILL PACKAGE INCLUDES twin drills and feeds mounted on Joy Hydro Drill Jibs (hydraulically-actuated booms with power lift and power swing). Because the jibs are extensible, the Trac-Drill can reach out to put many holes in a straight line, if necessary, from one tractor setup. A used tractor, past its prime can thus be converted to an ace drilling machine. The whole story is in our Bulletin M-214, free for the asking. Just write Joy Manufacturing Company, Oliver Building, Pittsburgh 22, Pa. In Canada: Joy Manufacturing Company (Canada) Limited, Galt, Ontario

JOY

CONSTRUCTION EQUIPMENT MANUFACTURERS
FOR OVER HALF A CENTURY

See manufacturer's listing page 31H, Yellow Section

Marion develops 60-ton lifting crane

A 60-ton lifting crane is now undergoing testing at the Marion Power Shovel Co. at Marion, Ohio. Designed for heavy duty versatility, the new machine can be used as a shovel, dragline, clamshell, crane or pull shovel.

Pocket and tooth for trencher buckets

A pocket and tooth for trencher buckets has been announced by Jetco, Inc., 1100 Westminister Ave., Alhambra, Calif. The pocket is one



piece, drop-forged, 1040 high carbon steel. The new design provides a smooth radius in the pocket opening which permits a positive taper fit with the tooth in addition to the quick-change feature. The pocket

may be welded on any type bucket. The new rock point, which has been tested under actual rock conditions, is drop-forged from 4140 steel. The serrated face of the point permits easier digging plus the added features of minimum leverage and self-sharpening point.

Utility dumper

A new pipeline and utility dumper, wheel-type Model 315, is being produced by Gar Wood Industries, Inc., Wayne, Michigan. The new unit is designed to dig trenches for pipelines, gas and water mains, sewers, cable conduits, and other jobs. It can be used for a trench 6 ft. deep and 40 in. wide and can move forward at 20.5 ft. per min.

Air-powered trench digger

A new medium-weight trench digger, designated Model DD-130, has been announced by Davey Compressor Co., Kent, Ohio. The manufacturer states that the new air tool is especially adapted to digging ditches for water and sewer systems; underground conduit trenches and oil pipeline trenches. It can be used for cutting through hardpan, shale, and concrete. The digger features a pressure lubricator, a replaceable cylinder bushing, and a replaceable throttle valve bushing which stops air

leaks and can be replaced without disassembling the handle. The DD-130 has a net weight of 36 lb. Additional information is available in form E-536.

Sling bridle

A new sling bridle which converts a conventional sling into a 2-leg bridle sling, eliminating the necessity of a pear link with two eye splices is



now being manufactured by Newman Mfg. and Sales Co., P. O. Box 5939, Kansas City 11, Missouri. The tapered groove firmly grips the sling so that there can be no load slippage even when the load is unbalanced. The legs of the bridle sling are easily adjusted or equalized for the different loads. Thus one sling can do several material handling jobs.

"Spray it and forget it"

®

hunt

PROCESS

concrete curing compounds

CLEAR — BLACK
TILT-UP and PIGMENTED

HUNT PROCESS CO., INC.

FACTORY AND MAIN OFFICE

7012 STANFORD AVENUE

LOS ANGELES 1, CALIFORNIA

NEW Illustrated brochure
available upon request

THE ORIGINAL MEMBRANE CURE SINCE 1926

NEW!

THREADED CONES *

for SUPERIOR
CONE-FAST COIL TIES

Pat. No. 2,335,338

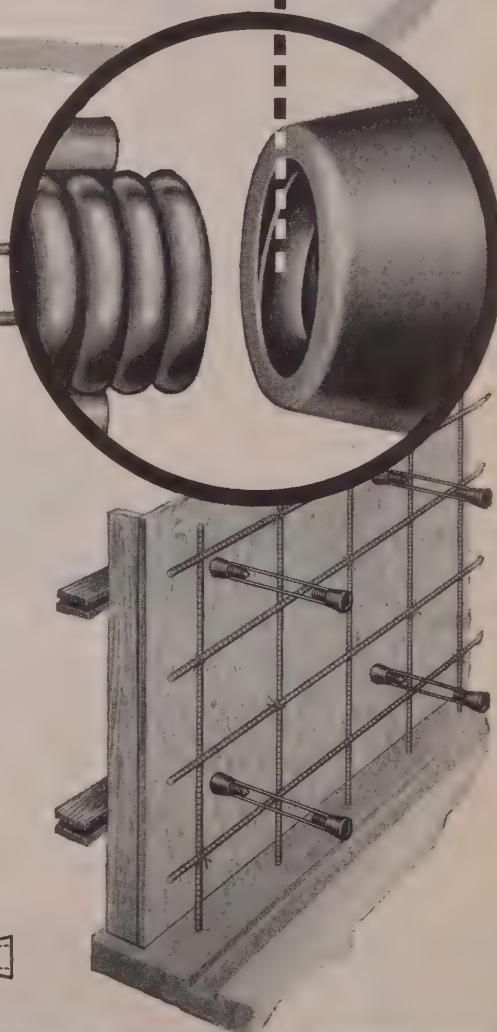
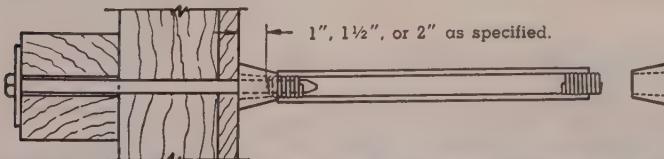
**Cuts Form Costs by Permitting
Extra Fast Erection of Panels**



A direct way to cut forming costs is to use new Superior Threaded Coil Cones with Cone-Fast Coil Ties. Where cones have to be dependably held in place, Threaded Coil Cones are practically a "must".

Previously, Coil Cones were held onto the extended coils by friction alone. Now, a couple of threads in the cone fix Coil Cones securely to the Coil Ties. Here's another advantage . . . units can be bench assembled with the assurance that they will arrive at the installation point intact! Threaded Coil Cones cannot be knocked off the Coil Ties when the opposing form is being applied. When unscrewed with a cone wrench, the threaded Coil Cones automatically back themselves out of the wall.

Cone-Fast Coil Ties with threaded Coil Cones are supplied for $1\frac{1}{2}$ " to $2\frac{1}{4}$ " Coil Bolts, with safe load capacities from 5,000 lbs. to 36,000 lbs. Working parts (cones and bolts) are returnable for credit.



SUPERIOR CONCRETE ACCESSORIES, INC.

4110 Wrightwood Avenue, Chicago 39, Illinois

New York Office

1775 Broadway, New York 19, N. Y.

Pacific Coast Plant

2100 Williams St., San Leandro, Calif.

See manufacturer's listing page 47H, Yellow Section

Telescopic hoists

Three new telescopic hoists in weight-saving bodies are now being offered by The Heil Co., Milwaukee 1, Wis., to make greater legal payloads possible in the 21- to 30-ton

the lowest mounting height of any now available. The newly designed bodies accommodate the forward lifting point of the telescopic hoists. Additional information on this equipment is available.



capacity class. The hoist may be mounted inside or outside of the chassis frame rails to fit any make of tandem truck or semi-trailer. A loose parts kit supplied with the hoist is a universal type for mounting the hoist inside or outside and for a forward or backward push. According to the manufacturer the hoists have

Hydraulic fork lift attachment

The development of a 1,500-lb. capacity hydraulic fork lift attachment for the model R-15 Moto-Bug has been announced by the Kwik-Mix Co., Milwaukee 16, Wis. The unit has a 15-cu. ft. capacity, and will lift a 3/4-ton load to a height of 7 ft. in 14 sec. Prices and specifications are available on request.

Ford announces new line

Twenty-four series including 190 models of 1955 Ford trucks ranging from 30-ton tandem axle down to pickups have been announced by Ford Division of Ford Motor Co., P. O. Box 638, Dearborn, Michigan. Ford's five truck engines, built exclusively for the truck lines, include six and V-8 engines. Three engines have increased horsepower and compression ratios. GVW ratings run from 4,000 to 40,000 lb. and GCW ratings to 60,000 lb. For 1955 Ford has improved truck brake features. Vacuum-boosted power brakes now are offered on all models. Full automatic transmission is available at extra cost on some of the series. Over-

drive and regular transmissions also are available. To increase endurance and safety, 9,000-lb. capacity front axles now are standard on the F- and C-900 series. For heavier forward loading, a new 11,000-lb. capacity front axle will be made available at extra cost for Series T-800 tandem axle trucks. Ford's 1955 truck engines range in horsepower from 118 to 170 at 3,900 rpm.

New Stud welding gun

A new and more versatile stud welding gun is now available from Nelson Stud Welding Division, Gregory Industries, Inc., Lorain, Ohio. The new design accommodates



Now, we can serve you faster than ever with our new warehouse in Long Beach, California.

Immediate shipments are made on our complete line of centrifugal pumps for construction, industry and irrigation.

Quick delivery and lower costs make CARVER your No. 1 supplier. Ask for full information.

CARVER PUMP CO.

1416 Hershey Ave.
Muscatine, Iowa

Western Region Warehouse
1530 W. 12th St., Long Beach 13, Calif.



CARVER PUMPS
the quality name in pumps

See manufacturer's listing page 12H, Yellow Section

a greater range of stud length without changing adapters or other accessories. Arc length can be adjusted without disassembly. Reduction in the number of electrical connections from three to one has made for increased operating efficiency and simplified maintenance. Literature is available.

New Triplex tamper

A new lighter-weight Triplex tamper, featuring an entirely new design has been announced by Thor Power Tool Co., Aurora, Ill. The new model is equipped with an air swivel connection attached directly to the air manifold, replacing the former air feed through one handle, to provide even distribution of air to each tamper and cooler handling. Air is distributed through a removable filter that provides complete screening of dirt and other elements. The filter may be easily removed for cleaning in the field if necessary.

Welded alloy chain

A new line of high strength, one to two inch, welded alloy chain is now being produced by McKay Co., McKay Bldg., Pittsburgh 22, Pa. A single branch of the 2-in. line has a breaking strength of over one half million pounds. The chain needs no periodic heat treatment since the alloy steel does not work harden in use. Literature is available.

See listing page 31H, Yellow Section →

WESTERN CONSTRUCTION — January 1955

10 LEADS

TO BETTER,
FASTER RESULTS

and BIGGER
PROFITS!



MACADAM DENSIFICATION. Usually just one pass of the Jackson Multiple Compactor is required to key 12" of rock to final density — one pass to completely fill voids with fines.



PAVEMENT WIDENING. The Multiple Compactor can be quickly converted to provide in ONE PASS 100% of required density in granular soil sub-bases and rock courses in any widening project.



GRANULAR SOIL FILLS. The Multiple Compactor quickly achieves specified density, gets into places bigger, more expensive equipment cannot reach. Individual units can be detached, operated as manually guided compactors.



SOIL COMPACTION. Self-propelling, the JACKSON COMPACTOR, with 12" to 26" interchangeable bases, achieves specified density of granular soils in 8" to 10" depths at 2000 sq. ft. per hr. Perfect for bridge and pipe line fills, concrete floor sub-bases, etc.



BLACKTOP WIDENING & PATCHING. The same machine operated from power plant on auto-trailer with pickup for Compactor is most efficient means of blacktop pavement patching, paving walks, drives, etc. Will compact up to 2000 sq. ft. per hr. close to maximum density.



TWIN-UNITS — ONE OPERATOR. With a two-unit, side-by-side or tandem hookup of JACKSON COMPACTORS, one man can readily do the work of two, since the compactors are self-propelling and he has only to guide them.



CONCRETE VIBRATION FOR HIGHWAY AND AIRPORT PAVING

INTERNAL TYPE: super-powered, gives full width internal vibration through full depth of very thick slabs. Saves time, cement; provides greater density and compressive strength. Attaches to finisher or spreader.



SURFACE TYPE: does perfect job of vibrating all mixes in depths used on highway projects. The owner of a JACKSON Paving Tube can quickly switch from internal to external vibration, or vice versa, at minimum expense.



MUNICIPAL PAVING: This vibratory screed strikes off to all crowns, undercuts at curb or sideform, works right up to and around obstructions, is rolled back for second passes on 4 rollers. Most productive and convenient screed made.

FOR SALE OR RENT
AT
YOUR JACKSON DISTRIBUTOR

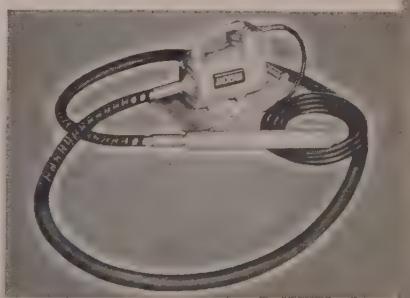
JACKSON
VIBRATORS, INC.

LUDINGTON, MICHIGAN



(Left); 6 H.P. engine-driven, flexible shaft vibrator. Excellent for both thin and thick sections.

(Right); 2 1/2 H.P. electric vibrator (for light-socket operation). Handy as a pocket in a shirt, powerful enough to handle all general construction concrete vibration with shafts up to 28'.



GENERAL CONSTRUCTION

TOUGH GOING?



WITH *Hensley*

You'll find the going lots easier when Hensley lightweight, heavy-duty Rippers and special analysis steel Cutting Edges do the job for you . . . in dirt, rock, perma-frost, shale or hard-packed snow.

Hensley parts are precision made to fit all kinds of earth-moving equipment. Durability, dependability and greater job economy are built-in to every item in the Hensley line . . . whether it's dozer or scraper rippers, cutting edges, scarifier points, bottom track rollers or allied parts.

ARIZONA:
Western Machinery Co., Phoenix

CALIFORNIA:
Factory: 816 - 98th Avenue, Oakland

Bay Cities Equipment, Sacramento

Chico Auto Parts, Chico

Emerson-Braden, Colusa

Farmers Hardware & Equipment, San Luis Obispo

Holz Co., Ukiah

Hudson Equipment, San Diego

Hust Bros., Marysville

Lowry Equipment Co., Redding

McGaragh Supply Co., Eureka

Oroville Auto Parts, Oroville

Stockton Iron Works, Stockton

Westside Tractor, Willows

COLORADO:

S & M Supply Co., Grand Junction

Joe Smith Machinery, Denver

Johnson-Tudor Co., Denver

IDAHO:

Engineering Sales Service, Boise

MONTANA:

Treasure State Equipment, Kalispell & Missoula

Weststate Machinery, Billings

NEVADA:

Elico Blacksmith Shop, Elko

Pioneer Equipment, Reno

NEW MEXICO:

Lively Equipment Co., Albuquerque

OREGON:

Cal.-Ore. Machinery, Medford

Western Equipment Co., Eugene and Portland

TEXAS:

Deal's Machine Shop, Lubbock

Hi-Way Machinery, Dallas and San Antonio

Lively Equipment Co., El Paso

UTAH:

J. T. Holland Co., Salt Lake City

WASHINGTON:

Western Machinery Co., Spokane

Western Tractor & Equipment, Seattle, Tacoma, Chehalis, Everett

WISCONSIN:

Bark River Culvert & Equipment, Milwaukee,

Madison, Eau Claire, Green Bay

ALASKA:

Western Tractor & Equipment, Anchorage and Fairbanks



See the complete Hensley line
at your nearby Hensley dealer!

Hensley

EQUIPMENT COMPANY

800 PERALTA AVENUE • SAN LEANDRO, CALIFORNIA

See listing page 27H, Yellow Section

Vibrating feeder

Barber-Greene Co., 400 No. Highland Ave., Aurora, Illinois, is now manufacturing a vibrating feeder. It is made in 20- and 26-in. widths for feeding 24- and 30-in. belts. Lumps up to 12 in. in size can be handled



when mixed with fines, or up to 8 in. when the lumps are uniform size. Average capacity is 200 tons per hour for the 20-in. unit and 300 tons per hour for the 26-in. unit. The capacity can be regulated by changing the weights on the eccentric fly-wheels, by altering the slope of the feeder, or by changing the amount of weight on the control gate. Detailed information and complete specifications are available.

New Dodge 145-hp., V-8 truck engine

Dodge Division, Chrysler Corp., has announced a new 145-hp. V-8 truck engine for pick-ups, panels, and low-tonnage stakes. Piston displacement is 241.4 cu. in. Compression ratio is 7.5 to 1. Maximum gross torque of 215 lb.-ft. is developed at 2,400 rpm. Bore is 3 7/16 in. Stroke is 3 1/4 in. Address: 7900 Jos. Campau Ave., Detroit 31, Mich.

Tandem rollers

The Galion Iron Works & Manufacturing Co. has published an 8-page, full-color folder, Catalog No. 400, describing its Roll-O-Matic, tandem, variable weight rollers. It contains cut-away drawings of various vital parts of the drive and points out advantages of using the automatic drive. Also contains a full page of specifications and pictures of various accessories. Address: South Street, Galion, Ohio.

Rotary trowel has stationary guard ring

Stow Mfg. Co. of 56 Shear Street, Binghamton, New York, has marketed a rotary trowel. It has a stationary guard ring instead of the conventional rotating guard ring. This is

said to make the machine much safer and it allows the operator to work right up to walls and other obstructions. No extra handle is needed when lifting the machine, since it can be picked up at any point on the guard ring. The ring is 34 in. in diameter. The machine is powered by a 4-cycle, 2-hp. gasoline engine. The handle can be adjusted to the most convenient height. The blades are reversible and can be easily changed.

Hydraulic one-ton truck crane

A hydraulic truck crane which can be easily installed on commonly used types of trucks is now available from the Stanco Mfgs. & Sales, Inc., 9820 San Fernando Road, Pacoima, Los Angeles, Calif. The unit can be used for hoisting, unloading, and dumping. The lifting capacity is 2,200 lb. on 6-ft. boom and 1,125 lb. on 11 1/2-ft. boom. If power is shut off it stops without dropping. If it is overloaded it simply does not operate. Literature is available.

Reduced-weight power unit

Waukesha Motor Co., Waukesha, Wis., has announced that it now manufactures a 12-cylinder power unit available for use with propane-butane or natural gas fuel, and as a full diesel with normal aspiration or turbo-supercharged. The engine is rated in the neighborhood of 1,000 hp.

Portable primary plant has screen ahead of crusher

A portable primary plant, designed to by-pass material already down to size, is being made by Pioneer Engineering Works, Inc. The plant, called the 150 PRS, has a 3 x 10-ft. apron feeder, a 4 x 6-ft. two-deck vibrating screen, and a No. 2036 roller bearing

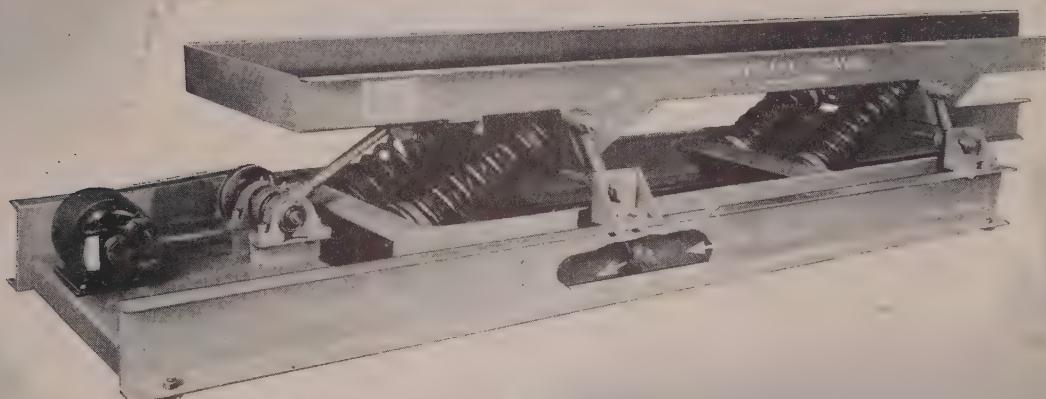


jaw crusher. It is mounted on a pneumatic-tired chassis, with proper weight distribution to meet state highway axle load limits.

The conveyor can be installed to deliver out either side of the plant. The feeder is controlled from the operator's platform. An extension permits widening the hopper to 11 1/2 ft. On or off plant power is optional, as is a front bolster for towing or a Fruehauf pin for truck tractor. Moving height is 12 ft. 7 in. Address: 1515 Central Ave., Minneapolis 13, Minn.

Natural Frequency

VIBRATING CONVEYORS



CAN CUT HANDLING COSTS OF

**Pulverized, Granular or Lump Materials . . . Castings, Boxes, Packages
Hot or Cold . . . Wet or Dry . . . Corrosive or Abrasive**

Natural Frequency Conveyors will move materials horizontally or up inclines of 10° at speeds up to 70 F.P.M. They can also be used to heat, cool, dewater, dry or screen a wide range of materials.

LOW POWER COSTS

Natural Frequency Conveyors utilize the regeneration of power from springs designed to vibrate at the natural frequency best suited for conveying—the new power required is reduced to a minimum. They are built in various widths and in 10 foot sections—one drive will operate several sections.

NO EXPENSIVE FOUNDATION

Due to elimination of vibration from base

frame, these conveyors can be mounted or suspended, without special foundations or bracings. Conveyor units can also be used in temporary locations without anchoring.

NO SPILLAGE

There is no violent agitation to cause spillage. The trough is free of obstruction to flow, or pockets to trap perishable materials for spoilage or infestation. All conveyor surfaces can be easily cleaned and sterilized. Furnished with standard open troughs, but enclosed or special troughs for scalping or dedusting can be furnished.

Get complete information on the Natural Frequency Vibrating Conveyor. Ask to have an S-A engineer call, or write for Bulletin No. 353 which contains specifications and general information on dimensions, etc.



STEPHENS-ADAMSON MFG. CO.

Factories at Aurora, Illinois • Los Angeles, California • Belleville, Ontario

2227 E. 37th Street
Los Angeles 58, Calif.

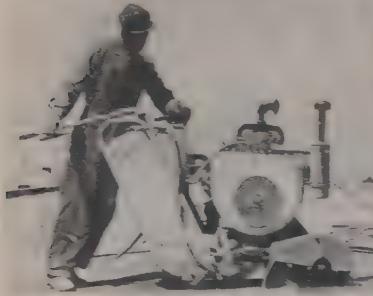
1007 E. Burnside St.
Portland 14, Ore.

151 Mission Street
San Francisco 5, Calif.
714 Joseph Vance Bldg.
Seattle 1, Wash.

See manufacturer's listing page 46H, Yellow Section

Two new concrete saws

Clipper Manufacturing Co. has announced a new line of gasoline-powered concrete saws with optional self-propulsion. Both saws are designed for continuous heavy duty, such as cutting contraction joints in



new concrete and sawing the boundaries of sewer and utility trenches in old pavement. Ease of handling makes the same saws practical for other jobs, such as cutting boundaries of repair patches, maintenance work on plant floors and drives. Power for propelling the saws is supplied from the gasoline engine in a variable speed transmission. Speed of the saw is adjustable up to 12 ft. a minute. The blades are raised and lowered by a positive screw feed with cutting depth lock. Screw feed, depth

lock, depth gauge, and water valve are all located on the dash board for convenience of the operator. Further information of these saws and others is available by addressing inquiries to 2801 Warwick, Kansas City 8, Mo.

Improved monitor for water streams

By using the force of the water stream for balance, the Intelligent, manufactured by Chiksan Co., is lighter and more maneuverable than previous water directors. Water under pressure can now be conveniently directed by one man. Simple controls have been worked out using independent power for movement in both traverse and vertical directions, giving a wide range of speeds and patterns. No set pressure has to be maintained for efficient operation.

Manufacturer is located at Brea, Calif.

Masonry sealer improved

Haynes Products Co. has reported an improvement in its Formula 40, a colorless liquid masonry sealer. Tests on a concrete block treated with this formula and continuously wetted for 24 hr. showed an absorption of 3 10/16ths of 1%. The solvent evaporates, leaving the pores filled with a plastic mass impervious to water and highly resistant to acids.

alkalies, weathering and oxidation. Information is available on the complete line by writing the manufacturer at 4007 Farnam St., Omaha 3, Neb.

Le Roi tractor-mounted compressor

Le Roi Co. has published a specification sheet showing the advantages of using the Le Roi 6000 CTM tractor-mounted compressor by mounting it on any leading make of crawler tractor which has weak, worn tracks but still has a good engine. The sheet contains photographs of the compressor mounted on several makes of tractors, a specification table, and a chart showing tool capacity. Address: 1706 So. 68th St., Milwaukee 9, Wisc.

Low heat Pozzolith

The Master Builders Co. has published a 4-page folder describing use of low heat Pozzolith in mass concrete for reducing total heat evolution. It lists the benefits of using this material in both plastic and hardened state, describes the types of Pozzolith, and discusses design and use. A table compares the relative advantages of using low heat Pozzolith mixes with the use of plain and air-entrained mixes. Address: Euclid & Thomas Aves., Cleveland 3, Ohio.



SPECIFICATIONS SHOULD REQUIRE CONSTRUCTION BONDS

Ask for...

**NATIONAL SURETY
CORPORATION**
4 Albany Street, New York

one of America's foremost
fidelity and surety companies



A MEMBER OF THE FIREMAN'S FUND INSURANCE GROUP

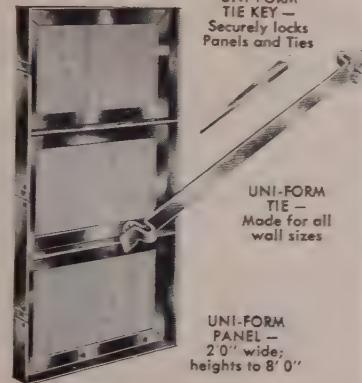
This symbol on your bond or policy guarantees satisfaction.

PACIFIC DEPARTMENT — 315 Montgomery Street — San Francisco 4, California

UNI-FORM

Concrete Forms

3 SIMPLE ELEMENTS
FORM ANY CONCRETE
STRUCTURE



UNI-FORM Concrete Forms are prefabricated steel-framed, plywood faced panels . . . ready to use when they reach the job.

UNI-FORM Ties and Keys lock and spread Panels into an automatically accurate form. No measuring — no guesswork. Completely versatile . . . they form straight, battered, circular, irregular or curved walls at lowest all around cost.

Rented . . . Sold . . .
Rented With Purchase Option



HIGH SPEED CIRCULAR WALL FORMING

UNI-FORMS provide faster, simpler and easier circular wall forming . . . one side alignment and bracing . . . absolute control of concrete, and safer, cleaner working areas.

Write for the
UNI-FORM Catalog
and complete details

UNIVERSAL
FORM CLAMP CO.

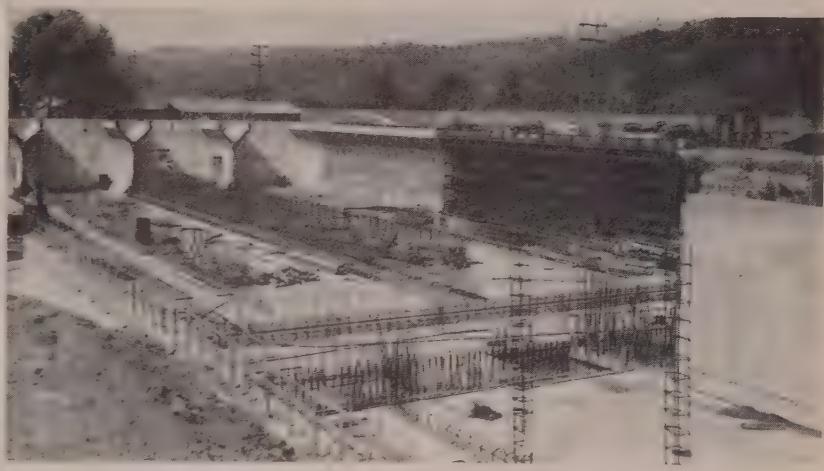
1238 N Kostner Ave
Chicago 51, Illinois



See manufacturer's listing page 50H, Yellow Section

Advertisement

Unique Prefab Form System Speeds Sewage Plant "Y" Wall Construction



MECHANIZED FORMING with new "Y" wall trusses and UNI-FORM Panels speeds construction, saves labor and material

Field reports on a new system for forming "Y" walls in aeration tanks and settling basins indicate very satisfactory operation and important labor and material saving advantages for the system.

Developed by the Universal Form Clamp Co., Chicago, the new system is said to completely eliminate the many problems and difficulties encountered by contractors in forming this special type of wall in sewage disposal plant construction.

Specially designed trusses, which can be made to handle any type, height, shape or wall thickness, are used in conjunction with standard UNI-FORM Concrete Forms to form the "Y" wall. Assembly of the truss and UNI-FORM Panels into a complete form, ready to receive concrete is a fast, mechanical operation. Positive internal spreading and accurate wall thicknesses are assured by the use of Universal Spir-oloc Cone Nut Assemblies.

Features incorporated in the design and operation of the Universal "Y" wall form-



STRIPPED WALLS are clean and accurate

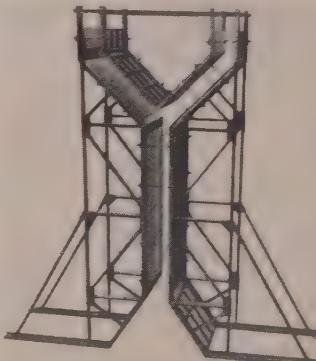
ing system eliminate the necessity of additional lumber or tying devices for the alignment and bracing of the unit.

Erection, stripping and movement of the form can be handled either as individual

pieces or as a large unit. Both methods have been very successfully used on recent projects.

Because standard UNI-FORM panels are used to form a large percentage of the "Y" wall contact area, it is possible to strip all UNI-FORM panels within a very short time after the actual pouring of concrete, leaving the trusses in place to provide the necessary support for the required period of time.

In this way, faster forming cycles, using minimum UNI-FORM equipment are pos-



ASSEMBLED SECTION of "Y" wall truss
with UNI-FORM Panels

sible, resulting in lower labor and material costs. UNI-FORM Panels are rented or sold, or rented with an option to purchase.

For complete details on Universal "Y" wall forms and UNI-FORM Panels, Write.

UNIVERSAL DISTRIBUTORS

K. C. Construction Supply Company . . . Denver, Colo.
Boz Lake Equipment Co. . . . Seattle, Wash.
Universal Form Clamp Co. . . . San Leandro, Calif.
Universal Form Clamp Co. . . . Los Angeles, Calif.



**WHITE VIBRATORS COST
LESS TO BUY,
LESS TO MAINTAIN,
GIVE BETTER PERFORMANCE**

EXCLUSIVE FEATURES INCLUDE:

...completely interchangeable drives and heads, no special couplings required, less spares needed for maintenance.

...heavier eccentric rotors in vibrator heads for better performance in concrete.

...power units, either gasoline engine or electric motor interchangeable.

...vibrator heads, from $1\frac{1}{8}$ " to 3", and grinding heads interchangeable.

...replacement drive shafts cost less.



Model M-12, with 4.6 HP Wisconsin engine, wheelbarrow mounted.



Model ME-13, with 2.5 HP, 110-volt electric motor.



Model M-9, with 2 HP Lauson engine, automatic clutch.

**White
MANUFACTURING COMPANY**

ELKHART 15, INDIANA

See listing page 52H, Yellow Section

Jeep fitted for trenching

Jeep-A-Trench Gear-Draulic is the name given to the first gear driven trencher with gears running in oil, manufactured by the **Auburn Machine Works, Inc.** The center of gravity has been moved ahead, placing more weight on the front wheels



which provides for better traction, straighter trenches, improved steering and much less stress on the frame.

The trencher weighs 1,750 lb. The boom is raised and lowered hydraulically to any position in the 190-deg. arc of travel. One man operates the four controlling levers, clutch, gear engagement, raising and lowering of the boom, and trenching speed. The Gear-Draulic will handle trench widths from 6 to 14 in. in any depth up to 6 ft. Trenching speeds depend upon soil conditions but the Gear-Draulic is capable of 800 ft. per hour. Headquarters of the manufacturer are Auburn, Neb.

New spring type conveyor belt cleaner

The S-A spring type conveyor belt cleaner, manufactured by **Stephens-Adamson Manufacturing Co.**, is designed to remove material adhering to the belt after discharge, thus insuring maximum belt life by preventing cover wear. Steel wiper blades perpendicular to the belt surface, but diagonal to its line of travel, scrape off material allowing it to fall to the discharge chute.

The S-A spring type conveyor belt cleaner uses no moving parts and is designed with adjustable mounting brackets to fit any conveyor assembly. Bulletin 651 contains details. Address inquiries to company headquarters at 274 Ridgway Ave., Aurora, Ill.

Test chamber for concrete samples

Conrad, Inc., has developed an environmental chamber for testing concrete samples under various freezing and thawing conditions. This single chamber is capable of handling all three ASTM testing procedures automatically without annual adjustment. A pre-determined test program can be set up on the chamber cover-

ing from 1 to 8 cycles over a 24-hr. period. These cycles include freezing the concrete in air and thawing in water, freezing and thawing in water, freezing and thawing in brine. Fifty-five samples can be tested at one time. The temperature range is from 70 deg. to minus 20 deg. F. The test chamber is fully instrumented, has a sight window for visual inspection, and can record both physical and electronic tests of highway concrete samples. Address: 183 Jefferson Ave., Holland, Mich.

New light $\frac{3}{4}$ -cu. yd. shovel crane

LS-68, a light $\frac{3}{4}$ -cu. yd. shovel crane, is in production at **Link-Belt Speeder Corp.** The shovel has 10-in. diameter heat treated forged steel, single-flange track rollers which are bronze-bushed and mounted on $2\frac{1}{2}$ -in. diameter shafts. The LS-68 standard lower frame is designed to permit the use of 24-in. or 30-in. shoes. The two shoe sizes vary the ground bear-



ing area from 47 to 63 sq. ft. The machine weighs 35,300 lb. Separated drum gears and clutch shells permit the use of alloy cast iron. The clutch shells are bolted to the drum gears. Six conical hook rollers, equalized pairs in front and individually mounted in the rear, are standard on this model. This crawler base rig is fully convertible to all standard front end attachments. Complete specifications are given in bulletin No. 2541. Address inquiries to company headquarters at 1201 Sixth St., S. W., Cedar Rapids, Iowa.

Electric portable heater

A portable heater now in production by **Fageol Heat Machine Co.**, Kent, Ohio, can be easily converted in a summer cooling unit. The machine can be placed in operation simply by plugging in the electric line and snapping a switch. Air intake of the oil burner is adjusted by loosening one screw and varying the size of the intake opening. The machine is completely self-contained, readily portable, and does not require a vent or chimney. Conversion of the heater into a fan is accomplished by changing the top blower mounting. Heating capacity is 189,000 BTU's per hour. Heat is sprayed out at floor level and is concentrated in the work zone from floor to 6 ft. above the floor. Dimensions are 21x33x58 in. Weight is 235 lb.

111 LORAINS ON 7 JOBS

THE NEW YORK THRUWAY



If this isn't more excavators than any other manufacturer has on this tremendous project, it certainly is close enough to prove that Lorains have those built-in qualities that big, successful contractors demand in their equipment. These same qualities are designed to make money for you whatever the size of your operation, because there is a size and type Lorain for any job. There are over 136 to choose from—with features only Lorain can provide. See your Theew-Lorain Distributor for the full story.



NEW YORK THRUWAY FACTS... 427 miles long—will cost \$555 million—over 80 million cu. yds. of excavation and fill—525 bridge structures—9 million barrels of cement, 4 million yards of stone, 2 million yards of sand needed for concrete.

THE LORAIN.

THE THEW SHOVEL CO., LORAIN, OHIO



(TOP) MORAUER & HARTZELL, INC., Washington, D. C., has purchased 7 Lorains. Here are 2 of their Lorains on their 2½-mile Thruway sub-contract, which consists of moving 500,000 yds. in 5 months, including cuts ½ mile long and up to 145 ft. deep.

(MIDDLE) SAVIN CONSTRUCTION CO., East Hartford, Conn., has purchased 46 Lorains. One of them, an 820-K "Special" clamshell, with a 70-ft. boom, feeds a batching plant.

(LEFT) A. J. ORLANDO CONTRACTING CO., Whitestone, L. I., N. Y., has a sub-contract for grading and is using two 2-yd. Lorains to move a total of 6400 yds. every 8 to 10 hours. Shown is a 2-yd. 820-K "Special" which has moved as much as 370 yds. of dirt and rock per hour.

ANDREWS EQUIPMENT SERVICE OF WASHINGTON, INC.

Spokane, Wash.

CENTRAL MACHINERY CO.

Great Falls, Havre and Lewistown, Mont.

COAST EQUIPMENT CO.

San Francisco 3, California

J. D. COGGINS CO.

1717 No 2nd, Albuquerque, New Mexico

A. H. COX & COMPANY

Seattle 4, Tacoma, Wash.

P. L. CROOKS & CO., INC.

Portland 10, Ore.

GENERAL EQUIPMENT CO.

Reno, Nevada

McCoy COMPANY

Denver 17, Colo. Branches: Sterling, Alamosa & Grand Junction, Colo.

MOUNTAIN TRACTOR CO.

Missoula and Kalispell, Mont.

NASH-DAVIS MACHINERY CO.

Billings, Montana. Branches at Bozeman, Mont. and Greybull, Wyo.

H. H. NIELSEN COMPANY

Salt Lake City, Utah

LEE REDMAN EQUIPMENT CO.

Phoenix, Arizona

SANTA FE EQUIPMENT CO., INC.

Affiliated with Electric Tool & Supply Co.

Los Angeles and San Bernardino, Calif.

SOUTHERN IDAHO EQUIPMENT CO.

Idaho Falls, Boise and Twin Falls, Idaho

TRACTOR & EQUIPMENT CO.

Sidney, Mont. Branches: Miles City, Glasgow, Mont.

WESTERN EQUIPMENT CO.

Casper, Wyoming

YUKON EQUIPMENT CO. (for Alaska)

Seattle, Wash. Branches at Fairbanks and Anchorage, Alaska

See manufacturer's listing page 48H, Yellow Section

UNIT PRICES

Selected abstracts for Western projects

BRIDGE—Steel and concrete overpass in Montana

Montana—Silver Bow County—State. W. P. Roscoe Co. of Billings submitted a low bid of \$83,632 for construction of a 231-ft. steel and concrete overpass.

(1) W. P. Roscoe Co.	\$83,632
(2) Dudley Construction Co.	84,552
Hammond-Ejery Engineering Co.	85,313
Montana Engineer & Construction Co.	86,539
Cahill-Mooney Construction Co.	87,005
F. L. Flynn & Co.	89,211
N. A. Nelson Construction Co.	94,981
C. B. Lauch Construction Co.	105,341

	(1)	(2)
207,159 lb. Structural steel.	\$.175	\$.19
48,107 lb. Reinforcing steel.	.14	.14
287 cu. yd. Class "A" concrete.	60.00	59.50
140.6 cu. yd. Class "AD" concrete.	75.00	70.00
466.25 lin. ft. Steel bridge rail.	8.00	8.00
3,300 lin. ft. Furnish tr. timber piling.	1.30	1.50
3,036 lin. ft. Driving tr. timber piling.	1.10	.50
280 cu. yd. Structure excavation.	4.00	3.00
All Lump Sum Test piles.	400.00	500.00

BRIDGE—Reinforced concrete county bridge in California

California—Santa Clara County—State. Lew Jones Construction Co. of San Jose submitted a low bid of \$64,736 for construction of a bridge and approaches to be widened across Stevens Creek on Fremont Avenue between Burns Avenue and Mercedes Avenue, District IV, Route 1002.

(1) Lew Jones Construction Co.	\$64,736
(2) Thomas Construction Co.	65,854
Charles S. Moore	65,874
Dan Caputo Co., Edw. Keeble & Dan Caputo.	66,884
Carl N. Swenson Co., Inc.	67,131
O. C. Jones & Sons	67,482
Granite Construction Co.	68,134
L. C. Smith Co.	69,875
Oscar C. Holmes	71,695
James H. McFarland	72,532
R. G. Clifford & C. O. Bodenhammer	73,498
Bos Construction Co.	74,149

330 cu. yd. Rem. concrete.	\$ 6.00	\$ 9.00
Clear and grub.	1000.00	1375.00
630 cu. yd. Rdwy. exc.	1.25	1.40
270 cu. yd. Struct. exc.	2.65	3.20
2,115 sq. yd. Compact. original ground.	.10	.20
1,500 ton I. B. M.	1.90	2.70
50 M gal. Dev. wat. sup. & furn. wat. equip.	1000.00	350.00
Apply water.	2.00	.25
Finish rdwy.	100.00	400.00
3 ton Liq. asphalt SC-1 (pr. ct.)	45.00	35.00
3 ton Asphalt emul. (pt.bdr. & Cl. "D" sl. ct.)	45.00	35.00
2 ton Paving asph. 200-300 (Cl. "B-Dbl." sl. ct.)	50.00	35.00
15 ton Screen. (Cl. "B-Double" sl. ct.)	10.00	9.00
460 ton P.M.S.	5.85	6.00
280 cu. yd. Class "A" P.C.C.	62.00	.57
190,000 lb. Struct. steel.	.12	.12
320 lin. ft. Clean. and paint. struct. steel.	3400.00	3500.00
Steel railing.	10.00	.86
480 lin. ft. Furn. tr. timber piling.	1.90	.15
20 Ea. Driving timber piles.	120.00	115.00
544 lin. ft. Furn. concrete piles.	4.50	.30
16 Ea. Driving concrete piles.	220.00	220.00
37,000 lb. Bar reinforc. steel.	.10	.10

HIGHWAY AND TUNNEL—Plant-mixed surfacing and tunnels to be tiled in California

California—Marin County—State. A. G. Raisch Co. of San Rafael submitted a low bid of \$1,192,953 for 3.7 mi. in length to be surfaced with plant-mixed surfacing on cement treated base, tunnels to be tiled, and highway and tunnel lighting to be installed between Manzanita and Golden Gate Bridge.

(1) A. G. Raisch Co.	\$1,192,953
(2) Chas. L. Harney, Inc.	1,244,906
Guy F. Atkinson Co.	1,295,342
Eaton & Smith.	1,307,627
Parish Brothers Inc. & Parish Bros.	1,382,620
M. & K. Corp. & Fredrickson & Watson Construction Co.	1,390,821
Brown-Ey Co., Contractors and Hutchinson Co.	1,480,442

	(1)	(2)
12 cu. yd. Removing concrete.	\$ 24.00	\$ 15.00
14,000 lin. ft. Removing traf. stripes. ....	.12	.23
79,000 cu. yd. Rdwy. exc. ....	.55	.78
3,700 cu. yd. Struct. exc.	2.50	4.00
2,350 cu. yd. Struct. backfill.	4.20	3.20
120 cu. yd. Ditch & channel exc.	3.60	3.40
7,500 sq. yd. Compacting original ground. ....	.12	.06
1,405,000 sq. yd. Overhaul. ....	.004	.004
Dev. wat. sup. & furn. wat. equip.	1800.00	23000.00
5,500 M. gal. Applying water.	2.40	.50
26,300 bbl. Finish rdwy.	3500.00	6300.00
82,500 ton Portland cement (C.T.B.)	3.50	3.40
195,000 sq. yd. Process. selected material for min. aggr. (C.T.B.)	175.00	.90
Mix. spread & compact. C.T.B. ....	.072	.35

Continued on Page 162

Economy Steam Cleaner

For Faster Cleaning

Lower Costs

Steam in 90 seconds, ready to start cleaning. Simplified one-control system regulates steam pressure and saturation. Water is pre-heated before entering coil for quicker steam, fuel economy. Rugged, simple construction with only two moving parts, assures dependable operation and low maintenance cost. Top quality at economy price.

Application

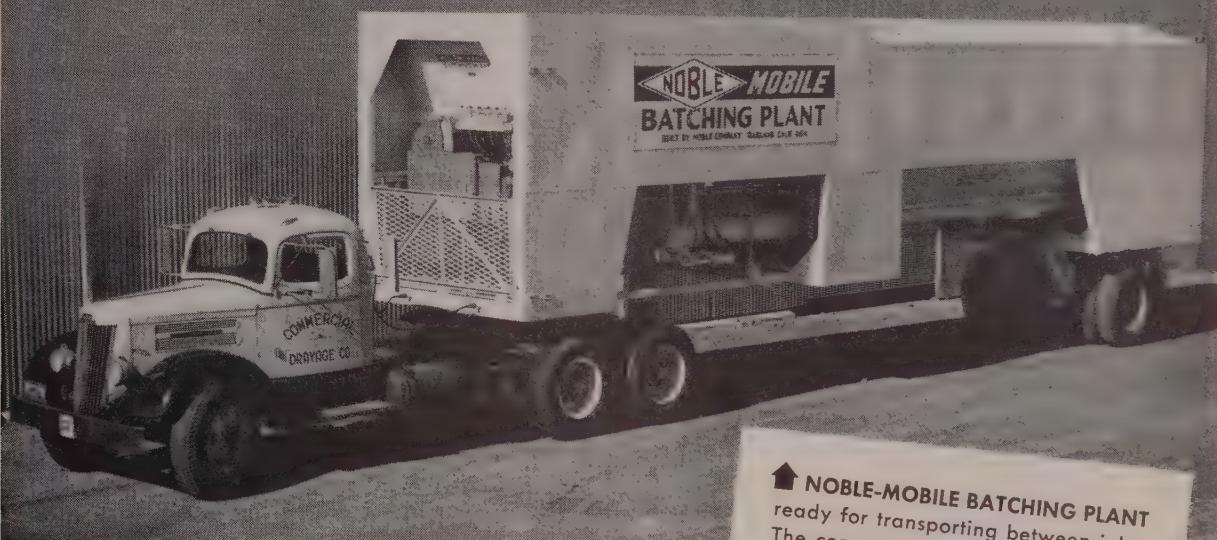
ECONOMY STEAM CLEANERS meet the cleaning requirements of varied businesses including Truck and Fleet Owners, Plant Maintenance, Machinery, Garages, Service Stations, Poultry Raisers, and Dairies.

Complete Specifications and Prices upon request.

Ker-O-Kil Manufacturing Co.

Redwood City, California

New COMPLETELY PORTABLE BATCHING PLANT



NOBLE-MOBILE BATCHING PLANT

FOR CONCRETE CONSTRUCTION IS A COMPLETE PLANT IN EVERY DETAIL. IT FEATURES THE STANDARD NOBLE SEMI-AUTOMATIC OR FULL-AUTOMATIC CEMENT AND AGGREGATE BATCHING SYSTEM. BULK CEMENT IS BATCHED IN THE CENTER CEMENT COMPARTMENT OF A STANDARD TWO YARD WEIGH HOPPER. OUTPUT CAPACITY IS 60 YARDS PER HOUR OR MORE.

Aggregate bin is 3 compartment, 28 tons capacity. Charged by scooploader, clamshell or conveyor.

Bulk cement storage capacity 1000 cu. ft. standard bulk truck receiving facilities.

Request one of our engineers to bring you complete information on the new NOBLE-MOBILE.

▲ NOBLE-MOBILE BATCHING PLANT ready for transporting between jobs. The compressor, motor control panel board, and batching controls are an integral part of the unit which is moved intact. The trailer dolly is a part of the unit and is within legal limits, without special permit, for travel on highways in most states. The cement elevator and receiving hopper, weigh hopper and conveyor or trailer. Assembly and take-down at job-site is a simple operation.

THE PLANT IN OPERATION, BATCHING CONCRETE RIGHT ON THE JOB, FOR A LARGE HOUSING PROJECT. ▼



DESIGNERS AND BUILDERS
CEMENT AND AGGREGATE BATCHING PLANTS
BULK CEMENT PLANTS • AGGREGATE BINS
CEMENT SILOS • CONVEYORS AND ELEVATORS

NOBLE
COMPANY

1840 SEVENTH STREET • OAKLAND 20, CALIFORNIA • TEMPLEBAR 2-5784

SEATTLE OFFICE: 518 FIRST AVENUE N., ROOM 22, SEATTLE, WASHINGTON • LOS ANGELES: 117½ WEST MANCHESTER, INGLEWOOD, CALIFORNIA

See manufacturer's listing page 38H, Yellow Section

Dig • Load • FAST!

WITH
SMOOTH OPERATING
**SHAWNEE
EQUIPMENT**

Pat. No. 2,669,367

SCOUT DITCHER

Digs 12 ft. deep. Various bucket sizes available. Digs under 8 ft. ceiling. Operation smooth and powerful. Easy to install on most all tractors. Removes from tractor in minutes.

UNIT PRICES ... CONTINUED

226 ton	Asph. emuls. (cur. sl., Cl "C-Med"	42.00	44.00
45 ton	Sl. ct., pt. bndr. & Cl. "D" sl. ct.		
3 ton	Liq. Asph., SC-1 or SC-2	36.00	40.00
100 ton	(Per. tr. & pr. ct.)	48.00	56.00
3,000 sq. yd.	Pav. asph. (Cl. "B-Single" sl. ct.)	5.40	7.50
31,600 ton	Screenings (sl. cts.)	.30	.16
5,800 ton	Sterilizing soil	4.87	6.50
1,810 ton	Min. aggr. (type "A" P.M.S.)	5.02	7.00
6,000 sq. yd.	Placing P.M.S. (gutters)	27.00	6.50
10,700 lin. ft.	Placing P.M.S. (dikes)	.18	.80
130 lin. ft.	Raised traffic bars	2.10	2.30
80 cu. yd.	Class "A" P.C.C. (Structures)	90.00	95.00
14,000 lb.	Misc. iron & steel	.30	.30
5 cu. yd.	Sacked concrete riprap	50.00	40.00
2,575 cu. yd.	Cl. "B" P.C.C. (curbs, gutters & sidewalks)	36.00	30.00
1,100 ea.	Curb dowels	.30	.60
17,792 lin. ft.	Metal plate guard railing	2.75	3.00
2,048 lin. ft.	Salv. exist. met. plate guard rail.	.65	.70
3,348 lin. ft.	Reconst. salv. met. plate guard rail	.93	1.20
230 ea.	Culv. mkrs. horiz. refl. units & guide posts		
6,718 lin. ft.	36" chain link fence	5.50	6.00
644 lin. ft.	48" chain link fence	1.00	1.10
440 lin. ft.	12" R.C.P.	1.15	1.40
1,328 lin. ft.	18" R.C.P.	2.05	2.50
260 lin. ft.	21" R.C.P.	3.35	4.00
204 lin. ft.	24" R.C.P.	4.45	5.00
164 lin. ft.	27" R.C.P.	5.80	6.00
224 lin. ft.	30" R.C.P.	7.00	7.00
216 lin. ft.	36" R.C.P.	7.80	7.50
25 lin. ft.	39" R.C.P.	10.20	12.00
12 lin. ft.	48" R.C.P.	12.00	13.50
34 lin. ft.	8" C.M.P. asbest. bnd. & bit ct. (16 gage)	30.00	18.00
16 lin. ft.	18" C.M.P. bit. ct. (16 gage)	3.60	3.00
18 lin. ft.	30" C.M.P. bit. ct. (14 gage)	9.00	5.50
18 lin. ft.	42" C.M.P. bit. ct. (12 gage)	14.40	10.00
176 lin. ft.	12x2 3/4" pt. cir. corr. met. culv. (12 gage)	26.40	17.00
846 lin. ft.	8" P.M.P. underdr. asbest. bnded & bit. coated (16 gage)	2.70	2.50
200 cu. yd.	Filter material	7.20	4.50
1 ea.	Spillway assem. (12" outlet)	60.00	65.00
88 lin. ft.	12" C.M.P. dn. dr., bit. ct. (16 ga)	4.10	4.00
78 lin. ft.	18" C.M.P. dn. dr., bit. ct. (16 ga)	6.00	5.50
376 lin. ft.	24" C.M.P. dn. dr., bit. ct. (14 ga)	8.10	8.00
8,800 lb.	Bar rein. steel	.12	.17
	Water stor. tank (wat. sup. sys.)	108.00	75.00
1,500 lin. ft.	1 1/2" galv. stl. pipe (wat. sup. sys.)	1.20	1.10
200 lin. ft.	3" outlet pipe	3.75	11.00
1,680 lin. ft.	3" interceptor pipe	2.00	1.90
2,227 lin. ft.	2" collector pipe	4.00	4.50
1,990 lin. ft.	Weep holes	2.00	3.40
700 lin. ft.	Cutting out cracks	3.50	2.20
4,180 lin. ft.	Cutting out joints	4.00	2.20
4,880 lin. ft.	Seal cracks & joints	3.00	1.00
	Prep. tunn. for tilg. (S. bnd-old)	3349.00	3500.00
	Prep. tunn. for tilg. (N. bnd-new)	3190.00	3400.00
1,000 sq. yd.	Tunn. tile (walls) (S. bnd-old)	14.54	15.25
1,050 sq. yd.	Tunn. tile (walls) (N. bound-new)	14.87	15.50
316 sq. yd.	Tunn. tile (arch-str.) (S. bnd-old)	16.69	19.00
8,200 sq. yd.	Tunn. tile (arch.) (N. bound-new)	13.83	14.50
	Sign frames	1400.00	1000.00
	Highway lighting & sign lighting	65761.00	87000.00
	Tunnel lighting	13235.00	130000.00
6 ea.	Wood pole electroliners	135.00	300.00

WATERWAY—Construction of revetments on South Santiam River in Oregon

Oregon—Linn County—C. of E. A low bid of \$13,845 was submitted by the Floyd Grahm Construction Co. of Lebanon for construction of derrick and dumped stone revetments along the left bank of the South Santiam River at the Cox Location, 8 mi. east of Albany.

(1) Floyd Grahm Construction Co	\$13,845
(2) S. W. Groesbeck	16,933

Contracting officer's estimate

10,358

(1)	(2)
3,440 cu. yd. Excavation	\$1.50
300 cu. yd. Embankment from gravel borrow	.01
1,610 cu. yd. Dumped stone revetment	5.50
530 cu. yd. Derrick stone, in place	5.50

4.25 4.91

3.05 4.07

240.00 160.00

275.00 180.00

290.00 225.00

310.00 260.00

390.00 300.00

405.00 340.00

50.00 30.00

55.00 40.00

30.00 30.00

60.00 40.00

90.00 62.50

3.00 3.00

1,400.00 6,700.00

SEWERAGE—Sanitary sewer in California

California—Shasta County—City. A low bid of \$47,924 was submitted by Pat Barkley of San Jose for construction of a sewerage system in Red Bluff.

Alternate A	Alternate B
\$47,924	\$48,843
56,415	58,399

55,891 59,934

(1) (2)

3,675 lin. ft. 8-inch VCP, Alternate A	\$ 4.00	\$.43
5,285 lin. ft. 10-inch VCP, Alternate B	4.25	4.91
1 ea. Manholes up to 5 ft	3.05	4.07
3 ea. Manholes 5 to 7 ft	240.00	160.00
5 ea. Manholes 7 to 9 ft...	275.00	180.00
\$0 ea. Manholes 9 to 11 ft...	290.00	225.00
5 ea. Manholes 11 to 13 ft...	310.00	260.00
1 ea. Manholes 13 to 15 ft...	390.00	300.00
1 ea. Connection to existing manhole...	405.00	340.00
11 ea. Rod holes...	50.00	30.00
53 ea. House connections up to 10 ft...	55.00	40.00
73 ea. House connections 10 to 20 ft...	30.00	30.00
44 ea. House connections 20 to 30 ft...	60.00	40.00
50 cu. yd. 2-inch max. gravel...	90.00	62.50
Lump sum Replace pavement...	3.00	3.00
	1,400.00	6,700.00

FOR SNOW REMOVAL

2/4 Cu. Yd. snow bucket (66" wide) available for Shawnee "SPECIAL" Loader. 1 Cu. Yd. snow bucket (76" wide) available for the "LOADMASTER". Bucket clears wheels for street clean-up.

FARM AID EQUIP. CO.
2932 EAST TRENT
SPOKANE, WASHINGTON

H. B. EQUIPMENT CO.
18912 S. NORMANDIE
LOS ANGELES, CALIFORNIA

Manufactured by

Shawnee Manufacturing Co., Inc., 1947X N. Topeka, Topeka, Kansas
See manufacturer's listing page 45H, Yellow Section

Ad No. 491-C

DISTRIBUTORS:

CONVEYCO



It moves with the job — without an over-width highway permit! This Conveyco Fully Portable 1½-Yard Batch Plant goes anywhere your trucks can go, sets up or takes down in one day. Belt-fed, clam shell or bucket elevator loading. The special silo acts as its own semi-trailer. Aggregate bin erects or takes down in 4 compact sections that travel in convoy to the next location. Bin capacity: 95 tons (135 tons with surcharge section). A big profit factor for the operator who must move his equipment fast and often!

Conveyco Recirculating Silos...

...provide the utmost in portability and easy erection. Have integral bucket elevators and recirculating systems. Silos set in operating position with one lift of crane. When connected to power source, silo is then ready to operate.

There's a Conveyco Plant for Every Batching Need!

For almost three decades, The Conveyor Company has specialized in the design and manufacture of portable and stationary concrete batch plants. Conveyco manufactures batch plants for every need in capacities from 75 to 500 tons. This broad experience has enabled contractors to produce concrete more efficiently — and more profitably.

Why not put this depth of engineering skill to work for you? If you have a batching problem ... need specialized equipment for a specific job ... Conveyco engineers are sure to have the answer. What's more, they'll be happy to assist you select the proper units to fit any job.

CONVEYCO

THE CONVEYOR COMPANY

Engineers and Manufacturers

3260 E. Slauson Avenue • Los Angeles 58, California

See manufacturer's listing page 17H, Yellow Section

2 "PORTABLES"
FOR MORE
PROFIT IN
BATCHING



The Conveyco 5½-Yard Batch Plant is made to order for concrete producers who prefer greater bin capacity and large weigh hoppers, yet insist upon portability, ease of erection and take-down. The entire plant can be set up in one day by a crew of four men with a crane. Every detail of design has been planned to produce compact, ready-to-run components that can be quickly set in place and assembled with a minimum of bolting. Capacity: 80 tons (125 tons with hinged surcharge section).

Literature describing Conveyco portable and stationary batch plants and auxiliary equipment is yours for the asking. Just clip the coupon below to your letterhead and mail today!

The Conveyor Company, Dept. WS-70
3260 E. Slauson Avenue
Los Angeles 58, California



Please send free Catalogs describing Conveyco batch plants and auxiliary equipment.

Name _____
Firm _____
Address _____
City _____ Zone _____ State _____



News of DISTRIBUTORS

AED: Round tables for 3 Western regions

FOR A SECOND TIME the Associated Equipment Distributors of the eleven Western States (Regions 11, 12, and 14) have gathered in a Tri-Regional Conference to discuss common problems. This conference was held in Colorado Springs, Nov. 4, 5, and 6, and had been preceded three years earlier by the first conference of its kind, at Sun Valley. Success of the recent conference and the endorsement of those attending indicate that such a tri-regional meeting will become a regular event, possibly at 2-yr. intervals. Host of the 1954 meeting was Region 14 under the direction of R. E. Corson, director.

Opening general session

The first business meeting of the conference was conducted by R. E. Corson and led off with a report on AED activities, both present and future, by President Gagel. He particularly emphasized the fact that AED was developing recognition at the national level, noting that several officers of AED had recently been appointed to serve on boards and committees of national organizations.

Ray Finn, executive vice president of AED, reviewed in some detail the results of a questionnaire survey intended to develop information on the cost of doing business among AED members. This information will subsequently be prepared in report form and made available to members of the organization.

A. S. Horner, a past national president of AGC, reviewed some of the things that a contractor expects from his equipment distributor. He restated some of the standard requests made most frequently by contractors, including the need for the stocking of parts by distributors and the value of prompt service in making these parts available. The promptness of such service is particularly important over week-ends when a contractor has the opportunity to make repairs and carry out maintenance without shutting down his job. This is particularly true here in the West where jobs are so far removed from manufacturing establishments. He also said that contractors expect distributors to provide adequate instruction for operators when the equipment is delivered to the job, with special attention on preventive maintenance.

Finally, Horner condemned the practice of some distributors in offering to equip new contractors through exceptional financing programs, if and when they secured a job. This tends to put the inexperienced contractors into business at an unfair advantage to the established contractors who carry out work in accord with AGC standards.

Shirtsleeve sessions and summaries

The main feature of the conference was the group of "shirtsleeve" round table discussions where the distributors divided into six small groups for one entire afternoon. These sessions had been carefully arranged with discussion leaders distributed among the three regions, and assignments which placed distributors of varying size and geographical location around the same table.

At the concluding session of the conference the six discussion leaders summarized the ideas and comments presented at their tables for the benefit of all attending. Some of the major points made in these summaries follow:

Contractors like lease-purchase

Herb Mayer, Edward R. Bacon Co., San Francisco, reviewed the subject of financing and leasing, stating that for rather obvious reasons contractors like the leasing principle for acquiring construction equipment. The method has now become firmly established and can be expected to continue. An increasing problem relates to the matter of interest rates, which have been reduced in many cases for the purpose of concluding a tough sale. Mayer stated that the consensus of his group was that financing charges have deteriorated. This situation approaches a condition where the distributor becomes a partner in financing a contractor without adequate compensation.

Another modern practice related to the paying of equipment on the basis of "yards moved" or similar units of field work. Such a plan, according to the discussion group, should at least be protected by the requirement of minimum monthly charge. Further, such a plan would obviously be suitable only for a few select customers.

The matter of "product" insur-

ance, where the distributor would be named along with the manufacturer on damages due to alleged failure of the product, was also discussed. Costs and the variation in the costs of insurance protection were also reviewed extensively. At the conclusion of this report, President Gagel told the members of the conference that a committee of AED was already studying the idea of a standard program for adequate insurance to protect equipment distributors.

Advertise your own services

The round table discussion of advertising was summarized by Edward Taylor, Gunderson-Taylor Machinery Co., Denver. He reported a consensus definitely opposed to cooperative advertising, and the sentiment that manufacturers should promote the lines and products they make. The distributor's position was that it is the sole responsibility of the manufacturer to create and build up acceptance for his product, leaving the distributor the job of building up acceptance for his services.

The availability of used equipment was mentioned as the most fruitful place for the use of distributor advertising funds. This could be carried out by leaflets distributed by direct mail or by newspaper classified advertising. Direct mail was considered as the most effective means of getting this message to prospects if it was properly done in accord with a well-conceived plan. It was felt that the mailings should be addressed to individuals and that the list should be built up by the distributors' salesmen. Also any plan must include necessary financing for three or four mailings, as one will prove ineffective. Advertising budgets varied from 0.5% to 2% of gross volume of business.

The idea of a Junior AED for service and parts men was explored by Conrad Creim, Bow Lake Equipment Co., Seattle. The round table discussion on this subject developed many pros and cons. The final consensus was that it remained one for local consideration and possible development.

Training for salesmen

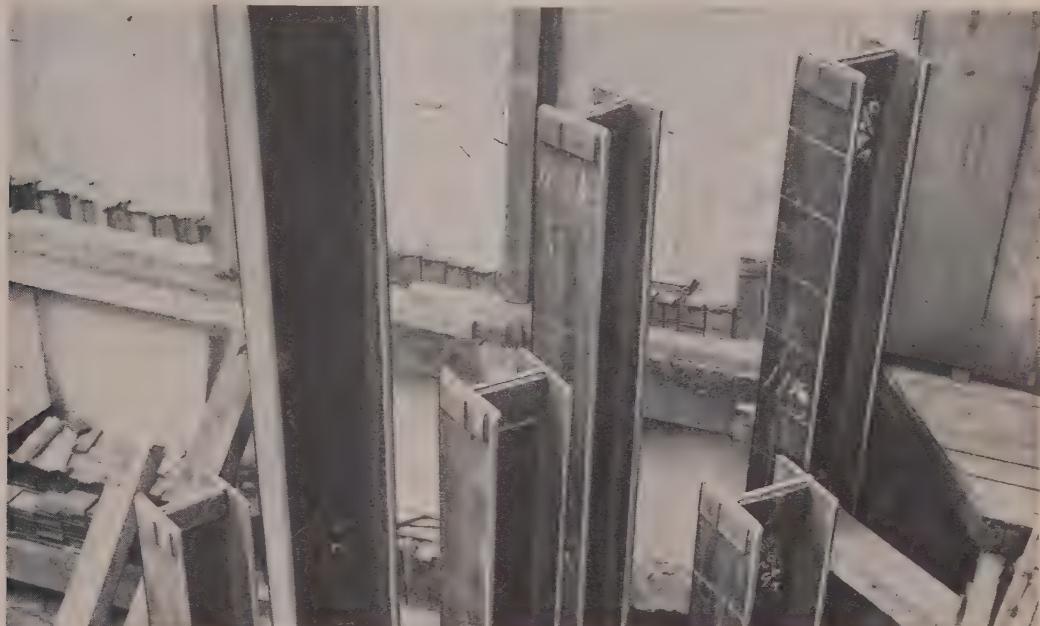
The training of salesmen was summarized by John C. Moore, H. W. Moore Equipment Co., Denver. The discussion in that group covered all aspects of the subject from the matter of selection, with the possibility of aptitude testing, through the need for training in front-office routine, parts and service work before the man was properly equipped for starting a sales career. The idea of sending the young salesman to a factory school for a short course generally met with disapproval on the grounds that such a course might be too intense and create more confusion than clarity in the mind of the young salesman. However, the idea of a trip to the factory for general observa-



THE NEW EQUITABLE BUILDING
in San Francisco is scheduled
for completion in May of this year.

Architects: W. D. Peugh, and successors Loubet & Glynn
Consulting Architect: Irwin Clavan, New York
Structural Engineers: F. W. Kellberg, Foundation Engineer: Charles H. Lee
General Contractor: Dinwiddie Construction Co.
Steel Erection: Consolidated Western Steel Division

25 Stories Up... and 133 Feet Down!



To provide a firm foundation for the new 25-story Equitable Building required 446 H-Beam Bearing Piles (14 in., 102 lb.) driven to refusal in hard rock at depths ranging from 107 to 133 feet below basement level. Piles were designed for an allowable load of 135 tons. Construction on the new building also features high-strength steel bolts instead of rivets. And in addition to the 3300 tons of piling, 5300 tons of structural and 50 tons of stainless exterior facing are used. It takes steel to change a skyline... and all of this steel came from the mills of United States Steel.



USS Products for Heavy Construction

United States Steel Corporation • Columbia-Geneva Steel Division

UNITED STATES STEEL

See manufacturer's listing page 16H, Yellow Section

tion and indoctrination was considered most helpful.

Lastly, the subject of warranty on equipment was summarized by Willis Blakesley. The subject was considered in its two obvious parts: the relation of distributor to manufacturer and the relation of the distributor to the final purchaser. The generally accepted standard of a 90-day warranty on defects was considered proper and adequate, but its interpretation and final settlement for the distributor who carries out the replacement is subject to wide variation. Large and well established manufacturers, according to the discussors, will tend to take care of such claims both as to the replaced part and a basic labor allowance. On the other hand, too many manufacturers may use every device to get out of this responsibility.

On the second stage—the warranty

as it exists between distributors and purchasers—the consensus held that this matter fell wholly on the distributor since, in the final analysis, it is to his advantage to keep the customer satisfied. Every purchaser is also a potential customer for other lines handled by the distributor and must not be allowed to become dissatisfied over defects on one particular unit. Complaint was registered in connection with factory service men who were considered prone to see only the one side of such disputes.

Jack Randle concluded the final session with one of his usual stimulating and inspiring talks. Starting with the growth and present size of the industry, he told of the keener competition between contractors which leads to pressure on distributors for price cutting and other expedients which may provide a temporary benefit but do long range harm.

Columbia officials

New company officials have recently been named by Columbia Equipment Co., Portland and Seattle dealer. F. L. (Jerry) Jerome, who has been with the company for the past ten years, was elected president. Newly elected vice president and sales manager is J. M. (Jim) Wahoske, who has also been with Columbia for ten years. Floyd W. Morris was elected secretary-treasurer. Election of these officials followed announcement of the retirement of Frank McBath as president and F. L. Jerome and Ray Hicks as vice presidents.

DeHuff manages Denver office

William H. DeHuff, recently promoted to manager of the Denver office of Harnischfeger Corporation, is directing sales of all P&H products in that territory. A civil engineer, DeHuff has been with Harnischfeger since 1949 and his experience equips him with a thorough knowledge of all the products manufactured by the company. DeHuff succeeded Thomas J. Jeanneret, who was appointed general manager of the Pacific Division at Los Angeles.

TerraTrac appoints regional mgr.

George A. W. Bell, Jr., recently of Billings, Mont., is the new Western regional manager of the American

Tractor Corp., with headquarters in San Francisco. He has had wide experience in the earthmoving, logging, and materials handling fields. He served a number of years with Caterpillar. Following War II he set up distribution of Schield Bantam shovels and cranes in the West, and during the past several years he has been a successful excavating contractor in Montana.

Don Williams is Northwest mgr.

Appointment of Don R. Williams of Portland, Ore., as division sales manager for Oregon, Washington, and British Columbia, was recently announced by Osgood-General. Most recently he has been sales manager for P. L. Cook & Co., Portland, and prior to that had been in business for himself as an equipment distributor in Eureka, Calif. In his new post he will work with and through Osgood-General distributors in his area, including Western Equipment Co. in Portland and Eugene; Washington Machinery Co., Inc., Seattle; and Columbia Equipment Co., Ltd. in Vancouver, B. C.

R. P. Brooks named sales mgr.

Robert P. Brooks was recently appointed Northwestern sales manager for Bucyrus-Erie Co. He takes over responsibility for sales of all Bucyrus-Erie products in the states of Wash-

ington, Oregon, Idaho, and Montana; Alaska, and western Canada. He will maintain headquarters in Seattle, at the district sales office, where he has been sales representative for small shovels manufactured by the company.

Waltman moves to Northwest

Herbert L. Waltman has been named manager of the Pacific Northwest district for Leschen Wire Rope Division, H. K. Porter Co., Inc. The district covers Washington, Oregon, western Idaho, Montana, and North Dakota, with headquarters in Seattle. Waltman has been with Leschen since 1941 and before the present appointment he was manager of the Leschen Denver sales district. In mid-November the company moved its Seattle warehouse and office to 2724 First Ave. South.

Roebling's appoints Pac. Coast mgr.

Robert J. Cole has been named by John A. Roebling's Sons Corp. as Pacific Coast manager of the firm's construction materials division. Cole, prominently identified with construction of many of the country's largest suspension bridges during the past 25 years, will now direct the sale of wire and stranded steel products for prestressed concrete from Roebling's district headquarters in San Francisco.

Ken Simpson joins Cook Bros.

Ken Simpson has joined Cook Bros. Equipment Co. and will specialize in the sale of C. S. Johnson concrete batch plants to contractors and ready-mixed concrete companies. Simpson has been associated with heavy construction for more than 25 years, having worked in both the construction and engineering fields. He will headquartered at the main office of the company in Los Angeles and will serve the construction industry in batching equipment throughout California, Arizona, and Nevada.

Nelson Stud Welding moves

Nelson Stud Welding Division of Gregory Industries, Inc., has moved its Denver factory branch warehouse to larger quarters at 1434 Blake St., to meet increasing demand for stud welding equipment from construction and manufacturing firms in the



Jerome



Wahoske



DeHuff



Bell



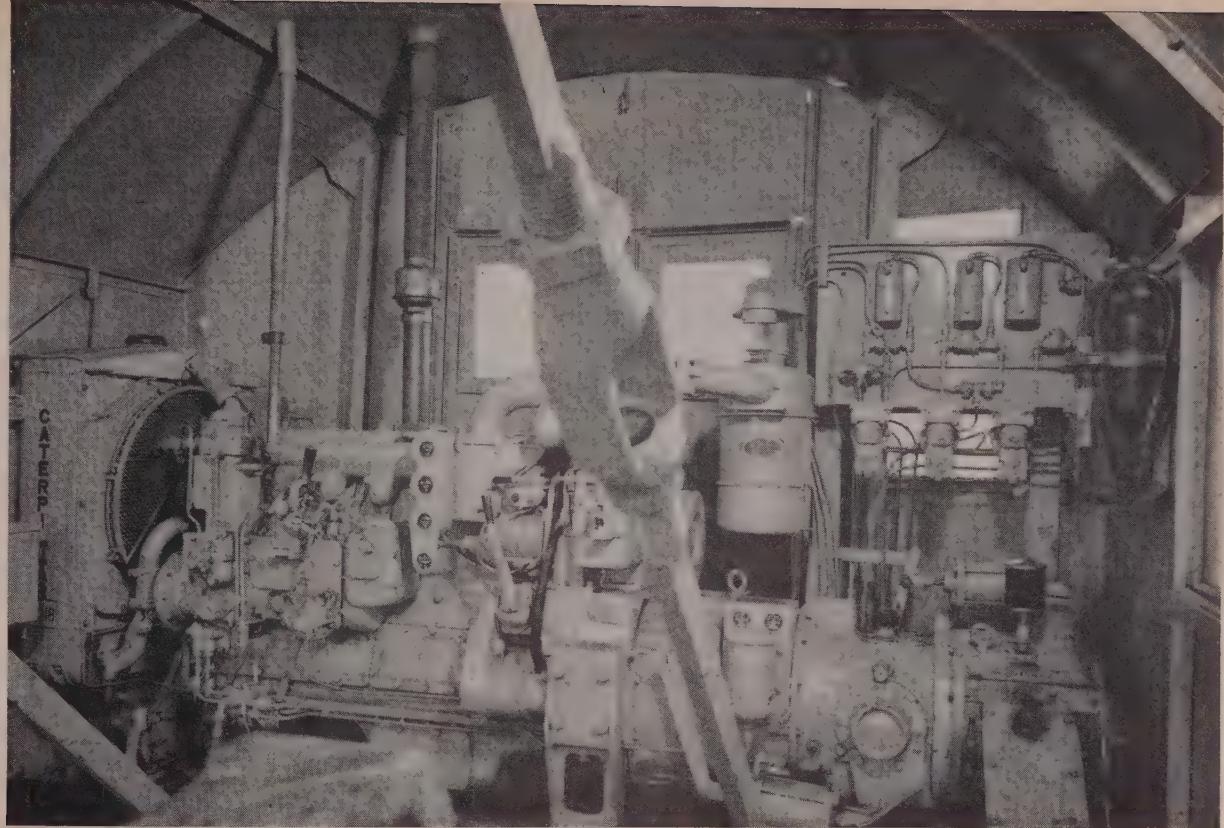
Williams



Brooks



Waltman



This Caterpillar D318 Diesel—powering a crane—works through a Twin Disc Model CF Torque Converter which provides faster work cycles, protects both engine and driven equipment. Behind the Model CF are a Twin Disc Reverse Gear and two Twin Disc Heavy-Duty Friction Clutches.

Why the trend is to Torque Converters

Planning to order a new power unit?

Today, many equipment owners are planning on getting *more* work output . . . and *longer* equipment life: they're ordering their new power units *complete* with Twin Disc Torque Converter Drive. And they're having Torque Converter Drive installed on equipment already working in the field.

Why? Briefly, here are six *proven* reasons why: 1 Through the Twin Disc Three-Stage design, their engines' output torque is *multiplied up to six times* . . . the highest torque multiplication available. Consequently, they're *eliminating* harmful, costly engine lugging and stalling. 2 With Torque Converter Drive, their engines are working up in the maximum efficiency range *all* the time, delivering *constant* high-horsepower output. 3 Power is *automatically* matched to the load demand, with

gear-shifting minimized or eliminated. 4 Heavy load pick-up is *smooth, even, without* clutch-slippage. 5 Overloads, shock loads, vibrations and torsional variations are cushioned *out*, through *fluid* connection . . . which means *longer* life, *less* maintenance on engines, transmissions, clutches, drive line components and driven equipment. 6 Torque Converter Drive provides an *infinite* variety of ratios to work with, permitting *smooth, accurate control* of the load and delicate "inchng" or "holding" under power.

So if you're thinking about a new power unit . . . or thinking about present equipment needing more power, more performance . . . be sure to get the facts on Torque Converter Drive. Ask your engine dealer. Or write Twin Disc Branches: 2950 Leonis Blvd., Los Angeles 58, Calif.; 820 1st Ave. S., Seattle 4, Wash.

By providing the most **COMPLETE** line of Industrial-Type Torque Converters available, Twin Disc can accommodate any type gas or diesel engine up to 650 hp—with practically any hook-up. Three series, or sizes, of Three-Stage Torque Converters are provided, with 7 capacities in each size through internal blading variations. A total of 20 different input, output combinations are available, making Twin Disc Torque Converters easily adaptable to any type installation.



TWIN DISC CLUTCH COMPANY, Racine, Wisconsin
Hydraulic Division, Rockford, Illinois

See manufacturer's listing page 49H, Yellow Section



LINK-BELT CO.'s new modern sales office and warehouse at 3030 N.W. Industrial St., Portland, Ore., is a company-owned building and includes office space, large warehouse facilities and a factory branch store. It has been designed for easy expansion in the future.

Rocky Mountain area. Vincent G. Probst is resident manager for Nelson.

New Allis-Chalmers branch mgr.

Sherman O. Anderson is appointed branch manager at Portland, Ore., for the Tractor Division, Allis-Chalmers Mfg. Co., succeeding A. E. Mills who has retired. Anderson has been company branch manager in Toledo, Ohio, since 1950.



Anderson



Hjalmarson

New Western rep.

The Wayne Crane Division of American Steel Dredge Co., Inc., has announced the appointment of Conrad Hjalmarson as the new Western district sales representative, with

headquarters in Los Angeles. For the past seven years, Hjalmarson has been a construction superintendent with several large construction companies both in the United States and abroad.

Pac. Northwest district mgr.

Smith Engineering Works, manufacturer of "Telsmith" crushers and other equipment for contractors, gravel plants, quarries, etc., announces the appointment of Jake R. Smith as Pacific Northwest district manager. His territory includes Washington, Oregon, and Idaho and the provinces of British Columbia and Alberta, with headquarters in Portland, Ore.

Billings White Truck

Billings White Truck Co., Billings, Mont., has been appointed state distributor for Hobbs Trailer Co., Fort Worth, Tex., manufacturer of the Hobbs-Schonrock cable dump trailer.

Pacific Hoist & Derrick

Pacific Hoist & Derrick Co., Seattle, was recently appointed distributor for Ford industrial tractors, loaders and diggers, featuring Ford major diesel, for Seattle and Puyallup,

Wash., as well as the Washington counties of Pierce, Mason, Kitsap and Thurston.

Portland firm adds to sales force

Two new men recently were added to Cummins Diesel Sales of Oregon, Inc. Joe T. Dahl is handling sales in the Portland, Ore., area, and Bernard W. Hanson is in sales and service, with headquarters in Roseburg, Ore.

J. T. Jenkins extends service

J. T. Jenkins Co., Los Angeles equipment company, on Nov. 1 opened a branch in Albuquerque, New Mex., at 1630 Second St. N. W., handling Kenworth motor trucks: sales, service and parts. Glenn Stroud is branch manager; H. D. Drum, service manager; and William C. Roach, parts manager.

Intermountain distributor

Motor Mercantile Co., headed by Hal Barbel, manager, and located at Salt Lake City, Utah, was recently appointed to represent the Continental Sales & Service Co. as Intermountain distributor.

Homelite promotes Ralph Evans; ups Dodelin

Richard Dodelin has replaced Ralph Evans as branch manager of Homelite Corporation's Sacramento (Calif.) branch. Ralph Evans was promoted to assistant district manager at San Francisco.

New Wyoming corporation

A new corporation, the Keremi Tractor & Equipment Co., has been formed at Cheyenne, Wyo., to sell and service various lines of construction and industrial equipment in the state of Wyoming and a portion of western Nebraska formerly handled by Wilson Equipment & Supply Co. Principal offices and warehouses are located at Cheyenne, with branch office and warehouses at Casper, the locations being the same as those previously occupied by Wilson. Officers of the new corporation are George Fouliard, president; and H. E. Martin, vice president.



CYCLONE SANDBLASTERS

will solve your blastcleaning needs. CYCLONE features one man trigger controlled operation, lightweight, portability, low cost. A complete line of sandblast equipment that operates from 1 HP to 100 HP compressors.



From small hand tools to blasting cabinets, rooms and dust collectors.

For prices and literature write to
SAFETEE PRODUCTS CO.
173 14th St., San Francisco 3



MOVING?

MOVED?

PLANNING TO MOVE?

Don't forget to use our rip-out post card for your change-of-address.

First in the field!

New Gardner-Denver 4½" Wagon Drill

new

4½" hammer diameter for
heavy-duty rock work.

new

drilling capacity for
handling larger rock bits.

new

drilling power for
deep hole drilling.

The new WRM123 heavy-duty Wagon Drill combines the new 4½" Drill, Ring Seal Shank, Sectional Drill Rods, and hydraulic power lifts for positioning the mast. Handles 10- to 12-foot steel changes. Write for additional specifications on Model WRM123.

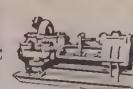


SINCE 1859

GARDNER-DENVER



WB COMPRESSORS



GROUT PUMPS



AIR MOTORS



COMPRESSOR OUTFITS



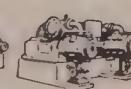
TRAILER COMPRESSORS



CENTRIFUGAL PUMPS



EX COMPRESSORS



MA COMPRESSORS

THE QUALITY LEADER IN COMPRESSORS, PUMPS AND ROCK DRILLS
FOR CONSTRUCTION, MINING, PETROLEUM AND GENERAL INDUSTRY

Gardner-Denver Company, Quincy, Illinois

Western Branch offices: Butte, Mont.; Denver Colo.; Los Angeles, Calif.; Salt Lake City, Utah
San Francisco, Calif.; Seattle, Wash., Wallace, Idaho; El Paso, Texas

See manufacturer's listing page 24H, Yellow Section

Engineers, Carpenters,
Concrete Men, Foremen,
Superintendents:

SOLVE ENGINEERING PROBLEMS at a Glance!

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Address.....

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Position..... Company.....

MANUFACTURERS

New customer finance plan

Schield Bantam Co., truck crane and excavator manufacturer, recently announced a special finance plan to help new customers buy or rent a Bantam machine. Known as the Schield Bantam-Heller finance plan, complete details are available through all distributors of the company's equipment.

F. R. Paris becomes asst. sales mgr.

A. F. Woods, sales manager of the Marlow Pumps Division of Bell & Gossett Co., announces the appointment of F. R. Paris as assistant sales manager. In addition to assisting Woods with sales policy, Paris will directly supervise all Marlow Division district engineers west of the Mississippi. He has been with the company for the past five years, and is now located at the Longview, Texas, plant, which is his official headquarters.

Milton Smith is new V.P.-genl. mgr. of Marion

The election of Milton T. Smith as vice president and general manager of Marion Power Shovel Co. was recently announced. He was named to a similar post with The Osgood Co., a subsidiary of Marion, and was elected a director of both companies. A veteran of long service in the power shovel industry, Smith previously was associated for 26 years with the Bucyrus-Erie Co., most recently as a vice president.

New B-E genl. sales mgr.

Lawrence E. MacDonald has been appointed general sales manager for Bucyrus-Erie Co., with responsibility for all domestic sales. MacDonald has served the excavator manufacturer for over 28 years.



THE TIMKEN Roller Bearing Co.'s new Los Angeles quarters at 2727 South Flower St. The new office building and warehouse contains 7,000 sq. ft. of floor space. Four divisions of the Timken company have offices at this location. L. J. Halderman is service-sales branch manager; H. V. Fleming manages the industrial and automotive division, and S. R. Kallenbaugh the steel and tube division.

J. D. Adams promotes Wallis

J. D. Adams Manufacturing Co. announces the appointment of Buel Wallis as general sales manager. A member of the Adams organization since 1929, he has served in company branches in various sections of the country. In 1946 he returned to the home office at Indianapolis as Eastern division manager.

AISC elects new presy

Earle V. Grover of Los Angeles, president of Apex Steel Corp., Ltd., has been elected president of the American Institute of Steel Construction, Inc. Grover is the first West Coast man ever to be elected to this office. He succeeds John E. Jackson.

Sweeney becomes Wayne Crane sales mgr.

Felix Sweeney has been appointed sales manager of the Wayne Crane Division, American Steel Dredge Co., Inc., Fort Wayne, Ind. Prior to this appointment, Sweeney was sales representative of the Eastern district, and before that represented Wayne Crane in the Midwest.

Heuser made Le Roi V. P.

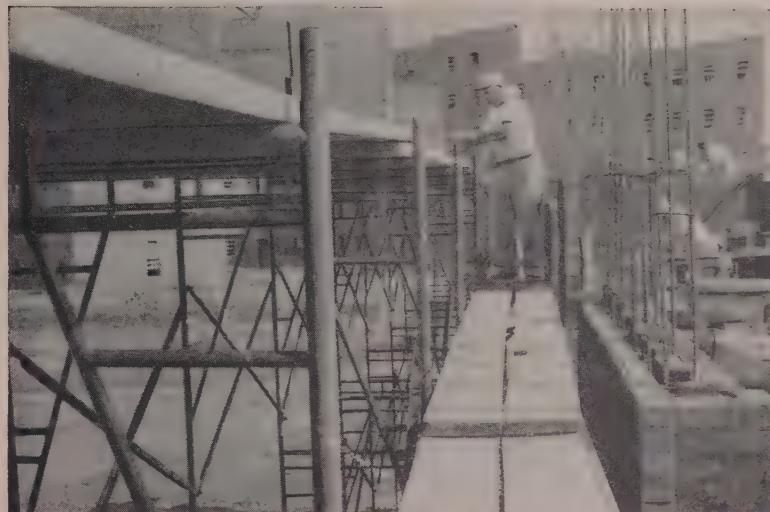
Announcement of the appointment of Jack E. Heuser to the position of vice president in charge of sales was recently made by the Le Roi Company. He will be responsible for the organization and management of a newly created sales division which will sell and service all Le Roi products. Also recently announced is the appointment of Ray H. Rodolf as general manager of the compressor division, and Herschel V. Hiatt, general manager of the engine division.

C. F. Rogers heads American Tractor sales

C. F. Rogers, former general sales manager for Lindsay Bros., Inc., has been chosen for the newly made ex-

Scaffolding Methods . . .

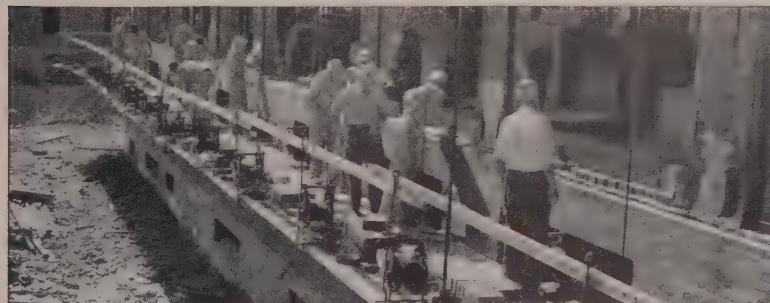
by Patent Scaffolding Co.



BUILT-UP FOR MASONRY WORK, this "Trouble Saver"® Sectional Steel Scaffolding speeds construction on the new Veterans Administration Hospital, Sepulveda, Calif. 3000 of the 6'6"-high, 5'-wide "Trouble Saver" frames were rented and erected by general contractor Gust K. Newburg. 20"-wide sidewall brackets support the adjustable mason platform; put men within easy reach of materials. "Trouble Saver" Scaffolding, distributed by PS Co. on a rental or sale basis, is described in free Bulletin PSS-24.



ROLLING SCAFFOLDS ARE "DOLLAR SAVERS", according to J. B. Shamel of California Electric Construction Co., who used 25 of these "Trouble Saver" Rolling Scaffolds to expedite overhead installations at North American Aviation's El Segundo plant in California. For details on dozens of time saving uses, request free Bulletin PSS-14.



HANGING SCAFFOLDS were used at the Bromley Park Housing Project, Roxbury, Mass., by general contractor M. S. Kelleher Co. 5 ft.-wide "Gold Medal"® Safety Scaffolding Machines provided a safe, unobstructed, adjustable working platform. 180 machines were used. "Gold Medal" Junior Safety Swinging Scaffolds are often used for washing down brickwork. For details on both types of Scaffolds, ask for Bulletins SS-1 and J-6.



ENCLOSING A FAMOUS EDIFICE, these erectors are installing "TubeLox"® Scaffolding for repair work on New York's famous Grace Protestant Episcopal Church. 31,612 lineal ft. of tubing and 5,828 couplers were used. "TubeLox" Scaffolding can be built-up to almost any height, conforms to any contour. Ask for free Bulletin 10-PTS.

THESE PRACTICAL EXAMPLES of PS Co. Scaffolding providing safe footing for construction workers are typical of PS service. No matter where the job is located, the *right* scaffolding is quickly available from Patent Scaffolding Co. Whether the job is simple and small or goes steeplehigh; involves uneven terrain or requires mobility, contractors can always rely on PS—the only complete line. It pays to remember—when it comes to scaffolding, come to PS.

FOR GREATER SAFETY...EFFICIENCY...ECONOMY



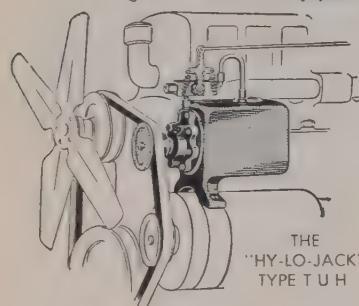
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GRAND RAPIDS 6, MICHIGAN

See listing page 37H, Yellow Section

WISCONSIN-POWERED BONDACTOR "Shoots On" Gunnable Aggregates

"Gunning" sand or cement are but two of the jobs handled by the "Bondactor", built by Air Placement Equipment Co., Kansas City, Mo. This unit also applies "gun-type" insulating concretes, blended fire clays and many other materials. Power is supplied by a Wisconsin Heavy-Duty Air-Cooled Engine.

Equipment builders and users know that on jobs calling for variable load lugging power, Wisconsin Engines deliver heavy-duty dependability. For example, when sudden shock-loads slow down the engine and the torque increases, your Wisconsin Engine has the lugging power that hangs on . . . pulling through without loss of efficiency or stalling. Wisconsin Engines also have the steady-going ability to deliver continuous, constant-load heavy-duty service. You get power that matches up with any machine, any job, 3 to 36 hp. Write today for new 64-page catalog with action pictures and details covering all Wisconsin 4 cycle single-cylinder, 2-cylinder and V-type 4-cylinder models, 3 to 36 hp. Specify "WISCONSIN Power" for your equipment.



WISCONSIN MOTOR CORPORATION
 World's Largest Builders of Heavy-Duty Air-Cooled Engines
 MILWAUKEE 46, WISCONSIN

See manufacturer's listing page 53H, Yellow Section

ecutive position in the sales department of American Tractor Corp., where he will have the title of general sales manager, working directly with the company's president, M. B. Rojtmann and D. A. Milligan, vice president.

Gar Wood ups Howerth

Gar Wood Industries, Wayne, Mich., has appointed H. J. Howerth product sales manager for its truck winches and cranes. With Gar Wood since 1946, he has been assistant sales manager of hydraulic hoists and dump bodies since 1953.

Tampo appoints new officers

Tampo Manufacturing Co., earth compacting equipment manufacturer since 1939, recently completed a reorganization of its executive structure by naming six employees to positions as officers of the company. Cleal Falke, formerly works manager, has been named vice president and general manager. G. T. (Gus) Worthington, Eastern district representative, was named sales manager. The other promotions were: Robert Samm, J. E. Keppler, J. D. Allbritton, and F. (Red) Hudson.

Harnischfeger Corporation

Harnischfeger Corporation has purchased the patent and manufacturing rights of the Sierra loader from the C and D Manufacturing Co.



SIGNING OF distributor agreement between Link-Belt Speeder Corp. and Totem Equipment Co., Seattle. Seated, l. to r.: R. B. Barnes, sales manager of Link-Belt; R. E. Vadnais, president of Totem Equipment Co. (formerly Seattle branch manager of Nelson Equipment Co.). Standing, l. to r.: Thomas Carstens, treasurer of Totem; and N. V. Chehak, Pacific Northwest representative of Link-Belt. Totem Equipment Co. operates at 3706 Airportway, Seattle, former location of the recently sold branch of the Nelson Equipment Co. of Portland.

of Sacramento, Calif., thus adding further diversification to the P&H construction equipment. The sales of the loader will be handled by the P&H Power Crane and Shovel Division. Until recently the name of this division was the Small Excavator Division. Another name change concerns the division in charge of all electric machine sales. The official designation is now the P&H Electric Shovel Division.

Lindquist elected v.p.

A. G. Lindquist, secretary and comptroller of Gardner-Denver Co., a leading manufacturer of equipment for the construction industry, as well as oil, mining and allied industries, has been elected vice president of the company.

Armco expansion

First step in the proposed expansion of its activities in the field of prefabricated steel buildings has been announced by Armco Drainage and Metal Products, Inc. It involves the organization of a new department to handle expansion of Armco's line of buildings and building products. D. H. Malcolm will head this new department.

C.I.T. offers new financing

C.I.T. Corporation announces a new financing system whereby it is possible for buyers of construction equipment to pay for a machine at substantially the same rate the machine can now be depreciated under the new tax law. Under this new program, C.I.T. stretches out its terms to a period of six years on construction equipment to more nearly match the useful lives of the machinery.

Space is sold as advertisers' inches. All advertisements in this section are $\frac{1}{6}$ in. short of contracted space to allow for borders and composition.

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STEEL SHEET PILING

NEAR BREWSTER, WASHINGTON

Shipped	New	Used	Only One Job
Carnegie	MP-101	MP-102	Tees
Length	Pcs.	Pcs.	Pcs.
72-65 ft.	105	100	2
65-60 ft.	210	50	9
60-50 ft.	210	5	18
50-45 ft.	290	2	7
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Also quantity 35 ft. and shorter—Quick Shipments. Regardless of job, location. Write, Wire or Phone.

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REPAIRS—ANY MAKE SIZE OR TYPE—24 HR. SERVICE

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Buy in Lengths
Assemble Your Own
In Any Shape Desired.

NAME YOURS
No frame required

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Fits Your Frame

3" wide—15" Long
Now \$2.50 ea.

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BUY RITE TRUCK & EQUIPMENT, INC.

(Complete Liquidation of Their Oakland Yard)

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to be sold to the high bidder in lots to suit on
THURSDAY, JANUARY 20, starting at 10:00 A.M.

Comprising in part—

2 N.W. 80D Cranes, 2 N.W. 6 Combination Cranes, Bucyrus Erie 37B Crane, Link Belt Speeder Model MS70 Cruiser Crane on Maxi, Caterpillar No. 12 Motor Grader, \$154,000 cost New Cat., Murphy, & G.M.C. Parts, Rock Crushers, Air Compressors, Diesel Engines, 15 Ton Athey Tracks, Shop and Office Equipment, etc. etc.

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BACKFILL, uncompacted

We'll be there with (sleigh) bells on!

While we were busy putting this issue of the magazine together, just before Christmas, an unusual sort of office memorandum came our way from the circulation department:

"Santa Claus will be carrying copies of *Western Construction* in his sleigh this year, as usual. Subscriptions for Christmas gifts have been coming to the office with their accustomed December regularity.

"The copies are rushed to the North Pole, along with an appropriate greeting card, in time for Santa's southbound flight. The remaining monthly copies of each subscription will be delivered to the

Twenty-five years ago in *Western Construction*

"This issue is largely devoted to forecasts of engineering construction for 1930 in the far west. Seventy-five of the major projects of \$500,000 and over total more than \$1,000,000,000, most of which will be well under way during the year. No engineer or contractor should suffer from shortage of work."

* * *

"Raymond Harsch, materials engineer for the Idaho Department of Public Works, has resigned to become office engineer for an oil company in San Francisco."

* * *

"The article on the Salt Water Barrier in this issue again serves to focus attention on this much discussed and long deferred water conservation project. Its status remains, as for fifty years, considerably in the realm of academic discussion. It is an example of the lack of understanding which has characterized the development and conservation of water resources in northern California."

* * *

"The Oregon State Highway Commission recently completed a 3.81-mi. section of The Dalles-California highway, beginning at the city limits of Klamath Falls and ending at a junction with the Lakeview highway... This was the first concrete paving contract let in Klamath County by the State of Oregon."

lucky readers by postman. Santa has a special arrangement with the post office department."

Reminds us of the time a couple of years ago when Santa himself took out a subscription. Or one of his helpers. We were sending the magazine to a fellow at the North Pole (Alaska).

It happens to the best of them

When is a bargain not a bargain? One time is when Peter Kiewit and Morrison - Knudsen leave over \$2,400,000 on the table at a bid opening—and then discover that about \$1,000,000 of it is their own neglected estimate of indirect costs for overhead.

This happened last month when bids were called for Stage 2 of the Garrison Dam spillway stilling basin. Kiewit and M-K were low at \$6,159,006, and the closest competition was \$8,493,701. The Army's estimate, figured without profit, was \$7,666,195.

Shortly after the opening PK-MK entered a protest on their own bid. As a result, it was decided to reject all bids and call for another bid opening, on February 1. The situation was a tough one to face, for both engineer and bidders. But there was only one way out. Any other decision would have led to a very bad bargain indeed.

Echoes of Echo Park

Hydro construction in Switzerland has recently been a source of argument along the same line that has contributed to the current stall of reclamation construction in our own Upper Colorado Basin.

According to the Associated Press, a Rhine River project was seen as a threat to scenery, and in particular to the height of a famous waterfall. Under construction since 1952, the \$23,000,000 project was open to demolition by referendum. A 50,000 signature petition set up a special referendum election early in December.

The proposal was beaten, 503,791 to 229,324. Construction continues.

Getting down to earth

"Random Samples," newsletter of the materials and research section of the California Division of Highways, has just perpetuated the definition of an engineering specialist. This time the fancy words have been applied to a soil technician. He is one who makes "predictions as to the future dispersal of any change in Mother Nature's well-placed terra firma; calculated with micrometric

Correction

Credit should be given where credit is due. In actuality, about 90% of the concrete buckets mentioned last month (and pictured) in use by Merritt-Chapman & Scott Corp. and The Savin Construction Corp. at Folsom Dam, were manufactured by the Blaw-Knox Co. This error was brought to our attention by J. P. Cullen of the latter company who had made some interesting observations about the project from his own field trip there.

The contractor used 20 of their 4-cu. yd., air-operated buckets on the large mass pours. It is claimed that a dumping time of only 4 sec. is required from the time the air hose is connected, a 4-cu. yd. load dumped, and the hose disconnected. To verify this fast action, Cullen spent over 1½ hr. timing a typical operation. Furthermore, the cantilever forms used to hold this rapidly placed concrete in the gravity monoliths were also manufactured by the Blaw-Knox Co.

To err is human. We are glad to have our readers correct us when we do.

precision from extremely vague assumptions which are based on debatable figures acquired from inconclusive tests and incomplete experiments carried out with problematical accuracy by persons of doubtful reliability and rather dubious mentality, all with the particular anticipation of disconcerting and annoying a group of hopelessly visionary fanatics described as Resident Engineers."

NEXT MONTH

ESTIMATING... Dollar signs may be the end result, but there has to be a solid basis for separating, itemizing, and controlling the sources of construction costs. Something of what it takes to be a good estimator is laid out next month in an article by W. Earle Roche, construction consultant.

"MINER"... The word takes on new meaning when you see the rig dreamed up by Mittry Constructors for tunnel driving at Oahe Dam. A boring machine, a variation on the continuous miners of the modern coal industry, is chewing its way through Pierre shale at more than 6 ft. per hr. Here's a story with teeth in it.

... The Editors

Inspection of field welding

Structural welding's biggest potential field, buildings and bridges, has been the slowest to accept it. And all the designers' doubts inevitably come down to a single word: inspection. But why should this recognized necessity in all types of engineered construction be considered a millstone when tied to the particular field of welding? Perhaps the answer lies in the pattern of development of welding, as compared to the development of other structural materials and connections.

Take steel itself. The material is factory-produced under controlled conditions that assure a consistent product. Indeed, methods of connection constitute the only area for doubt. Riveting and bolting are inherently more tangible than welding. They are older methods. And whether shop- or field-executed, they can almost literally "stand up and be counted."

Another construction material, concrete, began as a highly individualized thing, designed separately for every job, produced separately at every job. In a sense, every application represented a new start, with new personnel and new production facilities—and with a consequently renewed need for thorough inspection.

But concrete in recent years has evolved. Central ready-mix plants have sprung up, enabling the production of a consistent material, industrial assembly line style. The ready-mix plant, like the steel mill, depends for success on one end product. And outside inspection becomes somewhat less necessary.

Even as factory-produced steel and concrete need less inspection, so does factory-produced welding. And such welding has been the rule—up to now. Welding began as a shop method. And those most familiar with it know it as a production item.

But today, while concrete has moved from the field to the shop (from more inspection to less), welding is going from the shop out into the field. And, logically enough, inspection needs are increasing in this direction.

Structural engineers' doubts about welding are not a matter of how a well-executed weld will perform. Their doubts center in whether it will be a good weld in the first place, and how to be sure. They may not know welding, but they do know field construction conditions.

Welding men know production welding, but they don't appear to recognize uncontrollable field conditions. They are in the difficult position of needing to admit occasionally that their product won't work—not because of inherent end-product unsuitability, but because of uncontrollable "manufacturing" conditions in the field.

This is why, in the eyes of welding men, structural engineers have tied a millstone of inspection requirements on welding. And the welding men can do no better than take the stone in hand and carry it, to keep it off their necks!

Ingenuity off to a fast start in '55

"Goes like hell!" is the way F. K. Mittry puts it, speaking of the new machine his firm has had built for soft-rock tunneling at Oahe Dam.

"Goes like hell!" is the way we're pleased to put it too, as we lead off this issue of **Western Construction** with a review of Mittry's mole.

But the enthusiastic phrase applies to more than one job or one article. It's a good keynote to the tempo of construction for 1955. You read about it round-up fashion last month. Now you can follow construction as we stay with it editorially, interpreting the best in construction methods throughout the West for the rest of the year.

Mittry's machine is just one example. A county engineer in Washington has a pretty handy new approach to culvert work—page 18. And San Diego's new marine cargo transit shed gives a good account of itself in the final dollars-and-cents judgment laid against any engineered structure. See page 45. Highway analyses are a special field of engineering where—now more than ever—new methods can be expected to pay off. Colorado's roadway plans engineer lays it all out, beginning on page 27.

And talk about precision! Just turn to page 33 and you'll see how care and imagination by engineers and contractor on a bridge job mean usefully combining 13 tons of structural steel with 18 ounces of copper.

THIS JOB...
THAT JOB...
YOUR JOB...

A-W EQUIPMENT GETS IT DONE



Whatever the problem . . . whatever the job . . . those pictured above, or dozens of others, you can do it better with Austin-Western Power Graders, and the new tractor- and truck-mounted Hydraulic Cranes.



It's the **LIVE BOOM** that puts the A-W Hydraulic Crane out front in the performance parade . . . live power with instant response for all boom movements . . . extending and retracting, raising and lowering, and rotating. Fingertip hydraulic control handles delicate spotting jobs with superb precision. No other mobile crane has a boom so completely "alive" . . . no other outdoor-indoor crane will handle so many jobs, so well.

All-Wheel Drive provides 30% more Power-at-the-Blade, keeps the front end of the grader under control at all times. All-Wheel Steer makes the grader twice as maneuverable. It shifts the rear truck from side to side, for better traction and smoother operation. The tougher the job, the more outstanding the performance of A-W "88" and "99" Power Graders in comparison with front steer, rear drive machines.

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