

December 1953

house + home

Hillside houses

Clever design and new earth-packing equipment help merchant builders strike pay dirt on neglected sites overlooking crowded areas (p. 90)

Custom design

Architect Richard Neutra makes double use of a canyon site to integrate outdoor living and to frame a valley view (p. 100)

Designer Thornton Ladd blends geometry and romanticism in a mountain-top Shangri-La (below and p. 118)

Design standards

How to figure correct dimensions for horizontal and vertical shading devices in any US latitude and longitude (p. 144)

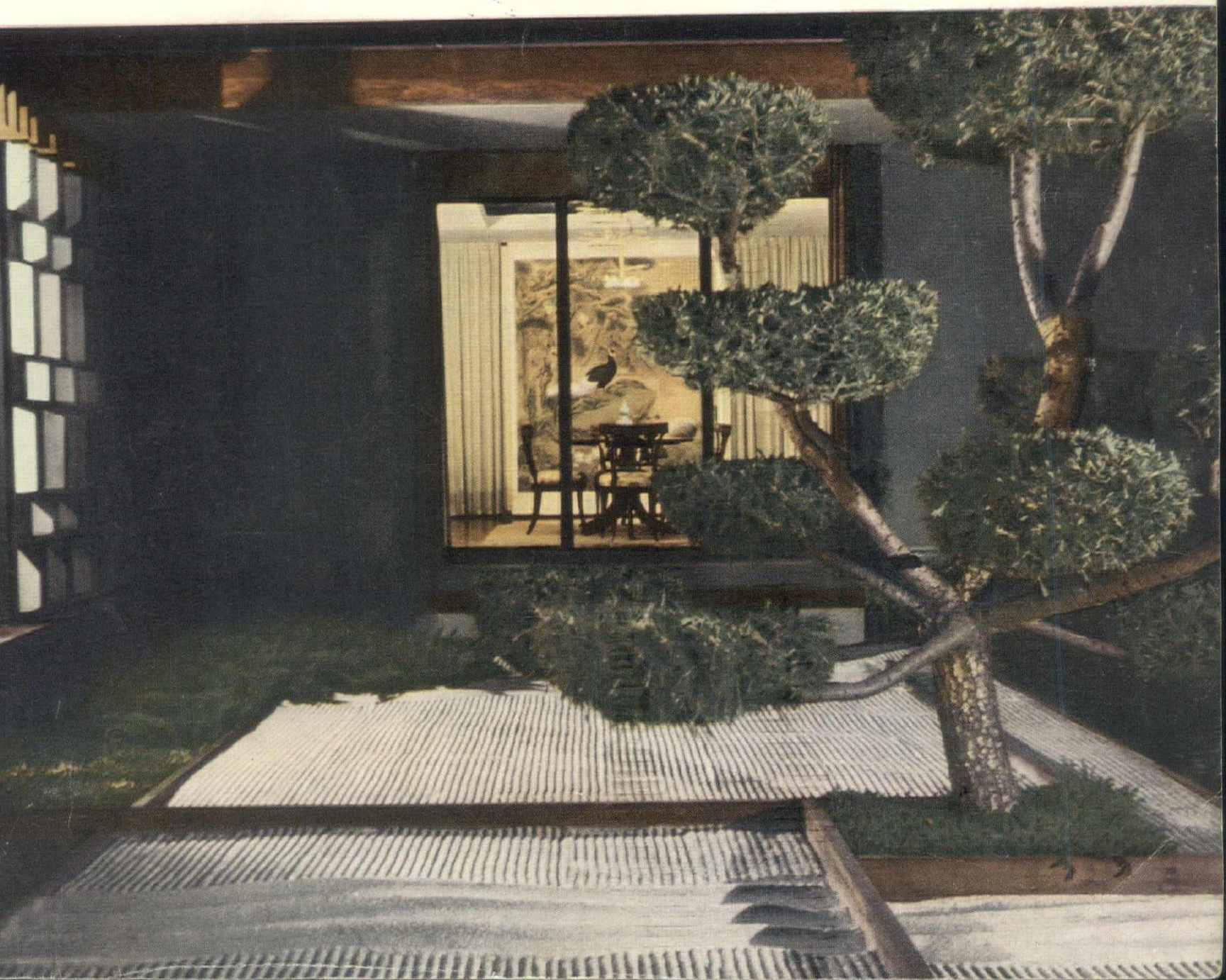
New products

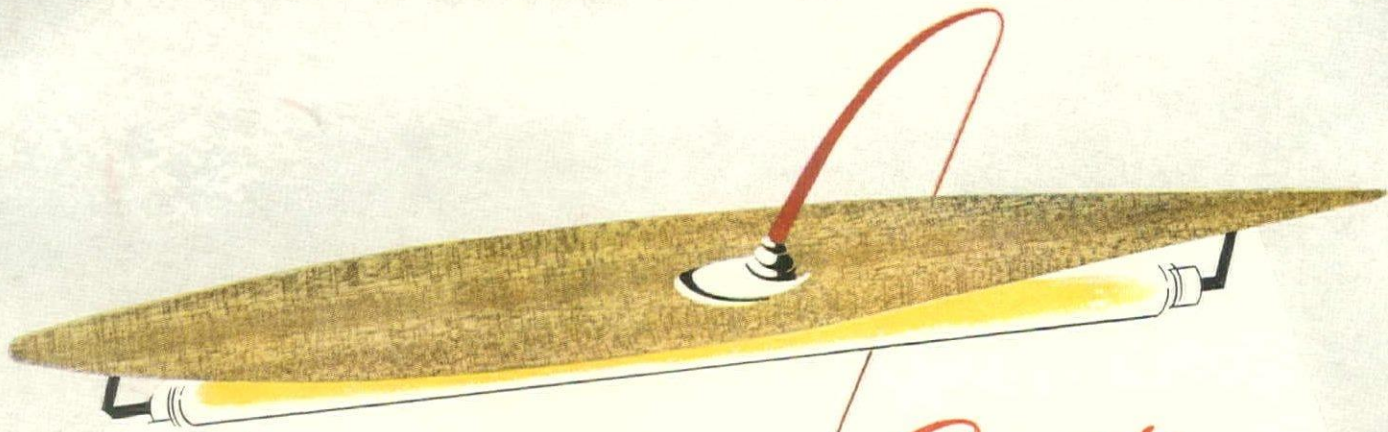
Light steel roof truss eliminates ceiling deflection, is priced to compete with wood (p. 130)

Best sellers

Volume builder brings open-plan contemporary houses to Lincoln, Neb. (p. 136)

6 METAL FIREPLACES — 150

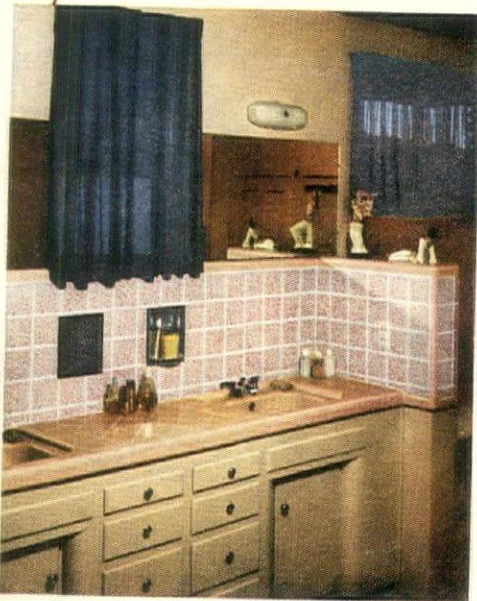




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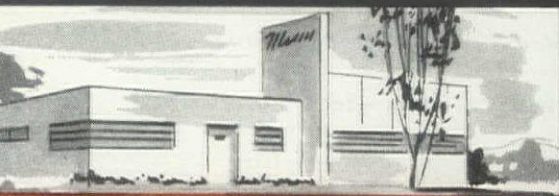
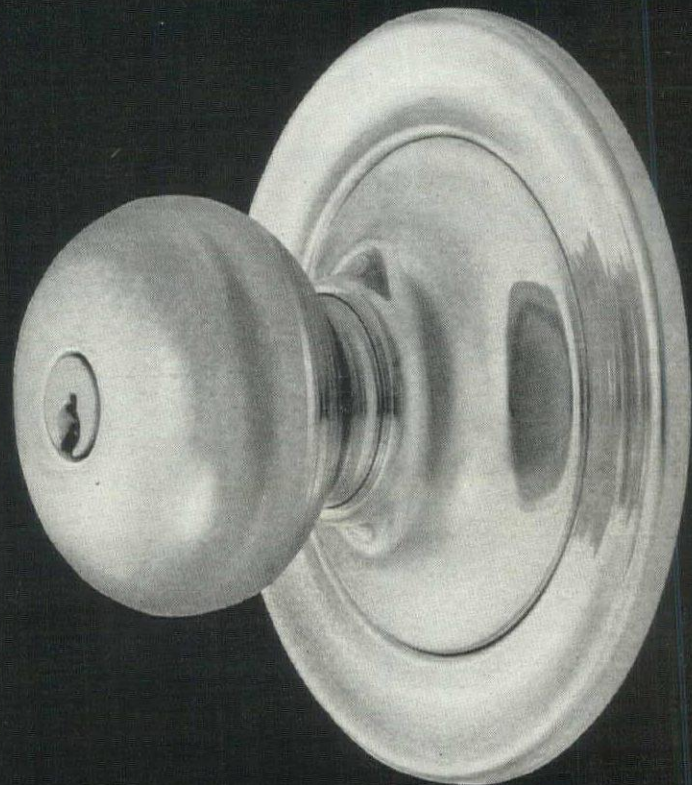
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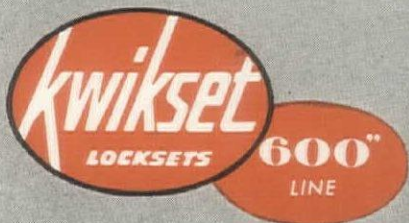
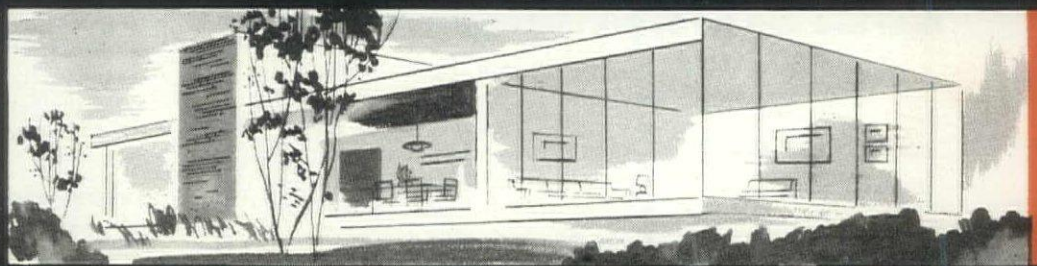
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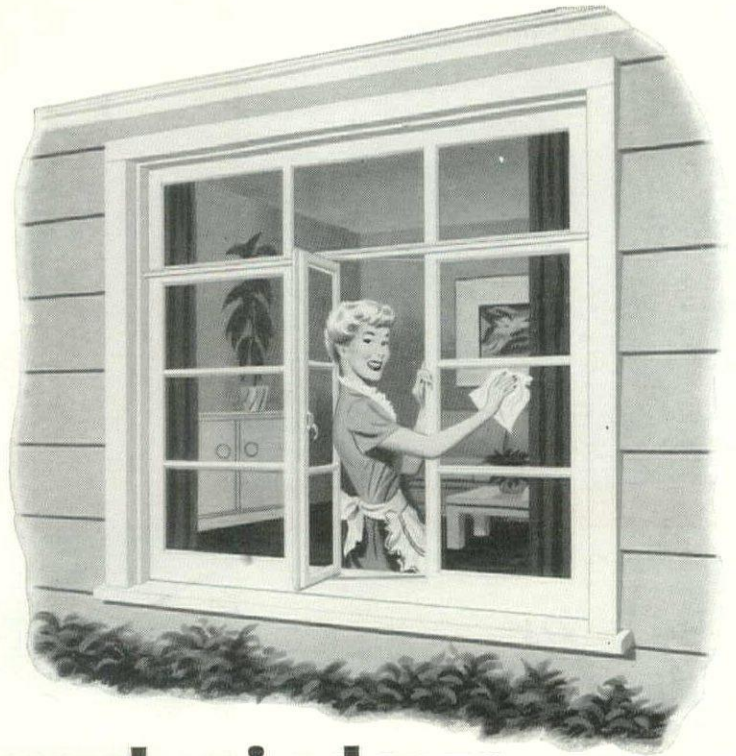
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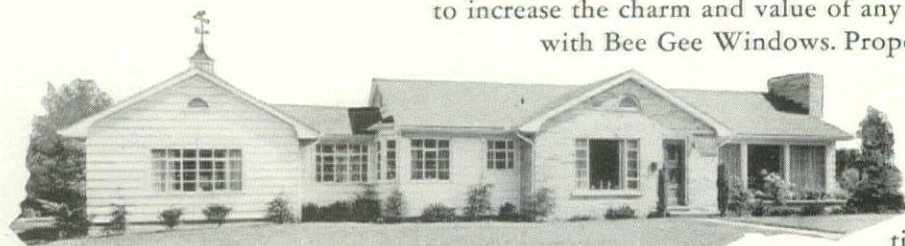
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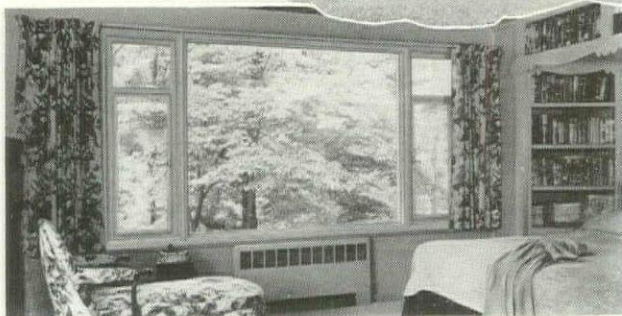
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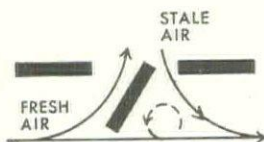


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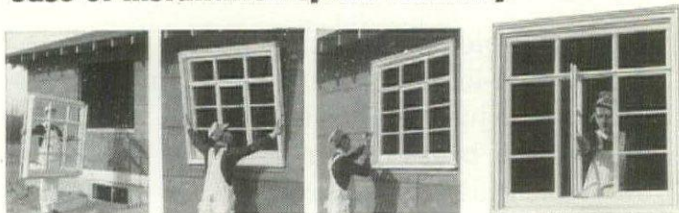


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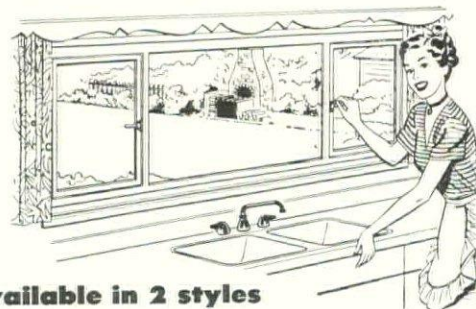
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house+home

December, 1953

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57 Modern mortgages—Massachusetts case history points up lessons for builders.

58 Events

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90 HOW TO HIT PAY DIRT ON A HILLSIDE

1. Architect George Hay sites 27 houses on a steep slope just outside Philadelphia.
2. Builders Louis and August Rahlves face their Castro, Calif. houses toward a hillside instead of the view.
3. Architect Richard Neutra uses the steep slope of a Beverly Hills lot as backdrop for an outdoor living room.
4. Modern earth-moving equipment cuts wide terraces into steep suburban Los Angeles hills. Architects Burge & Roach design "flatland" houses for them.
5. St. Louis Builder Burt Duenke develops one-story, two-story and split-level houses for a tract of densely wooded, rolling land.

116 NEWS

118 GEOMETRIC HOUSE IN THE ROMANTIC TRADITION

Designer Thornton Ladd designs a memorable house, builds it in a dramatic, mountainous setting at Pasadena, Calif.

130 LIGHT STEEL TRUSS

Ned Cole designs a new roof truss for builders and a model house at Austin, Tex., to show its advantages.

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The industry arrives at a standard form for computing heat loss in houses and offers a wide range of central cooling units at its Cleveland show.

136 FAST SELLING HOUSES

Another in a cross-country series of best sellers—this month, mass building and modern design come to Lincoln, Neb.

140 PREFABRICATION

Architect John Normile redesigns their three-bedroom house for Harnischfeger (P&H Homes), introduces a flexible, open plan centered on a three-way dining area.

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Architects Keyes, Smith & Satterlee design an apartment house for Washington, D. C. including four different apartments, ten of them duplexes.

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A roundup of prefabricated fireplaces.

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VOLUME IV, NUMBER 6



Cover: Sand garden of Thornton Ladd house; photo by Irvin Kershner



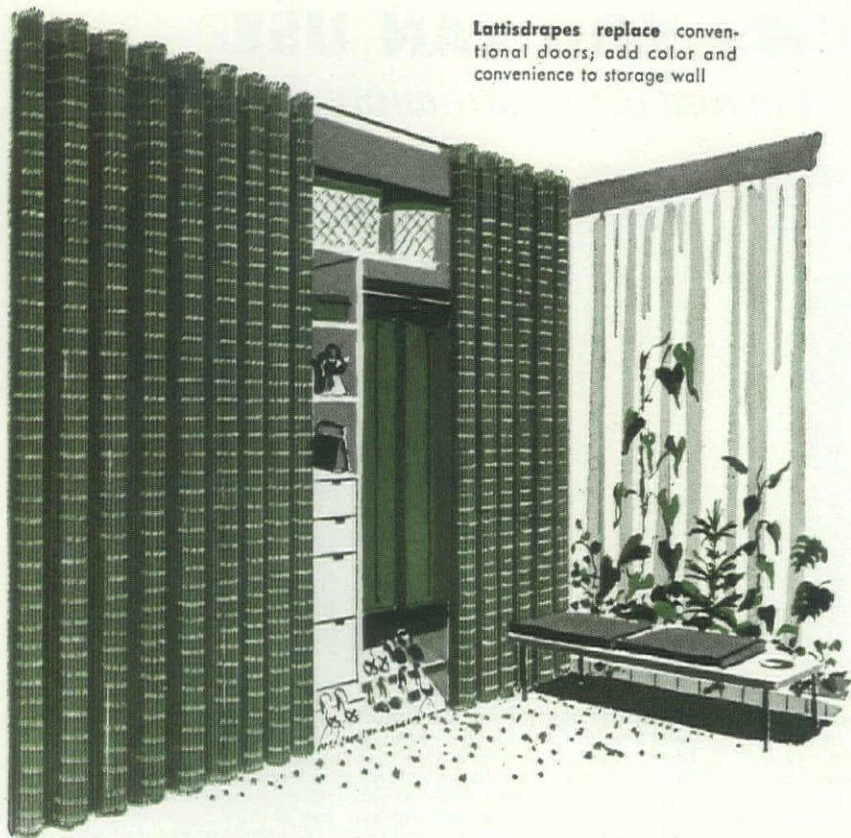
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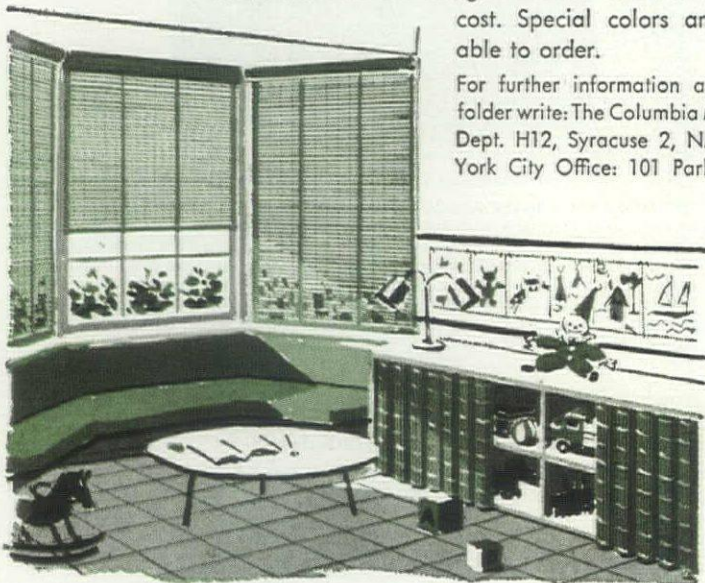
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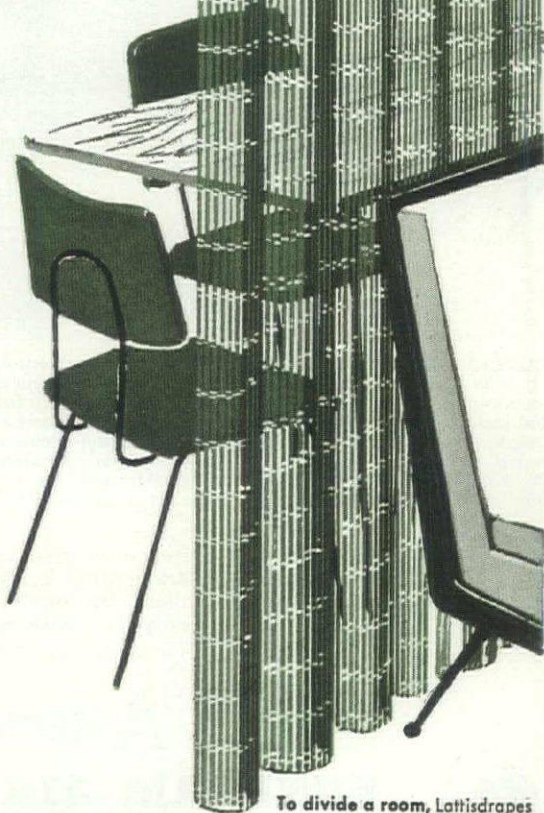
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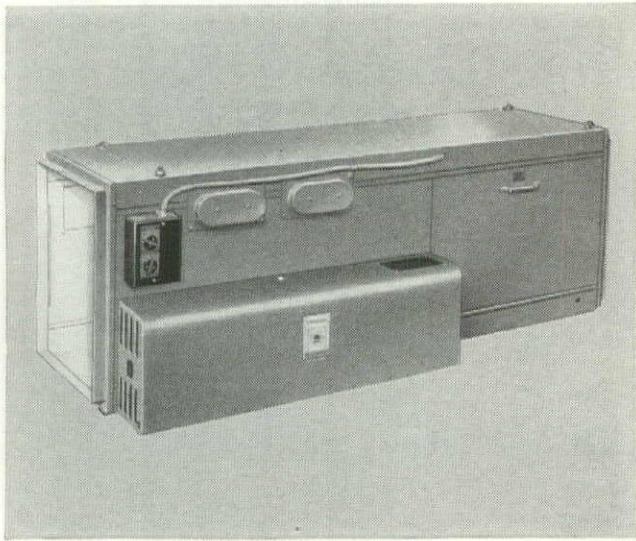


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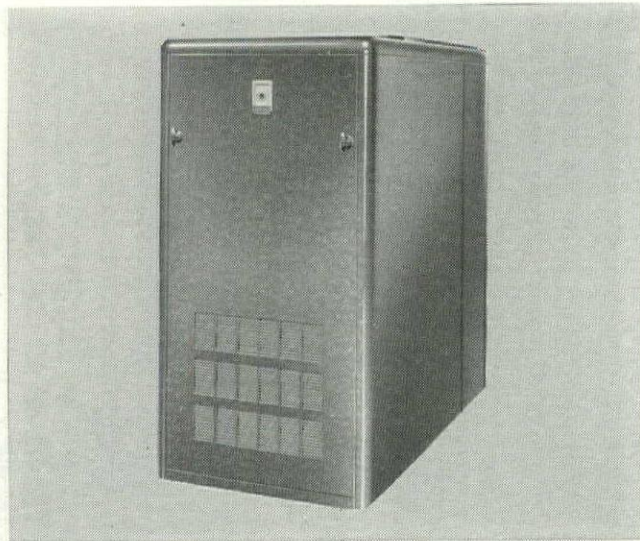
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PRODUCT NEWS YOU CAN USE

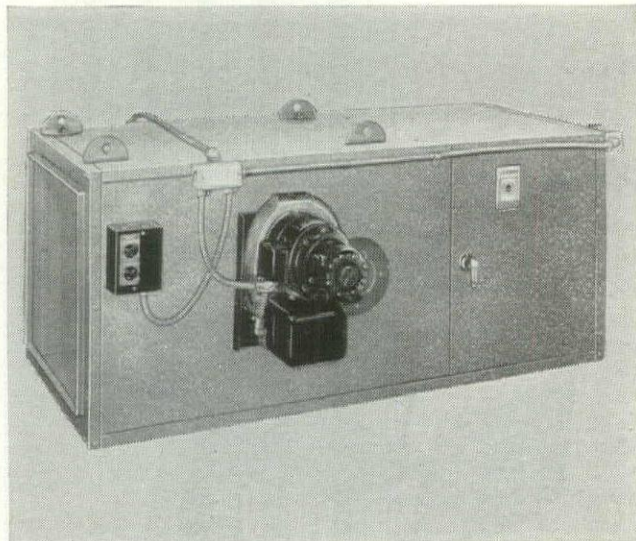
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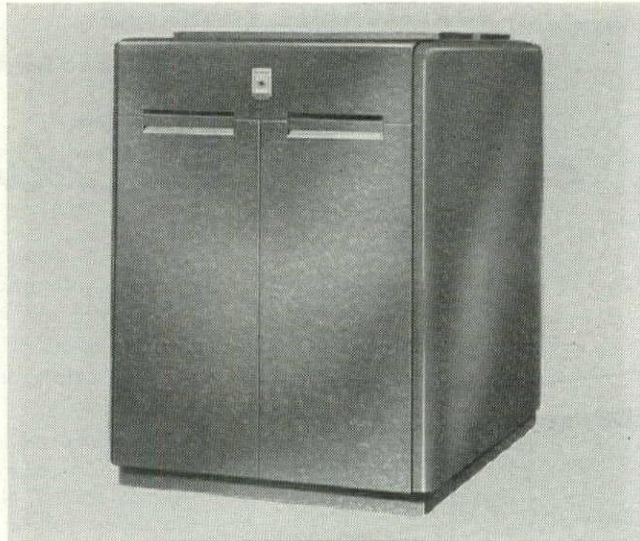
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7

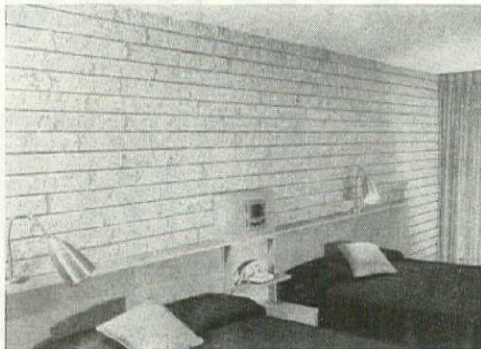
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one Versatile shadow block used for exterior walls, and slump block on chimney and planter, harmonize equally well with colonial, ranch-type and modern-style home designs.



two Split block in "natural" color gives this bedroom a real distinction. No extra finishing is required — although units may be painted if desired.



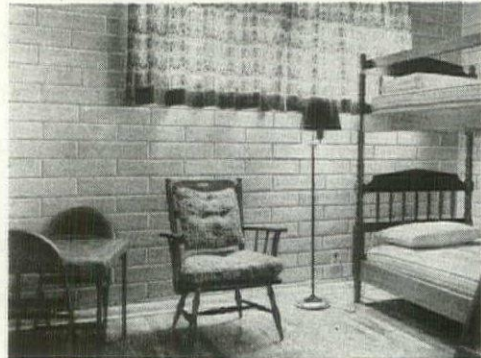
three Half-height units with tooled horizontal joints and rubbed vertical joints make an attractive wall that absorbs sound, saves on finishing.



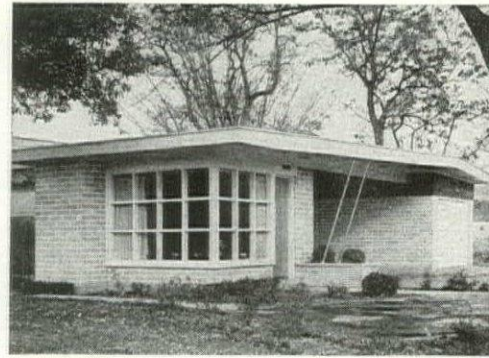
four A split-block planter box, fireplace, or other decorative detail adds beauty and individuality at little added cost.



five Exposed and painted half-height units make an attractive bedroom wall — and save finishing costs for the builder.



six Half-height units complement the long, low lines of ranch-type and contemporary homes.



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project homes a "custom" look
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MASONRY



seven

Concrete masonry units are especially adaptable to these building trends: the use of exterior materials inside, and open planning for more spacious appearance—as shown in this fireplace, which is the only separation between living room and dining and entry hall areas. This basic idea—here shown in a custom-designed home—is equally applicable to project houses.

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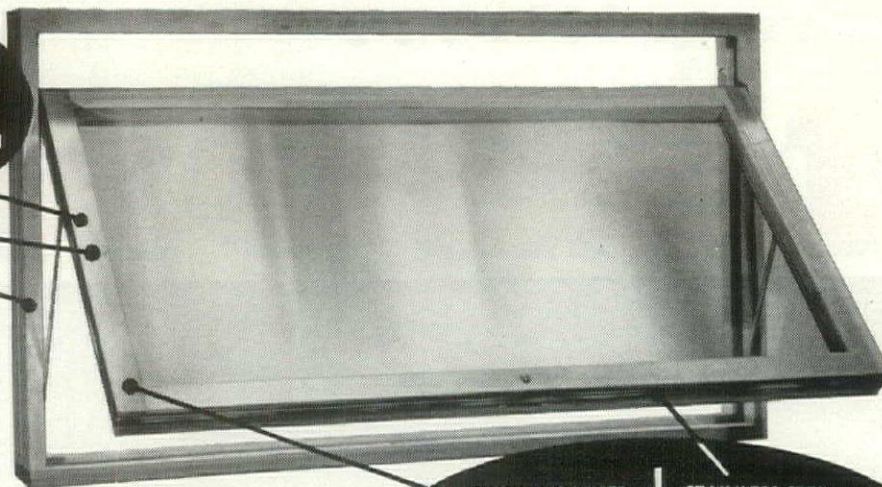
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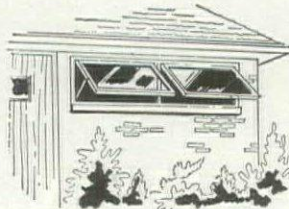
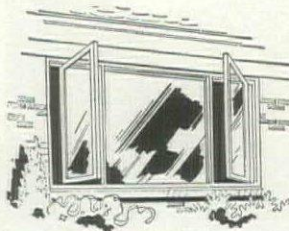
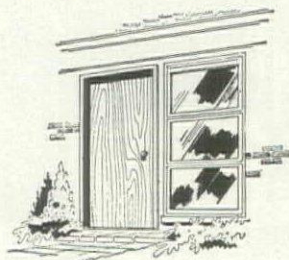
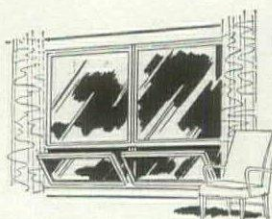
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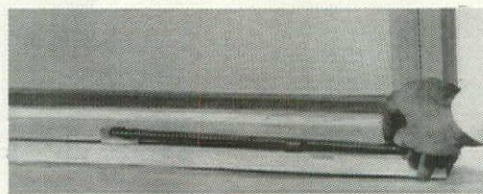
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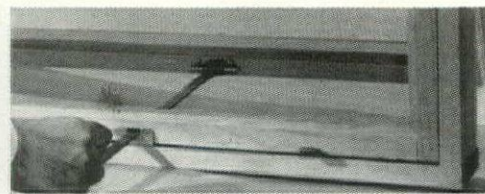


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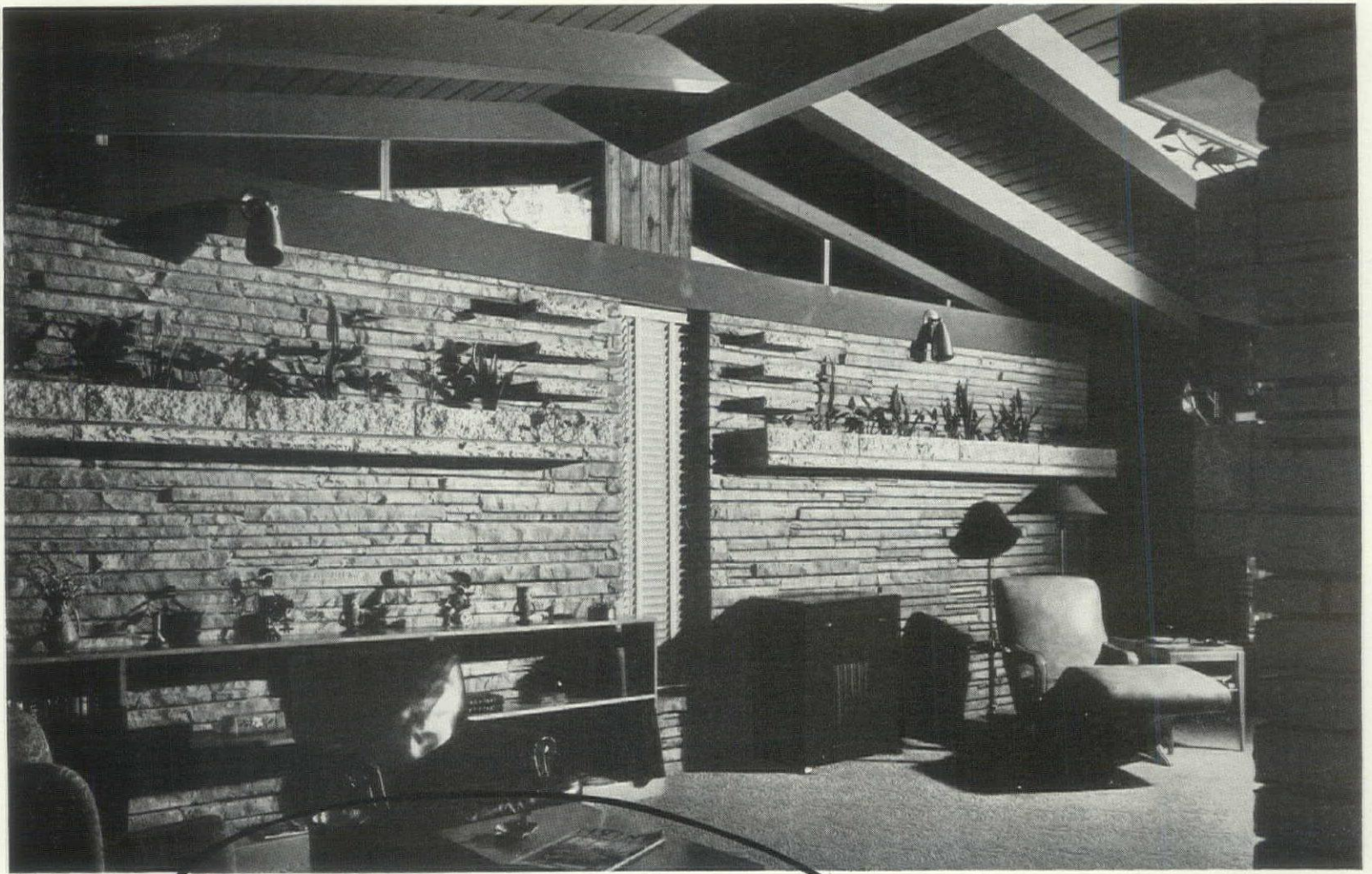
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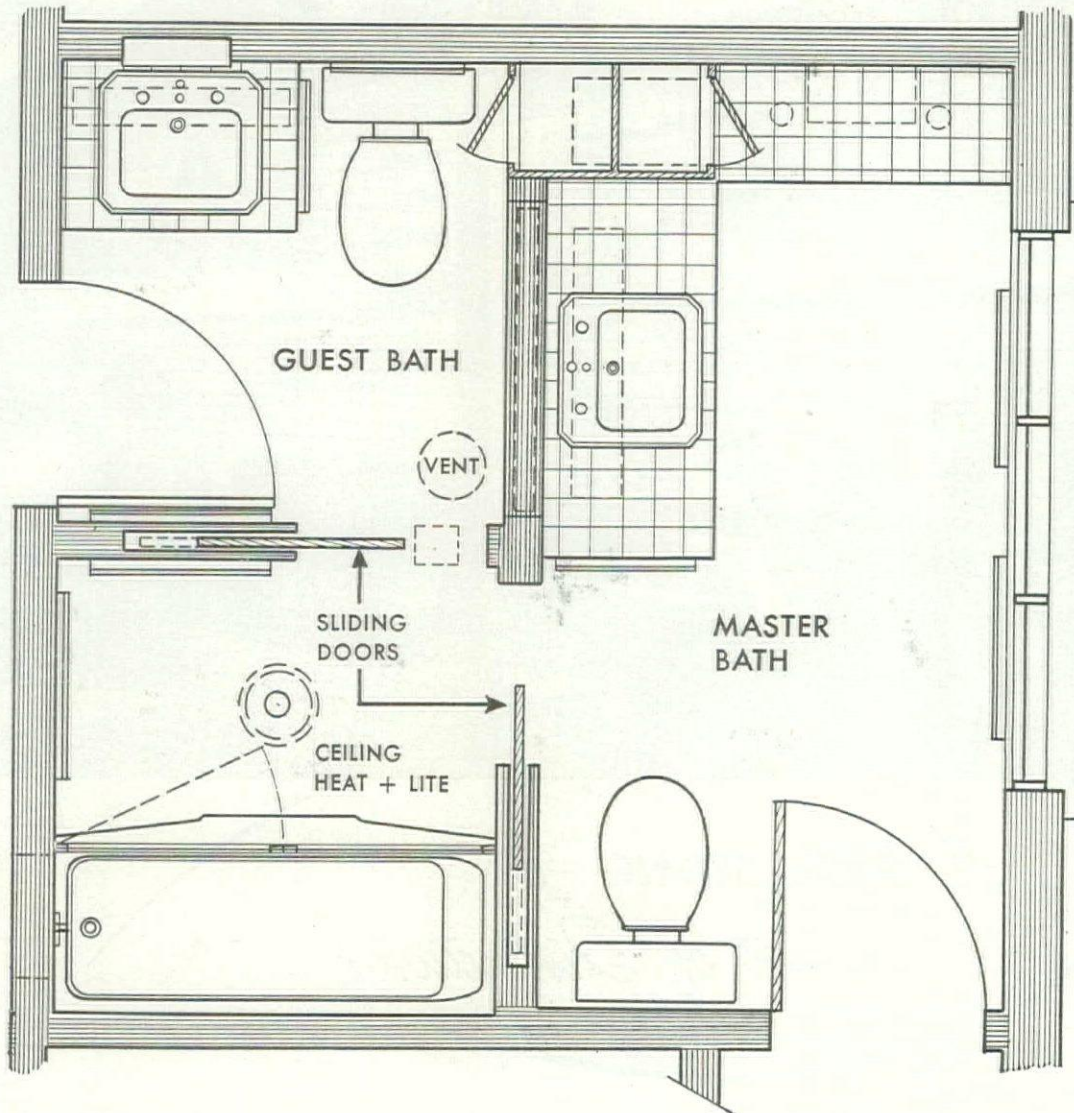
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Another multi-duty bathroom plan



New 10' x 10' room serves as master bath, guest bath, and powder rooms

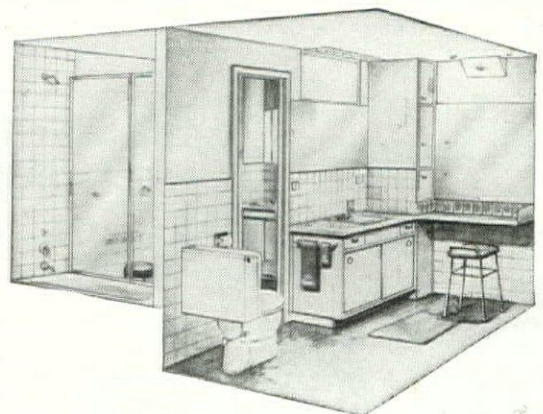
Here's a room that serves as both a master bathroom and separate guest bath... and as twin powder rooms too, when party crowds gather.

It's a model of versatile efficiency... the kind of room that can help sell any house.

Basically, the room consists of two sections, each with its own Crane lavatory and water closet, and a bathing compartment with Crane tub and shower. The bathing compartment is so designed that by sliding a door, it becomes an exclusive part of either section.

This is just one of many original room ideas that have been developed as part of Crane's service to builders. 46 such ideas are now available in the Crane Sketchbook of Ideas—all colorfully illustrated to help you show prospects your new room suggestions. Ask your Crane Branch or Crane Wholesaler for your free copy of this big, helpful book today.

This plan provides an even wider range of usefulness than two full baths, yet requires no more space or cost. Architect: Howard E. De Wolf, Lansing 8, Michigan.



CRANE CO.

GENERAL OFFICES: 836 SOUTH MICHIGAN AVE., CHICAGO 5
VALVES • FITTINGS • PIPE
PLUMBING AND HEATING



The glass panes lift out to simplify painting or washing.

"Glass" window. It has no sash sections around or between the glass—thus eliminates balances, putty, sash-painting—and all hardware except the lock. The glass is $\frac{3}{16}$ " crystal and slides in a 2-inch thick redwood frame, so designed that inside and outside trim is complete whether you use dry wall, plaster, or siding. These sections may be assembled as part of the wall framing and raised with it. The Pierson Sashless Window was designed and is manufactured by a home builder in the Redwood coastal area of Northern California, where winter rains are heavy, and over 6 years of use have proven its dependability. It is one of the lowest cost units on the market because "the buyer is paying for material rather than labor". The window comes in 23 standard sizes, up to 8 feet long. Manufacturing rights are available for well-established firms east of the Rocky Mountains. Inquiries from architects, builders and dealers, regarding the Pierson Sashless Window, may be addressed to **Ernest Pierson Co.**, 4100 Broadway, Eureka, California.

Installation showing a typical arrangement of Pierson Sashless Windows.



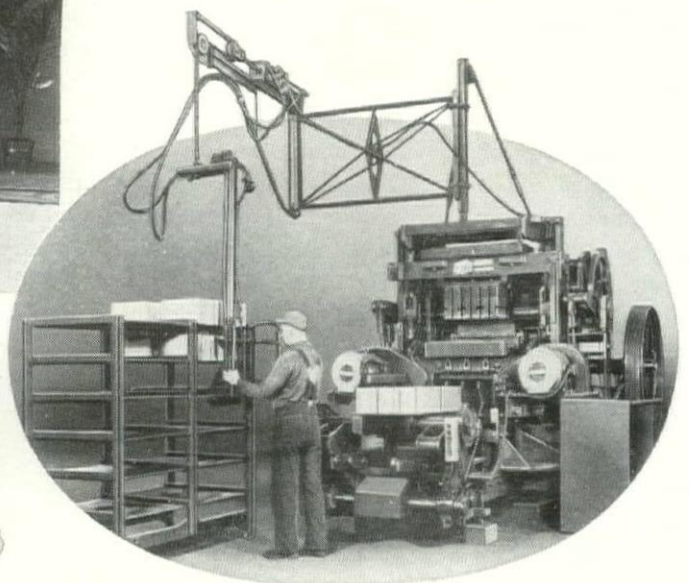
VIBRAPAC BLOCK Adds *Charm* and *Beauty* to Building INTERIORS...



The permanent charm and beauty of VIBRAPAC Premium Block are not limited to the exterior of a building. Interior walls and partitions are made with VIBRAPAC Block, in a variety of distinctive designs and patterns. Modern, low-cost floors are built with fire-safe Floor Filler Block.

Prominent architects and builders are constantly proving that VIBRAPAC Premium Block can easily be worked into new, attractive designs not obtainable with other building materials. The cozy livability, in all seasons of the year... plus the economy, lifetime durability, fire-safety, insulation value and low upkeep of VIBRAPAC Block... make it today's popular building material.

Ask your nearby VIBRAPAC-equipped plant for bulletin illustrating VIBRAPAC Premium Block available.



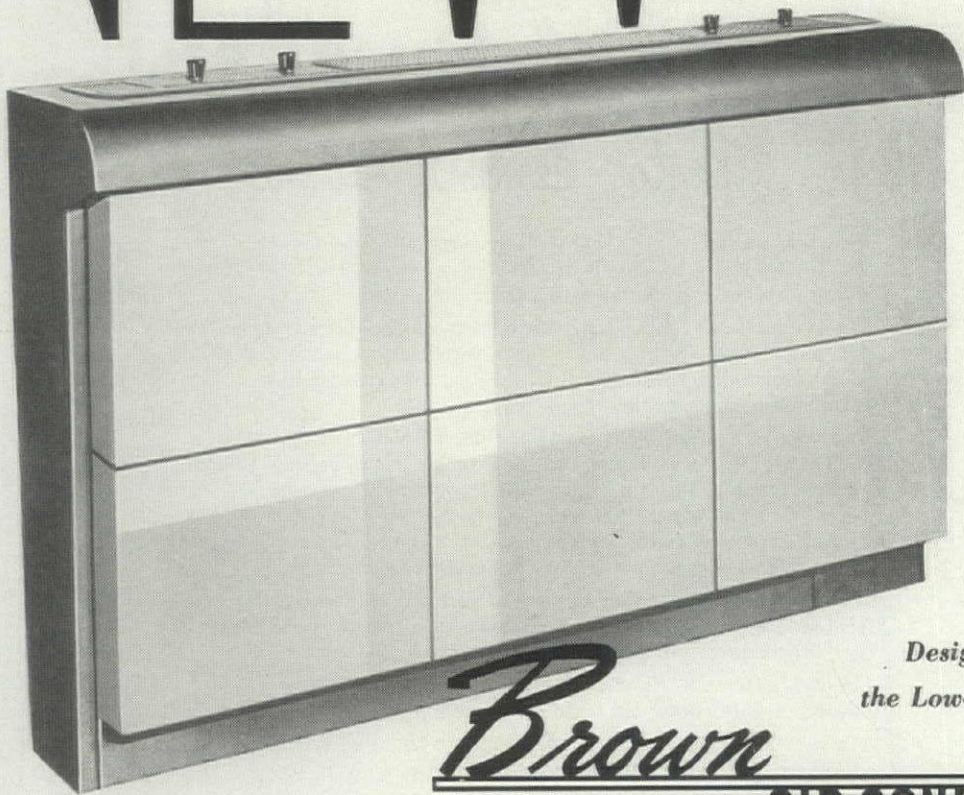
Just a few of the many types and sizes of block made on a Besser Vibrapac machine.

Besser Front Pallet Feed Vibrapac equipped with power off-bearing hoist. Produces ALL types and sizes of block on one set of Plain Pallets. No manual lifting. Off-bearer merely guides the power hoist.

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Styled by
CARL OTTO



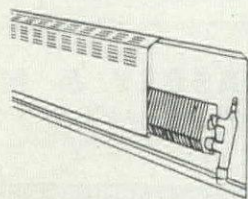
Designed for
the Low-Cost Home

Brown

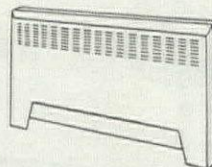
AIR CONDITIONER

The new Brown Air Conditioner brings summer cooling and winter heating to the low-cost home. Utilizing cold water for summer cooling and hot water for winter heating, this remarkable development discharges into the room cold or warm filter-cleaned air. Available sizes 1½ tons, 1 ton and ¾ ton.

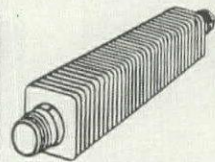
Illustrated Literature on Request.



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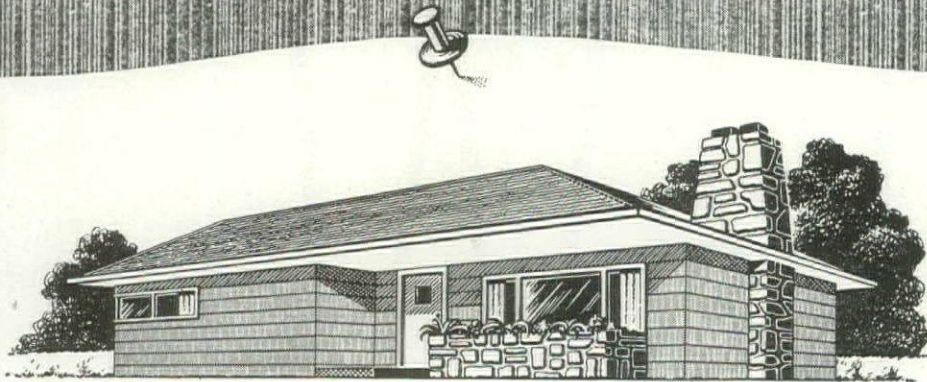
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**Give your homes
extra sales appeal**

with

"Century" NU-GRAIN

asbestos-cement siding

Colorful, attractive NU-GRAIN siding gives any type home a decided "plus" in the minds of prospective buyers. For here is a siding material that offers beauty, durability, and economy!

These remarkable shingles are made from asbestos fiber and portland cement—which makes them as permanent as stone itself. They won't burn, rot, or corrode; they can't be damaged by vermin; they are completely weather resistant.

And here's a feature really worth noting: To make the attractive NU-GRAIN shades as long-lasting as possible, K&M embeds colored ceramic granules into the shingles under hydraulic pressure. *There's no paint or protective coating to peel or wash off—and no such finish need ever be applied.* Both the color and the distinctive wood-grain pattern are designed for a lifetime!

What's more, because they are low in cost and easy to install, NU-GRAIN shingles help you hold down the prices of your homes, thus broadening your potential number of buyers!

For your reference, "Century" shingles are illustrated in Sweet's Architectural and Light Construction Files.

Ask your K&M distributor to tell you more about these nationally-advertised, widely-known shingles. Or, write directly to us for complete information.



These attractive shingles are made in four distinctive colors: NU-GRAIN green, brown, whitetone, and gray (illustrated).

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America's first maker of asbestos-cement shingles.



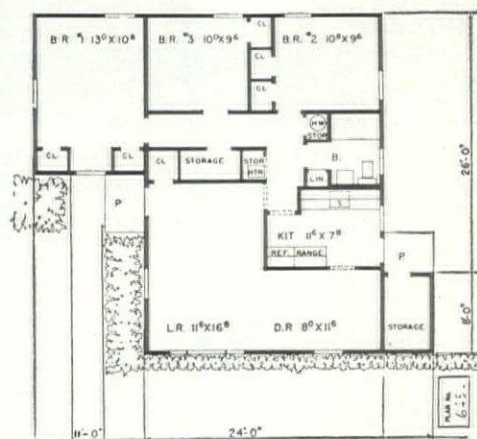
Model 647, with attached carport, Mobile, Alabama.
B. J. Carpenter, Builder.

...for a SOUTHERN point of view

Richard B. Pollman, noted residential designer of Pollman Homes, has designed a line of houses specifically suited to Southern and Gulf Coast areas. The ground hugging lines and livable floor plans are outstanding examples of contemporary Southern styling. Awning type windows, deep overhanging eaves and louvered sliding closet doors are some of the special climate control features included for comfortable and gracious Southern living. Many models are designed to accommodate air conditioning.

Constructed of the finest building materials available, these Southerner Line houses are factory assembled in Collins, Mississippi. They meet building codes throughout the South, and are acceptable for both G. I. and F. H. A. financing.

If you are a Southern builder or an investor who would like more information about the Southerner Line, write to Pollman Homes Southern sales headquarters in Jackson, Mississippi. If you are a builder in other parts of the United States, write care of Toledo, Ohio. We will be glad to have a local factory representative call at your convenience.



Popular L-type floor plan features 3 bedrooms, entrance hall, 1032 feet of floor space. Left or right hand floor plans available, as well as alternate orientation with living room as front or at side. Several distinctive elevations—make this Pollman Home ideal for the builder who wants to concentrate on one basic floor plan yet avoid that "peas in a pod" look.

66 DIFFERENT SOUTHERNER VARIATIONS AVAILABLE IN—

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CHARLES E. WALTER
BUILDING CONTRACTOR
R. R. 1, Carmel, Indiana

April 21, 1953

Rusco Prime Window Co.
3810 E. Sixteenth St.
Indianapolis, Indiana

Gentlemen:

This is to advise that we are now in the process of drawing Rusco Prime Windows into the plans for the next group of apartments on 14th and West Sts., known as Ransom St. Apartments, Inc.

After using Rusco Prime Windows with Metal Casings throughout the above project and also, on our Rolling Acres development in Carmel, we can say, truthfully, that your window unit is without an equal. Ease of installation, lack of field labor, elimination of many window "extras", such as painting and trimming have all added up to a lower "in the wall" cost for our company.

Inasmuch as we are required to maintain the apartment project, we, naturally, are delighted at the elimination of this expense in regards to your windows.

Incidentally, our response to your Fulvue unit on our Rolling Acres development has been most gratifying.

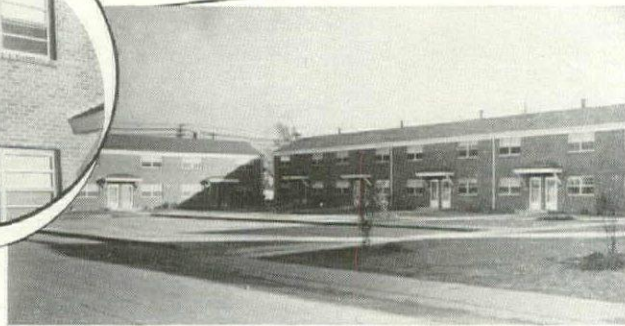
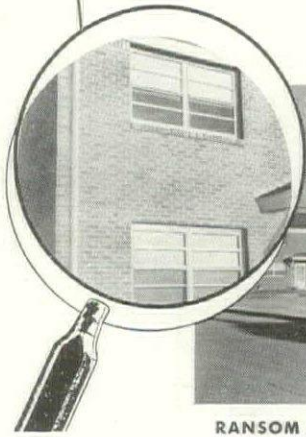
Very truly yours,
A. & W. Construction Co.
Charles E. Walter
Charles E. Walter, Pres.

FULLY PRE-ASSEMBLED RUSCO PRIME WINDOWS PROVIDE THE ANSWER TO TOP QUALITY AT LOW COST

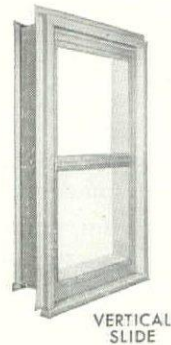
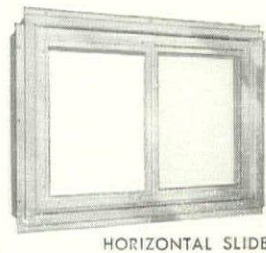
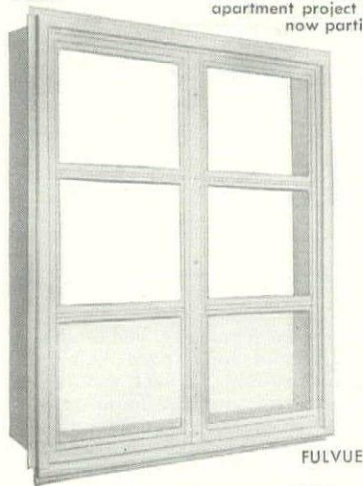
* Rusco Prime Windows make possible very substantial savings in labor, installation time and maintenance. Because they are fully pre-assembled units—glazed, finish-painted, with surround and hardware attached—they reduce field work and installation time to a minimum.

Tubular construction of hot-dipped galvanized steel, bonderized and finished with baked-on outdoor enamel, plus the complete elimination of sash cords, weights and balances, assures smooth, easy operation and lower maintenance.

In addition to these important cost and quality features, Rusco Prime Windows offer advantages found in no other window. They are fully weather-stripped and may be specified with Rusco's all-year Fiberglas screen panels and with insulating sash as an integral part of the unit.



RANSOM ST. APARTMENTS, INDIANAPOLIS, INDIANA is a 1,000-apartment project being built by the A & W Construction Company, and now partially completed. Photo above shows one of the completed units. At left is close-up of the Rusco Type P-22 Vertical Slide Prime Windows installed on unit. Architect: Paul Cripe • Builder: A & W Construction Co.



RUSCO

Hot-Dipped
Galvanized Steel

PRIME WINDOWS

FOR COMPLETE INFORMATION AND SPECIFICATIONS, SEE SWEET'S CATALOGS OR WRITE

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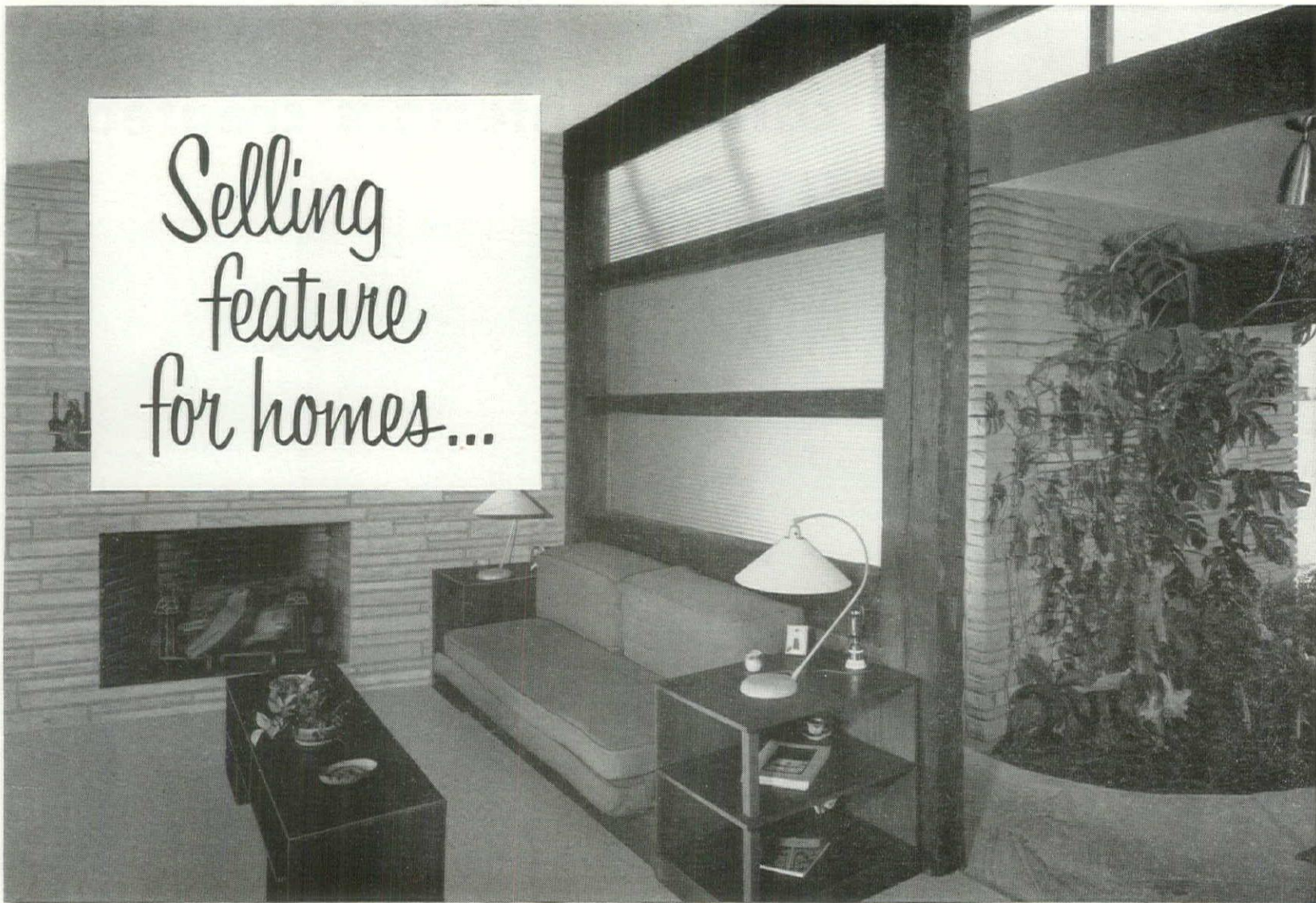
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feature
for homes...



Architect: W. Hamilton Wallace, Kingsport, Tenn.

A decorative wall that brings in light

This cozy fireplace corner has a lot of appeal. Blue Ridge Flutex Glass brings light in—and it complements the style, accents the horizontal lines of the wall on each side.

Imagine yourself in the hall while a fire crackles in the fireplace! Flickering light extends a warm welcome through the translucent wall.

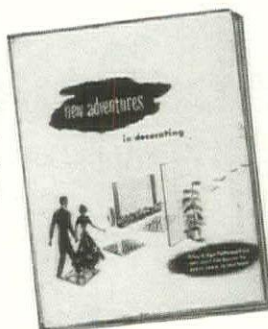
Walls and partitions of Blue Ridge *Patterned Glass* can brighten many a place in the home. Use it between kitchen and dinette, or dining room and living room. Put it in a would-be-dark entrance hall, and in windows to screen for privacy but let in light. Our book of decorating ideas illustrates many other appealing uses.

With all its advantages, Blue Ridge Glass is not an expensive material. It is easy to install. It has a neutral tone to blend with any color. And sparkling beauty is built in—for lasting appeal.

Give your imagination free reign with a variety of Blue Ridge Glass designs. There are linear, checkered and over-all patterns, in plain, textured or *Satinol** finishes.

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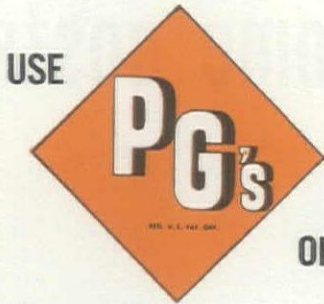
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RADIANT PANEL HEATING



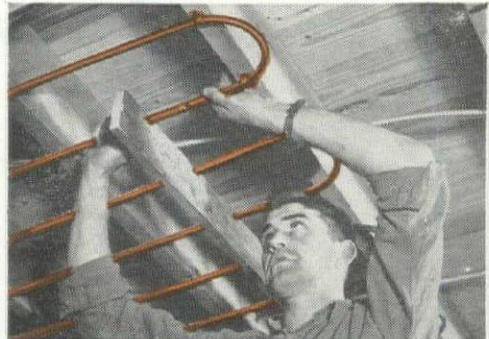
ON YOUR NEXT JOB



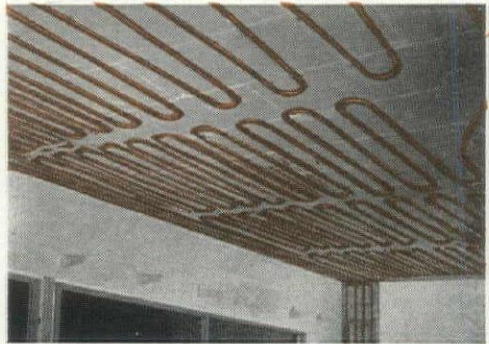
PG's weigh 10 pounds each and are packed 4 to a carton for easy handling or storing. Tied in a figure 8 bundle, a PG readily opens to a flat sinuous coil pattern.



Lightweight PG's are easily installed. Trim, straight grids fasten tightly to ceiling — permitting a minimum, even thickness of plaster.



All PG's are furnished with one end of the tube expanded. After cleaning and fluxing, PG's are connected by soldering or brazing. Many fittings are eliminated.



Note close tube spacing near outside wall where heat loss is greatest. Tube spacing is progressively increased as grids are installed nearer the inside wall.

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PG's (Panel Grids) are accurately PRE-FORMED, compactly packaged radiant heating coils made of ANACONDA Copper Tubes

Radiant panel heating installations made easier, faster—and better. A large claim, but actual installations support it. Follow the photos on this page and see how a typical job can be done using PG's*.

PG's are supplied in one standard size. They are made of $\frac{3}{8}$ in. Type L copper tube. Each panel grid contains 50 linear feet of tube. At normal 6 in. spacing PG's are rated at 1800 Btu/hr and measure about 56 in. wide by 60 in. long . . . serving

a ceiling area of 30 square feet. But you can readily contract or extend a PG *by hand* so that the tube spacing meets *all* design requirements—from 4½ in. up to 12 in. centers. This flexibility means that one PG can be installed so that it will serve an area within the range of 22½ to 60 square feet.

Nationwide distribution isn't complete as yet. We are increasing production and getting PG's to Anaconda Distributors just as fast as

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*Patent Applied For 5372



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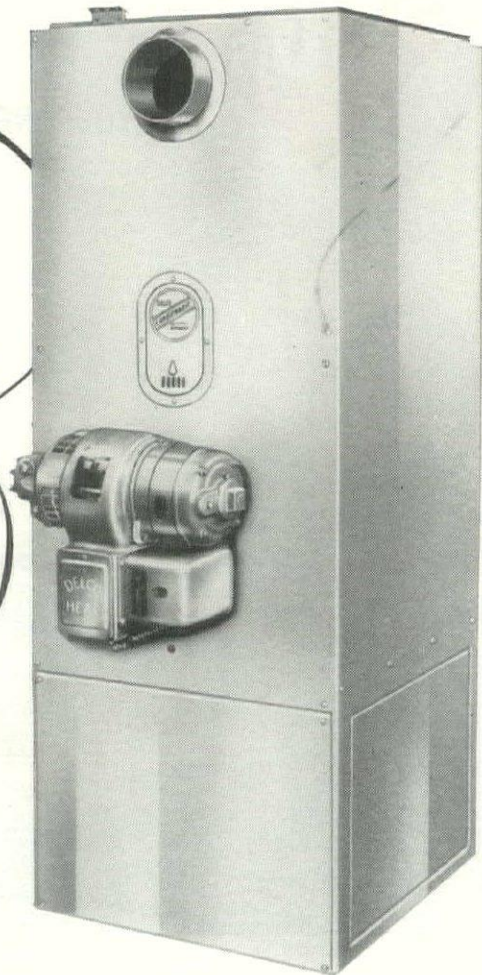
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To offset rising costs, General Motors Delco-Heat now offers you top-quality, top-performance heating units at new, low prices for truly profitable installation. The new economy OBC75-H oil-fired Conditionair is compact—only 25x25x66 $\frac{3}{4}$ for use in closets or other small out-of-the-way spots. 75,000 Btu/Hr. output. Has new wrap-around steel cabinet with Delco Green enamel finish. The 16 ga. steel heat transfer unit is seam welded to eliminate combustion leaks. The Circle-Air Radiator adds an extra heating surface—improves efficiency. Other great Delco features are the Quik-Action stainless steel combustion chamber; Delco-Heat Pressure Oil

Burner powered by the vibration-free Rigidframe Motor; centrifugal blower; replaceable air filter; wrap-around wipe sheets; knockouts in side panels that permit installation of filter at either position; and base pan with knockout for floor return.

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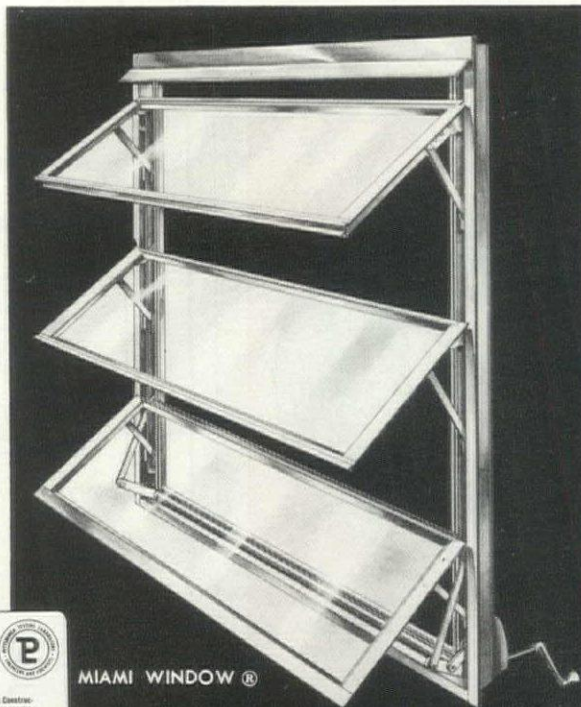
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Give the homes you build a new, sleek, modern appearance with streamlined, All-Aluminum Miami Windows! Packed with sales appeal, here's a window that catches the eye of every prospective home buyer. More than that—here's a window with remarkable, new window features built right in! For example—completely and scientifically weatherstripped along the entire inner perimeter of frame; heavy-duty, extruded aluminum construction, with frames etched, lacquered and satin-finished to a beautiful lasting luster! No matter how you look at it, Miami Windows are built for year-around comfort and lifetime beauty.



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For further information see Sweet's Architectural File $\frac{16a}{Mi}$
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Here's a new *exclusive* feature for Zegers Dura-seal Combination Metal Weatherstrip & Sash Balance! Counterbalancing springs are Si-Vel processed and coated to eliminate all noises. A velvet-like finish, actually baked on the galvanized steel springs, assures absolutely *silent* opening and closing of wood windows. It's the most important window equipment development since the one-piece jamb member... another Zegers "first"! Get complete information on this remarkable innovation *now!* Builders, see your Lumber Dealer;—Lumber Dealers, see your Sash and Door Jobber or Millwork Manufacturer.



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Dura-seal provides both complete weather protection and "finger-tip" window operation. The jamb member is made in *one* piece and its *concave* back surface is flexible, maintaining a constant air seal and smooth window operation even when the sash expands or contracts due to changeable atmospheric conditions.

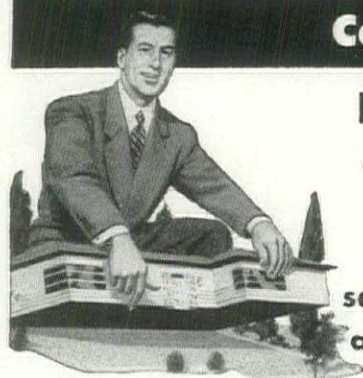
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Dura-seal provides *visual* and *operating* features that help sell homes faster! For complete information see our folder in Sweet's File.

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Chicago 17, Illinois

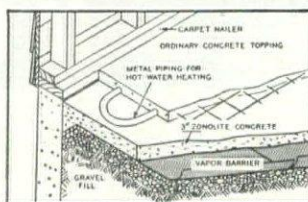
WARM DRY FLOORS
for ALL Basementless
Construction!



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**Insulation, Fire-
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and Permanence...**

**IN TWO GREAT
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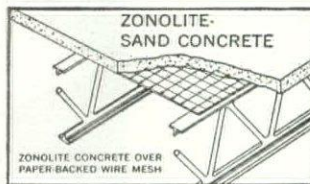
ZONOLITE® VERMICULITE CONCRETE



ZONOLITE Vermiculite Concrete used under radiant heat pipes for more efficient operation and control.

Lightweight, insulating and permanent, ZONOLITE Vermiculite Concrete is ideal for roof decks, roof insulation, cavity-wall fill and insulating floors on the ground. Perfectly suited as a base for radiant heat systems. Where an exposed concrete floor is desired, ZONOLITE with a sand-concrete topping provides high insulating efficiency, cuts heat loss.

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Has resilience approaching wood floors! Use as fill over structural floors, for floor slabs over closely spaced joints, or for floor slabs on the ground. Has 4½ times the insulating value of ordinary concrete—½ the weight. Fireproof and permanent. ZONOLITE Vermiculite Sand Concrete is ideal as a base for tile, linoleum, terrazzo or carpeting—needs no topping.

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Please rush FREE Booklet CA-4, "Floor Slabs and Floor Fill," with complete details on ZONOLITE Vermiculite Concrete and new ZONOLITE Sand Concrete.

Name.....
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City.....Zone.....State.....
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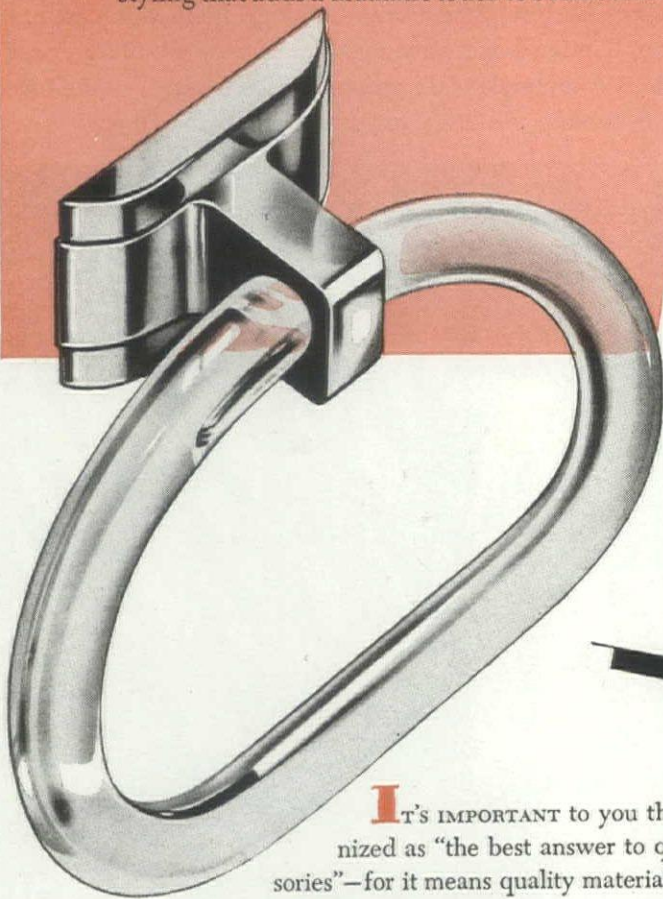
STYLE

Style has a definite place in today's bathroom design—for the bathroom accessories you choose today will do much to determine the appearance and convenience of your bathroom for years to come.

This new Crystalcrome towel ring is the latest addition to Hall-Mack's Crystalcrome line of bathroom accessories—and it combines sparkling beauty and sensible utility in a new styling that adds a dramatic touch to bathrooms.

The large stirrup-type towel ring is made of solid, crystal clear Lucite which will not break or discolor—and has a chrome plated base. Two rings—fastened to the wall or door—a "Mr." and "Mrs." pair—will add beauty and convenience to any bathroom.

This is but another example of Hall-Mack quality—expressed "STYLE"—another reason why Hall-Mack is the only answer to Quality Bathroom Accessories.



IT'S IMPORTANT to you that Hall-Mack is recognized as "the best answer to quality bathroom accessories"—for it means quality materials and fine construction—it means that the accessories you choose will have lasting style and enduring beauty—it means that whatever your taste, whatever your budget—Hall-Mack has the right accessory to supply every bathroom need.

Within four popular lines—Crystalcrome, Coronado, Tempo and China-Vogue—you can select Hall-Mack accessories for every bathroom style and budget!

HALL-MACK COMPANY

1344 W. Washington Blvd., Los Angeles 7, California

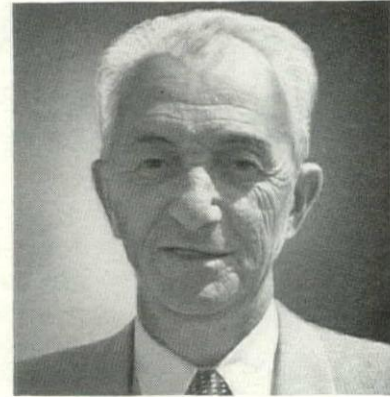
1000 Main Avenue, Clifton, New Jersey

Sold by leading plumbing, tile and hardware dealers everywhere.

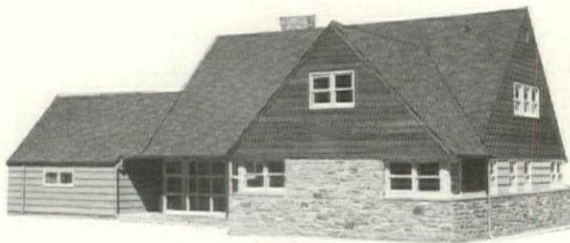


Here's how saves \$107 per home

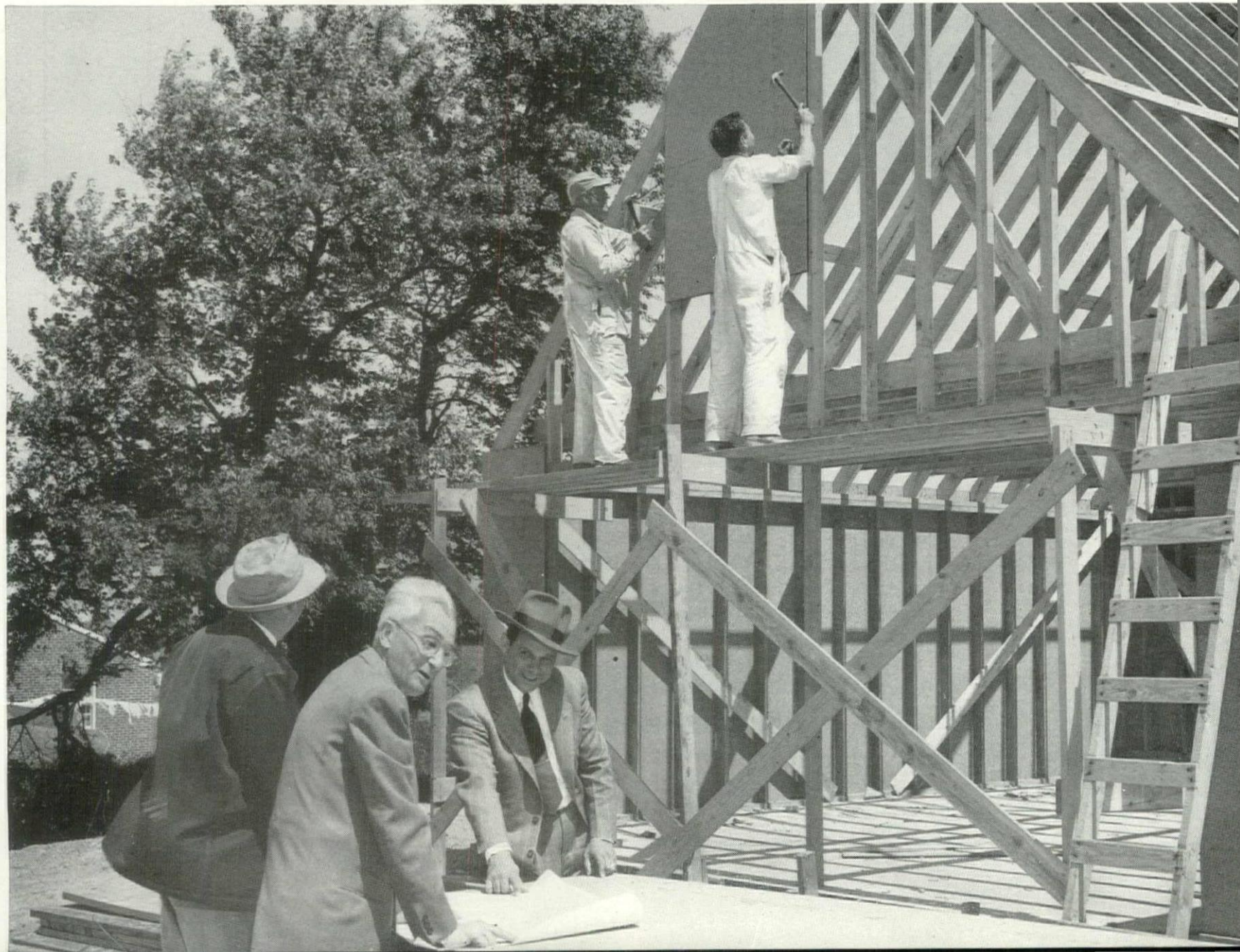
"We cut sheathing time nearly 30%, eliminated corner-bracing, reduced the amount of temporary bracing and added extra insulation value to this home by simply using Bildrite Sheathing and Shingle-Backer instead of wood. Net result: better construction and a saving of \$107!"



A. TOLL, builder,
Whitemarsh Downs, Inc., Philadelphia

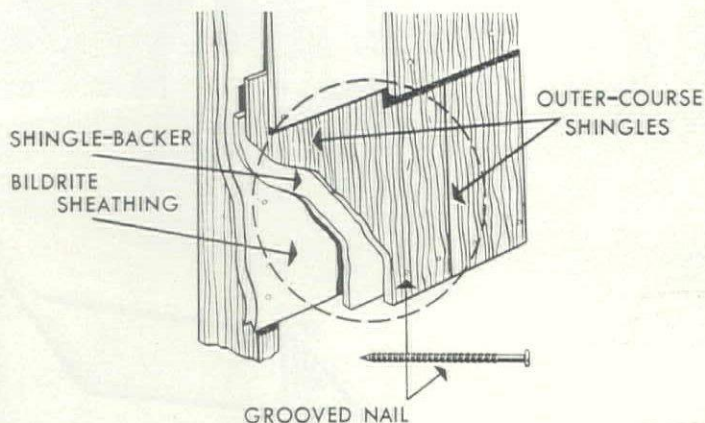


Get Twice the Bracing Strength of horizontally-applied wood sheathing with 4-foot Bildrite. Save corner-bracing. Reduce the amount of temporary bracing. Eliminate excessive racking. Eliminate building paper too, because Bildrite is completely waterproofed by an integral asphalt treatment. Won't warp or buckle . . . store it anywhere in any weather.



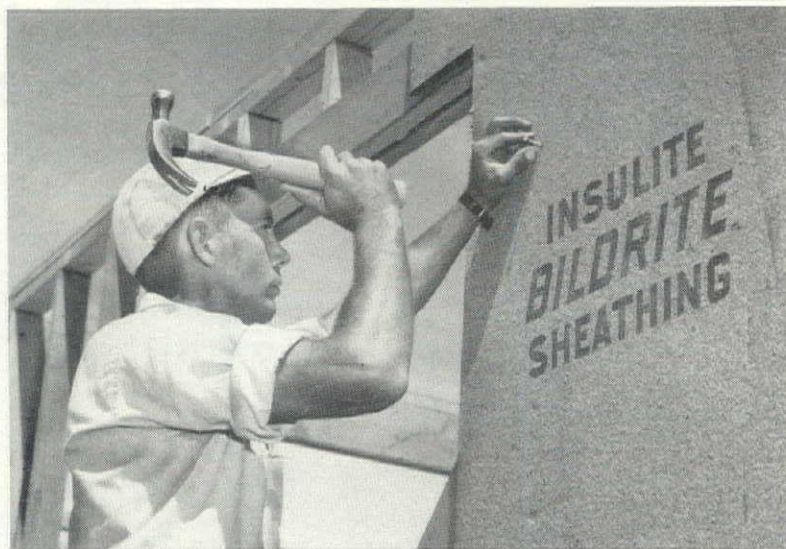
Philadelphia builder with Insulite.

One Carpenter Can Sheath 1,000 sq. ft. in 8 hours or less with Bildrite Sheathing . . . cuts your sheathing time as much as 43%. What's more, carpenters like to work with Bildrite because it's clean and easy to handle, cut and apply. Comes in wide range of sizes . . . 2' x 8' and 4' x 8', 9', 10' and 12'. Practically no waste either (as compared to average 12% waste with wood sheathing).



Speed Shingle Application with Shingle-Backer, the new insulating under-course developed by Insulite. Handy 4-foot panel applies far faster and easier than old-fashioned wood under-course shingles . . . cuts application time in half. Produces smooth, deep shadow-line. Practically eliminates waste. Has tremendous holding power. Wall tested at University of Minnesota resisted winds beyond 250 m.p.h.!

FREE Kit for Builders tells in detail, how Bildrite Sheathing and Shingle-Backer can help you save on your next job. Write Insulite, Minneapolis 2, Minnesota.



INSULITE AND BILDRITE ARE REG. T. M., U. S. PAT. OFF.

Build and insulate with double-duty

INSULITE



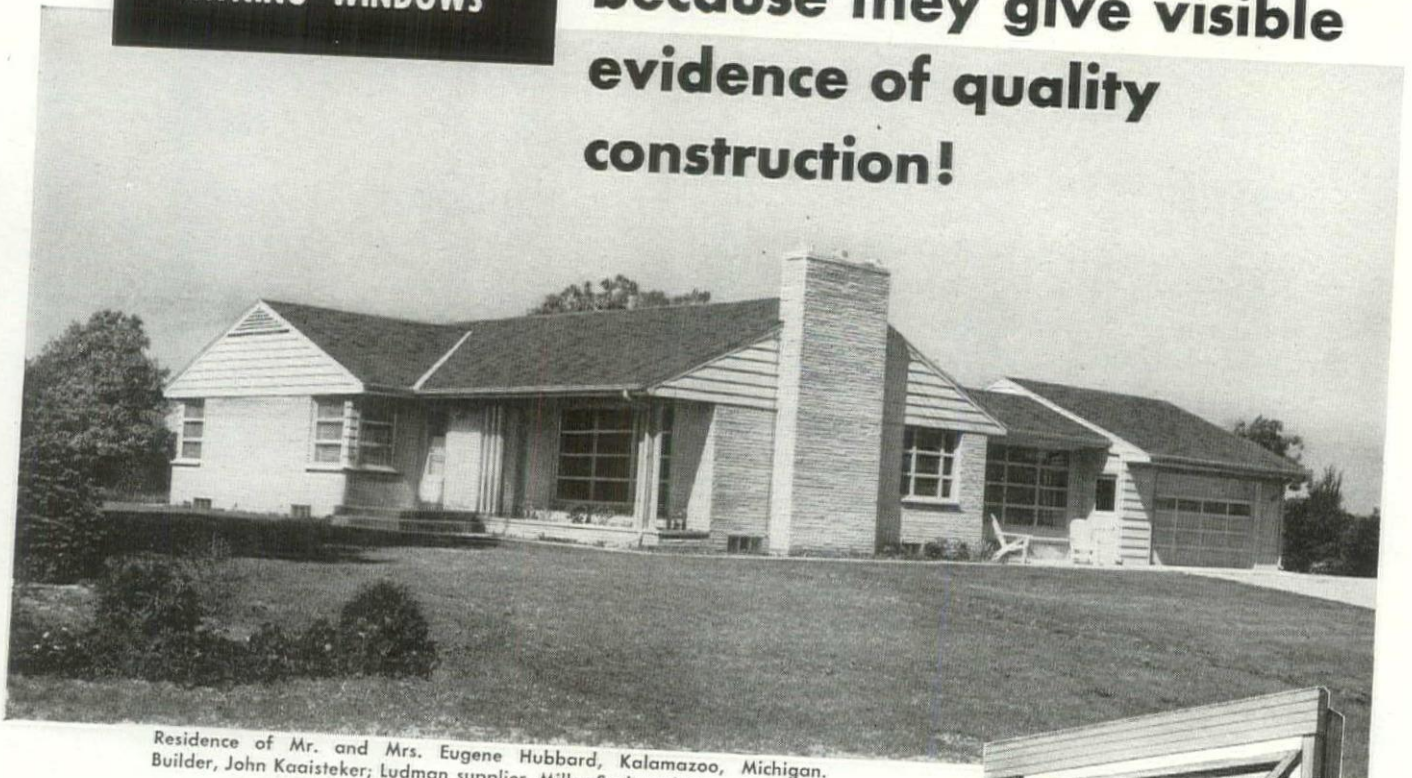
Made of hardy Northern wood



INSULITE DIVISION
Minnesota and Ontario Paper Company
Minneapolis 2, Minnesota



**make houses sell faster
because they give visible
evidence of quality
construction!**



Residence of Mr. and Mrs. Eugene Hubbard, Kalamazoo, Michigan.
Builder, John Kaaisteker; Ludman supplier, Miller Sash and Door Company.



What a difference Ludman Auto-Lok windows make! Houses equipped with Ludman Auto-Lok windows actually bring a higher price and sell easier — yet cost you no more to build!

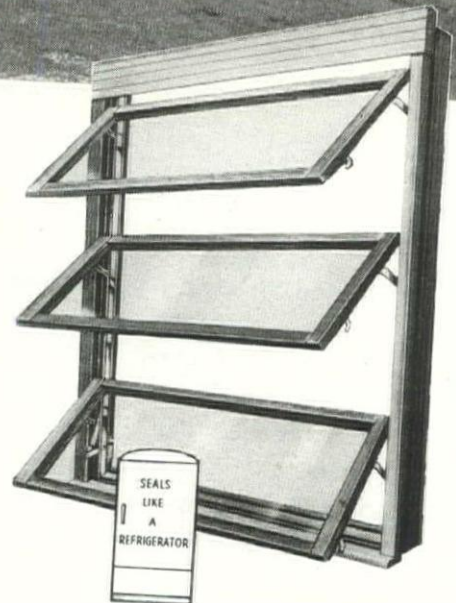
You save both time and money. No costly time consuming installation adjustments are necessary. And costly call-backs are eliminated because Ludman Auto-Lok windows never need adjustment after installation.

Your houses sell faster because Ludman Auto-Lok windows add extra value home-buyers want, and are willing to pay for. Lud-

man Auto-Lok windows feature automatic locking . . . Floating-Seal weatherstripping . . . a self-locking device that automatically seals the window like a refrigerator when it's closed . . . Never sticks, never rattles . . . finger-tip control that's so easy to operate, a child can open or close even the largest windows with ease.

Add your savings to the plus features of Ludman Auto-Lok windows and you'll find they are the most economical windows you can use.

Try Ludman Auto-Lok Windows in your next house. See for yourself what a big difference they really will make!



**Tightest closing window
ever made**

Ludman Auto-Lok Windows close ten times tighter than generally accepted standards . . . have the lowest air infiltration of any window made! Many beautiful window arrangements are possible using standard Auto-Lok units.

LUDMAN Corporation
NORTH MIAMI, FLORIDA

LUDMAN LEADS THE WORLD IN WINDOW ENGINEERING

**ALUMINUM MAKES A
WONDERFUL
DIFFERENCE IN HOMES**



ALUMINUM HARDWARE* HELPS YOU BUILD BETTER, SELL QUICKER!

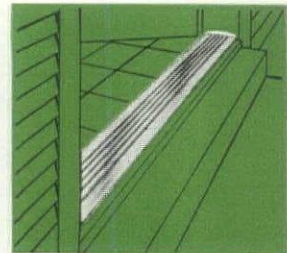
Aluminum hardware completes the white metal theme in modern design—adds an inexpensive touch of luxury to help make that important first impression so vital in turning home “lookers” into buyers. Like other aluminum trim, the lustrous natural color of aluminum hardware, in a wide range of finishes, harmonizes with all decorative schemes. Aluminum hardware won't rust or corrode—stays attractive. You can choose from a full line of aluminum hardware including closers, escutcheons, knobs, strike plates, push bars, kick plates, hinges, stops and other items made by leading manufacturers.

Aluminum's strength, light weight, long life, low cost, attractive appearance, ease of fabrication with regular carpenter tools and other advantages work two ways—benefit both builder and buyer.

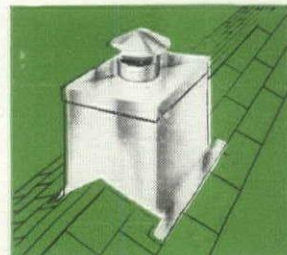
Remember—for help on your building material problems, call your nearby Reynolds Architectural Distributor listed under “Aluminum” in the classified telephone directory. For more information on the many uses and advantages of architectural aluminum in home construction, write Reynolds Metals Company, 2529 South Third Street, Louisville 1, Kentucky.

Send for free *Architectural Aluminum* catalog. For quick reference, see catalog $\frac{5a}{Re}$ in *Sweet's Architectural File*.

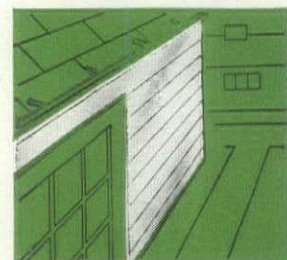
SEE “Mister Peepers” Sundays, NBC-TV. Consult local listing for time and station.



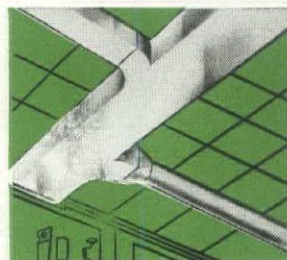
Aluminum thresholds are available for all entrance and between rooms applications. Easy to install, economical.



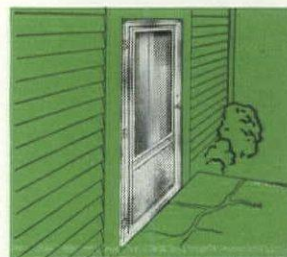
*Aluminum chimneys are light weight, save space, are easily erected, reflect heat and resist corrosion.



*Aluminum siding is easy to work with and apply. Won't rot, warp, shrink, swell or crack. Fire resistant.



Aluminum ductwork is easy to handle and install. Won't rust, is a natural insulator, minimizes heat loss.



*Aluminum combination doors are rustfree, rotproof, attractive, convenient. A mark of quality in modern homes.

*WRITE FOR NAMES OF MANUFACTURERS.

REYNOLDS



ALUMINUM

MODERN DESIGN HAS ALUMINUM IN MIND



*Good
Fishing,
Amigos*

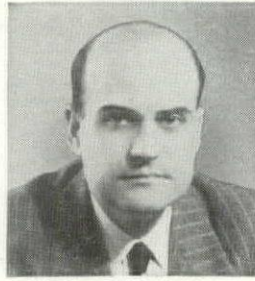
Winners of the

1st Region



Charles J. LoDolce
New Britain, Conn.

2nd Region



Charles F. Haring, Jr.
Tuckahoe, N. Y.

3rd Region



Robert B. Houston
Pittsburgh, Pa.

4th Region



I. H. Hammerman II
Baltimore, Md.

5th Region



George Goodyear
Charlotte, N. C.

6th Region



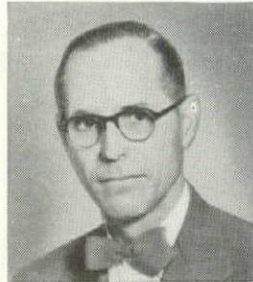
Fred G. Fett, Jr.
Brookhaven, Ga.

7th Region



William F. Hendy
Cincinnati, O.

8th Region



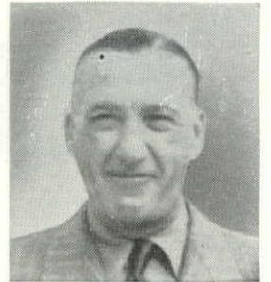
John R. Worthman
Fort Wayne, Ind.

9th Region



Leonard Bisanz
St. Paul, Minn.

10th Region



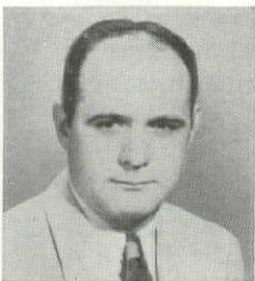
E. T. McMurray
Des Moines, Ia.

11th Region



Frank Robertson
San Antonio, Tex.

12th Region



Nick Papanikolas
Salt Lake City, Utah

13th Region



Bill Weaver
Denver, Colo.

14th Region



Albert Balch
Seattle, Wash.

15th Region



R. W. Kurth
Van Nuys, Cal.

16th Region



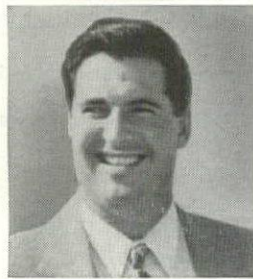
Charles Freeburg
Memphis, Tenn.

17th Region



Louis J. Zollinger
New Orleans, La.

18th Region



John C. Hall
Phoenix, Ariz.

19th Region



Rollin E. Meyer
San Francisco, Cal.

20th Region



Earl R. Simpson
Brigantine, N. J.

Here they are . . .

NAHB

Acapulco

Derby

20 regional winners, master merchandisers all, leave for expense-free 9-day fisherman's holiday at famous Mexican resort

Your NAHB judges have spoken. From nationwide entries they've picked the top twenty. And the hard working, quick thinking builders you see at left are enjoying the trip of their lives.

The prize-winning entries are now being assembled in individual well illustrated booklets. They'll be available to you, free of charge, at the Honeywell booth in the Sherman Hotel in Chicago during the NAHB annual convention and exposition, January 17-21.

Be sure to pick up your copies and learn the details of these prize-winning merchandising and sales programs. The booklets will be well illustrated and will give you many ideas to use in promoting the sale of your own houses.

The twenty winners are enjoying a free Acapulco holiday for promoting, publicizing and encouraging prospects to visit a model home during National Home Week. And for doing the best job of it in their region.

The contest was conducted by NAHB and sponsored by Honeywell, leader in the field of automatic home heating controls—including Electronic Modu-flow and Zone Controls—to help maintain and promote the continued prosperity of the home building industry.



Winners of local association awards

E. Badanes, S. Orange, New Jersey
D. S. Barry, Cedar Rapids, Iowa
R. Barry, Columbus, O.
D. J. Bellamah, Albuquerque, N. M.
J. L. Bellinger, Syracuse, New York
F. A. Benson, Seekonk, Mass.
B. L. Bettilyon, Salt Lake City, Utah
R. Bodek, Philadelphia, Pa.
R. J. Boran, Minneapolis, Minn.
L. V. Bossert, Hamilton Square, N. J.
A. J. Boyer, Indian Orchard, Mass.
P. W. Braun, Buffalo, N. Y.
V. C. Buck, Spokane, Wash.
C. R. Byrd, Birmingham, Ala.
G. G. Byrd, Worthington, O.
R. F. Catlin, Syracuse, N. Y.
M. Cerel, Boston, Mass.
A. C. Colpaert, South Bend, Ind.

E. A. Corum, Sacramento, Calif.
H. S. Culp, Salt Lake City, Utah
C. B. Daniels, Jr., Kansas City, Mo.
J. W. Davin, Jacksonville, Fla.
F. P. DeBlase, Rochester, N. Y.
R. Dobrman, Sioux City, Ia.
M. L. Eakin, Albany, Cal.
D. A. Evans, Texas City, Tex.
E. L. Fausett, Little Rock, Ark.
M. Feingold, Miami, Fla.
E. Feller, Verona, Wis.
J. E. Fratantonio, Elberon, N. J.
C. M. Freeman, Bethesda, Md.
D. Ganser, Milwaukee, Wis.
W. C. Garcia, Santa Clara, Cal.
F. Garling, Dearborn, Mich.
R. Gilbert, Texas City, Tex.
H. G. Goodwin, Melrose Park, Pa.

J. W. Heslop, Akron, O.
B. Holman, Austin, Tex.
R. L. Houseman, Springfield, O.
R. E. Hughes, Greenville, S. C.
R. G. Hughes, Pampa, Tex.
J. W. Jobston, Oklahoma City, Okla.
L. L. Linebarger, Spokane, Wash.
G. Marcoe, Rapid City, S. D.
R. K. McGraw, Indianapolis, Ind.
W. H. McGraw, Dallas, Tex.
H. V. McIntosh, Aliquippa, Pa.
J. E. Miles, Louisville, Ky.
W. A. Newman, Portsmouth, O.
J. E. Nuckolls, Tulsa, Okla.
F. A. Ogren, Houston, Tex.
S. J. Padula, Bergenfield, N. J.
E. E. Peterson, Lincoln, Neb.
E. J. Plott, Canton, O.

A. H. Rablves, Oakland, Cal.
R. Rhue, Colorado Springs, Colo.
J. Robinson, Lynwood, Cal.
I. Rose, Detroit, Mich.
H. Sackowsky, Tacoma, Wash.
J. M. Siegler, Cleveland, O.
H. W. Simon, Youngstown, O.
R. B. Smith, Grafton, O.
R. Smykal, Wheaton, Ill.
K. Stowell, Wichita, Kan.
V. Voerster, Sr., St. Louis, Mo.
A. B. Wentzler, Dayton, O.
C. A. Wheeler, Jr., Nashville, Tenn.
F. W. White, Portland, Ore.
L. L. White, Encino, Cal.
B. Wisemann, St. Petersburg, Fla.
L. Winn, Jr., Kansas City, Mo.
R. Wright, Columbus, Ga.

MINNEAPOLIS
Honeywell

104 OFFICES
ACROSS THE NATION



First in Controls

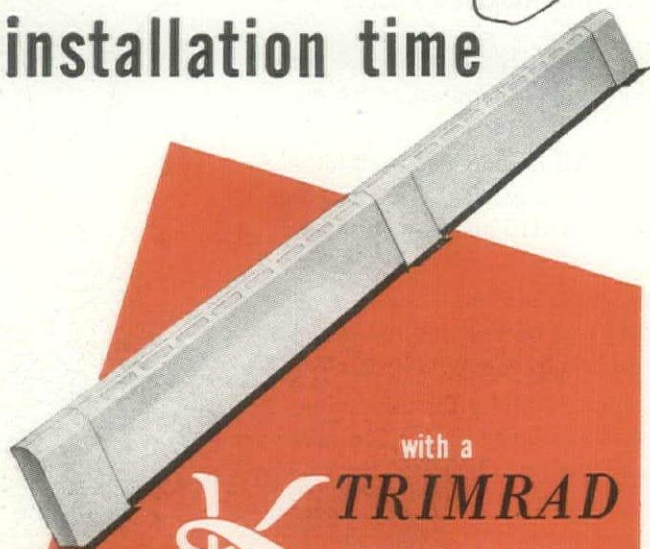
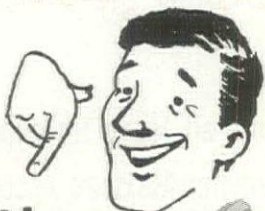


YOUR CUSTOMER will get

maximum
heating economy

YOU will have

minimum
installation time



with a
TRIMRAD
Koven
BASEBOARD RADIATOR

STURDY WELDED STEEL CONSTRUCTION

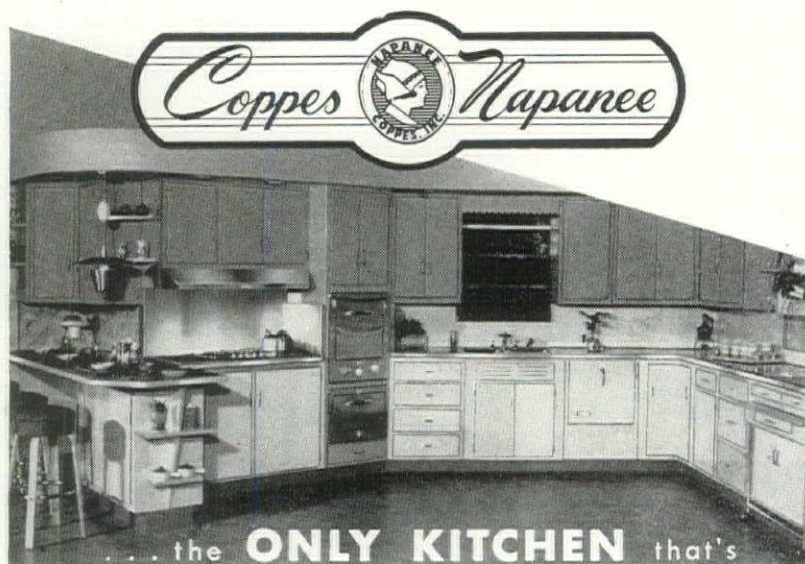
DRAFT-FREE WARMTH
•
EVEN RADIATED HEAT
•
REDUCES FUEL BILLS
•
CUTS CLEANING TIME
•
LASTS A LIFETIME
•
ALMOST INVISIBLE
allows full room space

no hot spots...
no cool spots...
no trouble spots!

NATIONALLY
ADVERTISED

Engineered by KOVEN... one of America's leading steel fabricators since 1881

WATERFILM BOILERS, INC.
a division of L. O. KOVEN & BRO., INC.
36-40 New York Ave., Jersey City 7, N. J.
Plants: Jersey City, N.J. • Dover, N.J. • Trenton, N.J.



... the **ONLY KITCHEN** that's

GUARANTEED EXCLUSIVE!

If your customers want the best...
the *finest kitchen in the world*...
they want COPPES NAPANEE!

It's the **ONLY** kitchen that's
GUARANTEED absolutely **EXCLUSIVE**,
because each and every one is

INDIVIDUALLY DESIGNED...

by you or us. There are no stock plans, no limitations to your originality or individuality.

COMPLETELY CUSTOM BUILT...

by skilled furniture craftsmen. There are no pre-built units... every cabinet and unit is *built to order!*

HARDWOOD CONSTRUCTION...

using our own kiln-dried **HARD WOOD**. Coppes Napanee kitchens are actually built to be a *part* of the home, not an addition to it!

INFINITE COLORS AND FINISHES...

Again, there is no limit to your customers needs or wishes. Select different colors inside and out, on base or wall cabinets. Beautiful enamels or natural maple finishes.



BOOTH
450
SHERMAN
HOTEL
January, 17th
thru 21st, 1954

see our catalog in
ARCHITECTURAL
FILE
or write for copy

IMPORTANT NOTICE

NAPANEE is the registered trademark of COPPES, INC., the one and only manufacturer of Napanee kitchens. Be sure that any kitchens referred to as NAPANEE, also bear the COPPES name!



NEW! FREE!

KITCHEN PLANNING SERVICES!

Send for full details and material on

- KITCHEN PLANNING SERVICES
- COUNTER TOPS
- SPECIFICATIONS
- COLOR SCHEMING & DECORATING
- "101 Problems of Planning Kitchens"
- CABINETS
- SCHOOL FURNITURE

NO OBLIGATION.

Coppes Inc.
NAPANEE,
INDIANA



They're Here!

Brand New Styles . . . in the Brand You Know!

FAMOUS **MIAMI** *Carey* VENTILATING FANS

Here are brand-new styles in Miami-Carey Ventilating fans — designed to give added smartness and sales appeal to homes you plan. In bathrooms, kitchens, utility or recreation rooms, in large homes or small—they offer *brand-you-know* acceptability at budget-right cost.

Notice, too, the features builders like and want — fast, time-saving installation; a minimum of

assembly steps required; all models built with snap-in assembly of propeller-motor unit. Cleaning is easy, too!

So consider the smartness, quality and dependability of the MIAMI-CAREY line the next time you specify Ventilating fans. A MIAMI-CAREY representative will gladly give you all the facts, or drop us a line today for complete details.

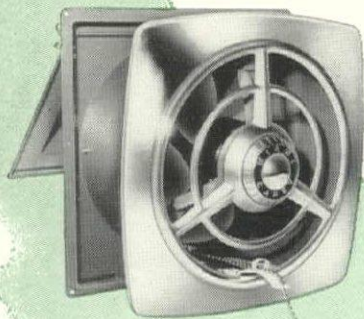


MODEL MC-83*

8" Through-Wall Fan
(with pull chain)

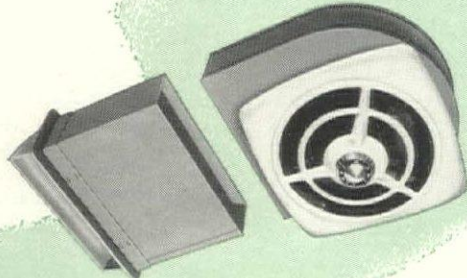
MODEL MC-103

10" Through-Wall Fan
(Same features as MC-83)



MODEL MC-CW103*

10" Combination Wall and Ceiling Fan



All New!

At last — deluxe fan features at budget-fitting prices! 1-piece grille with gleaming baked-on white enamel, allows maximum passage of air; snap-in assembly of propeller and motor unit for easy installation; fast cleaning; convenience plug located forward for quick access; fans packed "knocked down" for time-saving assembly.

Daisy-fresh, odorless, greaseless kitchens are the result when this economical and attractive fan is specified. Features 1-piece snow white baked-on enamel grille; induction type motor — no radio or TV interference; standard 3 1/4" x 12" furnace duct and accessories—provides 20% more cross sectional duct area; housing 3 1/4" in depth for installing either in ceiling or side wall; 2 dampers prevent backdraft; deep-pitched, 3-blade propeller for maximum air delivery.

* (Chrome finish and 3-speed switch optional at slight extra cost.)

VENTILATION BY
MIAMI
Carey

MIAMI-CAREY DIVISION
The Philip Carey Mfg. Co.
Middletown, Ohio, Dept. HH12

FROM THE HOUSE OF MIAMI-CAREY
Kitchen Ventilating Fans • Attic Ventilating Fans
Bathroom Heaters • Bathroom Cabinets
Mirrors and Matching Accessories

TODAY... HOME BUYERS WANT



NO RUSTING

NO ROTTING

NEVER NEED PAINTING

NO MAINTENANCE EXPENSE

EASY TO OPEN AND CLOSE

WEATHERTIGHT SEAL

ATTRACTIVE APPEARANCE

Ask the average home buying prospect what he wants in a new house and he'll quickly tell you... "a house that's modern and up-to-date in every respect — a house that's designed for comfortable living and easy, inexpensive maintenance." Yes, **LOW-COST MAINTENANCE** is a mighty important factor with today's home buyers.

Because they cannot rust or rot, never need painting or costly repairs, "Quality-Approved" aluminum windows have unusual sales appeal.

Why not cash in on this growing demand for aluminum windows on the part of home buyers? As you plan and build new houses, install "Quality-Approved" aluminum windows, and see for yourself how they help stimulate sales. Once you try them, you'll also appreciate their many other advantages, such as: ease of handling, ease of installation, and freedom from profit-eating "trouble-calls."

"Quality-Approved" aluminum windows are available for immediate delivery, through many manufacturers, in sizes and styles (double-hung, casement, projected, and awning types) that fit any building plans. All are tested against rigid performance standards. All are approved for quality of materials, for strength of sections, for sound construction, and for low air infiltration.

For additional information and names of approved manufacturers, consult Sweet's Builders File (Section 3c/ALU) or write us direct at Dept. HH-12.

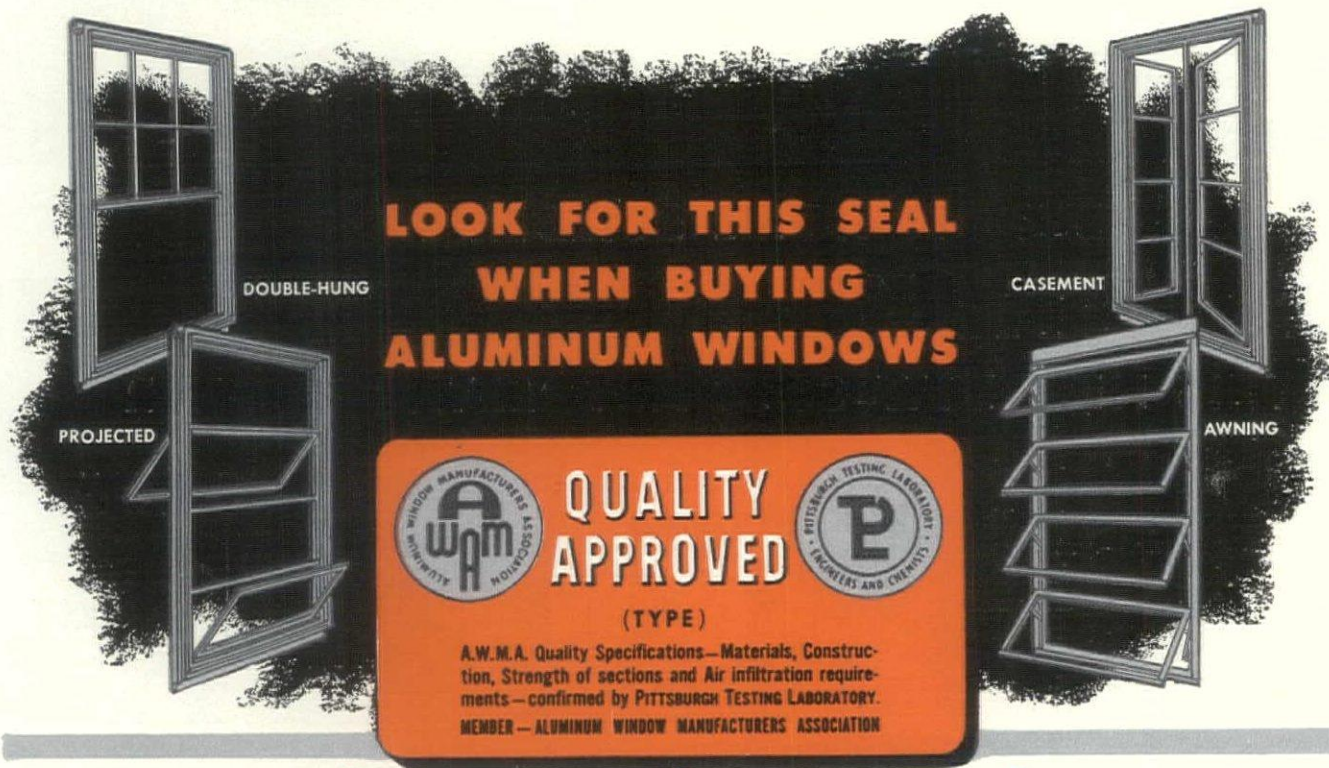
Aluminum Window Manufacturers Association

74 Trinity Place, New York 6, N. Y.

THE MONEY-SAVING ADVANTAGES OF

Quality Approved

ALUMINUM WINDOWS





**LOOK FOR THIS SEAL
WHEN BUYING
ALUMINUM WINDOWS**

DOUBLE-HUNG
PROJECTED
CASEMENT
AWNING

QUALITY APPROVED
(TYPE)

A.W.M.A. Quality Specifications—Materials, Construction, Strength of sections and Air infiltration requirements—confirmed by PITTSBURGH TESTING LABORATORY.
MEMBER—ALUMINUM WINDOW MANUFACTURERS ASSOCIATION



TESTED

**FOR QUALITY
MATERIALS**



TESTED

**FOR SOUND
CONSTRUCTION**



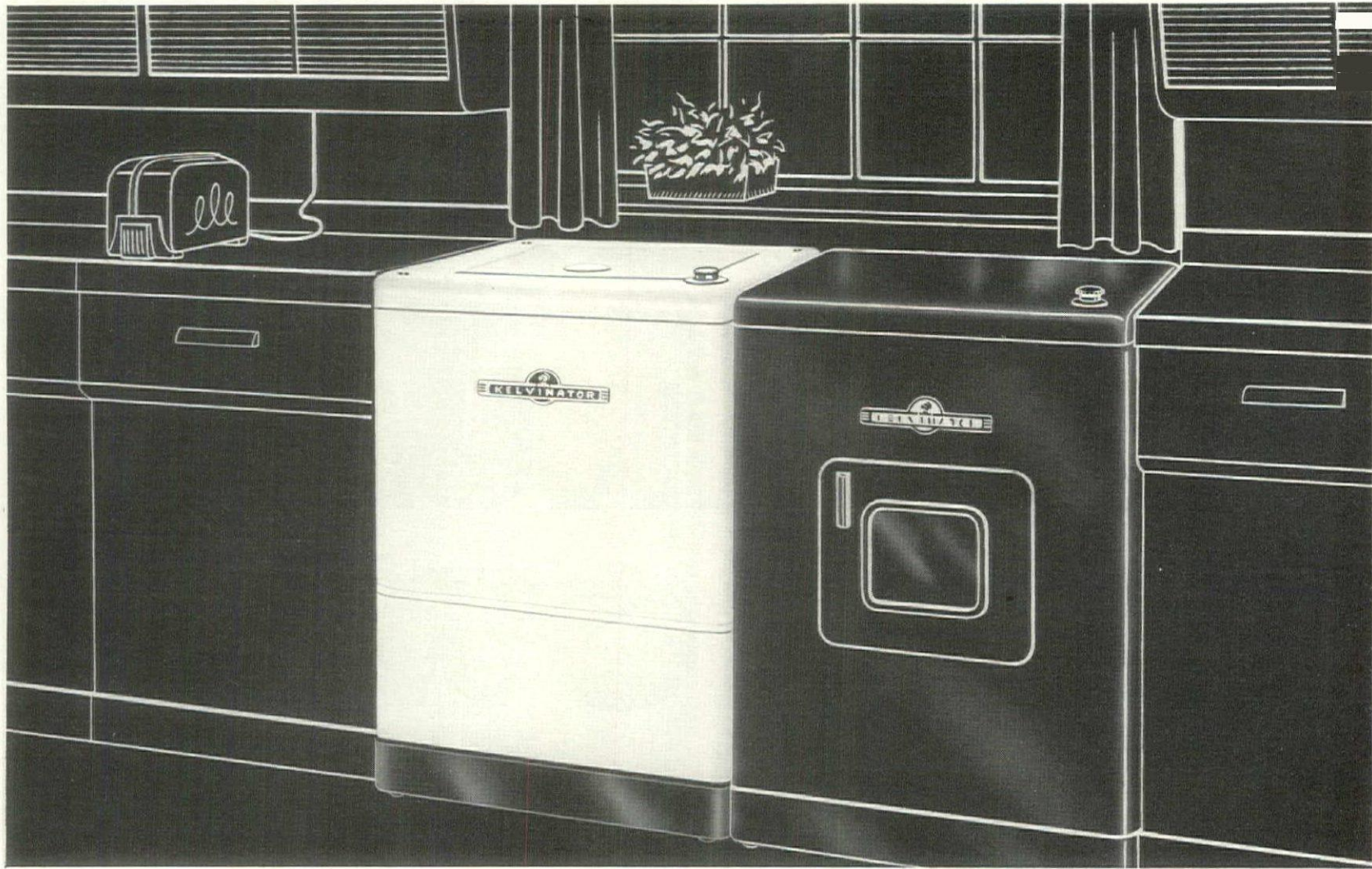
TESTED

**FOR STRENGTH
OF SECTIONS**



TESTED

**FOR LOW AIR
INFILTRATION**



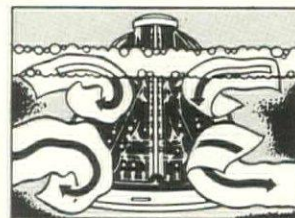
BUDGET HOME BUILDERS!
CHECK WITH KELVINATOR FIRST
SEE THIS NEW LOW-COST AUTOMATIC WASHER

WASHES BETTER BECAUSE OF BETTER WASHING FEATURES

Here's your chance to impress your prospects with an automatic washer that is really deluxe — yet is priced low enough to offer as standard equipment in budget-priced homes. This new Kelvinator offers superior washing features that will be sure to impress your women buyers. Features like "Shampoo Washing" that gets dirty clothes really clean; "X-Centric" Agitation that is so gentle yet thorough like hand washing; Overflow Rinsing that floats dirt and soap scum over top of clothes instead of down through them, and Spin-Drying that leaves clothes damp dry and drip-free. To find out more about this new Kelvinator Automatic Washer at a new low price write to Dept. HH-12, Kelvinator, Division of Nash-Kelvinator Corp., Detroit 32, Michigan.



SHAMPOO WASHING. It's just like the method women use when they wash children's hair . . . they wet their hair, add shampoo and work up a rich, creamy lather that quickly and gently loosens all dirt.



X-CENTRIC AGITATION. The agitator moves in a continuous off-center circle to all parts of the tub, lifting and turning clothes with gentle action like hand washing, forcing the loosened dirt from the fabrics.



OVERFLOW RINSING. Soap scum, dirt and lint float away over top . . . not down through clothes. A splashing rinse carries away remaining particles, sparkling clean clothes are spin-dried drip-free.



**KELVINATOR DELUXE
 AUTOMATIC WASHERS
 AND DRYERS**

The ultimate in fine home laundry equipment with added convenience features and the finest appointments, priced so they can be included advantageously in even moderately priced homes.

IT'S TIME TO GET

Kelvinator

Division of Nash-Kelvinator Corporation, Detroit 32, Michigan

AND BE YEARS AHEAD!

LET'S CELEBRATE TOGETHER AT CHICAGO

NAHB 10th Anniversary Jan. 17-21, 1954 • Hotel Conrad Hilton—Hotel Sherman
 Kelvinator's 40th Anniversary Complete Line Showing • Booth #1—Hotel Conrad Hilton

Electric Refrigerators • Electric Ranges • Home Freezers • Electric Water Heaters • Kitchen Cabinets & Sinks • Home Laundry Equipment • Garbage Disposers • Room Air Conditioners • Electric Dehumidifiers

GOVERNMENT'S VIEW OF EXPENDITURES FOR NEW CONSTRUCTION

(Millions of dollars—continental U.S. Joint estimates by Depts. of Labor and Commerce)

Type of construction	Last fall's estimate of 1953	Current estimate of 1953	Forecast for 1954	% change
Total new construction	\$33,500	\$34,720	\$34,000	—2
PRIVATE CONSTRUCTION	22,500	23,430	22,800	—3
Residential building (nonfarm).....	11,450	11,715	11,225	—4
New dwelling units.....	10,200	10,345	9,650	—7
Additions and alterations.....	1,050	1,104	1,300	+18
Nonhousekeeping.....	200	266	275	+3
Nonresidential building (nonfarm).....	4,600	5,689	5,575	—2
Industrial.....	1,650	2,263	1,950	—14
Commercial.....	1,400	1,775	1,950	+10
Warehouses, office and loft buildings.....	575	740	850	+15
Stores, restaurants and garages.....	825	1,035	1,100	+6
Other nonresidential building*.....	1,550	1,651	1,675	+1
Religious.....	425	473	500	+6
Educational.....	375	423	450	+6
Social and recreational.....	150	161	175	+9
Hospital and institutional.....	350	313	300	—4
Farm construction.....	1,700	1,475	1,300	—12
Public utilities.....	4,350	4,430	4,575	+3
All other private.....	100	121	125	+3
PUBLIC CONSTRUCTION*	11,300	11,290	11,200	—1
Residential building.....	575	551	365	—34
Nonresidential building*.....	4,250	4,339	4,275	—1
Industrial.....	1,700	1,786	1,600	—10
Educational.....	1,775	1,742	1,925	+11
Hospital and institutional.....	375	341	275	—19
Military and naval facilities.....	1,600	1,360	1,200	—12
Highways.....	3,000	3,145	3,450	+10
Sewer and water.....	725	761	825	+8

* Minor components omitted, so totals appear greater than component parts

Officials predict million '54 starts

► Commerce and Labor Departments join general forecast of a good year ahead for private construction

► Suburban market, birth rate and administration's anti-recession program are some of the reasons for optimism

No matter how they sliced it, experts prognosticating the outlook for building in 1954 could not come up with anything but a rosy "nearly as good as this year." Practically everyone from HHFA Administrator Cole on down tabbed total housing starts at one million. Last month, the authoritative annual Commerce-Labor forecast (table above) joined the million house chorus. It predicted 975,000 private units (an 8% drop from this year's anticipated 1,050,000) and 25,000 public housing starts (down from an expected 40,000 this calendar year). For the nation's entire construction, the forecast placed '54 dollar outlays at a probable \$34 billion—a scant 2% below the anticipated record total for this year.

The Federal experts' million starts agrees precisely with HOUSE & HOME's estimate by Economist Miles L. Colean (H&H, Sept. '53). Two organizations have prophesied a total of less than a million. The McGraw-Hill economics department says 925,000; the United

States Savings & Loan League expects between 900,000 and 950,000, but adds that such statistics are not a "fully satisfactory" measure of building activity.

Commerce-Labor forecasters (who have a good record for accuracy) say they based their optimistic outlook on the assumption that there will be no significant change in the international situation or in the present high level of personal income. They have allowed, they say, for a "slight easing in the general economy and some rise in unemployment." They predicted "mortgage funds will be adequate and . . . building costs will vary little." Among the other factors that influenced their thinking, HOUSE & HOME learned, were the rising birth rate, creating many families of four, five and six persons; the fact that federal social security and private pensions are making it possible for aged persons to occupy single dwellings, leaving fewer existing dwellings for new families; large-scale builders making house buying so much simpler it stimulates

sales. Last, but not least: a growing feeling among families that a suburban home is not just a place to enjoy creature comforts—it is more and more a social goal.

While the 8% dip in starts should drive private spending for new housing down about 7%, the federal forecasters said outlays for home improvements and remodeling should gain surprisingly—18%. Reasons: growing families will need more bedrooms; the drive to rehabilitate blighted neighborhoods being led by homebuilders and realtors.

Suburbs: the big market. The government forecast looked for a "mild contraction" in total private construction. But officials said declines in housing, industrial, farm and defense construction would be offset by a "mobile and fast-growing population" moving to the suburbs and demanding more churches, schools, highways and utilities. (All-time records can be expected in the latter categories.)

HHFA came up with a fresh statistic on the lately recognized importance of population migration as a big reason for housing demand. The agency said 78 million Americans—almost half the population—changed their home addresses during the four years ending in Apr. '51. More recent statistics from the Census Bureau (H&H, Oct. '53) show that 20.3% of the nation's nonfarm population moved to a different house during the year ending in Apr. '52.

Sales drive. The question of how to push house sales could perhaps be answered in the light of that more general business theory: a high level is not so much based on a consumer's purchasing power as on efforts to make him purchase. Some thought builders could hold their own by sweat of the brow. Said Ralph Bruneau, vice president of the Valley National Bank of Arizona in Phoenix: "Homebuilders are not making as much money as they did last year, but the market is highly competitive and those who are really on the ball are in good healthy shape."

The experience of an East Hartford, Conn. builder pointed up one of NAHB's big arguments: houses are still relatively easy to sell if the down payment is low enough—so President Eisenhower should reduce FHA down payments. Neil Ellis, youthful president of Green Manor Estates, Inc., sold 100 houses in a month (54 the last sunny Sunday) and chalked up a waiting list of 25 additional customers. His terms: \$1,900 down with a 25-year FHA mortgage; for veterans, some at 5% down and 25-year mortgages, others no money down and 30-year mortgages. His house: about 1,000 sq. ft. (three bedrooms) on a man-sized lot of 75' x 170' for \$12,199 and \$12,499.

Another signpost of housing demand came in a report from Kentile, Inc., makers of resilient floor tiling, who surveyed 2,000 middle-income families in Chicago, Philadelphia and New York to discover how many were planning to buy new homes outside the city. Answer: 27%. The families questioned—their

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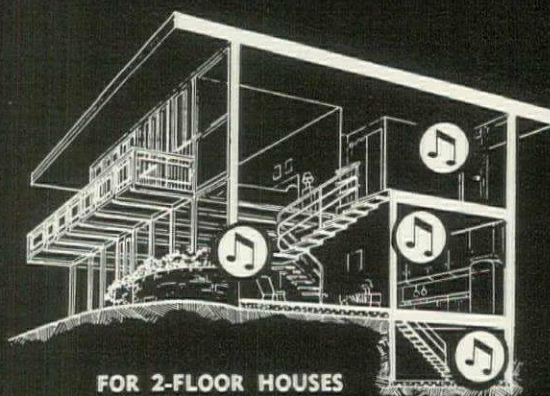
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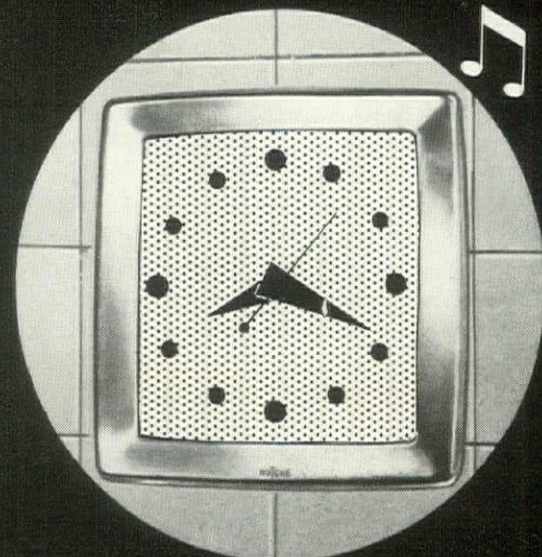
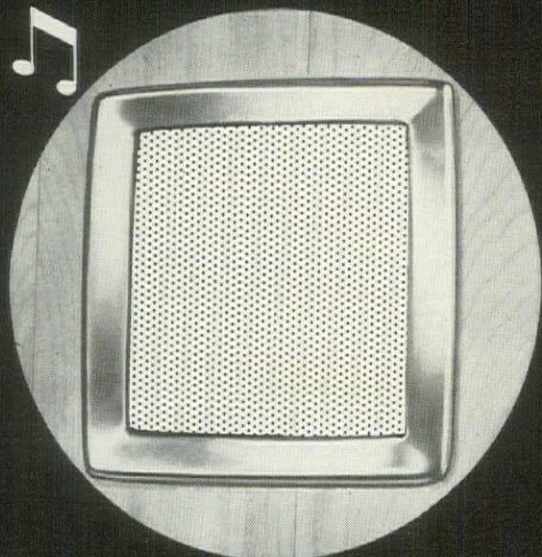
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incomes ranged from \$4,000 to \$6,500 a year—said some of their reasons for wanting to move were decreasing maintenance by landlords, congested living quarters, traffic, the high cost of storing a car and growth of family. Kentile also interviewed 1,900 similar families, in seven states, who had purchased homes since the Korean war. It found that 19% wanted to buy larger homes as soon as they could find them.

The protected economy. The over-all consensus that building is going to be in no pain in '54 depends a lot on which way the economic cat jumps. Industrialists and government money men say—and certainly hope—that it isn't going to jump at all. Stability is their watchword. A lot of experts call business already down 5% and others say it is going to sink 10%. But men like Arthur A. Smith, vice president and economist of the First National Bank in Dallas, support the other side. In a talk before the National Savings & Loan League (p. 41), Smith said: "It will be political suicide for the Republicans to have a severe recession while they are in office. . . . I cannot see even as much as a 5% over-all decline next year from 1953."

The economy is pretty well outfitted with built-in props: farm price supports, old age and unemployment insurance programs and the like. The Federal Reserve and the Treasury started loosening credit and easing money rates back last spring. Just recently provision was made for considerably increased federal loans for small business. The administration, however, would not rest on fiscal measures alone to fight a recession. President Eisenhower felt called upon last month to remind the population of his campaign promise that "the full power of government and every natural resource will be devoted to seeing that it [a major depression] shall never happen again in America." The three main channels through which this power will be brought to bear on the economy are easier money, tax relief and public works.

Housing vs. slump? How would such measures affect building? The fact that anti-recession machinery included moves to ease money and credit indicated strongly that homebuilders could not expect the President to ease FHA down payments now. Such action was too good an ace in the hole for the White House to trot out to combat a slump. Second, in an economic pinch public housing might well be seized as a convenient means for easing unemployment.

Public housers do not take kindly to this projected scheme, having labored for years to erase the original concept held during the depression that their efforts were make-work projects. Their argument (and the argument of the public works men) is that their projects are needed now—irrespective of the state of business. Private builders are equally leery of such a scheme, disliking the idea of a huge backlog of public housing being held in check until a likely time to dump it on the market.

Economic braintrusts were also considering the possibility of FHA expanding its in-

surance functions to include commercial, and perhaps industrial, construction—like shopping centers, small plants, farmers' markets. FHA has never been very ambitious about expanding. It managed to maneuver itself out of handling the veterans' housing program after the war. An alternative possibility: give the task of insuring loans on commercial buildings to the Small Business Administration.

7% vacancy in defense housing is higher than US average; some projects half empty

In building some \$500 million of defense housing to overcome threatened shortages, the experts had produced so much that \$37 million of it was vacant—mostly at the taxpayer's risk. The ironic picture emerged last month in figures from HHFA, the agency in charge. On Sept. 30, the government found 7½% of the nation's 50,517 defense houses vacant. That was 3,768 empty units among 211 areas. This contrasted with a national vacancy rate in cities which NAREB President Charles B. Shattuck said last month was about 3% at most—a vacancy rate which had been sufficient to persuade Congress to drop rent control and find (to the surprise of some) that there were only a few scattered squawks. On the basis of an average \$10,000 house, the 3,768 vacant units became, for the moment, \$37 million too much housing.

Homebuilders held a small part of the bag. The US taxpayer was holding about 90% of it. Defense housing—vacant and occupied—was almost all privately built. (Homebuilders had responded magnificently to the challenge to make public defense housing construction as unnecessary as World War II showed it to be undesirable.) Less than a fifth of it found private mortgage financing. The rest—and virtually all of the trouble areas—wound up in Fanny May's portfolio because private money shied away. And privately or FNMA-financed, defense housing bore government mortgage insurance. While the push was on to speed construction, private lenders were belabored for their reluctance to invest in out-of-the-way communities where the defense effort was supposed shortly to send hordes of in-migrant military people or factory hands.

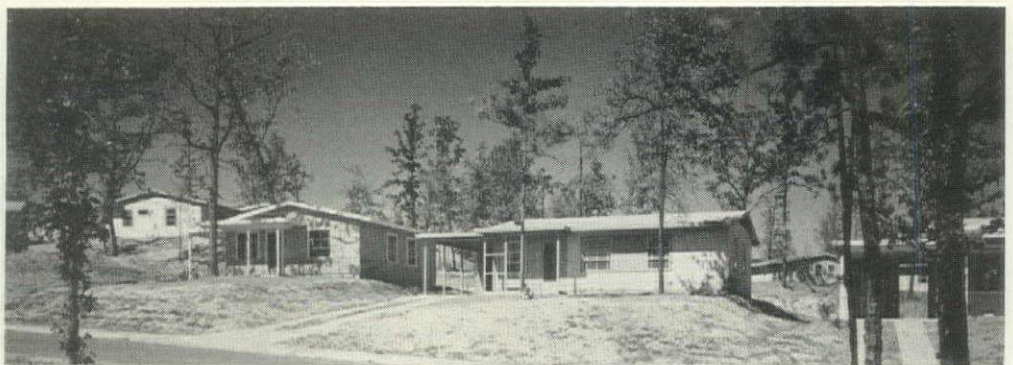
There was no doubt that the Eisenhower administration realized the give and take of all these conflicting ideas and will be examining and reconsidering its fat, forthcoming economic report to Congress until the last minute. From what leaked out to date about the report, the implication was the antirecession program would not get a full-steam-ahead signal unless things go bad fast.

In 29 areas, 38% vacancies. Last month's vacancy picture showed some of their foot-dragging was sound judgment. In 114 defense areas, HHFA could find no vacancies. But 68—all with less than 20% vacant units—had an average vacancy of 7.2%. The other 29 averaged 38% empty! Vacancies above 50% involved projects totaling 1½% of the reporting units.

The sad spectacle of units empty that were erected to prevent shortages did not mean big vacancies would persist in all stricken areas. Nor did it mean anything so simple as that HHFA had bungled the job of deciding how many should be built where and when. Most of HHFA's data came from the Pentagon, the Labor Department, or ODM. Considering the facts it had to work with, HHFA had done a remarkably good job.

As the agency explained: the leading cause of vacancies was that builders erected housing before the Pentagon shipped the people they promised into an area, or before a defense plant had hired the people it said it was going to. In many spots, the eventual arrival of troops or workers would ease vacancies in time. But for seriously vacant housing, the cause was often more than inevitable errors of timing. Frequently the military had changed its mind, closed a camp. The Air Force, said men who knew, had been remarkably slow to warn HHFA when such changes were in prospect.

The experience of Builder Joe Maberry of Dallas illustrated both problems. Last December, Maberry and Avery Mays finished 40 units under Sec. 903 near Ft. Hood, Tex. About that time the Army sent the Second Armored



Ulrich Meisel—Dallas

VACANT DEFENSE HOUSING built by Joe Maberry and Avery Mays at Lone Star, Tex. offered steel workers \$8,500 to \$9,500 homes on 70' x 140' lots, or rentals from \$65 to \$75 a month. The attractive community was planned by Architect Charles Armstrong.

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Division from Ft. Hood to Tokyo. By April, there were 612 vacancies (46½%) among the 1,315 completed Title IX homes there. Among Maberry's, only one was ever rented. As it has in such cases, Fanny May agreed to postpone principal payments, take only 2½% interest on its mortgage. Eventually, the Ft. Hood units (now open to all comers) began to fill up. By October, HHFA reported the vacancy rate was down to 19½%. But Maberry and Mays discovered, when Fanny May's six months forbearance agreement ended, that they must pay the difference between the 2½% interest and accumulated mortgage interest and principal. It came to some \$7,000. Said Maberry: "It would have taken a long time at 100% occupancy to recover. We sold our 40 units to a rancher for \$500 after taking a \$20,000 loss."

Steel workers prefer shacks. At Lone Star, Tex. site of the Lone Star Steel Co.'s new plant, Maberry was the victim of the other typical situation—promised in-migrant defense workers had not arrived. Of his 260 Title IX homes only 42 were rented and 18 sold. Builders of another 140 defense homes were in a similar plight. Maberry explained that the company changed its policy soon after construction began and "instead of hiring some 1,100 experienced steel workers who would have immigrated from steel centers in the nation they hired only a fraction of that amount" and trained the balance of their 3,000 employees from a local labor pool. Many "live on small, run-down farms in substandard homes... as bad as some of the slums in cities." Though their pay was now big enough to buy Maberry's well-planned homes, they clung to their cheaper quarters. Other trouble spots: ▶ Ft. Knox, Ky. where the \$25 million God-

man Air Force base was being inactivated—because, said the Air Force, of its \$5 billion budget cut. Although HHFA had sliced the defense housing program from 500 to 206 units, 53 of the 133 houses completed on Sept. 30 stood vacant.

▶ Camp McCoy, Wis., which had 143 vacancies among 180 completed defense homes, with another 18 still abuilding. Although the Army told HHFA it would have to do so about a year ago, it was too late to stop construction. Fanny May was foreclosing 144. ▶ Camp Roberts and Camp Cooke, Calif., where 217 (25%) of 866 completed defense homes were vacant, with another 143 abuilding. HHFA throttled back the program in Sept. '52, when inactivation of the big training camps loomed, waived the normal restriction that the housing be held for defense people. But last month it admitted the surplus was likely to be absorbed only "after a period of readjustment." Already, FNMA had taken deeds to 104 houses in lieu of foreclosure.

One lesson of the military housing glut was painfully clear. Tom Coogan, former chief of armed forces family housing told HOUSE & HOME: "You can't rely on the services to evaluate the need." Local commanders, understandably, want all the housing they can get. While he was in the Pentagon, Coogan tried to set up a market evaluation organization. Top brass squelched the idea. It looked last month as if this decision might cost the nation part of the \$37 million.

Since May 20, defense housing had been like a dormant volcano—none had been programmed. Last month, the crater erupted again. HHFA announced 30 more rental units for Edenton, N.C. site of an auxiliary landing field for Cherry Point Marines.

federal rent lids until April 30. With the once great rent control field staff disbanded, ODM last month named Lenord A. Skubal as mere area rent director to handle the dwindling operation.

The hot public housing issue

Is public housing a hot potato the GOP is afraid to drop? Some Washington dopesters thought so when President Eisenhower disclosed public housing and slum clearance are two problems he will discuss with Congressional leaders at midmonth. It was an open secret that PHA, with administration blessing, had asked the Budget Bureau to approve 25,000 to 35,000 starts next year.

National S&L League cool to merger talk

As expected, the 750 member National Savings & Loan League gave the 4,100 member US Savings & Loan League a cool though courteous reply last month to the US League's suggestion for talk about merging (H&H, Nov. '53, News).

President Clifford P. Allen III of the National League wrote Chairman Henry A. Bubb of the US League's unification committee: "... We welcome any opportunity to promote the best interests of our business. We are always pleased to join in any united effort to solve any problem... as evidenced by our complete support of the industry coordinating committee on federal legislation." Allen added that National would appoint a committee to "consider matters deemed to require unified action." He did not, as the US League's Bubb had in bringing the touchy subject up, refer to "unification of the savings and loan business." In announcing his reply, the National League pointedly noted that it had just signed a new five-year lease—"a customary renewal period"—on its Washington headquarters.

At the National League's fall conference, held in Miami Beach last month at the same time as the bigger meeting of the Mortgage Bankers' Assn., a record 508 registrants heard that the savings and loan outlook was aglow with promise. Chairman Walter W. McAllister of the Federal Home Loan Bank Board noted that S&L assets have zoomed from \$10 billion in 1946 to \$25 billion today, thus expanding faster than any other segment of finance. He predicted: "An even slower rate of growth will produce \$50 billion in assets by 1960."

McAllister cautioned the league against "undue emphasis" on advertising dividend rates. He said the board was considering prohibiting 1) advertising of dividend rates, and 2) payment of commissions to brokers who bring in deposits "to the association's lending area."

In the fight for business, one of savings and loan groups' biggest competitive advantages, said two speakers, is the open-end mortgage. Economist H. E. Hoagland called its adoption a "badly needed" addition to S&L services.

SIDELIGHTS

Prediction of the month

In October, FHA Commissioner Guy Hollyday predicted prefabricated homes would experience a "remarkable growth in the next few years." Last month, he pinned himself down. Within the next five to ten years, said he, probably 40 to 50% of new housing in the US will be prefabbed in factories.

Donnybrook in Detroit

Michigan's Corporation and Securities Commission started proceedings last month to put an estimated 300 free-wheeling Detroit building contractors out of business. The 300 have had free rein since March, when the state builder's licensing law was found unconstitutional on a technicality. In seven months of unlicensed activity, complaints have piled up in the commission's office about anything from sub-standard lumber to being talked into signing a completion slip before the job was finished. The commission's procedure now is to hold up a suspect's license (a new law went into effect in October) and tell him so. If the suspect wants to take his chances, he can request a hearing before the commission to answer the charges.

How to run conventions on time

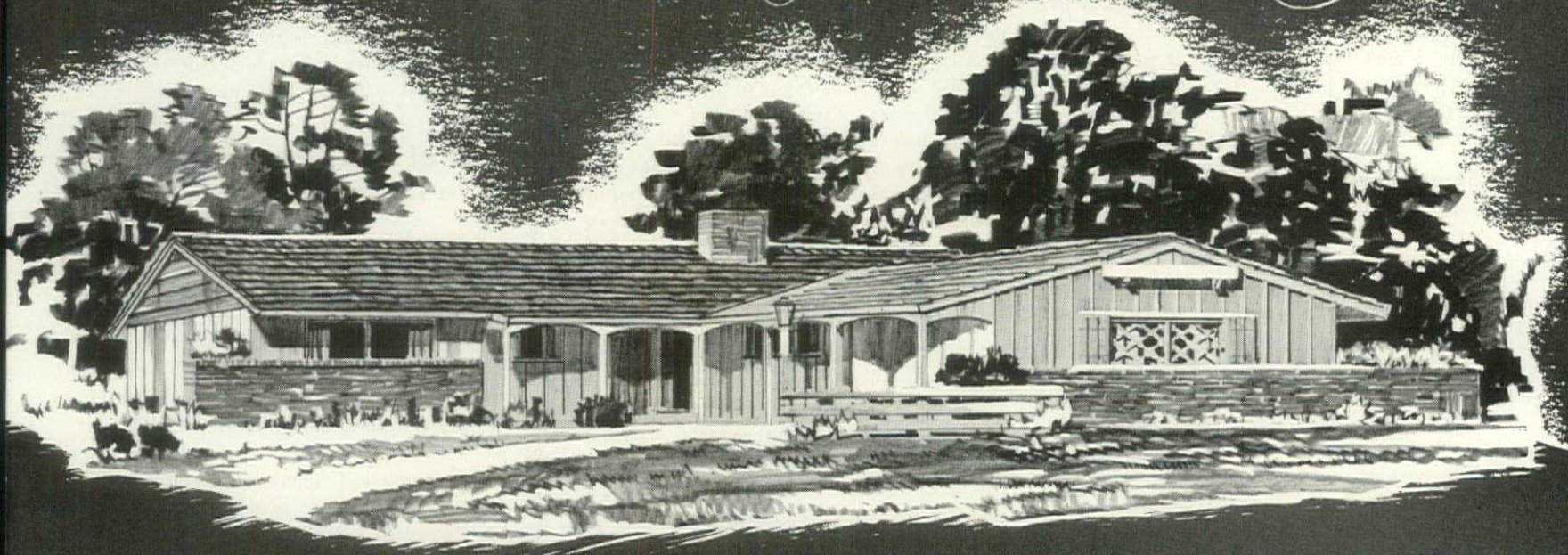
Movies, the Mortgage Bankers Association decided, are a surefire way to get convention sessions to start on time. The association tried the scheme at its 40th anniversary gathering in Miami (p. 116) with success. By shooting sound movies of delegates at work and play during the day and showing the films next morning at 9:30 sharp, they got almost all delegates in their seats at that time. The bankers reported it was a tough job trucking the equipment in and out of committee rooms and out to the golf course, but they seemed to feel it was worth it.

Rent control's remnants

As ODM ended rent controls in Waynesville, Mo., only four spots in the nation remained under rent ceilings last month: Oak Ridge, Tenn.; Del Rio, Tex. (site of an Air Force base); Quantico, Va. (site of the big Marine base); and portions of the Portsmouth, Ohio area (site of the new AEC plant). Under present law, military and atomic areas where housing is short and rents high can be kept under

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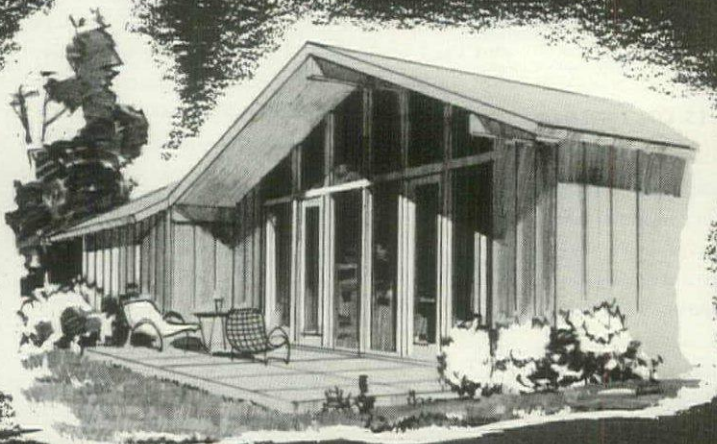
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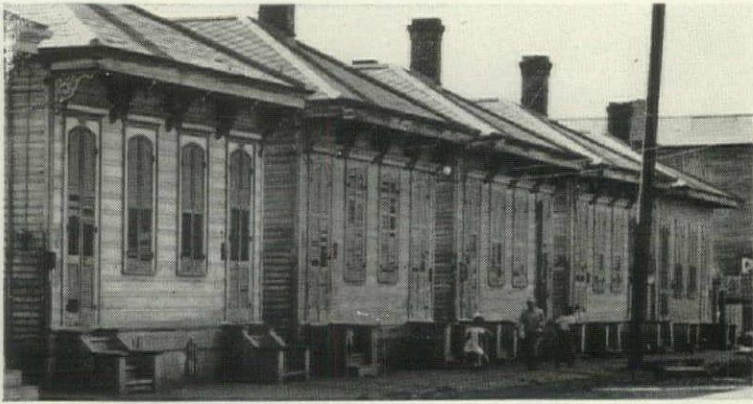
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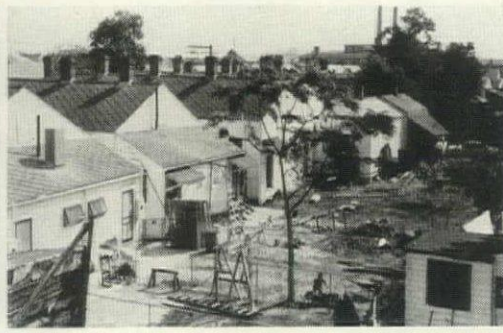
NEW ORLEANS roused city-wide interest in rehabilitation by renovating just five decrepit homes in a Negro neighborhood on Conti St., which looked like this before homebuilders and realtors went to work.



AFTER REPAIRS—paint, cement steps and walks, refurbished toilets and kitchens, and strengthened foundations—Conti St. presented this improvement, and one woman in the neighborhood was organizing a garden club.



REAR VIEW of pilot project (before rehabilitation) shows litter of trash, outside toilets and tumbledown fences rotting in the damp loam, where dwelt cockroaches as big as a finger.



TIDY BACK YARDS replaced the shambles. Mrs. Eldridge Valteaux, whose rent rose from \$16 to \$35 a month, said she was glad to pay it "just to get the place fixed up."

Church council backs rehabilitation; Chicago civil suit seeks to halt illegal conversions

Most US church groups have long ridden public housing's bandwagon. Last month, the National Council of the Churches of Christ (which includes most Protestant groups) threw its support to urban rehabilitation via enforcing building codes and health laws. The council also reiterated its backing of government aid to people who can't afford decent housing, but shied away from endorsing public housing by name.

In urging a "nonsegregated" program to clean up slums, the church leaders called on their own churches and members to scan their own holdings "carefully" to see if any are "substandard." Added a resolution: "Uninhabitable dwellings which are structurally unsound should be torn down. . . ."

The aid of churchmen representing 35 million Americans was a welcome boost for the growing drive to help get rid of slums by taking the profit out of them through law enforcement. If builders and realtors who sparkplugged the idea were smart, they would follow up quickly in local communities. Other rehabilitation developments:

▶ The US Savings & Loan League, convening in Chicago, announced it would ask Congress to let federally chartered associations buy cleared slum land to build single-family homes and small apartments. Endorsing fight blight programs, retiring President Charles I. Clements noted that two-thirds of S&L loans are on existing homes, which meant "several

billion dollars of savings and loan investments are in neighborhoods which would eventually become blighted if steps are not taken to prevent the blight. . . ." The League also called for a boycott of borrowers who have not kept buildings properly maintained and in conformity with health and safety laws.

▶ New Orleans, which NAHB singled out for a test demonstration of how to sell a city on rehabilitation, completed a pilot fix-up project in a dilapidated Negro neighborhood (see cuts). That done, inspectors for the city's new department of housing improvement and slum rehabilitation fanned out through four adjacent blocks. Reported Housing Boss Shelton P. Hubbard, a retired Army colonel who was once the city's street sanitation chief: "Owner response indicates most are willing to comply with the city's new minimum standards ordinance."

▶ In Chicago, 13 property owners filed a civil suit aimed squarely at one of the biggest causes of slums: illegal conversions that lead to overcrowding. They asked the court to appoint a receiver to clean up a three-story brick and stone apartment on the grounds that Landlord Arnold Schlachter had run down the neighborhood by illegally converting 12 apartments into 28. Taking note of this pace-setting case in a New York talk, HHFA Redevelopment Boss James Follin observed: "A little action like that might clean up a lot of situations everywhere."

Air-conditioning makers battle water shortages

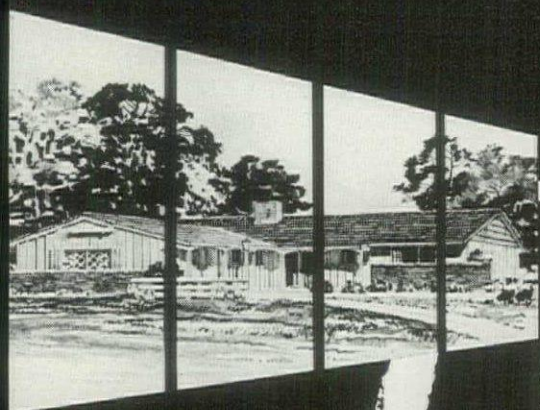
"It just doesn't make sense to crowd the greater share of a billion dollar business into a few relatively hot-weather months."

G. K. Iwashita of General Electric's air-conditioning division offered the comment at last month's big all-industry exposition in Cleveland (p. 134). He believes "an aggressive, long-term campaign" should be undertaken to persuade buyers that if winter comes, air conditioning cannot be far behind.

Popular gravy train. The industry seemed all for it. Facing real intramural competition in '54 (volume will be up, but so will the number of firms trying to board the gravy train), manufacturers had streamlined products and selling methods. New models were quieter, glossier (some of glass fiber) and took up less room. There were more attic models and cheaper heat pumps. Among selling gimmicks: manufacturer absorption of dealer inventory-financing costs; a rebate sharing plan for dealers with merchandise left on their shelves at season's end; free trips to Paris for quota-breaking dealers and their wives.

Total retail value of units made next year may run as high as \$1.7 billion, a rise of 40% over 1953's figure. Production of central units for homes, expected to reach the 50,000 mark this year, will be up to 120,000 in 1954, said experts.

Watermark. An emphasis on air-cooled conditioners was evident as manufacturers took note of painful water shortages and/or high water and sewer taxes in some areas. Chrysler's Airtemp Division announced that 80% of its residential models in '54 will be air-cooled. Others were moving the same way. Water models are fine for such relatively soggy areas as Long Island or the Carolinas, but are becoming increasingly less popular elsewhere. Other communities seem likely to follow the lead of New York, Miami Beach, Jacksonville, Wichita in restricting use of water for air conditioning. And there seemed to be no way of getting around the tax problem at all. Commented one official, summing up his company's efforts to market the water-cooled type: "High water and sewer taxes in such places as Norfolk, Va. and Chattanooga, Tenn. ruin our sales efforts."



1954

California Contemporary



Don Scholz's choice of TRACY Stainless Steel Sinks and TRACY de luxe Cabinets for the "California Contemporary" is added evidence of the superb standards established for these 1954 designs. It also confirms the judgment of the other distinguished designers and builders of modern, super-value houses who have specified Tracy equipment exclusively year after year.

Stainless Steel, as fabricated by TRACY, is the glamorous, lifetime sink and work top material—warm, lustrous, decorative. It resists stains, mars, blemishes, food acids, alcohol, burns—it cannot rust, chip, crack or craze. It cleans SO-O-O-O easily!

TRACY Cabinets are extra heavy, extra rigid—they cannot warp, weave, sag or bind. They are finished in gleaming white Dulux, the enduring baked-on finish over rust-resistant steel. Double-wall doors and drawer fronts are sound deadened—they open and close quietly—fit neatly, snugly. Adjustable shelves provide added convenience and efficient storage. All edges and corners are smoothed, rounded. Handsome die-cast handles and pulls in brilliant chrome—gay and modern.

Owners of Scholz "California Contemporary" houses will ever appreciate the daily contribution to better living made by their TRACY Kitchens.

Tracy

KITCHENS

EDGEWATER STEEL COMPANY • PITTSBURGH 30, PA.

HOUSING STATISTICS:

**building wages rising slower than in '52;
no public housing starts in October**

Average union wages for construction workers continued to rise in the third quarter, the Bureau of Labor Statistics reported after its quarterly survey of seven major trades in 85 cities. But increases occurred only in scattered areas. And thus far this year wages had climbed slower than in the corresponding '52 period. BLS said the average of all seven trades on Oct. 1 was \$2.71 an hour, or 10¢ higher than on Jan. 2. This was an increase of 4% so far this year, compared with a 6% increase in the first nine months of 1952. It estimated the national average hourly wage in each trade on Oct. 1 as follows: bricklayers, \$3.30; carpenters, \$2.83; electricians, \$3.03; painters, \$2.70; plasterers, \$3.23; plumbers, \$3.01; building laborers, \$1.88.

Plumbers won the largest increase during the July 1-Sept. 30 quarter, their average pay rising 3.5¢ an hour, or 1.2%. Carpenters and electricians advanced averages of 2.1¢ and 2.2¢ an hour respectively. The smallest boosts went to building laborers, whose average wages rose 1.3¢ an hour, or 0.7%.

MORTGAGE LENDING ACTIVITY

(investments in millions of dollars in nonfarm mortgages of \$20,000 or less by various types of lenders)

	S&L assns.	Ins. cos.	Comm. banks	Mutual saving banks	All others	TOTAL
1952						
1st 6 months	2,988	694	1,707	487	2,593	8,469
July	585	113	317	104	468	1,590
August	592	118	313	108	465	1,597
September	592	118	316	103	456	1,587
1st 9 months	4,758	1,044	2,653	803	3,983	13,244
1953						
1st 6 months	3,550	738	1,831	602	2,874	9,595
June	682	131	325	120	511	1,769
July	699 ^a	131	323	127 ^a	516	1,797 ^a
August	670	122	310	110	495	1,709
September	654	124	314	123	495	1,728
1st 9 months	5,573 ^a	1,116	2,779 ^a	963 ^a	4,398 ^a	14,820 ^a
Change: 1st 9 months of year	+17%	+7%	+5%	+20%	+10%	+12%

^a All-time high.

Source: Home Loan Bank Board

MORTGAGE MARKET QUOTATIONS

City	FHA 4 1/2's		VA 4 1/2's		FHA 4 1/4's	VA 4's
	Origi- nations	Secon- dary	Origi- nations	Secon- dary		
Boston: local	par-101	a	par-101	a	a	a
Out-of-state	a	95-97	a	95-97	93-94	91-92
Chicago	95-96 ^b	97-98	95-96 ^b	97-98	94	93
Denver	97 1/2-98	97 1/2-98	97 1/2-98	97 1/2-98	a	a
Detroit	96-97 1/2	a	96-97 1/2	a	a	a
Houston	94-96 ^c	94 1/2-98	94-96 ^c	94 1/2-98	94	92
Kansas City	96 1/2-97	96 1/2-97	96 1/2-97	96 1/2-97	a	a
New York-New Jersey	99-100	97-98	99-100	97-98	97 1/2 ^d	92-93 ^d
Philadelphia	97-98	99	96 1/2-98	98-99	a	a
Portland, Ore. ^a	98-par	98-par	98-par	98-par	a	a
San Francisco	par	98-99	par	95-96	96-97	94

^a No market. ^b After deducting 2 pt. construction fee.

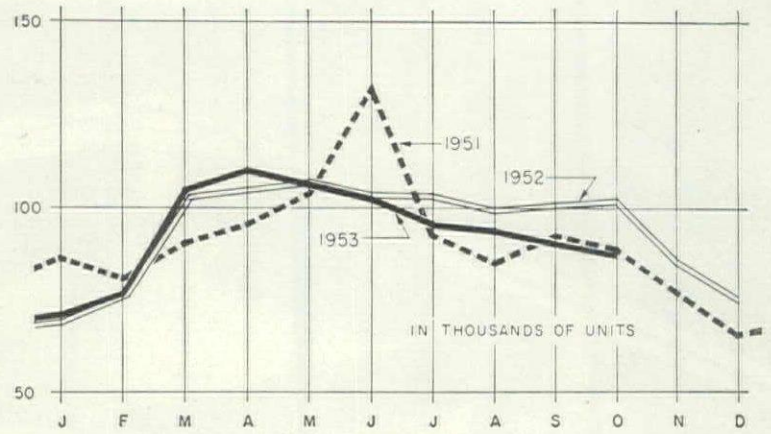
^c Includes 1% originators fee.

^d Servicing released by originator to purchasing bank.

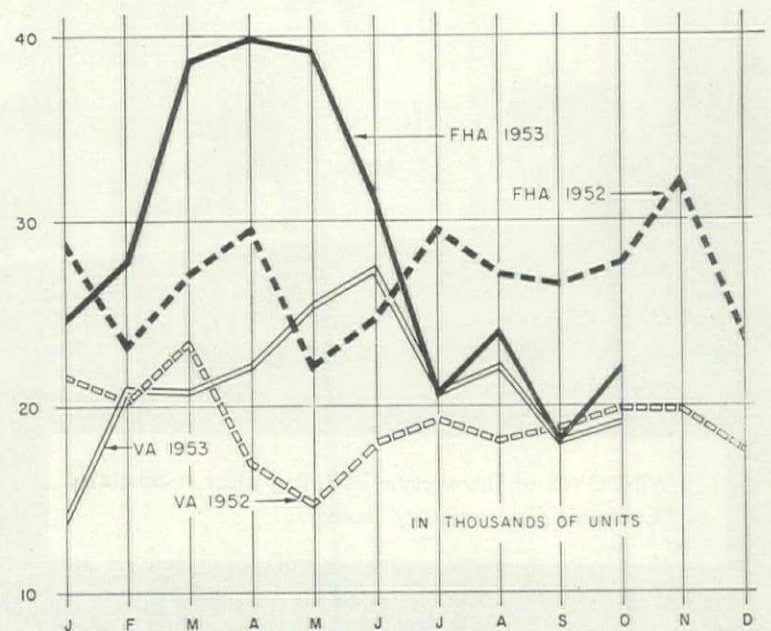
^a Also indicative of rest of Pacific Northwest.

SOURCES: Boston, Robert M. Morgan, vice pres., Boston Five Cents Savings Bank; Chicago, Maurice Pollak, vice pres., Draper & Kramer, Inc.; Denver, C. A. Bacon, vice pres., The Title Guaranty Co.; Detroit, Robert H. Pease, pres., Detroit Mortgage & Realty Co.; Houston, John F. Austin Jr., pres., T. J. Bettes Co.; Kansas City, Byron

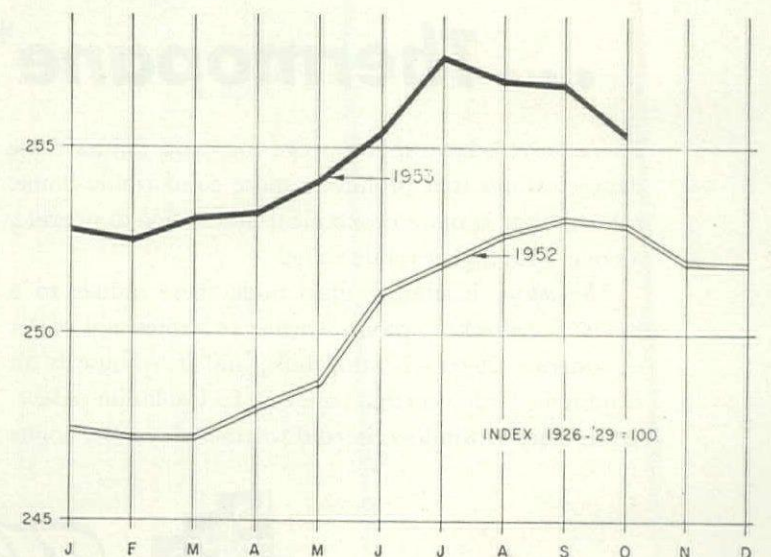
T. Shutz, pres., Herbert V. Jones & Co.; New York, John Halperin, pres., J. Halperin & Co.; Philadelphia, Robert Irving, exec. vice pres., W. A. Clarke Mortgage Co.; Portland, Franklin W. White, pres., Securities, Inc.; San Francisco, William Marcus, senior vice pres., American Trust Co.



HOUSING STARTS in October as estimated by the Bureau of Labor Statistics totaled 88,000, and for the first time in more than six years included no public housing starts. The private starts were only 1,000 below September, a less-than-seasonal drop. Seasonally adjusted to an annual rate, said BLS, starts rose to 1,006,000, from 989,000 in September.



FHA AND VA APPLICATIONS for insurance and appraisals on new housing units turned up again in October. FHA applications rose to 21,950, from 18,041 in September. FHA applications for 10 months totaled 285,552, or 10.5% ahead of Jan.-Oct., '52. VA October requests totaled 19,270, compared with 17,768 in September. For 10 months they were 11% over '52.



BUILDING COSTS for residences, as measured by E. H. Boeckh & Associates, continued to fall in October. The August peak was an index 257.4. In September, it sank to 256.4, in October to 255.3. Main reason for the 0.8% decline: a 1% drop in wholesale materials prices in the same period.



WINDOWS of *Thermopane* insulating glass in Scholz "California Contemporary" homes.

EXTRA VALUE in Scholz Homes ... *Thermopane** insulating glass

Home buyers have a sharp eye for extra values these days—features that promise a more comfortable home, a home that is more economical and easier to operate, a home with higher resale value.

Thermopane insulating glass adds these values to a home. It helps keep rooms warmer in winter and cooler in summer. It cuts heating bills, and if a house is air conditioned it lowers that cost, too. Its insulation reduces drafts close to windows in cold weather. It makes homes

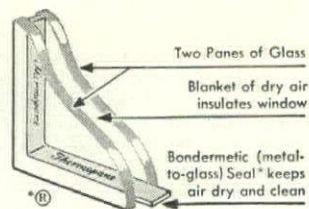
quieter by deadening outside noises. It gives home buyers all these enjoyable benefits *without the bother of storm sash*.

These are powerful sales arguments you can use. And remember that *Thermopane* is the most advertised, most-wanted double glazing. It has been advertised nationally for ten years. You can use it and sell it with confidence. For more information on *Thermopane*, write to Libbey-Owens-Ford Glass Company, 9123 Nicholas Bldg., Toledo 3, Ohio.

*®



Thermopane
INSULATING GLASS



BUILDERS AT WORK:

An Omaha hit house

Last spring, the best-selling house in Omaha was Builder Don Decker's 1,000 sq. ft., three-bedroom and carport concrete-block model at \$10,195 to \$10,495 including a \$1,500 lot (H&H, Apr. '53). Decker originally took orders for 90 units, later expanded production to reach a total of 154 this year. More phenomenal: in October Decker opened a new model in Omaha and already has presold 174 for delivery in 1954, more than his entire 1953 production. Forty-three contracts are for erection in Atlantic, Iowa, from where purchasers had to drive 55 miles each way to see the model. Prices for '54 are slightly higher: \$10,450 to \$10,850.

No FHA—no FHA rules

Lack of FHA financing can be a good thing in some ways. At least, Homebuilder Harold D. Sarshik of the 20th Century Construction Co. in Haddonfield, N.J. felt that way about his development of 85 air-conditioned, brick, three-bedroom ranch houses (\$14,990-\$16,990) that sold out this summer. Said Sarshik: "One feature we used was plaster on the underside of the overhang. This is more attractive than the older method of using plywood with the joints and nailheads always conspicuous. Of course, the FHA would never approve this, but we used conventional financing and so were able to do things a little out of the ordinary." To eliminate air-conditioning noise from the house, Sarshik put the compressor and condenser in a storage shed under the carport. The location let him use a lower-operating-expense air-cooled condenser.

\$19 million Florida land deal

Forty years ago, Chicago attorney Arthur T. Galt bought 2,466 acres of land with a mile of ocean frontage just north of Fort Lauderdale, Fla. Over the years he rejected scores of offers while he waited, he said last year, "for the right developers." Last month, 78-year-old Galt sold the tract for \$19.4 million, nearly \$8,000 an acre, to Fort Lauderdale Developers James S. Hunt and Stephen A. Calder. They planned to subdivide it for luxury hotels, apartments and homes in a development similar to their \$50 million Coral Ridge project nearing completion in Ft. Lauderdale.

Fresh sales techniques

South Bend, Ind. Homebuilder Andy Place believes in paying attention to the prospective man of the house, as well as the woman. In the bathrooms of his model homes he puts a sponge-rubber seat cover over the toilet, an over-the-shoulder light behind it, and beside it a masculine-looking fishing creel filled with popular magazines. . . . A successful merchandising idea used by Denver Homebuilder Lou Carey is to offer the prospective buyer a free dinner the day he moves in.

What the customers want

Homebuilder Jack Sargent of Topeka, who takes advantage of the captive audience inspecting his contemporary houses by asking each visitor to check off a card telling how he likes its features, was finding overwhelming acceptance of such modern design trends as rear living rooms, beamed ceilings and patios. Results, as tabulated below for one week at a model on 70' and 80' lots, help Sargent plan changes in later models:

Do you like the:	Yes	No	
Cypress	65%	27%	
Gravel roof	77%	16%	
Carport	67%	27%	
High windows	76%	21%	
Living room in rear	87%	9%	
Entry hall	91%	4%	
Bath-laundry	69%	29%	
Is there sufficient:			
Inside storage	82%	10%	
Outside storage	77%	12%	
Lot area	75%	8%	
Would you prefer:			
Garage	54% . . . or carport	36%	
Porch	34% . . . or patio	55%	
Beam ceilings	52% . . . or conventional	35%	
Floors carpeted	54% . . . or wood	27%	
		or cork	28%
Contemporary design	57% . . . or conventional	17%	
Yard sodded	61% . . . or graded	22%	
More glass	17%		

Exceptional markets

Private housing starts through October this year totaled 915,500, which BLS described as "slightly more than in January-October, 1952, and above the total for any comparable period except in the boom year 1950." Added BLS: "Private activity exceeded 1952 volume in all regions except the southern and the west north central." But while private starts nationwide were only a slim 900 (or 0.1%) ahead of a year ago, Chicago metropolitan area starts were up a fat 19%. Principal reasons: rent decontrol led many people to buy



House apes office building, gets all-aluminum exterior

Possibilities of an aluminum house were demonstrated in this home with an all-aluminum exterior erected for R. A. Childers, Houston, Tex., aluminum awning manufacturer. The second-story section (rear) was sheathed with baked enamel aluminum siding over insulation

to escape higher rents; increasing population included a nonwhite in-migration averaging about 2,000 a month, prompting residents of changing neighborhoods to look elsewhere for houses; much of the local market traditionally uses conventional financing, and was not seriously affected by scarcity of FHA and VA financing; under its new director, James C. Moreland, the area FHA office was liberalizing underwriting standards and encouraging an increase in FHA activity (H&H, Nov. '53, News); the market was sustained by a high level of employment in the area.

In San Diego, homebuilding set an all-time record but faced sharp contraction as the city's defense housing program passed its peak. In the first three quarters of this year, a record 7,856 new units were completed. On Oct. 1, 5,000 more were under construction. Permits for the July-September quarter were a record 2,982, but this was the big turning point. Only 388 permits were issued in September, the smallest monthly total since Dec., '51. The San Diego Building Contractors Assn. said defense housing tract builders were bearing the brunt of the drop. Custom builders on the other hand may even experience a business pickup—"there has been some evidence of an increase in demand from buyers who want the custom-built house and remodeling and expansion jobs."

Experienced help wanted

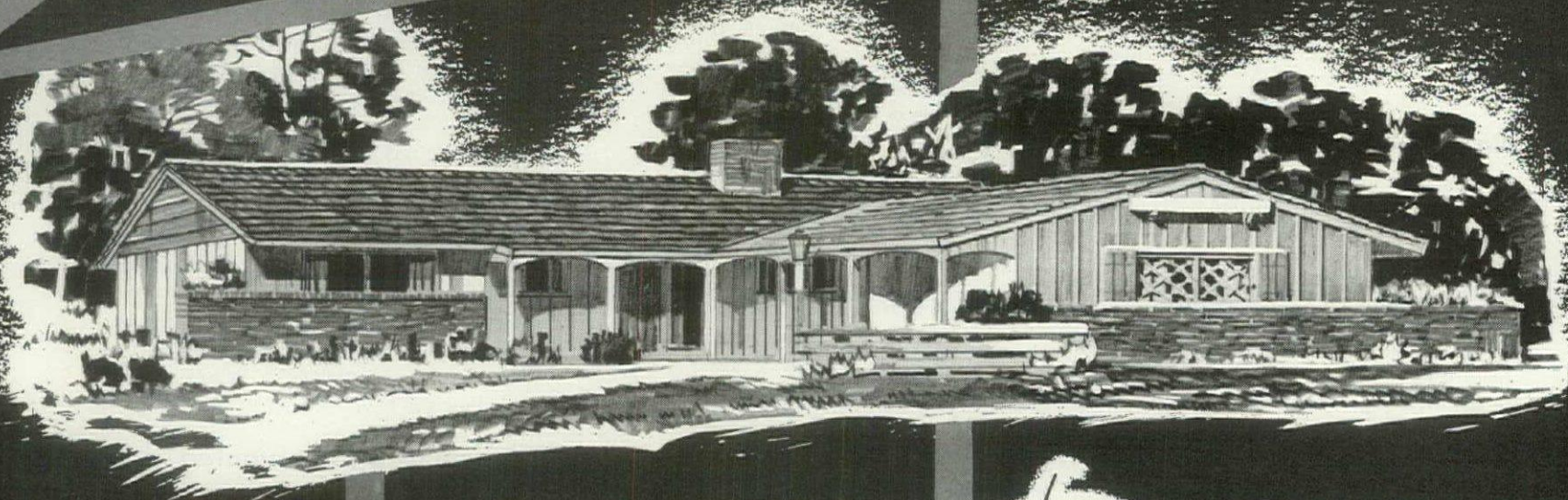
Great Lakes Carbon Corp. announced plans last month for a new city of 11,000 homes on the Palos Verdes Peninsula in Los Angeles County. It will purchase a 1.5-acre diatomaceous earth quarry and 6,800 acres of adjacent peninsula property that it will develop over five to ten years as a planned community with \$12,000 to \$25,000 houses, shopping centers, schools and parks. Architect Victor Gruen made preliminary master plans for Great Lakes Carbon, but a company spokesman said the firm would steer clear of homebuilding itself, instead would make deals with builders who would have to conform with the master plan.

Littler

don scholz

California Contemporary

for 1954

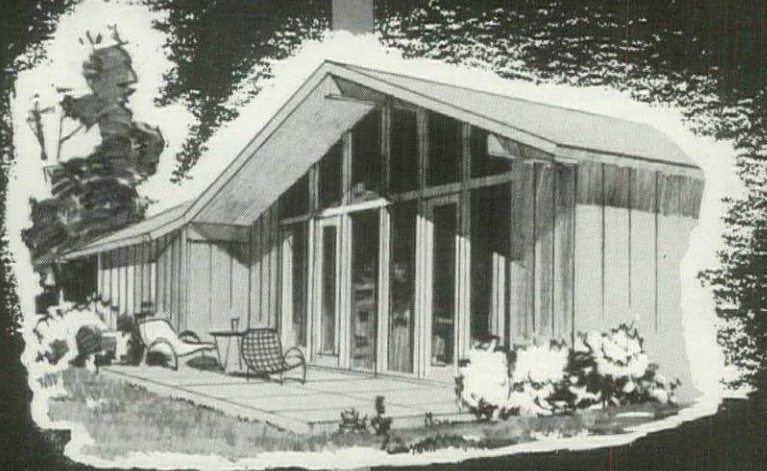


featuring



Paints

in striking ranch colors



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When two nationally famous names in home building, SCHOLZ and GLIDDEN join hands, they bring you the ultimate in contemporary design . . . the most advanced color styling paced to today's new concept of community color harmony!

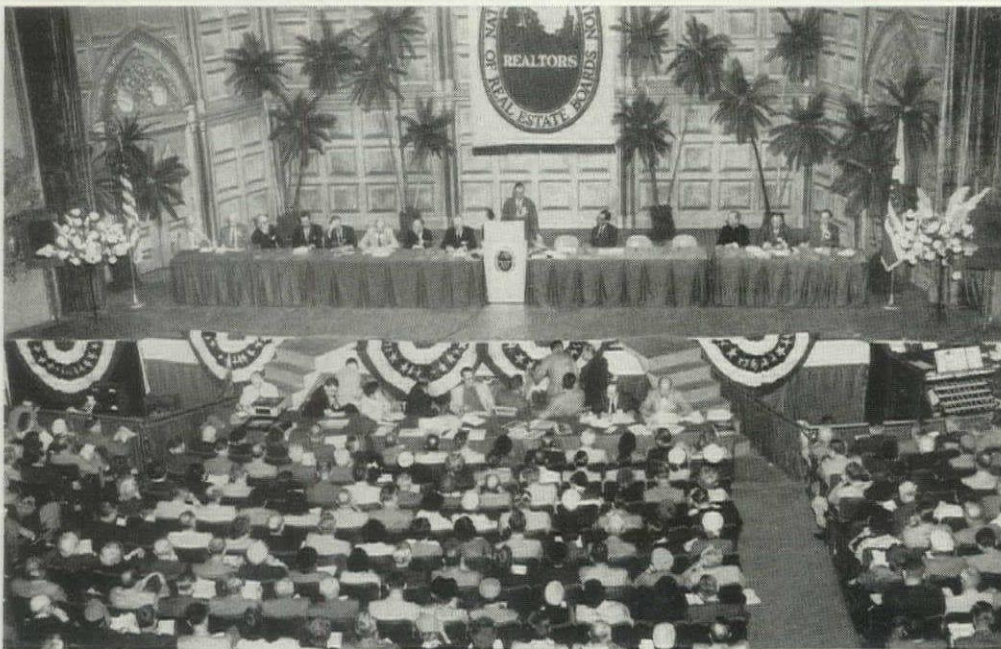
For three quarters of a century home owners have relied on GLIDDEN PAINTS for maximum durability and protection. Now research provides years of extra protection for America's modern homes through new, improved, precision-balanced paint formulations.

SCHOLZ Home Packages come complete in striking ranch colors developed by GLIDDEN . . . including California Coral, Olde Ranch Red, Palm Springs Geen, Sandswept Beige-Brown, Sunrise Yellow and Driftwood Grey.

See the SCHOLZ HOMES nearest you, painted with GLIDDEN ENDURANCE HOUSE PAINT in Contemporary Ranch colors.

THE GLIDDEN COMPANY
11001 Madison Avenue
Cleveland 2, Ohio

Photos: Bob Forester; Dean Vannice



BUILD AMERICA BETTER SESSION HEARD PLANS FOR INTENSIFIED REHABILITATION DRIVE

Realtors' convention

- ▶ Plan to provide US funds for neighborhood conservation and rehabilitation is hinted at Los Angeles meeting
- ▶ Rent assistance endorsement and HHF Administrator's dodging suggest public housing policy switch

Members of the National Association of Real Estate Boards at their 46th annual convention in Los Angeles last month were given a guarded, purposely obscure outline of two major new policies being considered seriously by the Eisenhower administration. These would: **1.** provide federal funds for local slum prevention and neighborhood rehabilitation programs, and **2.** recast the present federal public housing program into a form more acceptable to its realtor and homebuilder opponents.

In deference to the President's advisory committee on housing, which would not write its report until later this month, no one felt free to describe the proposals in plain language for the record 5,531 realtors at the meeting. Instead, speakers made only piecemeal reference to them. Fitted together, the story went like this:

- ▶ The Title I urban redevelopment and slum clearance program would be substantially revamped and expanded to include rehabilitation and slum prevention. Ikemen apparently will ask Congress to authorize use of Title I funds to help cities finance neighborhood conservation and rehabilitation projects. Their idea: allot every city some money to help it save itself, but let the city make its own decision whether it wants to spend the money for public housing, for parking garages or other types of city improvements, or for conservation and rehabilitation projects in residential areas that could still be saved from blight.
- ▶ The goal in public housing apparently will be a partial switch to locally administered but federally subsidized rent payments for low-income families who need housing assistance. Objective: to curtail funds for projects, disperse tenants into single-family public housing that they could ultimately buy. A small construction program will probably be retained, so it could be expanded to make jobs in a recession.

- ▶ The housing advisers were also likely to urge 1) liberalized FHA financing to facilitate major repairs and sales of existing homes in approved conservation areas in cities pushing vigorous rehabilitation programs, and 2) fast depreciation tax incentives to encourage private reconstruction in conservation areas.

Title I aid foreseen. At the convention's big Build America Better session on rehabilitation problems, James W. Follin, director of HHFA's slum clearance and urban redevelopment, made these revealing remarks (though he twice declared they were only "personal opinions," because the advisory committee's studies were still under way):

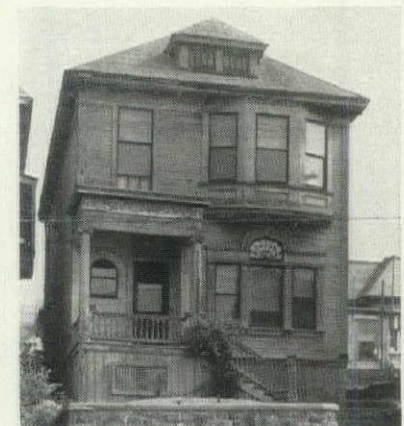
"Fortunately not all blight and obsolescence needs surgery. Much will respond to medical treatment. Rehabilitation and conservation . . . must include improvements of the neighborhood to supply missing amenities. . . . If Title I is to be continued, and that is a \$64 question, your speaker personally favors



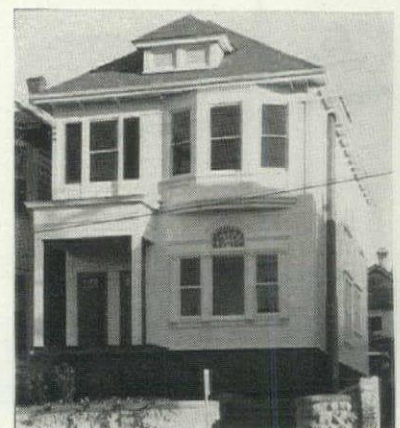
CERTIFICATE of appreciation from the Build America Better Council was presented to Gilbert E. Morris (l), superintendent of building, for leadership in Los Angeles' attack on slums. Making the presentation, Council Chairman Fritz Burns, a Los Angeleno, urged a new slogan for the city: "No slums by '60."



TROPHY for public service awarded by NAREB's States' Council was presented by Singer Ginny Simms to Jules F. Fisher and President Hugh C. Michels (r) for Chicago Real Estate Board's sponsorship of new Illinois rehabilitation laws.



DEMONSTRATION of rehabilitation was provided for realtors by Fritz Burns, who put on display, about a mile from convention a 65-year-old house (before and nearly finished pictures) he started to rehabilitate less than two weeks earlier. Next to this he exhibited a similar house (not pictured) still loaded with flimsy partitions, hazardous wiring and other code violations.



donald scholz

California Contemporary

meets

highest standards of

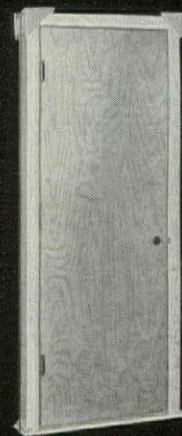
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HASKO Doors and Units are usually found in every home, institution, and public building . . . wherever high standards of beauty, design and quality are important. Builders find that their needs for economy, ease of installation and trouble-free service are anticipated in the design, production and distribution of HASKO Doors and Units. In the "California Contemporary" home designed by Donald Scholz, Hasko delivers these values.

Haskelite Manufacturing Corporation Grand Rapids 2, Michigan



Photos: Bob Forester

extending financial assistance to well-planned rehabilitation projects that conform to the general city plan and provide renovation both of the structures and the neighborhood."

Did HHFA Administrator Albert M. Cole agree? His statement on rehabilitation to the convention hinted that he did. Said Cole: "I believe there is also an assisting role the federal government can properly play. One of the questions we are studying is how the instruments of government can be adapted, and new ones forged, if need be, to help explore and develop more effective measures for conserving and rehabilitating the homes we have that are worth saving."

Homebuilder Fritz Burns, chairman of the Build America Better council, also favored tapping HHFA's \$500 million authorization for Title I redevelopment grants. He urged making it available for "all-size operations" so a city could undertake a lot of little projects on many blocks instead of a few big ones in limited areas. He specifically recommended use of this federal money to help cities finance condemnation and demolition of small, cancerous "slum pockets"—perhaps two or three houses on one block, a few more on another—which would be replaced by small parks or amenities that would upgrade the area again.

Public rents. One tip-off on the new public housing policy contemplated by Ikemen was NAREB's approval of rent assistance for families needing housing aid—a plan already backed by homebuilders. The policy turned up without the customary advance discussion in the annual NAREB policy statement. Said the realtors: "We will encourage public policies which will help to provide safe and sanitary housing for families whose income is inadequate through support of programs of direct local welfare rental assistance. . . ." (NAREB adopted a similar statement in 1943, but since then has fought to kill public housing without proposing a substitute.)

A still better tip-off: HHFA Administrator Cole admitted candidly that he was "dodging and ducking" when he refused to tell newsmen if he meant public housing when he told public housers in Milwaukee (AF, Oct. '53, News) and the realtors in Los Angeles that he favored "federal" assistance in the "low-income housing field." This served to strengthen the belief that Cole still opposed the present type of public housing, perhaps leaned toward rent assistance.

Cole twice refused to tell newsmen whether he approved this year's NAREB proposal for the sale of all existing public housing to private owners. Twice he replied: "I don't believe that is going to happen." He did say it would be inconsistent for the government to adopt another NAREB proposal, to abolish income-tax exemption on public housing bonds, but at the same time grant fast tax write-off privileges to neighborhood conservation projects. He disclosed that HHFA is studying whether removing the tax exemption on public housing bonds might actually increase the burden on the Treasury. The problem: would the government have to pay higher

subsidies because of the higher interest rates that taxable bonds would require?

Boost for co-ops. An important housing program for central cities began to take shape at the convention. New York Realtor Robert W. Dowling outlined a plan to encourage construction of more multistory cooperative apartments. His objective: to protect individuals in a cooperative against losses when other cooperators defaulted. His solution: sell individual apartments on separate deeds and mortgages, the same as row houses. Only maintenance and public area expenses would be shared cooperatively, so the individual owner could not be foreclosed except for defaulting on his own mortgage.

Dowling said he cleared one of the biggest hurdles by getting the Home Title Insurance Co. of New York to agree to insure titles on deeds for individual apartments. Clyde Powell, assistant FHA commissioner in charge of cooperatives, who attended the committee meeting where Dowling explained his plan, commented that approval by mortgage lenders might still be the biggest obstacle to the plan. Next move: the committee, of which Dowling is chairman, will invite representatives of mortgage and title organizations to meet in Washington next month. There, he hopes to enlist their support and begin drafting whatever legislation might be needed for the plan.

Rosy outlook. The realtors were optimistic about new housing prospects for 1954. At a press conference President Charles B. Shattuck estimated there is now about a 3% housing vacancy rate, contrasted with a "normal" vacancy of 5%. On that basis, he said, he "heartily disagrees with anyone who says we have too much housing." He said he was undisturbed by a recent Atlanta Federal Reserve Bank suggestion that new housing was reaching the saturation point.

One recent suggestion by NAREB Executive Vice President Herbert U. Nelson died a quiet death. Nelson had proposed (H&H, Oct. '53, News) that the government allow home owners to deduct \$6,000 of the equity payments on their houses from their taxable income over a period of from 1 to 12 years. President Shattuck said there was "no question but that it would be a special concession for housing. . . . could only be justified if the government accepted the idea" home ownership deserved encouragement by special privilege.



NEW PRESIDENT Ronald J. Chinnock (l) was congratulated by outgoing President Charles B. Shattuck. Chinnock, 50, is a partner in the big Chicago realty firm of Farr, Chinnock & Sampson, a past president of the Illinois Association of Real Estate Boards and the Chicago Real Estate Board. His specialty is commercial and industrial brokerage. He is currently helping launch the ten-story, 250,000 sq. ft. Sinclair building in Chicago being built by John W. Galbreath, NAREB's 1944 president.

Son of a Grand Rapids boilermaker, Chinnock graduated from Northwestern University in 1927, joined Farr & Co. (forerunner of his present firm) the next year. He served as an apprentice seaman in World War I (by fudging about his age—15 at the time), rejoined in 1942 and emerged as the Navy's youngest non-Annapolis captain. As an administrative officer under Secretary Forrestal, he was Navy's top real estate man, established floor-area space standards, established night shifts to avoid building more office space.

A poised, forceful speaker, Chinnock stands erect and impressive. His dark, bushy hair has begun to recede; his face is beginning to be creased by lines of his warm smile. He describes his home as "one of the oldest and largest" in suburban Evanston. He bought it a year ago at auction, overhauled it completely. Cracks Chinnock: "Rehabilitation begins at home." His hobby: raising children, with the aid of his wife, Mary, who is so beautiful she is likely to be taken for someone's daughter instead of the mother of three boys and two girls.

COOPERATIVE FINANCING plan outlined to a NAREB committee by Robert W. Dowling would keep defaulting neighbors from engulfing other tenants. Herb Nelson, NAREB's veteran executive vice president (right of Dowling), called the proposal a brilliant idea.



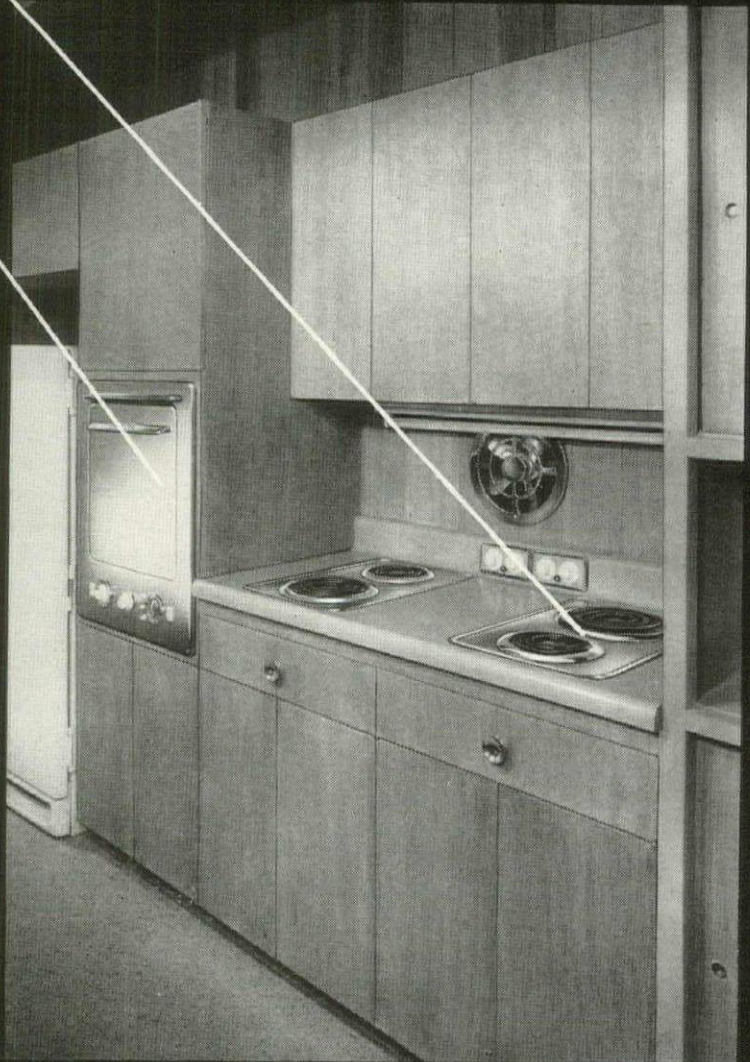
1954
SCHOLZ

California Contemporary

equipped with an



Custom-Bilt
Electric Range



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601 W. Cleveland Ave., Milwaukee 15, Wis.

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For a kitchen designed to look "contemporary" ten, fifteen or twenty years from now . . . specify L&H Custom-Bilt Electric Range Components.

Designed and built by one of America's pioneer electric range manufacturers, these versatile units make it easy to add a touch of tomorrow to today's kitchens.

PEOPLE: O'Harrow succeeds Blucher as planning society director; Gropius to receive coveted Sao Paulo prize

A new skipper will take the helm of the American Society of Planning Officials January 1. He is **Dennis O'Harrow**, 45-year old Hoosier who has been understudying ASPO's Executive Director **Walter Blucher**

Fran Byrne



BLUCHER



O'HARROW

for the past year. Blucher, 52, was curtailing his activity at his own suggestion, but will remain as a special consultant to ASPO. He expects to spend nearly half his time on its planning advisory service and editing *Zoning Digest*, a monthly report of legal decisions affecting zoning. Blucher, for 15 years a Detroit city planner, helped to organize ASPO in 1934 and has headed it since. His red-haired successor came to ASPO in 1948 from Indianapolis where he was, successively, a highway engineer, director of research for the Indiana State Planning Board and a planning consultant.

Architect **Walter Gropius**, 70, founder of the famed Bauhaus who retired last year as chairman of Harvard's school of architecture, became the second man to win the biennial Sao Paulo prize, regarded as the Nobel prize of architecture. The award, worth about \$7,800 (compared to \$33,840 for a Nobel prize), will be made by the Andrea and Virginia Mararazzo Foundation in January when Sao Paulo holds its second international exhibition of architecture. It is presented to the architect whose activity is deemed the most important at present. The first award, in 1951, went to **Le Corbusier**.

In a Cedar Rapids talk, **T. H. Robsjohn-Gibbings**, designer, author (*Goodbye, Mr. Chippendale, Mona Lisa's Mustache*) and interior decorator, let off some steam on a perennial topic, "Traditional or Contemporary." Sample jets:

▶ The counter between kitchen and dining room is a "diabolical thing." "The children sit on stools and the parents appear to them, behind the counter, as soda jerks."

▶ "While we are out to get rid of things, we ought to start with the open plan. . . . You produce a confusion of noises—the children in one part of the house, with the racket of the vacuum cleaner in another part of the house at the same time."

▶ "There are things that can be done to a house to make it bad, but to make it worse,

have a picture window. It is a magnificent way to make it impossible for the people inside to have one moment of privacy or comfort. . . . And at night you have the reflected phantoms on the pane."

CONGRATULATIONS: To **James R. Bemis**, president of the Southern Pine Assn. and the Ozan Lumber Co., Prescott, Ark., who has been elected 1954 president of the National Lumber Manufacturers Assn., succeeding **Ralph R. Macartney**; to **Lindell Peterson**, president of the Chicago Mortgage Investment Co., who received the 1953 distinguished service award of the Mortgage Bankers Assn. at its Miami Beach convention (p. 116) for his work as head of MBA's educational program; to Philadelphia Realtor **Roland R. Randall**, former president of the Philadelphia Housing Authority and the Society of Industrial Realtors, who was elected the first president of NAREB's new Society of Real Estate Counselors—realtors offering realty advice and consultation service independent

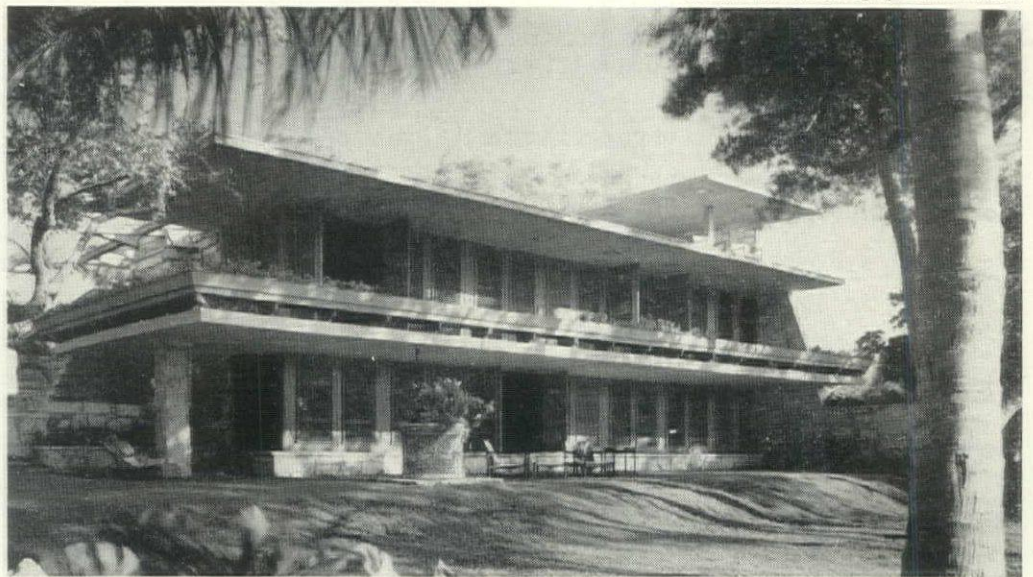


BEMIS

of brokerage, appraisal or management services; to **Grover A. Godfrey**, whose National Home Shows, Inc. had grown so big (it stages more than 40 shows a year) that he resigned as executive vice president of the Dallas Home Builders' Assn. to devote full time to show business; to **W. Howes Meade**, former Congressman from Kentucky (1947-49), who was appointed state FHHA director for Kentucky, succeeding **Patterson B. Walker**, who resigned to enter the mortgage business.

DIED: **Mark Lansburgh**, 64, Washington, D. C. department store executive and graduate though, nonpracticing architect, chairman of the District of Columbia Redevelopment Land Agency since 1947, Oct. 29 in Washington; **Charles A. Mullenix**, 66, president of the Mortgage Bankers Assn. of America in 1943, the National Association of Apartment House Owners in 1933-34, Cleveland realtor and appraiser, Nov. 8 in Rocky River, Ohio; **Wright L. Felt**, 60, HHFA area representative in Los Angeles, Nov. 16 in Los Angeles when struck by a streetcar; **Raymond D. Evans**, 58, Washington, D. C. housing development corporation president, second vice president of the Washington Real Estate Board, Nov. 16 in Los Angeles while attending the NAREB convention; **Arthur W. Gelston**, 69, executive secretary of the Brooklyn Real Estate Board, member of the advisory committee of New York state's real estate license division, Nov. 19 in Brooklyn.

© Ezra Stoller, Courtesy of House Beautiful



A trend-making Florida house that FHA rejected

About 150 mortgage bankers took time out from their Miami Beach convention last month (p. 116) to look at this three-tiered concrete and masonry home that Architect Alfred Browning Parker built for himself at nearby Coral Gables. So graciously did Parker's house fit into its sloping site overlooking Biscayne Bay, so distinctive was its design that "House Beautiful" had chosen it as Pacesetter of the year. Yet Parker told his visitors that FHA rejected it "after a brief inspection of the preliminary plans." Moreover, "after many attempts to secure mortgage money . . . I was finally granted a loan of \$10,000 after I had completed construction and with the condition that I put into the mortgage all seven

lots down to the bay (715') and take out an insurance policy on my life to the full extent of the loan." The house cost some \$30,000—plus thousands of hours of Parker's own labor.

More sad than angry, Parker hoped his house would become an object lesson for lenders who cling to old-fashioned notions of design. He handed the visitors a printed note which said (in part): "If a building is planned with intelligent reasons for the manifold problems involved, if the arrangement, the materials, the construction make sense; and in addition, if good taste is apparent in the proportions, textures, colors, etc., certainly we must have financing agencies with discernment to make those plans a reality."

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Says W. J. Chambers
Texas

Our model G-P Ripplewood installation at *Modernaire Homes* has received outstanding interest from homeowners, other contractors and commercial interests. It is a great sales force that is mighty profitable for us.



Says Haskel Gordon
Long Island

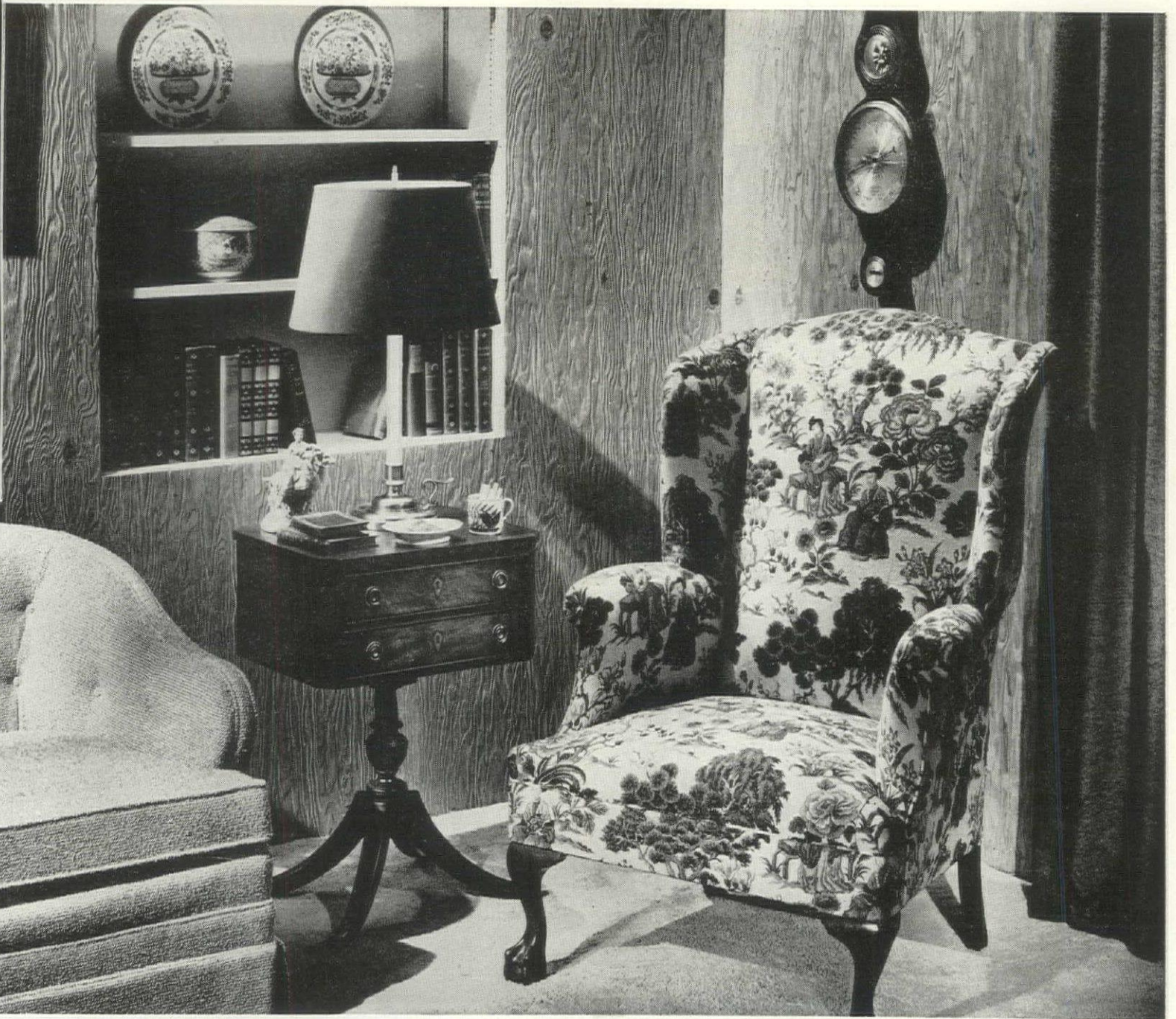
G-P Ripplewood added extra value and strong sales appeal to our *Old Oaks at Syosset* model home.



Says Herbert J. Kendall
New Jersey

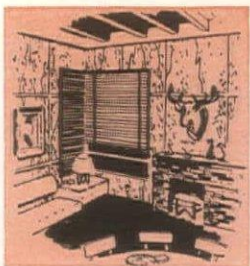
We have found G-P Ripplewood to be a definite sales advantage in our *Laurel Park Homes* selling at \$10,900. Our first 170 dwellings sold out and we plan to use Ripplewood in 400 additional homes.



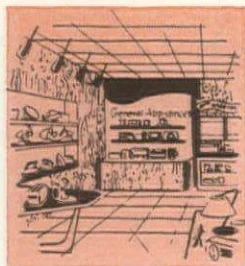


G-P Ripplewood Knotty adds mellow warmth to this contemporary living room.

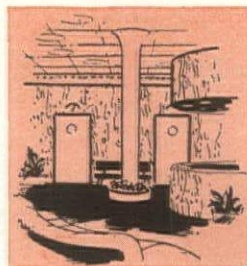
UPGRADE YOUR HOUSES WITH G-P RIPPLEWOOD...IT HAS THE EYE APPEAL AND BUY APPEAL THAT SELLS



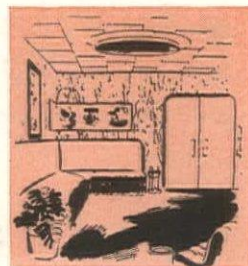
G-P Ripplewood extends a warm welcome from the mellow interior of this traditional setting.



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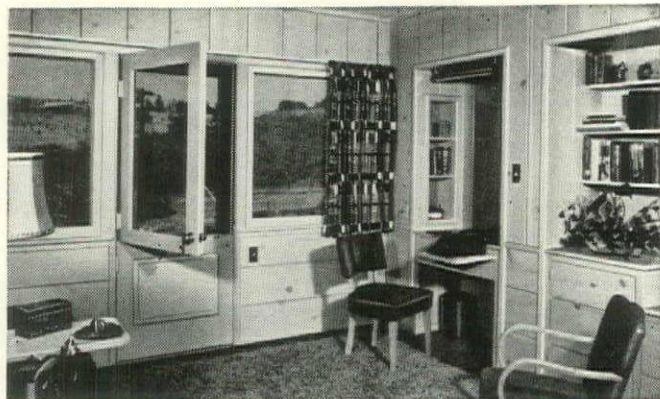
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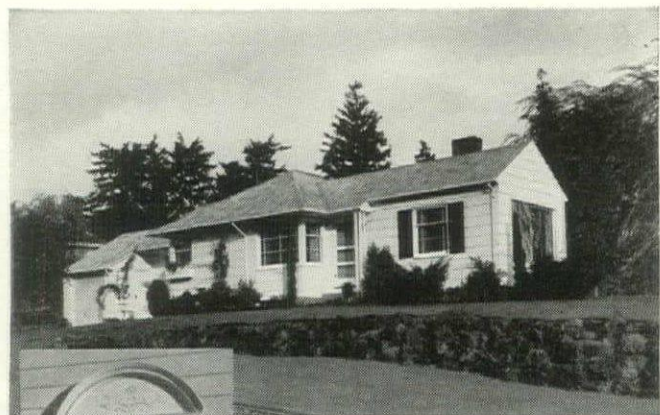
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MODERN MORTGAGES

A monthly report on important developments in the modernization of mortgage credit, with particular emphasis on the expanding potential of the package mortgage, the open-end mortgage and the expandable mortgage.

Open end in Massachusetts: lessons for lenders

While some lawyers doubt its legality, many lenders are making it work

"The Home Loan Bank of Boston," says its president, Herbert N. Faulkner, "will accept open-end mortgages as good collateral wherever attorneys for individual federal savings and loan associations approve them."

Despite such high-placed faith in the legality of the open end, many Massachusetts lenders will not use it because, as one lending official puts it, "Many hard-headed New England lawyers doubt its legality."

Many mortgage lenders tacitly agree with W. E. Greene, treasurer of the Williamstown Savings Bank: "We would like to use it very much and would if our lawyers would assure us we could."

Case study. Massachusetts makes an excellent case study of open-end progress and acceptance because all the points brought into focus by doubting lawyers are the ones emphasized whenever and wherever the open end is disputed.

On the Massachusetts books is a statute that limits additional advances to repairs, replacements, taxes and other municipal liens. This "flexible or adjustable mortgage" law is really a restatement of the common law except that it ties lenders' hands tighter instead of freeing them. Many Massachusetts lawyers doubt the constitutionality of the statute.* As a result, Bay State lenders, who rarely use title insurance and rely on legal opinion on real estate matters, have geared their approach to the open end roughly in proportion to the bulk of conservative legal opinion.

Low gear. L. S. Finger, vice president of the Andover Savings Bank, Andover, says: "Since under the law optional readvances can only be made for repairs, replacements and taxes, there is liability in determining that the funds are used for these—and no other—purposes. So, most of us are not inclined to make such advances."

Other lenders cite legal objections to the first-lien status of optional additional advances, think they would not take priority. Yet even under common law, points out Horace Russell, legal authority on the open end: "It is clear that first mortgages properly drafted will secure readvances and remain as first liens until the mortgages are canceled."

Some lenders object to open ending because they are advised that a title search is necessary. Yet the scholarly and exhaustive study published by the US Savings & Loan League† points out that the great weight of judicial authority in the common law is that once an open-end mortgage is recorded, it is notice to the world of a contractual obligation and if a subsequent purchaser fails to take notice, he is not entitled to protection.

Second gear. Several lending institutions use an "amendment of mortgage" certificate (modification agreement), suggested by the Savings Banks Association of Massachusetts, to circumvent legal distaste for the statute. Lenders who use this form find the cost of modifying mortgages to grant additional advances is about as economical as by advancing through standard open-end clauses.

What's in a name? Maynard L. Norris, treasurer of the Franklin Savings Bank, Boston, which uses this amendment, says: "Our conveyances advise us that the amended mortgage certificate is perfectly valid and requires no enabling legislation [like that on the books]. Our mortgage form is unchanged, contains no open-end clause. A more fitting and specific name for this type of thing would be 'additional advance' or 'increased' mortgage rather than 'open end.'"

* *The Mortgage Committee of the Savings Banks Association of Massachusetts is now processing a test case.*

† *H&H, Sept. '52.*

Such amendments are recorded scotching the idea that only original recorded amounts are protected against intervening liens. The Boston Five Cents Savings Bank has still another approach, recasts an entire mortgage "for a flat rate of \$21, regardless of the size of additional amounts," says Vice President R. M. Morgan.

High gear. Several savings banks, many savings and loan associations follow respectable legal opinion that the mortgagee is protected when using an open-end mortgage. This group views the open end almost solely as a business risk, relies on the common and statutory law for legal protection more in keeping with the statutory requirements on lending than as a protection against loss.

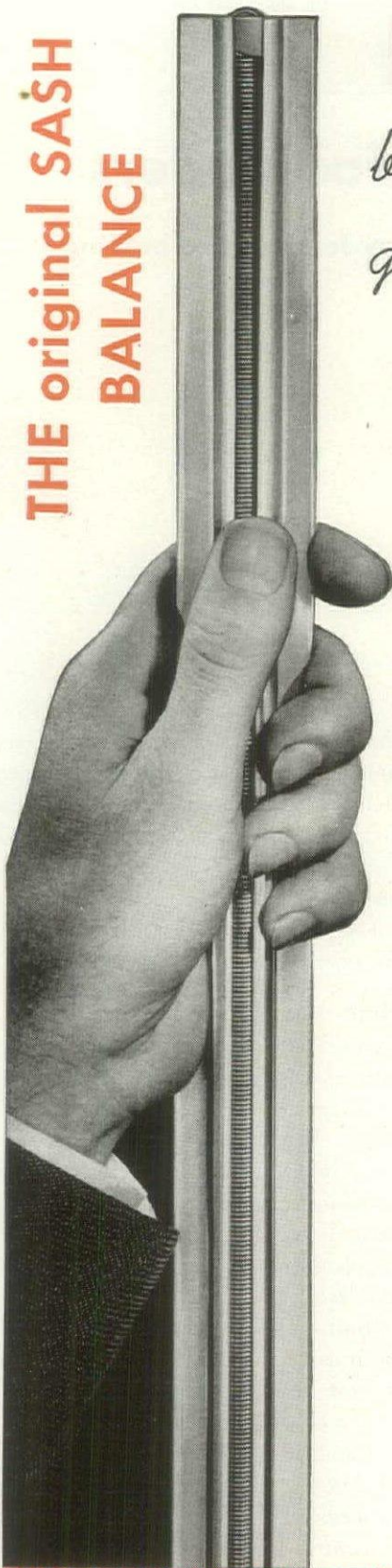
Boston's Home Owners Federal S&L has been using the open end for years; hardly a week goes by that it does not make several such advances.

Cambridge's Cooperative Bank, Cambridge, has had very satisfactory home improvement loan experience. Says Samuel Barron Jr., executive vice president: "We find it helpful to many of our mortgagors."

Marblehead Savings Bank, Marblehead, makes optional readvances on conventional and G.I. mortgages.

Inherent in the successful use of the open end is quick service with low cost to the borrower. Charges by institutions using the open end range from nothing at all on small loans up to \$35 on sums of several thousand dollars. Most institutions do not bother with title searches at all, thus dispensing with this cost entirely.

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EVENTS

University of Houston lectures—Mies van der Rohe, Jan. 7; Buckminster Fuller, Feb. 11; Alfred Roth, Apr. 1; Eero Saarinen, May 6.

National Constructors Assn., annual convention, Jan. 12-14 at the Hotel Commodore, New York City.

The "Architects' Trek 'Round South America," latest of several tours open to architects and their families, will start on Jan. 19 and in a month visit Peru, Chile, Argentina, Uruguay and Brazil. Trek leader is Harold R. Sleeper, AIA, of New York; those interested in joining the trip should address the US Travel Agency, 807 15th St. N.W., Washington 5, D.C.

National Assn. of Home Builders, tenth anniversary convention and building products exposition, Jan. 17-21 at the Conrad Hilton and Sherman Hotels, Chicago.

Mason Contractors Assn. of America, annual convention and exposition, Jan. 24-27 at the Sherman Hotel, Chicago.

Prestressed concrete conference, Jan. 28-29, at the University of Toronto. For details address Prof. C. F. Morrison, Civil Engineering Dept.

Mortgage Bankers Assn., Midwestern mortgage conference, Feb. 25-26 at the Conrad Hilton Hotel, Chicago. Eastern mortgage conference, Apr. 12-13, at the Commodore Hotel, New York. Forty-first annual convention, Sept. 27-30 at the Conrad Hilton Hotel, Chicago.

Associated General Contractors, annual convention, Mar. 1-4 at the Statler Hotel, Los Angeles.

Southern Homes Show, homebuilding and house furnishings exposition, Mar. 22-26 in Greenville, S.C. For details address Bertha M. Green, Textile Hall Corp., P.O. Box 1323, Greenville, S.C.

Air Pollution Control Assn., annual meeting, May 3-5 in Chattanooga, Tenn.

National Savings & Loan League, annual convention, May 9-14, at the Jung Hotel, New Orleans.

Architectural League—a series of evening conferences on "The Impact of Science and Materialism on Art Today," being held at monthly intervals on second Thursdays through April. For program address Architectural League of N.Y., 115 E. 40th St., New York City.

Competition to encourage design and manufacture of new kinds of children's playground equipment of a sculptural nature. Prizes total \$2,000 plus royalties. Entries, consisting of models and drawings, must be postmarked not later than Jan. 15, 1954. For entry blanks and program address Miss Daniel, Museum of Modern Art, 11 W. 53rd St., New York.

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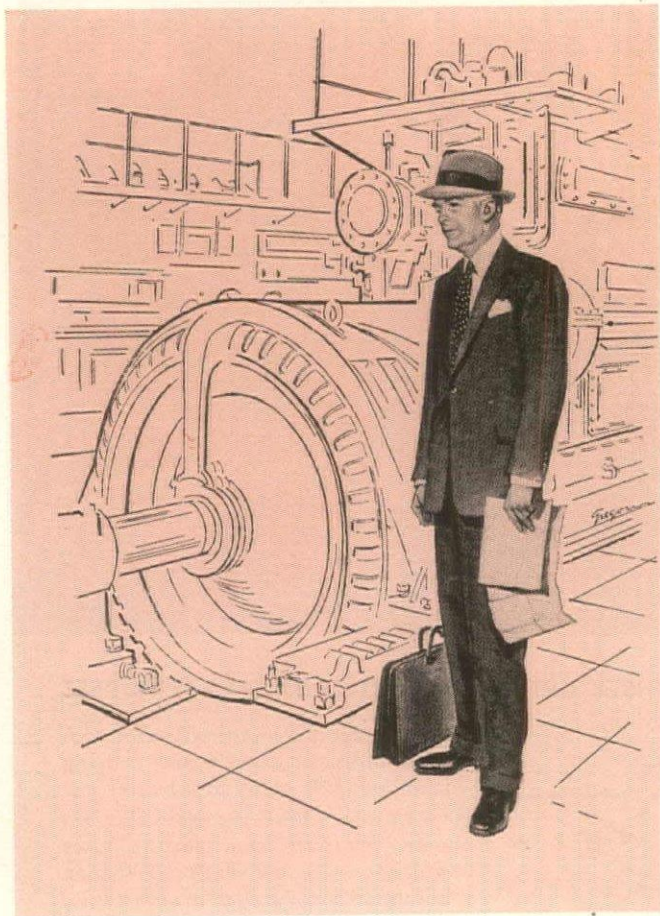
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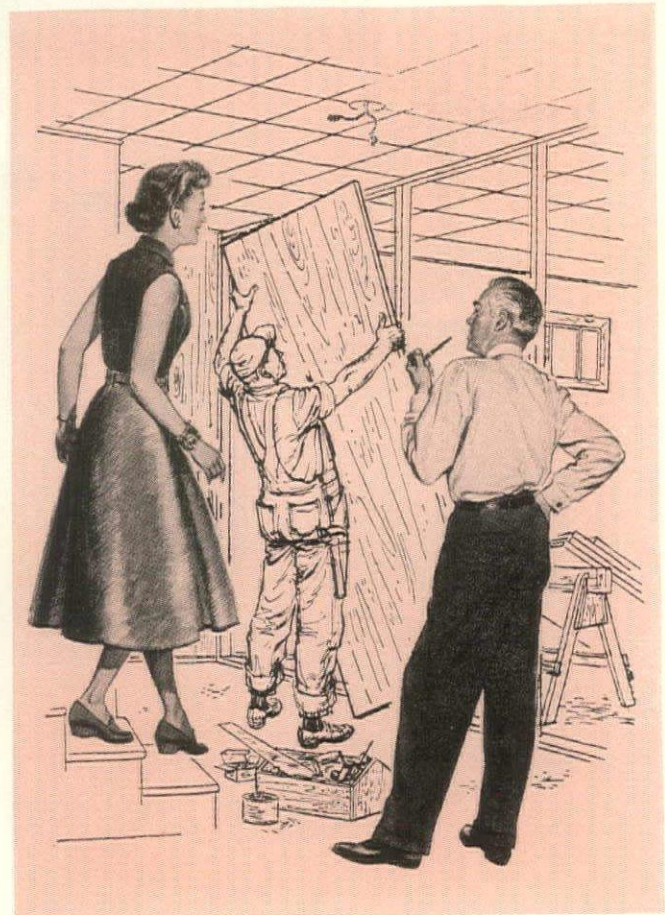
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He has far better than average means, broader than average interests. He and his wife and children are consistent best customers for all types of consumer goods and services.



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not merely the *thoroughness* with which the reports are made—it is also the *way* in which TIME tells the news that has attracted to it each week more than 1,700,000 of these men and their families—best customers in two positions to buy.

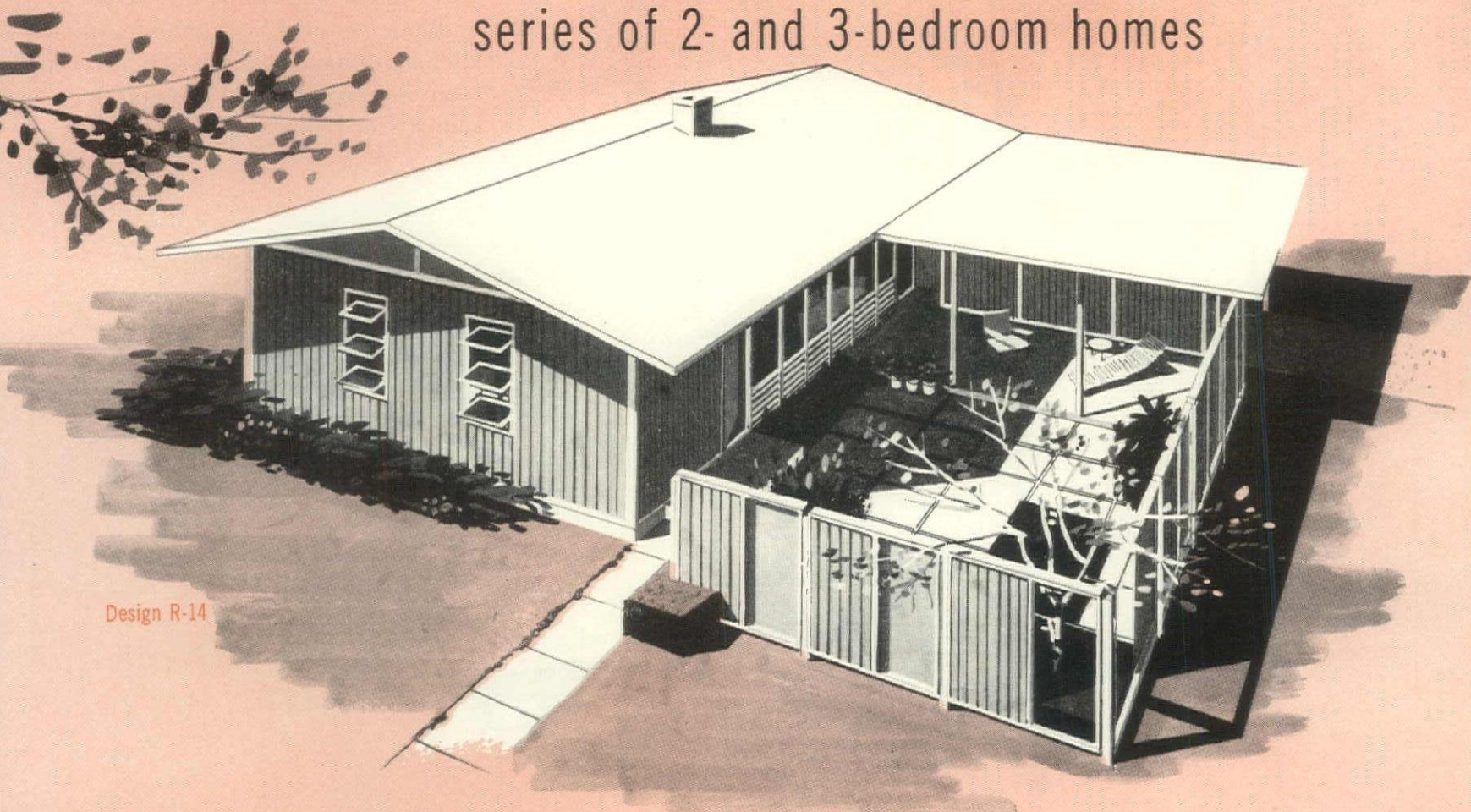
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Design R-14

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- This new “Ranger” series along with the “Custom-Liners,” “PACEMAKERS” and “CADETS” (see back cover) gives National Homes builders a wide variety of smart designs and floor plans . . . with a price range for every market!
- Nationally advertised continuously in leading magazines and coast-to-coast radio network.

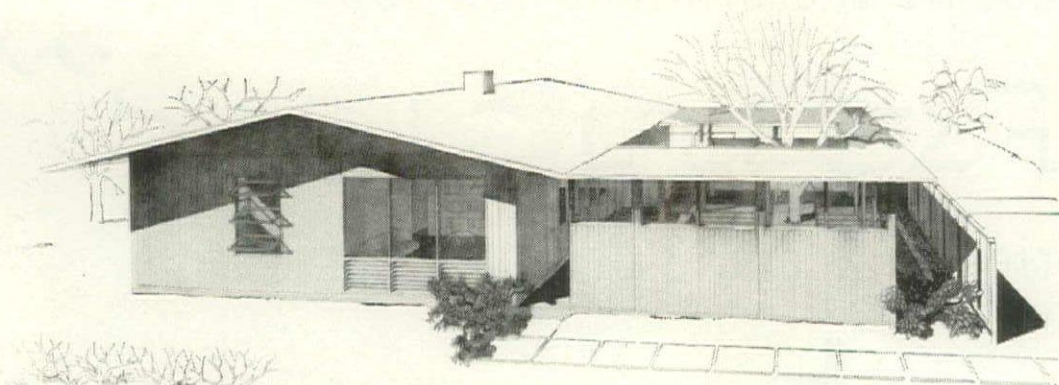
TURN PAGE

BUILD NATIONAL HOMES... FIRST IN SALES...

3-bedroom "Rangers"

come in choice of 4 floor plans with many design variations

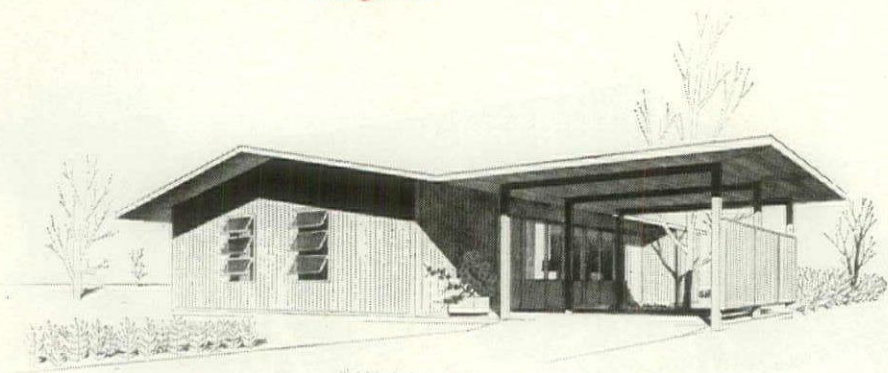
National "Rangers" homes herald a new era in home building! These sparkling new designs are distinguished by wide, overhanging eaves . . . spacious open planning . . . and a unique *family room*, combining the kitchen, dining area and den or rumpus room in one delightful hospitality center—for relaxed, informal living.



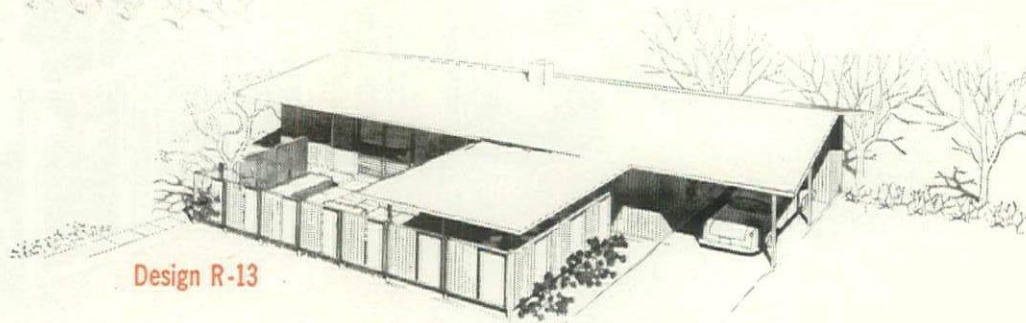
Design R-15



Design R-16



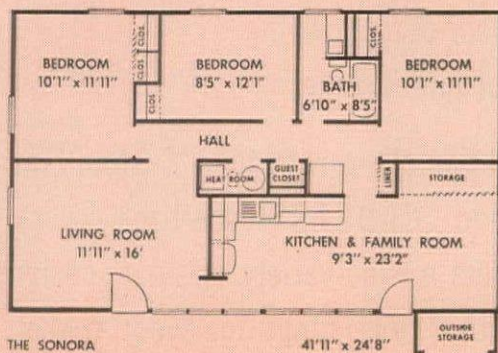
Design R-12



Design R-13

The SONORA

This unusual plan provides an abundance of indoor and outdoor living—a spacious living room for formal entertaining, the kitchen and family room for informal hospitality.

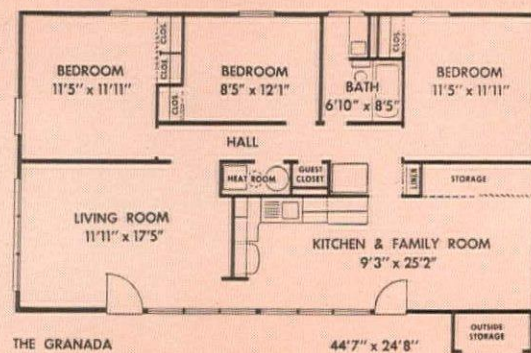


THE SONORA

41'11" x 24'8"

The GRANADA

This plan has all features of the Sonora, plus a larger living room, bedrooms and family room. In both these plans, bedrooms and bath are secluded from the rest of the home, yet accessible from either the living room or family room.



THE GRANADA

44'7" x 24'8"

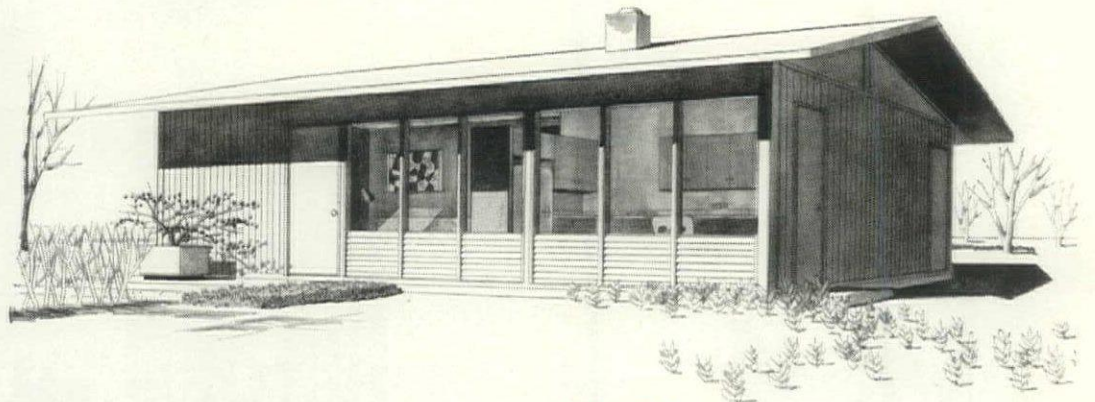
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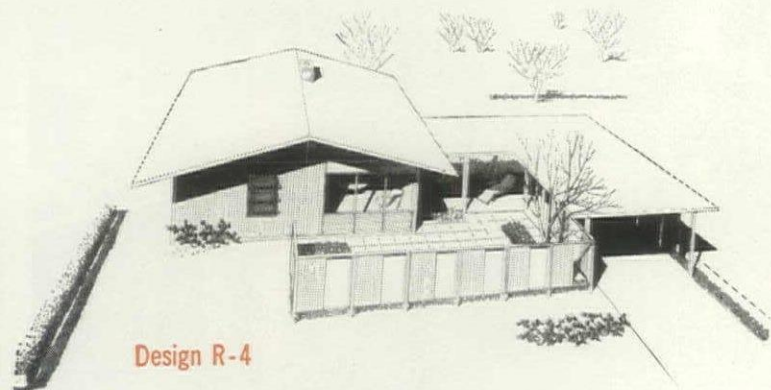
2-bedroom "Rangers"

are available in two floor plans, one expandable . . . many variations in design

These 2-bedroom "Rangers" have the same air of spacious, abundant living as the 3-bedroom models. Through the use of the glass wall in the living room and wood screens enclosing the garden court, the "Ranger" living room is literally extended to the lot line. "Ranger" designs are suitable for building in any region.



Design R-1



Design R-4



Design R-2

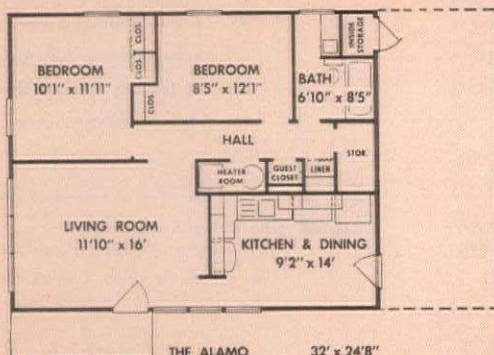


Design R-3

All "RANGER" Designs Copyrighted 1953
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The ALAMO

A spacious, well-balanced 2-bedroom home . . . designed so that it can be expanded into the Sonora plan (see facing page) by addition of the third bedroom and family room.



THE ALAMO 32' x 24'8"

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ALL RANGERS ARE AVAILABLE
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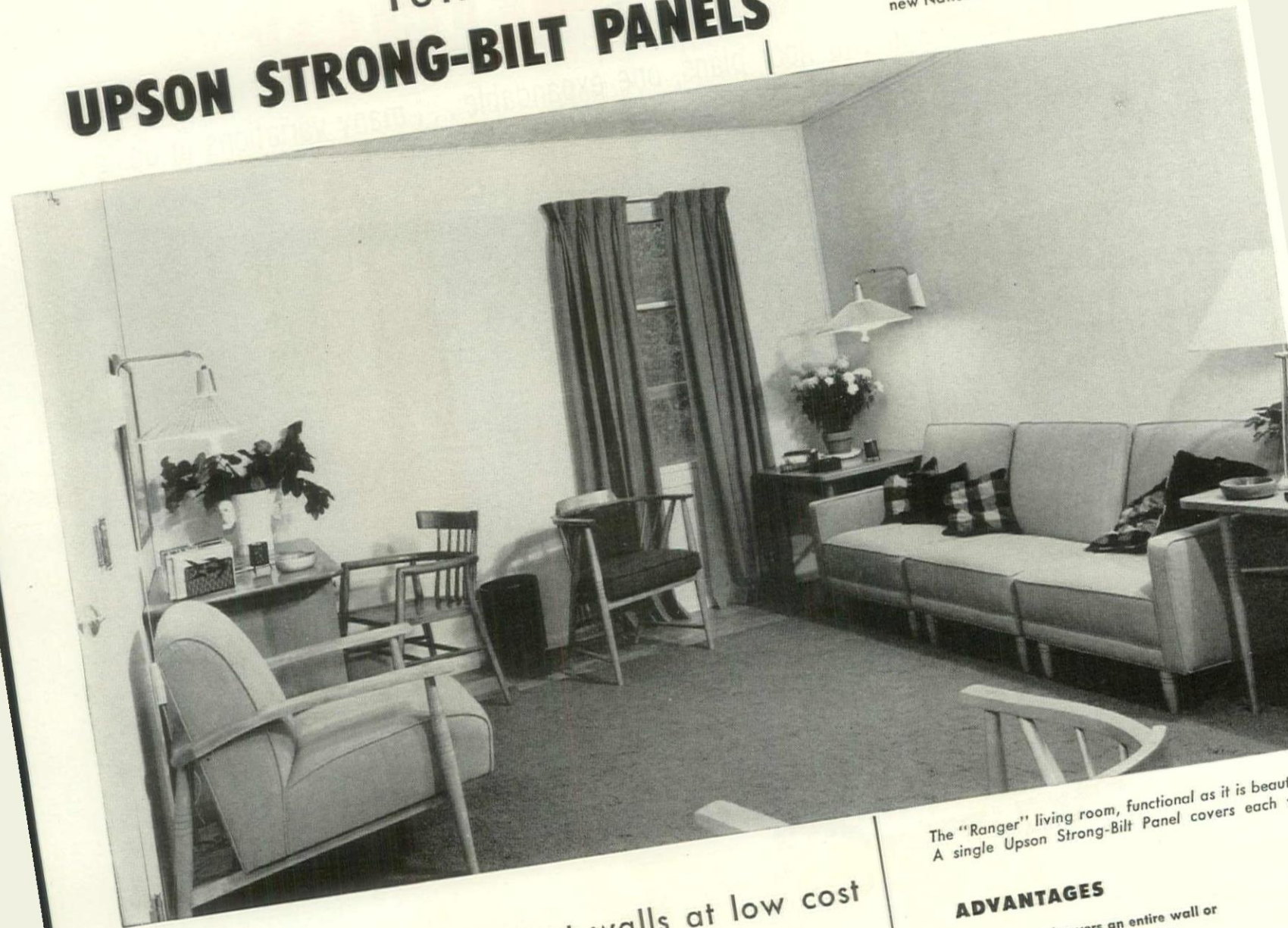
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UPSON STRONG-BILT PANELS



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In their determination to give customers a better home at reasonable cost, National Homes Corporation tested every wall and ceiling material. No material met quality and efficient construction requirements so well as Upson Strong-Bilt Panels.

Many other leading home manufacturers, too, have reached the same decision. Check and compare Upson Strong-Bilt Panels for your own operations. Let us show you how they excel from every standpoint. Mail the coupon, phone or wire today.

ADVANTAGES

1. One panel covers an entire wall or ceiling. No joints. No taping.
2. High impact resistance.
3. Waterproofed.
4. Easy to paint or paper.
5. Permanent—won't crack.
6. Efficient insulation value.
7. Pride—inspiring Beauty.



The Upson Company
51912 Upson Point, Lockport, N. Y.

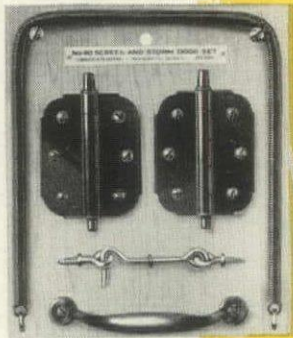
Please have the Upson Construction Engineer phone

Name _____ Phone _____
 Name of Firm _____
 Address _____ State _____
 City _____

upson / **STRONG-BILT** / **panels**
 PROVEN QUALITY YOU CAN TRUST

*Specify
National*

and enjoy the assurance of
a longer service life ★ ★ ★



No. 90
Screen Door Sets

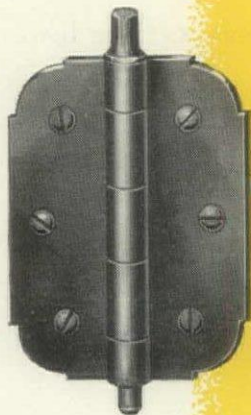
Here are a few members of the extensive line of builders' hardware designed to give the ultimate in service conveniences. Custom-built of the finest basic materials, they incorporate modern designs that blend harmoniously with today's architectural theme. Beautiful finishes on the hardware give all-weather protection and seal the friction-free action of the hinges and door butts.



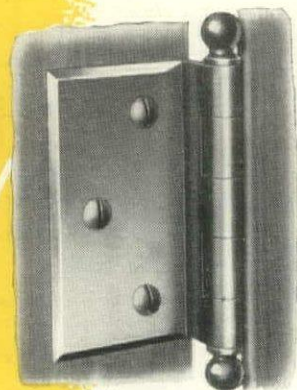
No. 500
Ball-Tip Butt

*Installation simplified
to save time and labor*

Today production is accelerated to keep pace with the popular demands for new homes. National Builders' Hardware has long been recognized for the modern simplicity of both its functional performance and ease of installation. Precision construction also tends to assure smooth-working coordination year 'round regardless of climatic conditions.



No. 121
Screen Door Hinge



No. 450
Ornamental Butt



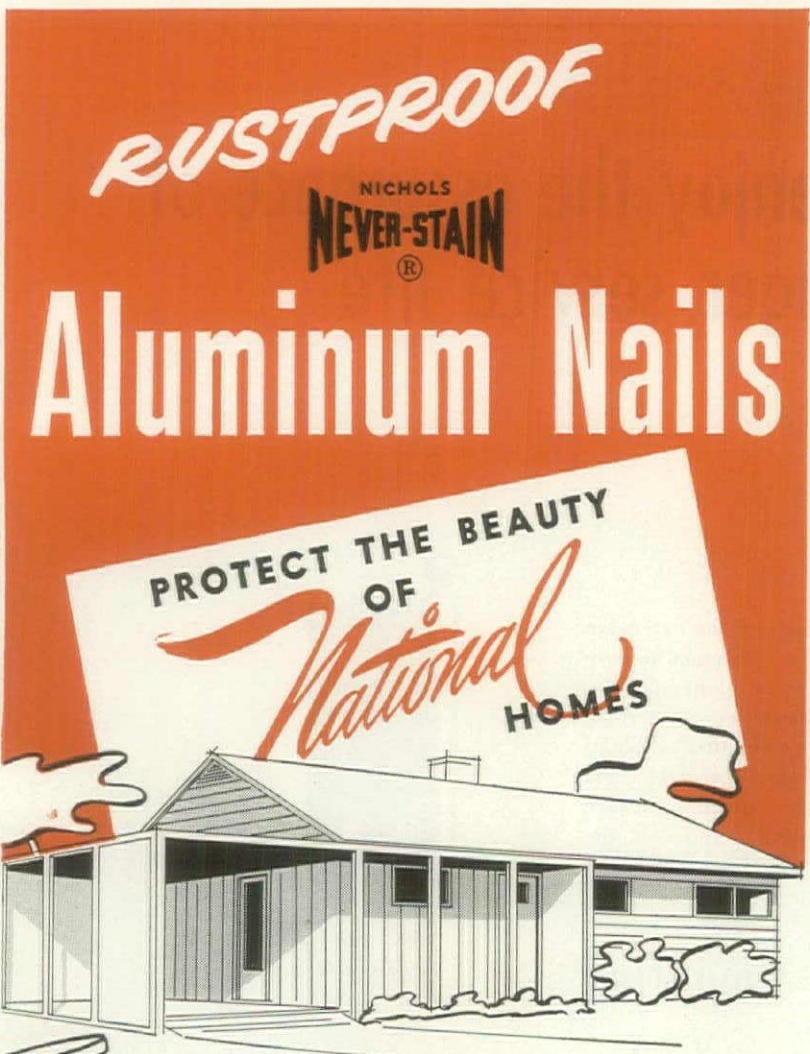
No. 170 Bar Sash Lift

A favorite with the building trade for over 50 Years



NATIONAL MANUFACTURING COMPANY

**Sterling,
Illinois**



RUSTPROOF
 NICHOLS
NEVER-STAIN
Aluminum Nails

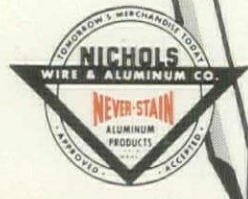
PROTECT THE BEAUTY
 OF
National
 HOMES



NICHOLS
NEVER-STAIN

Aluminum Nails

- Never Rust-Streak or Spot
- Save a \$300 Premature Repainting Expense
- Last Indefinitely
- Economical—cost less than \$4.00 to apply the wood siding to an average home
- Protect the beauty and appearance of any home
- Never-Stain Aluminum Wood Siding Nails NEVER require countersinking or puttying—an added savings in building costs
- Never-Stain Aluminum Nails are FHA approved
- Available in a wide range of types and sizes for use where the elimination of unsightly rust stains is desirable
- NICHOLS "Never-Stain" ALUMINUM NAILS may be obtained from your Lumberyard or Building Material Dealer.



SEND
 COUPON
 TODAY
 FOR
FREE
 SAMPLES

NICHOLS WIRE & ALUMINUM CO.
 Dept. HH-D, Davenport, Iowa

Yes, I am interested. Please send me samples of your Aluminum Nails.

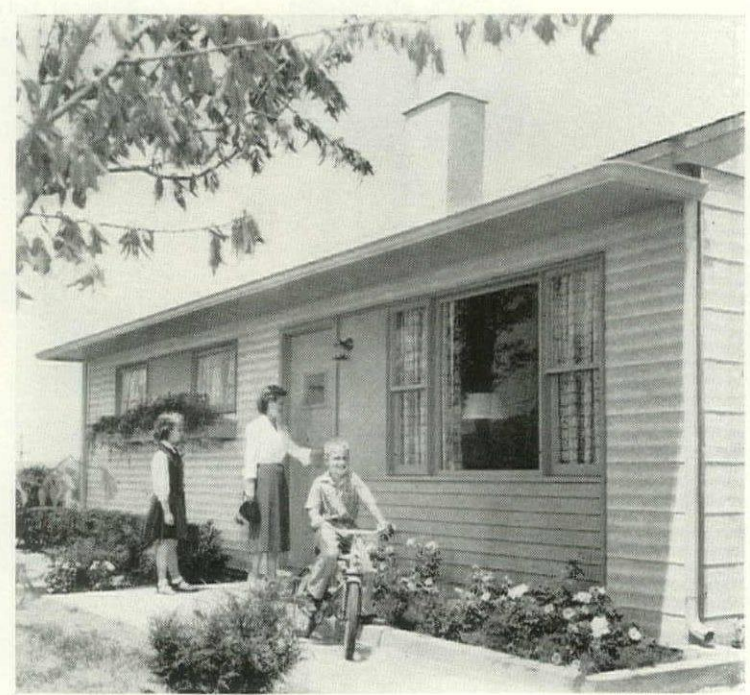
NAME _____
 ADDRESS _____
 CITY _____ ZONE _____ STATE _____

**ANDERSON
 WOOD WORK**

Selected by

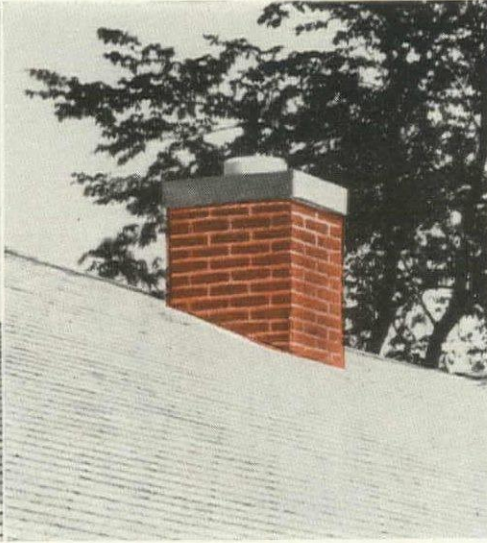
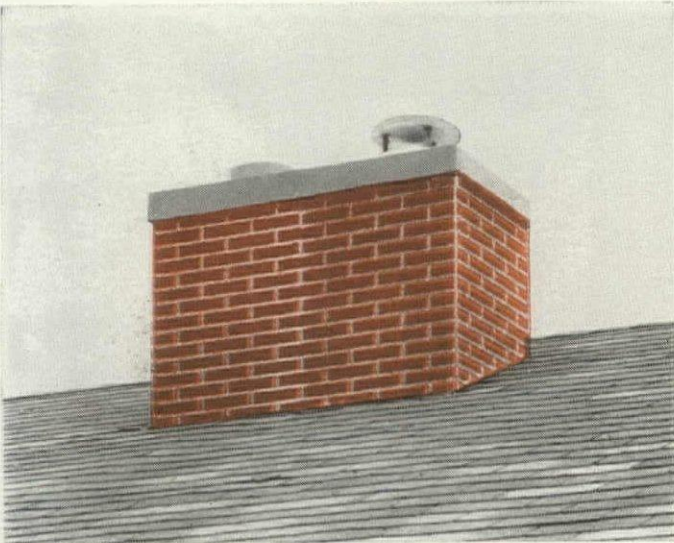


The same Anderson craftsmanship that has produced the architectural wood work for many of the nation's largest buildings is found in the new 1954 National "PACEMAKER" Homes. This is made possible by volume-production facilities which produce quality with economy. We are proud of our part in helping to make the new "Pacemakers" the lowest-cost fine homes in National's history.



The new 1954 National "Pacemaker" Home

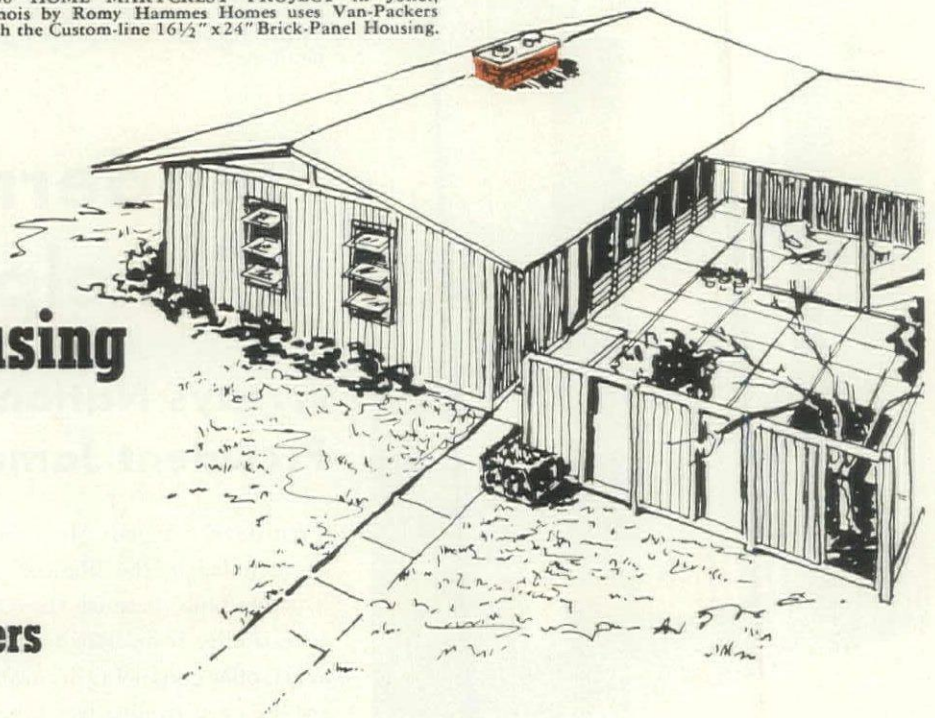
ANDERSON • Louisville
 ANDERSON WOOD WORKING COMPANY, INC., LOUISVILLE, KENTUCKY



NATIONAL "RANGER" shown below equipped with a Van-Packer Packaged Masonry Chimney with the new Custom-line "AC" Brick-Panel Housing. The dramatic beauty of the "Ranger" is enhanced by the massive brick appearance of the Van-Packer 24" x 48" housing. Pre-fabricated all-masonry Van-Packer is the ideal chimney for the entire 1954 National Line.

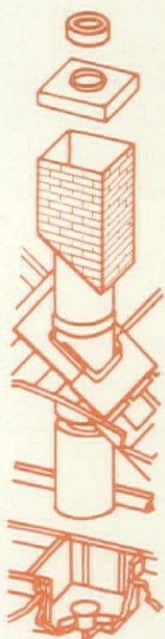
NATIONAL "CONCORD" built by Nixon Homes, Inc. in Hinsdale, Illinois uses Van-Packer Packaged Masonry Chimney with Custom-line "AC" 24" x 48" Brick Panel Housing. Housing can accommodate air conditioning.

1800 HOME MARYCREST PROJECT in Joliet, Illinois by Romy Hammes Homes uses Van-Packers with the Custom-line 16½" x 24" Brick-Panel Housing.



**New Van-Packer
Brick-Panel chimney housing
sells homes faster**

for *National* **HOMES**® Dealer-Builders



Conventional Brick Appearance—The new Van-Packer Chimney Housing gives National Homes Builders "buyer acceptance" not possible with any other pre-fabricated chimney. This housing ends home buyer resistance to non-conventional appearance of ordinary pre-fabricated chimney housings. Rust-proof cement asbestos housing panels deep-embossed in handsome brick texture. Brick red with natural color mortar lines, can be painted to match any other color, if desired.

Two Sizes—Custom-line housing: 16½" wide x 24" deep. Custom-line "AC" housing: 24" wide x 48" deep, will accommodate air conditioning.

Low-Cost—Van-Packer Packaged Masonry Chimney is all-

masonry sectional construction, nothing to rust or corrode. Ceiling or floor suspended.

Officially Specified—Approved by National Homes Corporation. Listed by U.L., F.H.A., and all major building codes for coal, oil, and gas for all home heating plants and incinerators.

Immediate Delivery—Nationally distributed. Contact your local heating supply or building material dealer or jobber who has complete Van-Packer chimney parts in stock. If unable to locate a distributor in your classified telephone directory write Van-Packer Corp.

Write Van-Packer Corp. for free Bulletin No. AF-23-12 for complete specification and installation data.

VP **Van-Packer** **PACKAGED MASONRY CHIMNEY**
WITH NEW BRICK-PANEL HOUSING

Van Packer Corporation—209 S. LaSalle Street—Chicago 4, Illinois

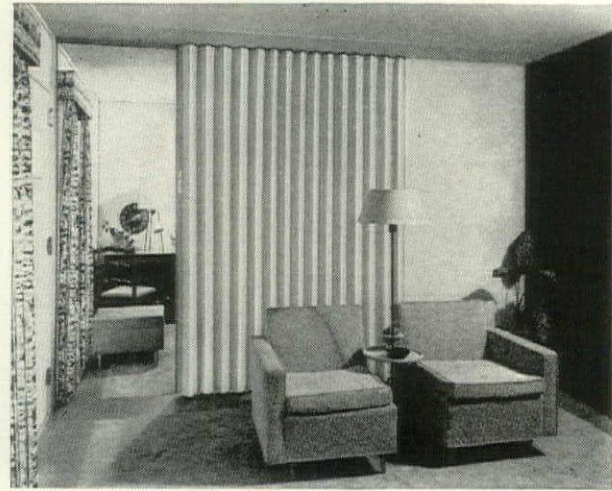
Also manufactured and distributed in Canada by C. A. McRobert and Son, Ltd., St. Laurent, Quebec



"the most trouble-free folding door in today's market"



National Homes uses "Modernfold" doors to provide the same easy accessibility on single closets. Furniture can be placed right next to the door.



National Homes uses "Modernfold" as a movable wall to open an "all purpose" area into the living room.



National Homes puts "Modernfold" rolling post doors on their big floor-to-ceiling double closets, to get full accessibility. No need to "build out" or "build down" to door.

"Modernfold... will help us sell our homes"

...says National Homes Corporation President James P. Price

"We have selected 'Modernfold' doors to be included in the 'Ranger' and the 1954 'Custom-Line' because they give complete accessibility from floor to ceiling in closet areas, offer enhancing decorative value, and are the most trouble-free folding or sliding-type door in today's market.

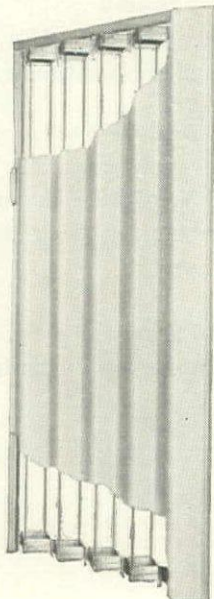
"Modernfold" will help us sell our homes because they contribute to the happiness of a National Home owner—and happiness is what we are selling."

For more sales appeal and greater customer satisfaction, leaders in the building industry are specifying "Modernfold," the original folding door. They appreciate the many advantages of the extra steel in "Modernfold's" sturdy frame, the balanced pantograph hinge construction, both top

and bottom that keeps "Modernfold" perfectly centered between jambs, gives it an even number of folds on either side, insures its long life and trouble-free operation. They appreciate the ease with which "Modernfold" can be installed, too. No special cornice, no extra hardware needed.

"Modernfold" comes complete, ready to be installed in 30 minutes or less. There's no sanding, fitting, or painting needed with "Modernfold." Tough vinyl fabric washes clean with plain soap and water. *That's* a feature buyers really appreciate about "Modernfold," the original folding door.

Contact your nearest distributor, listed under "doors" in your city classified directory. Or send coupon for more "Modernfold" information.



Cutaway drawing shows sturdy frame construction of "Modernfold" doors. Note balanced pantograph hinge construction which keeps door perfectly aligned without need for floor track.

Sold and Serviced Nationally

NEW CASTLE PRODUCTS, NEW CASTLE, INDIANA

In Canada:

Modernfold Doors, 1315 Greene Avenue, Montreal



COPYRIGHTED BY NEW CASTLE PRODUCTS, INC., 1953

New Castle Products
P. O. Box 557
New Castle, Indiana

Please send me full details on "Modernfold" doors.

Name.....

Address.....

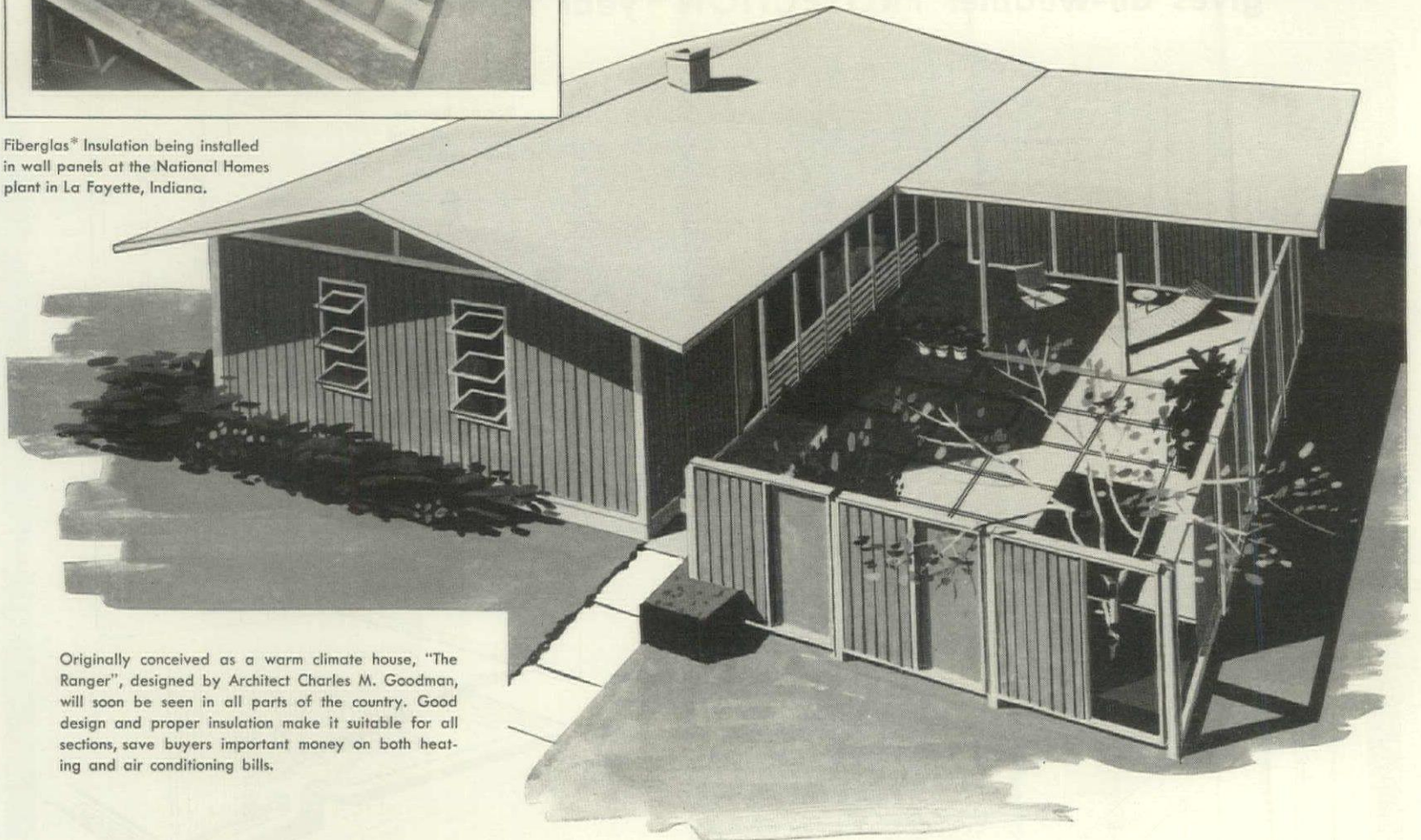
City..... County..... State.....



Fiberglas® Insulation being installed in wall panels at the National Homes plant in La Fayette, Indiana.

In planning for competitive markets...

Take a Tip from NATIONAL HOMES



Originally conceived as a warm climate house, "The Ranger", designed by Architect Charles M. Goodman, will soon be seen in all parts of the country. Good design and proper insulation make it suitable for all sections, save buyers important money on both heating and air conditioning bills.

● **Behind their attractive, well-designed exteriors**, all homes in the ever-expanding National line have two things in common: *quality construction, quality materials.*

Small wonder then that this leading pre-fab manufacturer standardizes upon Fiberglas Insulations.

For Fiberglas is permanent, odorless, light in weight, moisture resistant. Won't nourish vermin. Won't settle and leave bare, unin-

sulated areas. It reduces fire hazards for fibers of glass can't burn. It "shushes" outside noise . . . provides restful quiet.

With air conditioning going into more homes, this quality insulation is needed more than ever before . . . for it can *save up to 25% on operating costs* . . . in addition to saving up to 40% on heating bills.

Most important of all, prospective buyers are well acquainted with the advantages of Fiberglas. Consistent advertising and Arthur Godfrey have seen to that! So National Homes—and other users of Fiberglas Insulation—get not only the finest insulation money can buy, but also an *extra selling feature*. A very important *plus* in today's competitive market!

How about YOUR 1954 models? If you'd like to take advantage of the many "extras" builders get with Fiberglas Insulations, talk it over with the dealers of these industry leaders:

ARMSTRONG CORK COMPANY, Lancaster, Penna.

CERTAIN-TEED PRODUCTS CORPORATION, Ardmore, Penna.

THE FLINTKOTE COMPANY, New York, N. Y.

INSULITE DIVISION, MINNESOTA AND ONTARIO PAPER CO.,
Minneapolis, Minnesota

KELLEY ISLAND LIME AND TRANSPORT CO., Cleveland, O.

THE RUBEROID CO., New York, N. Y.

Investigate Fiberglas and you'll specify Fiberglas! Owens-Corning Fiberglas Corporation, Dept. 67-L, Toledo 1, Ohio.



OWENS-CORNING
FIBERGLAS

*Fiberglas is the trade-mark (Reg. U. S. Pat. Off.) of Owens-Corning Fiberglas Corporation for a variety of products made of or with fibers of glass.

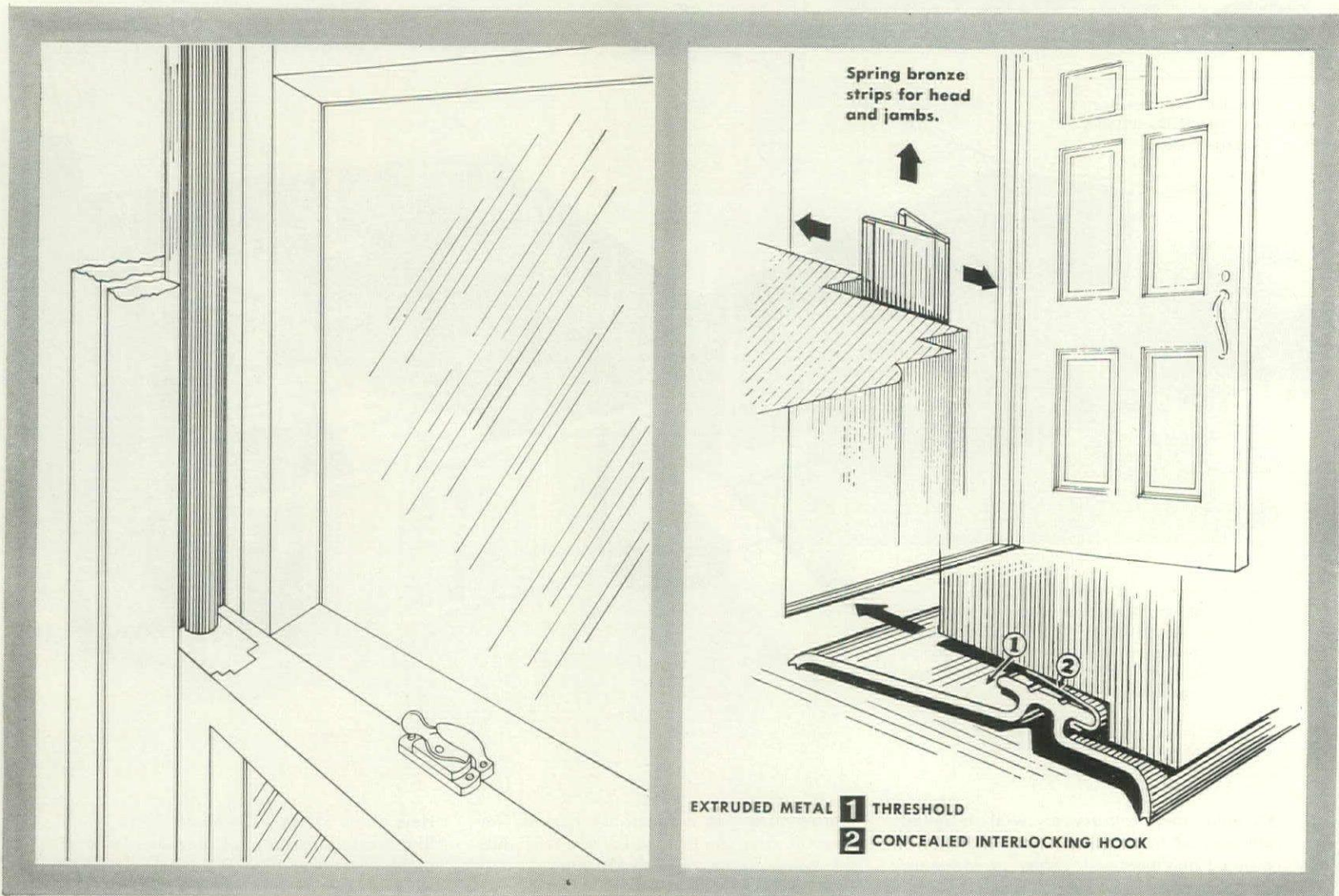
is in your life..for good!

The Ideal Combination

ALLMETAL WEATHERSTRIP

for doors and windows

gives all-weather PROTECTION—year 'round COMFORT



Many materials and techniques have been developed to prevent heat loss and to give buildings better protection against weather, but: **NONE SAVE MORE FUEL PER DOLLAR OF COST than good weatherstripping.**

For instance: University of Minnesota Institute of Technology Bulletin No. 35 states: "Air infiltration may account for approximately 37% of the total heat loss from a typical five room well insulated bungalow. The use of weatherstripping on windows may reduce the infiltration losses to 17% of the total heat loss from a house, with a corresponding saving of approximately 24% in the total fuel cost."

Actual tests of ALLMETAL weatherstrip for windows at the University of Minnesota Engineering Experimental Station show even greater efficiency in the control of air infiltration than that attained by the test windows studied in Bulletin No. 35.

The ideal set-up is ALLMETAL weatherstrip for both doors and windows. It does the job as it should be done and gives complete weather-tight protection. When you specify ALLMETAL weatherstrip you are specifying sure protection against water leakage on floor and window stools, sure protection against wind blown dust and dirt which settles on walls, drapes and furnishings, and protection from drafts which are uncomfortable, unhealthy as well as extremely costly.

WHILE ATTENDING THE N.A.H.B. CONVENTION PLAN TO VISIT OUR PLANT AND SEE THE NEWEST IN WEATHERSTRIP DEVELOPMENTS
CALL SPaulding 2-1340 TO ARRANGE FOR TRANSPORTATION

ALLMETAL
NAME "ALLMETAL" REGISTERED U. S. PATENT OFFICE
Weatherstrip Company

2249 NORTH KNOX AVENUE, CHICAGO 39, ILLINOIS



Two Features That Will Help You Sell More National Homes

1. **EXTERIOR WELDTEX** for stunning eye appeal
2. **WELDWOOD DOORS** for beauty and serviceability

Buyer acceptance of National Homes leaves no doubt that good design, attractive styling, quality construction and fair prices move plenty of houses. Two Weldwood products which certainly meet all these qualifications and help sell more National Homes are Weldtex[®] (striated fir plywood) and Weldwood[®] lumber-core doors.

Weldtex is one of the most widely used of the many popular Weldwood Products. You'll find it used extensively on current National Home exteriors. Its textured effect has a charm and distinction that is hard to match. Weldtex has important practical features too! It stands up under even the worst weather conditions. It takes

paint or stain beautifully and never "checks." Its striated design conceals nail heads.

Weldwood lumber-core birch doors are used at the front entrance of National Homes. They were chosen for their outstanding beauty and proved dependability. Weldwood lumber-core doors have an enviable performance record—they don't stick, warp, swell or rattle. Their quality construction assures lasting satisfaction for both builder and home buyer alike.

Both features, like all Weldwood Products, are backed by the United States Plywood Corporation—the World's Largest Plywood Organization.



Weldwood[®]

FOR SALES APPEAL

United States Plywood Corporation

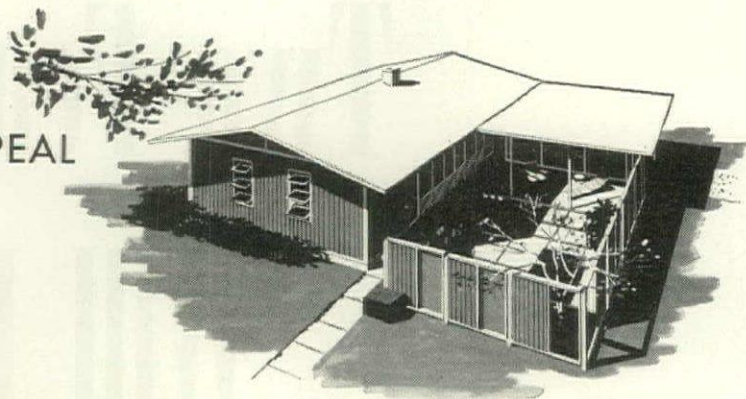
55 West 44th Street, New York 36, N. Y.

and U.S.—Mengel Plywoods, Inc.

Louisville, Kentucky

Distributing Units in 60 Principal Cities

National
HOMES adds EXTRA SALES APPEAL
 to the New "RANGER" and Other
 Fast-Moving 1954 Models . . . with the



MARVAIR air conditioner

**—the LOW-COST Unit for
 YOUR MASS MARKET!**

Complete air-conditioning for the worker as well as the boss! That's your answer to more sales in the profitable mass-housing market. You can now offer it with the Air-Cooled MARVAIR Air Conditioner, only unit of its type on the market.

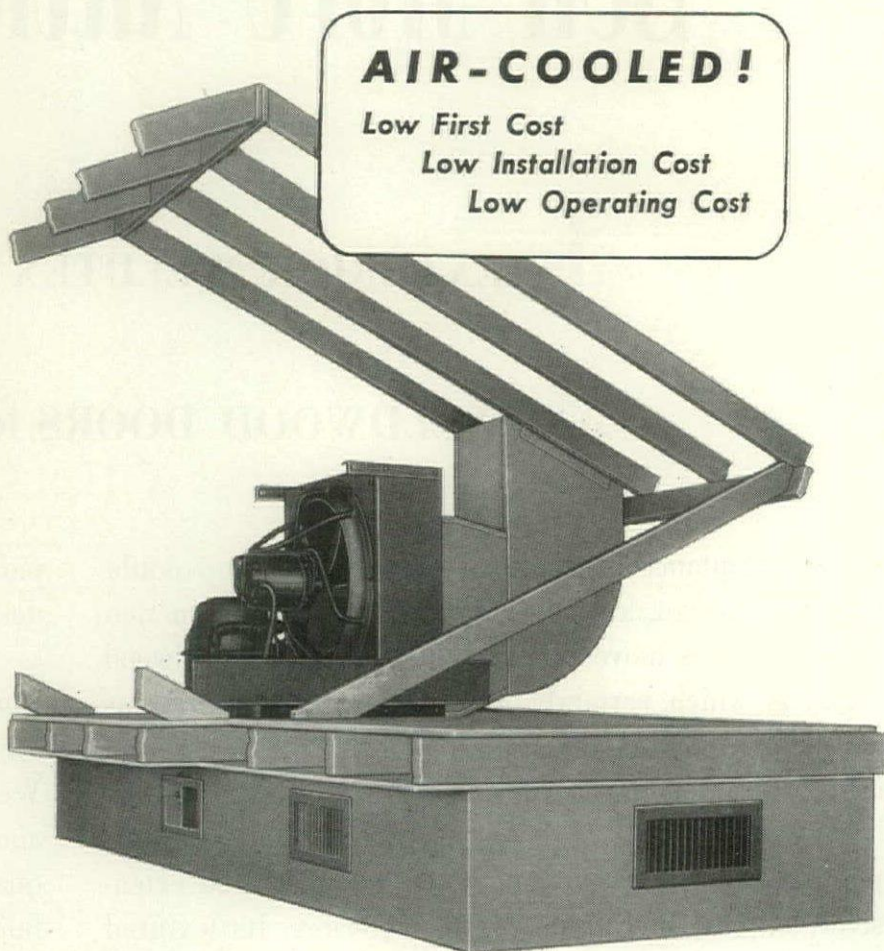
National Homes builders know the sales-winning power of the marvelous MARVAIR. Featured for all 1954 Nationals: "Pacemaker" . . . "Ranger" . . . "Custom-Line" . . . this sensational new unit is helping them smash all records. It can do the same for you.

Quickly and easily installed in the attic, the Air-Cooled MARVAIR takes up no floor space, requires no water, no plumbing. Serves houses up to 1700 square feet, covering the entire low-cost housing field. Thousands already in use.

CONVENTIONAL BUILDERS! Investigate MARVAIR immediately. You *must* include air conditioning with your new homes to meet competition. Be ready with MARVAIR, foremost in the field. Write or wire today.

*Producers of the Internationally Known and Used
 MARVAIR HEAT PUMP*

MUNCIE GEAR WORKS, INC.
 MUNCIE, INDIANA



Cutaway view of MARVAIR installation for National Homes. Outside air enters through roof intake at right, passes over cooling coils to dispersal chamber formed by dropped ceiling in center hall, then through grilles to each room. No ducts are required. This type of installation is ideal for conventional builders of low-cost homes.

ALSO . . . a Complete Line of Base Units for furnace manufacturers. These are 2, 3 and 5-ton sizes, water-cooled for upright, duct, or counterflow installations. May be installed in specially designed cabinet as a companion unit, or as a part of the furnace itself. Complete details and engineering service available. All units are hermetically sealed and warranted.

SEE OUR EXHIBIT—SPACE 326, SHERMAN HOTEL, NATIONAL HOME BUILDERS SHOW

National **HOMES...**

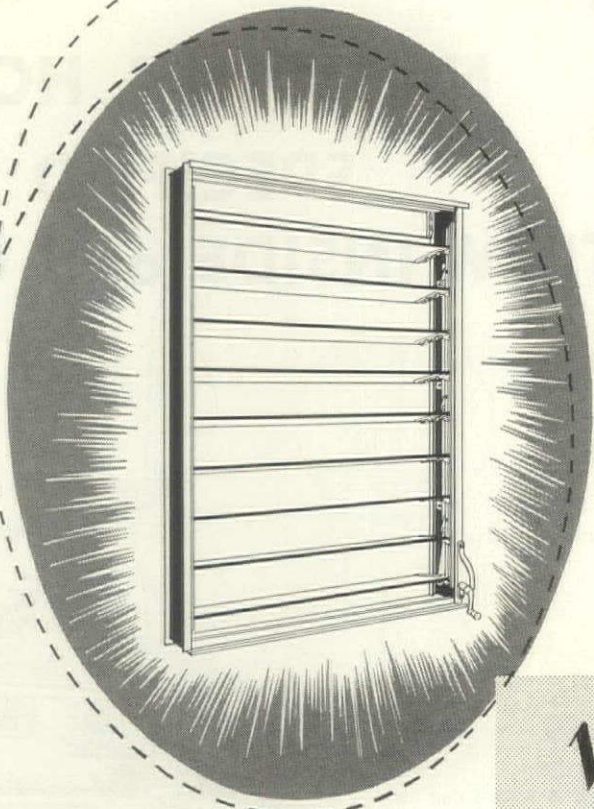
keeping pace with their policy of highest quality

Selects America's first and still America's finest

JALOUSIE WINDOW

The ORIGINAL Jalousie
PRO-TECT-U

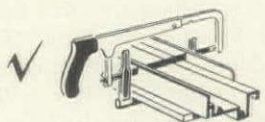
for their 1954 Ranger Home



Available with wood or glass (clear, obscure, or heat resistant) louvers.

HARDWARE may be purchased separately for use by others in the manufacture of wood frame jalousie windows and doors.

CUT TO SIZE ON THE JOB...



job eliminating unnecessary delay.

A simple sawing operation in *minutes* makes special custom windows on the

8 SCREWS AND SCREWDRIVER

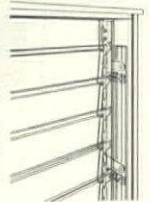


symbolize Pro-Tect-U jalousies' simplicity of assembly.

✓ CHECK these PRO-TECT-U features and COMPARE

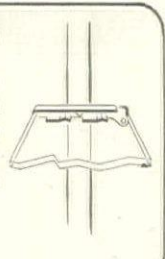
EXCLUSIVE ADJUSTABLE FEATURE

in Pro-Tect-U's closing mechanism allows for glass tolerance and wear after years of use, thereby insuring a tight seal throughout the height of the unit.



BALANCED VANES

make unit easy to operate. Shoulders on clip at A and B provide clearance which eliminates surface friction and galling.



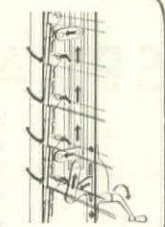
WEATHERPROOF JAMB SECTION

Baffle bar A interlocks with frame B when louvers are closed.



EQUALLY DISTRIBUTED CLOSING FORCE

by the use of toggle links is shown in this schematic drawing. Another EXCLUSIVE feature with Pro-Tect-U.



PRO-TECT-U's

original design plus 17 years of development and improvement provide the best operation and performance.

MATERIAL AND HARDWARE

Extruded 63-S-T5 aluminum frame... aluminum hardware with... precision operating mechanism.

HURRICANE TESTED PERFORMANCE BY UNIVERSITY OF MIAMI HOUSING RESEARCH LABORATORY.

TESTED BY PITTSBURGH TESTING LABORATORY

SCREEN REPLACEABLE WITH STORM SASH.

Inside aluminum screen is interchangeable with storm sash.

Architects, Builders, Contractors, consult Sweet's file No. 16^d Pr. for our catalogue or write for descriptive literature.

PRO-TECT-U JALOUSIE CORPORATION
4525 Ponce de Leon Blvd.
Coral Gables 34, Florida

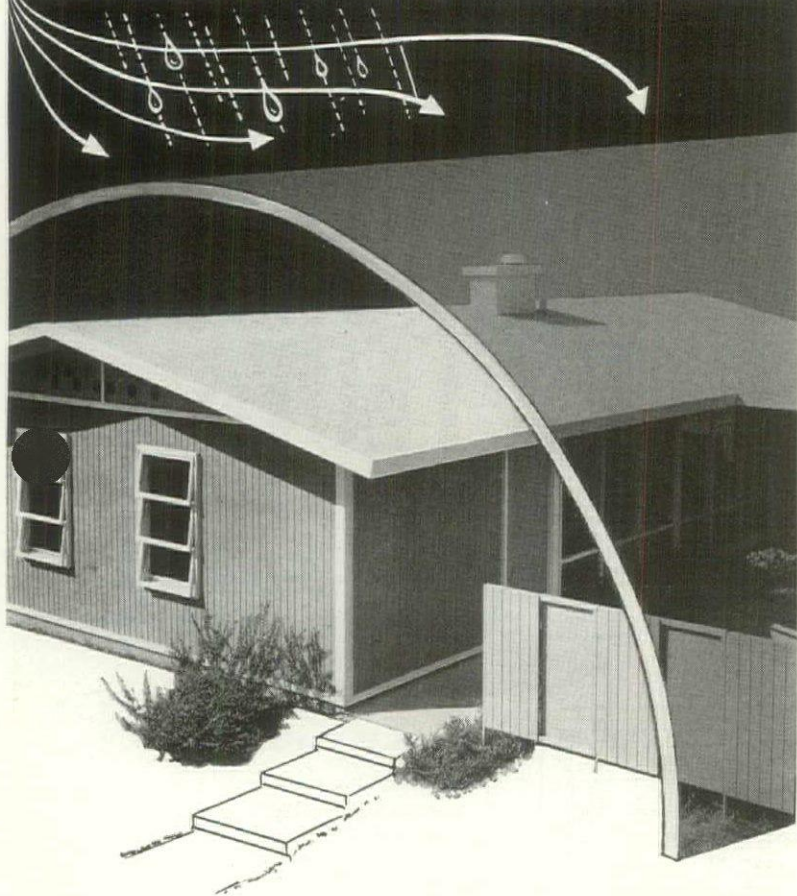
Please send me **FREE** literature.

NAME _____

ADDRESS _____



National's "Ranger" Homes
have the
EXTRA PROTECTION

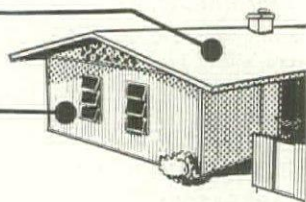


of PRAIRIE STATE
ASPHALT PRODUCTS

One of the "invisible values" that make the achievement of abundant and relaxed living possible in these outstanding National homes. "Ranger" homes are completely surrounded with a *Prairie State Asphalt Barrier* against wind and moisture, adding to the snug comfort and health protecting qualities.

EXTRA Asphalt PROTECTION
in the roof...

EXTRA Asphalt PROTECTION
in the walls...



PRAIRIE STATE ASPHALT PRODUCTS CO.

asphalt
shingles

roll
roofing

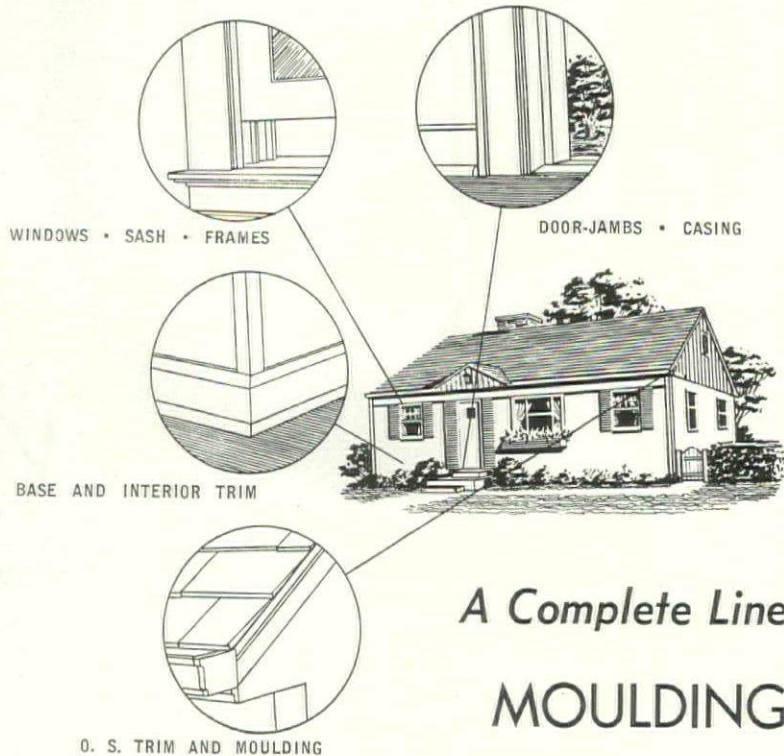
asphalt
products

P. O. Box 1110 • Joliet, Illinois



talk about trimmings...

**NATIONAL HOMES
SPECIFIED TYEE
TRIM INSIDE and OUT!**



A Complete Line
MOULDING
TRIM • CUT-STOCK • FRAMES
Hemlock • Fir • Spruce

The materials that go into a National Home have to be "top drawer" quality. Tyee mouldings are taken from the very choicest timber in the ageless forests of the Pacific Northwest, and manufactured by skilled craftsmen to meet exacting standards. If your building plans call for quality trim, Tyee is the answer. We will cut to *your* specifications if necessary; and our strategic location in the heart of the lumber industry makes "pool car" combinations possible—you save shipping money. Mail coupon today!

MAIL COUPON NOW!

Tyee Lumber Co.
765 Myrtle Street
Seattle 8, Wash.

Please send me full particulars and prices on type of moulding listed below.

Name

Firm

Address

City State

MOULDING
TYPES:

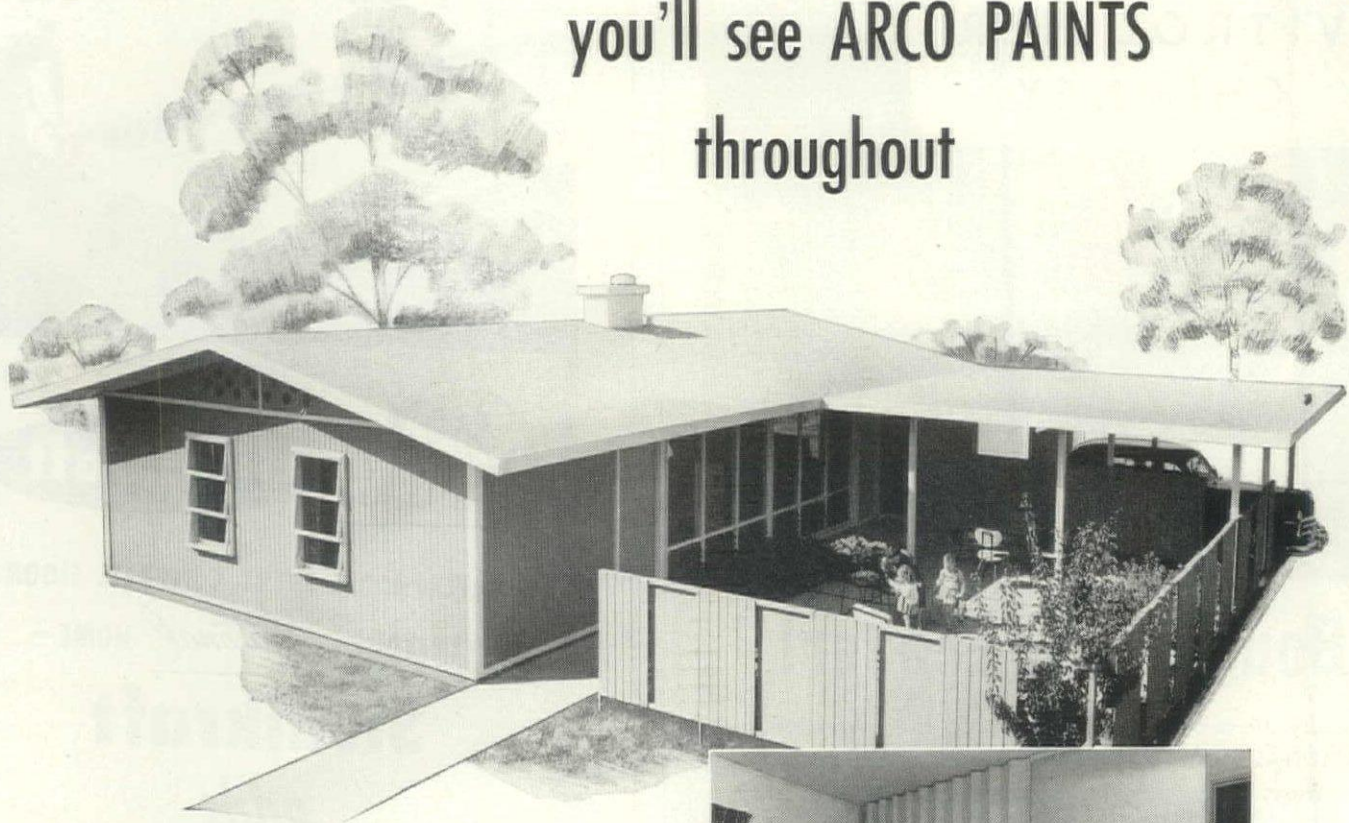
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**NEED DIMENSIONAL LUMBER
AND MILLWORK
For Pre-Cut Homes?**

Saves on waste and shipping costs where there is a *basic* design for *multiple* dwellings. Write for details.

tyee
LUMBER & MANUFACTURING CO.
765 MYRTLE STREET • SEATTLE 8, WASH.

turn a *National* "RANGER" inside-out...
 you'll see ARCO PAINTS
 throughout



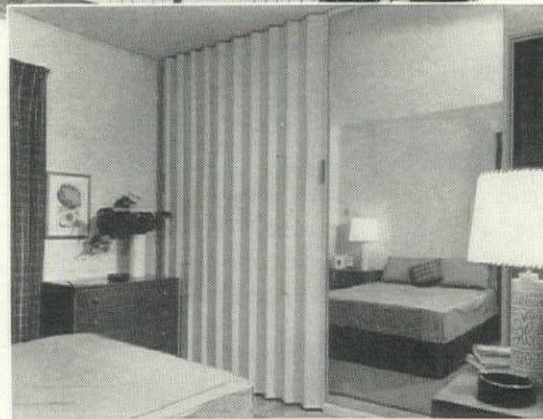
*And you may find answers
 to your own painting problems*

Inside . . . outside . . . on the handsome, budget-wise Ranger home—and in every dwelling National Homes has built throughout its 13 years of manufacturing, you'll find Arco Paints doing an outstanding job of beautifying and protecting surfaces.

If you have any large-scale painting problem—in the shop or in the field—you can benefit from the same principles that have been mainstays of National-Arco teamwork for these 13 years:

- ★ **Economical application** . . . easy handling, good coverage, quick dry.
- ★ **Protection** . . . shop primers that stand up through long, bad-weather exposure . . . wall and ceiling finishes that endure.
- ★ **Service** . . . prompt, expert technical assistance from the Arco Research Laboratory.

Inside . . . outside . . . there is a superb Arco finish for your every need. It will be worth your while to find



out more from the company that makes finishes for professional application.

Write today for complete details of Arco's "You Be The Judge" plan which enables you to prove to yourself that it pays to team up with Arco Paints for inside-outside application.

THE ARCO COMPANY

7301 BESSEMER AVENUE, CLEVELAND 27, OHIO
 A SUBSIDIARY OF AMERICAN-MARIETTA COMPANY



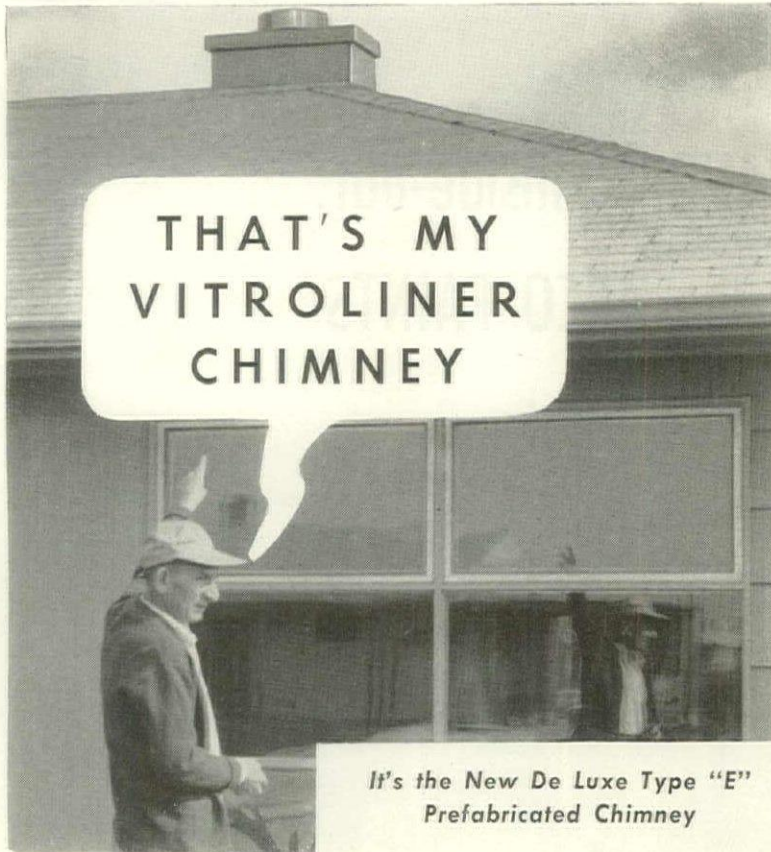
A WINNING
 TEAM SINCE 1940



**ARCO
 PAINTS**
 Quality... SINCE 1881

Paints, Lacquers,
 Varnishes, Enamels,
 Protective Coatings
 TRADE MARK

TESTED FIRST TO LAST!



"I Bought the Leader!"

"Naturally I'm proud and happy to be the owner of my new NATIONAL HOME ranch house with a modern Vitroliner Chimney," says Mr. N. Haynes of P. O. Box 142, Hinsdale, Ill.

"Our Vitroliner certainly looks smart and trim,—and harmonizes with the architectural lines of the house. All the National Homes in the neighborhood are different in style and color, but each has the same Vitroliner chimney. I like the way each chimney is painted the individual color of the roof. To me, that makes them beautiful as well as practical.

"Another good thing about Vitroliners I like,—they're designed for any fuel. We use gas for heating and know we have a quality chimney we can depend on to do a good job."

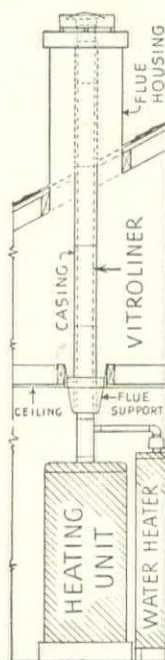
Signed H. Haynes

FEATURES

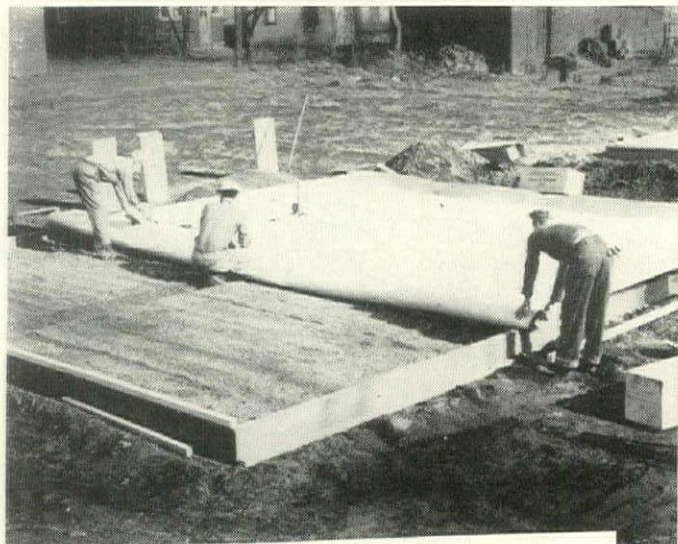
- TAILOR-MADE TO FIT.
- SAVES VALUABLE FLOOR SPACE.
- LOWEST INSTALLATION TIME.
- HIGHEST QUALITY AT LOW INITIAL COST.
- HIGH HEATING EQUIPMENT EFFICIENCY.
- LISTED BY UNDERWRITER'S LABORATORIES FOR ALL FUELS.
- PROVIDES ATTIC VENTILATION.
- ELIMINATES CONDENSATION.
- QUALITY BUILT FOR LONG LIFE.
- M'F'D. IN 6", 7", 8" AND 10" DIA.
- AVAILABLE IN ANY QUANTITY.

Investigate this fast-selling modern low-cost chimney today. Write for illustrated circular.

"The Pioneer in the field"



CONDENSATION
ENGINEERING CORPORATION
3511 W. POTOMAC AVE., CHICAGO 51, ILL.



Genuine **Sisalkraft**

WATERPROOFS EVERY CONCRETE FLOOR
IN YOUR *National* HOME—

Sisalkraft

adds

"Hidden Quality"

TO BASEMENTLESS NATIONAL HOMES

You'll never see the waterproof membrane of tough Sisalkraft between subfill and concrete floor slab, but you'll be glad it's there. Sisalkraft assures *Damp-Free* floors for your comfort, health, and lifelong protection. Yes... and savings in concrete and labor make Sisalkraft a profitable investment.

Write Department H-6 for **FREE** Sample and see how tough and waterproof a building paper can be!



THE
SISALKRAFT
COMPANY

205 W. Wacker Drive, Chicago 6, Illinois
New York 17, New York • San Francisco 5, California



LARGE WINDOWS of *Thermopane* insulating glass in National Homes' 1954 "Ranger".

EXTRA VALUE in *National* Homes ... *Thermopane** insulating glass

Home buyers have a sharp eye for extra values these days—features that promise a more comfortable home, a home that is more economical and easier to operate, a home with higher resale value.

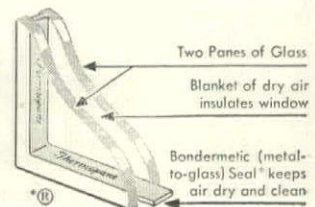
Thermopane insulating glass adds these values to a home. It helps keep rooms warmer in winter and cooler in summer. It cuts heating bills, and if a house is air conditioned it lowers that cost, too. Its insulation reduces drafts close to windows in cold weather. It makes homes

quieter by deadening outside noises. It gives home buyers all these enjoyable benefits *without the bother of storm sash.*

These are powerful sales arguments you can use. And remember that *Thermopane* is the most advertised, most-wanted double glazing. It has been advertised nationally for ten years. You can use it and sell it with confidence. For more information on *Thermopane*, write to Libbey-Owens-Ford Glass Company, 9123 Nicholas Bldg., Toledo 3, Ohio.



Thermopane
INSULATING GLASS



Wherever quality woodweaves
are specified—
you see Suncraft

National Homes'
New Pacemakers

By Charles M. Goodman

Are Using Suncraft Woodweave
Draperies and Dividers
For Their Quality and Beauty

All Suncraft custom designed wood fabrics are rich in texture, durability and long lasting beauty. And Suncraft woodweaves come in countless designs. Enjoy the most exciting new treatment of window draperies and shades, room dividers and folding doors for their wonderful versatility and smart economy.

ABSTRACTS — Presenting bamboo draperies in their newest and most advanced form. Variation of design and color are limitless.

DIMENSIONAL WEAVE—Woven wood in its most elegant form. An opaque material of interesting shadow and depth.

ROLLO WEAVE — Here is the tie between the traditional and modern — delicate in appearance — but rugged in use.

PLASTIC WEAVE — Combining the strength of plastic with pine gives an easily cleaned woodweave that affords privacy.

WALNUT WEAVE — A Swedish weave gives warmth plus dignity to an easily adaptable wood tone.

Let us show you these exciting new woodweaves — or send for samples today.

Suncraft INC.

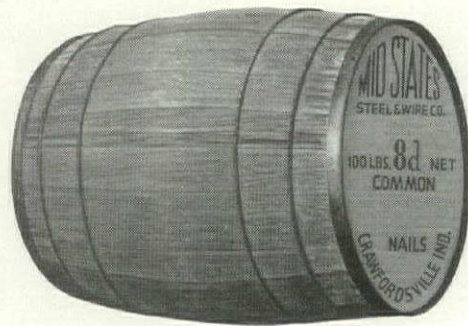
1315 West Webster Avenue • Chicago 14, Illinois

MID-STATES

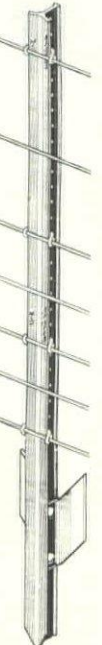
STEEL & WIRE COMPANY



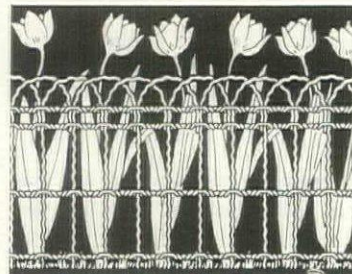
Chosen by National Homes Corporation as a dependable source of high quality steel and wire products . . . A few of the products we make . . .



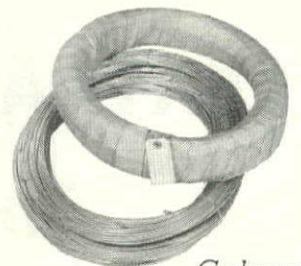
Nails — All types and sizes



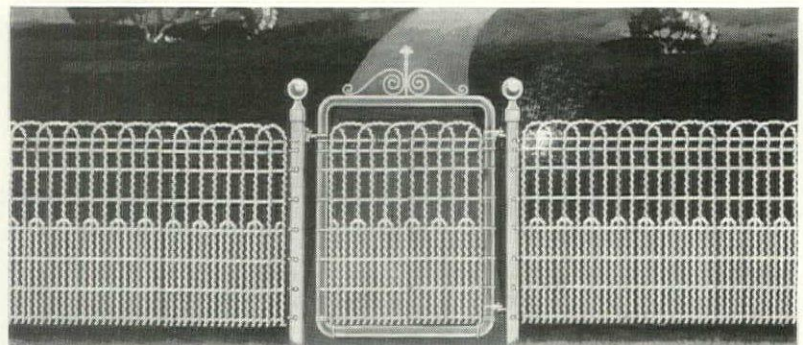
Steel Posts



Flower Bed Borders



Galvanized Clothes Line



Ornamental Fence

MID-STATES STEEL & WIRE COMPANY
CRAWFORDSVILLE, INDIANA • JACKSONVILLE, FLORIDA

Consider this appraisal value of **OAK FLOORING'S** new 4th dimension

Oak's 4th Dimension adds a lasting *extra* value to Oak Flooring...a value added by no other building material, let alone other floorings.

Do you know?...80% of all architects, 88% of all contractors, 96% of all real estate agents and 83% of all future homeowners prefer Oak Flooring over all other flooring materials. (facts from a recent national survey)

That is what makes the 4th Dimension...Oak's overwhelming preference.

What does it mean to you? It means that, in the case of your operative builder clients, your specification of Oak Flooring will provide their homes with attractiveness, utility *and* will make it easier for them to sell their homes. Contractors say that nothing helps sell a house faster than a good Oak Floor.

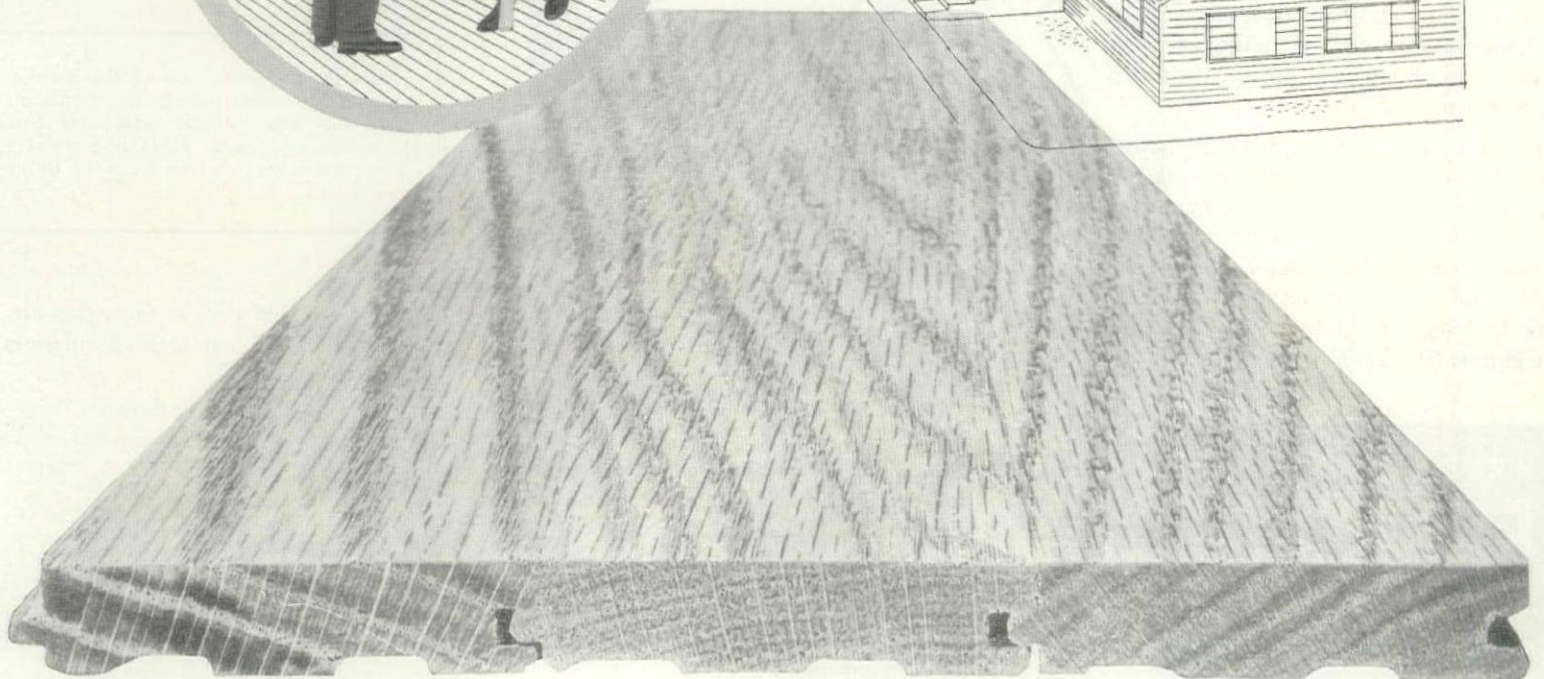
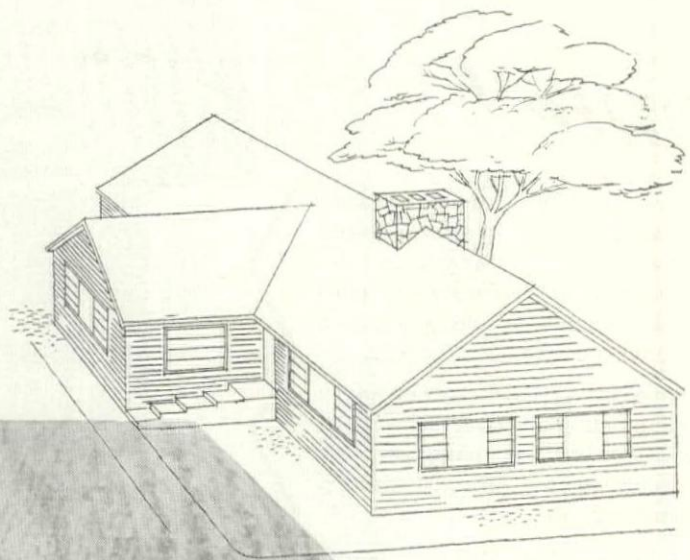
And, for custom-home clients, Oak's 4th Dimension is your assurance that 83% of all future homeowners want it...want beautiful, durable Oak. They want Oak's insulating qualities and its resiliency that gives walking comfort, too.

When it comes time to re-sell, their Oak Floors will help them sell faster. 96% of all real estate agents say they prefer to sell houses having Oak Floors.

National Oak Flooring Manufacturers' Assn., Sterick Building,
Memphis 3, Tenn.



This mark on Oak Flooring is your assurance that it meets NOFMA standards.

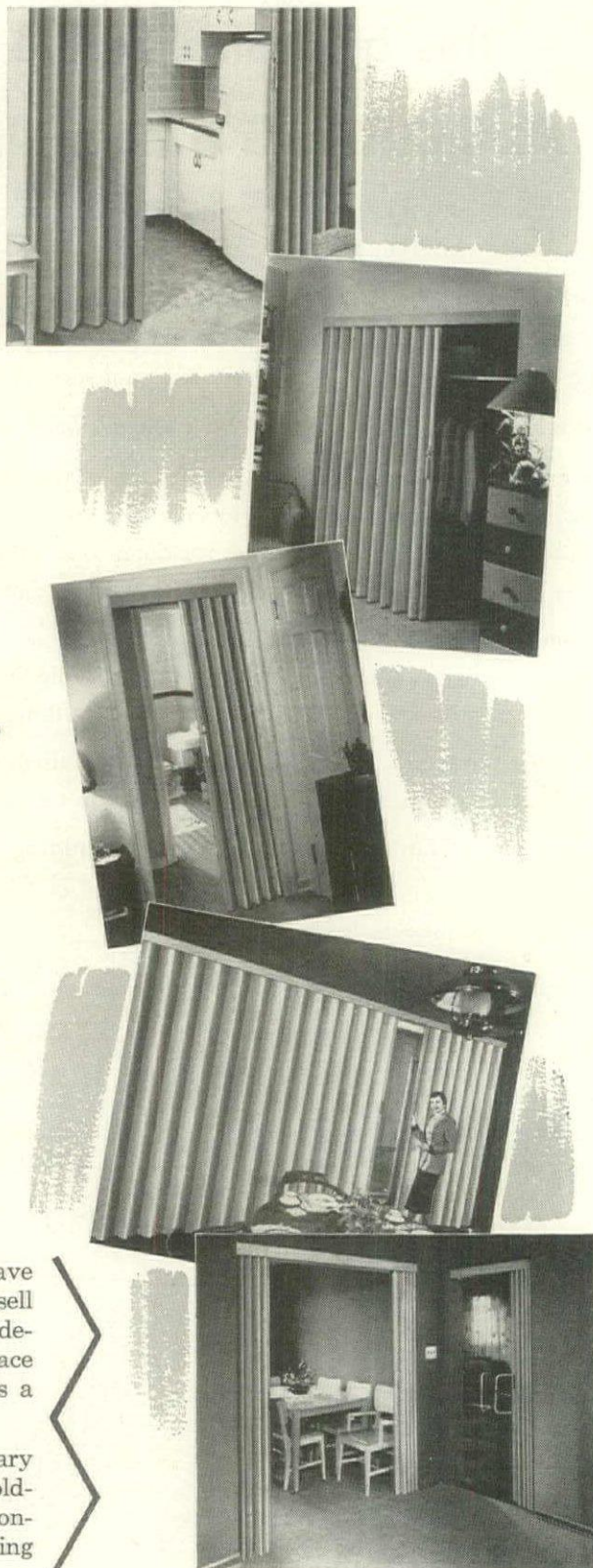


*gain
floor
space
on every
opening...
cut costs
on every
home!*

Every square foot of floor space you save means a lower-cost home, an easier-to-sell project. And with FOLDOOR, you can design a new home with less total floor space and still get as much usable space as a larger house with conventional doors.

FOLDOOR saves swing space over ordinary doors; saves stack space over other folding doors; saves wall or partition construction costs; saves painting, trimming and hardware expense.

You'll find FOLDOOR fits in every house, makes it more flexible and more salable, too. You'll find the right size, type and color for every need. Consult your local FOLDOOR installing distributor. See Sweet's Catalog or write for detailed specifications. Holcomb & Hoke Mfg. Co., 1545 Van Buren St., Indianapolis 7, Indiana.



Easier to sell because...

- ★ Rugged steel frame, welded rods and rigid hinge plates resist rust, give a lifetime of trouble-free service
- ★ Vinyl plastic coverings, wide color range—easy to clean with soap and water, long-lasting and fire resistant
- ★ Attractive cornice conceals track, at no extra cost
- ★ Exclusive Multi-V design—with centerline support—requires less stack space
- ★ Easy, low-cost installations
- ★ Nationally advertised to your clients and prospects
- ★ Backed by 56 years of engineering and manufacturing experience

LETTERS

EISENHOWER ON THE TIGHTROPE

Sirs:

I have read and reread your editorial, "President Eisenhower on the tightrope" (H&H, Oct. '53), and I sincerely feel that this is the best description that I have read concerning the loan market today, and the best commentary that I have seen concerning the end results if existing policies are pursued to their logical conclusions.

If the large investors, the large builders, and the federal government can grasp this picture and follow the recommendations in this article, private enterprise in the building and mortgage industry can be saved, because the large majority in this field—the small builder and the small mortgage lender without large funds to juggle—are helplessly caught in the squeeze and are approaching the end of their part in the former established order of things. If they are forced out of business, the administration will have accomplished the opposite of what they claim to want.

With the failure of the small builder and small lender or loan correspondent doing business each in his own community, the pathway to public housing and direct lending by the federal government will be irrevocably established and the end of another bright era of private enterprise will have been accomplished. It behooves each of us, no matter how large or small our place in the mortgage financing and building industry might be, to think this matter through very carefully and to look a little way into the future. If we today are made of the same stuff as our forefathers, we can and will find a solution which will hold for at least our generation the rights, privileges and principles which this country has given of its life's blood three times in the last 35 years to protect.

D. L. STOKES, *president*
D. L. Stokes & Co., Inc.
Atlanta

Mr. D. L. Stokes, one of the most respected real estate men in the South, dictated this letter shortly before his death from a heart attack. H&H is grateful to Mrs. Stokes for sending it on to us unsigned—Ed.

Sirs:

. . . Clear and concise facts that are the opinion of every sound-thinking builder in the country.

JOHN E. BAUER
Regional vice president, NAHB
Indianapolis

Sirs:

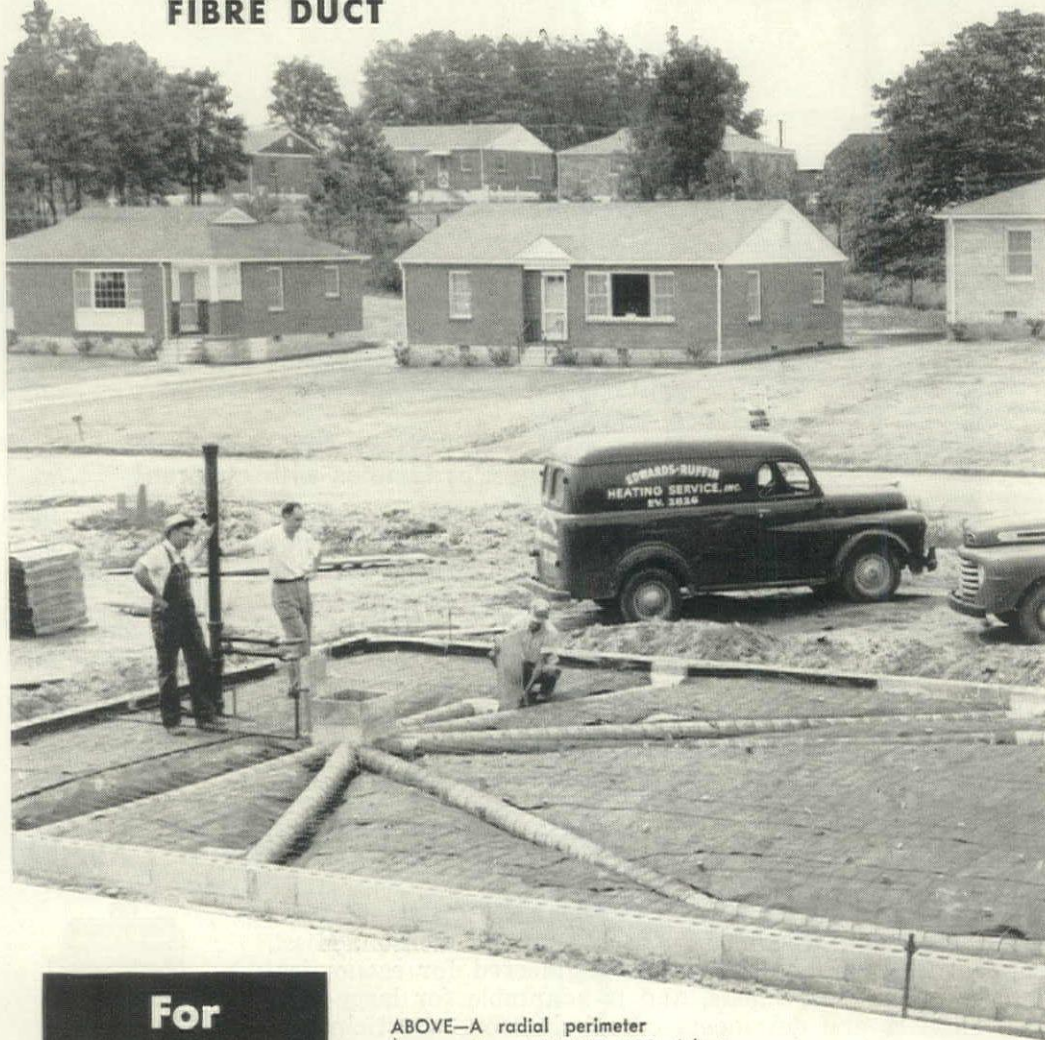
. . . Originators were encouraged to go ahead lending money and then, just when they had large mortgage blocks in warehouse, the interest rates were suddenly raised (H&H, *continued on p. 81*)

Another Cost-saving Installation Using

SONOAIRDUCT®

PAT. APP. FOR

FIBRE DUCT



For Perimeter Heating

ABOVE—A radial perimeter system using SONOAIRDUCT, Atlanta, Ga., housing project. Nordec, Inc., Builders; Edwards-Ruffin, Heating Contractors.

This light weight duct comes in 27 sizes, 2" to 36" I.D., up to 24' long—OR LONGER. SONOAIRDUCT is for the builder interested in saving time, money and labor in loop, radial and lateral slab systems WITHOUT lowering the quality of construction. Widely used and approved—permitted by F.H.A.

SONOAIRDUCT-XP is also available for use in crawl, basement and attic space heating installations. New detail folders now available upon request.

See our display!

BOOTH 247

CONRAD HILTON HOTEL



Saves TIME! Saves MONEY!

Write for Complete Information and Prices

SONOCO PRODUCTS COMPANY

Construction Products Division

LOS ANGELES, CAL.
5955 SOUTH WESTERN AVE.
GARWOOD, N. J.

HARTSVILLE, S. C. — MAIN PLANT
BRANTFORD, ONT.

MONTCLAIR, N. J.
14 SOUTH PARK STREET
AKRON, IND.



Oct. '53). Many were thus placed in a position of forced liquidation.

Could we not provide a method whereby warehoused mortgages could be supported and in the event of an interest change or any other drastic situation brought about by other than natural causes, a liquidation over a period of years provided? The originator could then take advantage of market up-swings.

In the meantime, originators would be more likely to go on with new financing and there would be money available for future mortgages in the form of building loans, which the market needs continuously.

FREDERICK C. SMITH
Vice president & mortgage officer
The Bowery Savings Bank
New York

Sirs:

Your recent "tightrope" editorial was excellent. I have read it through several times.

Your comments regarding the bankers yearning for the good old days of the 60% mortgage are particularly timely, with the influx of bankers in Washington these days.

From the number of bankers on the President's advisory committee on housing, it looks as though bankers will continue to determine this nation's housing policies.

Obviously they are making the new policy and have created the present policy, such as it is.

With a little planning, this nation can avoid what promises at this time, to be the greatest housing shortage we have yet to see—the early 1960s.

The biggest demand for housing, of course, is and will remain the newly organized family, which has little financial resource to invest in the housing it needs.

Your fine editorial crystallizes the many different facets of this housing problem. It certainly should be must reading for everyone connected with home building.

DON TEVERBAUGH, real estate editor
Indianapolis Times
Indianapolis

Sirs:

... One of the finest and most down-to-earth statements concerning the national housing dilemma that I have ever had the pleasure of reading. I concur wholeheartedly in your entire approach but wish to point out one factor so often overlooked:

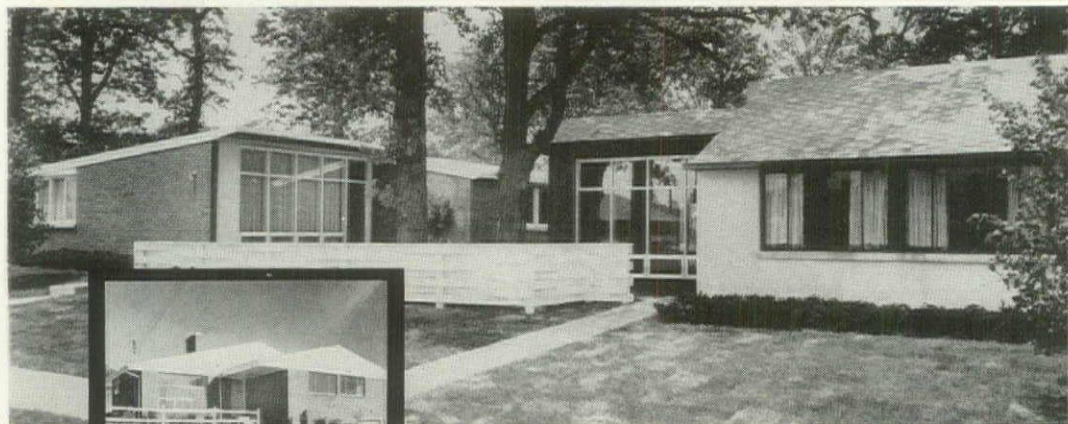
[Because] we must still provide new low-cost housing for a very large group of buyers earning \$3,000 or less per year, I strongly urge and solicit your support for no down payment on houses priced at \$8,000 or less....

THOMAS W. POORE, homebuilder, developer
Midwest City, Okla.

continued on p. 82

Builders from coast to coast
are making Sales and Profits with

PARENTS' MAGAZINE HOMES!



Two-thirds of all new homes are built or bought by families with children!

PARENTS' MAGAZINE homes have been built all over America. As a direct result of the magazine's continuing editorial program on behalf of home building, thousands of sets of working drawings have been purchased from PARENTS' MAGAZINE by individual families and by builders. And these homes, designed to meet the specific needs of families with growing children, have been built in every state of the Union!

PARENTS' MAGAZINE Home #11. Above, Park Forest, Illinois. Inset, model homes in Pittsburgh, Pa., and Miami, Fla.

YOU, TOO, CAN PROFIT FROM PARENTS' MAGAZINE'S HOUSE No. 11!

Already constructed in Park Forest, Ill., Pittsburgh, Pa., Miami, Fla., and scheduled to be erected in Jackson, Miss., and Seattle, Wash., this house is engineered for economical construction by individuals, and is adaptable for large-scale home builders and developers of sub-divisions. Participation in this home program is a great selling opportunity both for home builders and for home equipment manufacturers. Ask for details!



Visit Booth 86 NAHB Convention, Conrad Hilton Hotel

From: Emil J. Gould, Housing Engineers of Florida, Miami, Fla.

"... The public's reaction to the home has been very good indeed, and I am very satisfied with the results. For the family with children, it is excellent. This is the practically unanimous opinion of the people who have been visiting the house. This has been the finest home promotion we have undertaken. The tie-in with Parents' Magazine was very helpful."

From: J. S. Rashkin, Park Forest Homes, Inc., Park Forest, Ill.

"... Extent to which interest was aroused... before any publicity or advertising, more than 50 applications for the Parents' Magazine House. Giving consideration to building additional houses elsewhere."

From: P. C. Coechel, Equitable Gas Co., Pittsburgh, Pa.

"... Parents' Magazine house one of the outstanding events in Pittsburgh area... most effective All-Gas House Promotion ever staged in Pittsburgh. Mr. Al Singer and all those associated well pleased... having continued good crowds."

SEND TODAY FOR DETAILS ON HOW YOU CAN PROFIT

Serves
1,500,000
Families
with
3,000,000
Children
... **5,000,000**
Readership!



**WITH PARENTS' MAGAZINE'S
HOME BUILDING PROGRAM!**

PARENTS' MAGAZINE Family Home Department
52 Vanderbilt Avenue, New York 17

LETTERS

Sirs:

... An outstanding analysis. ...

The buying public has been educated to a low down-payment, long-term mortgage. If investors attempt to go back to the prewar plan of lending, with larger down payments and shorter terms, there will be resistance and, probably, direct government lending.

Our experience to date would indicate that a monthly payment loan on a long-term basis is a sounder mortgage plan than a shorter term first mortgage with a contract or second mortgage intervening. Any attempt to change the trend would mean trying to stop progress.

W. C. NELSON, *president*
Eberhardt Co.
Minneapolis

Sirs:

... Your suggestion that we would be ill-advised to put pressure on the government for special favors is certainly right. But we can look to the government to see that FHA and VA give proper valuations to the homes we must build to suit the market, which requires better architecture and higher-than-minimum standards of room size, construction, materials, equipment and site planning.

JOE F. MABERRY
Maberry Construction Co.
Dallas

MODERNIZATION

Sirs:

THANK YOU FOR YOUR GENEROUS DEDICATION OF THE OCTOBER REMODELING ISSUE [H&H, OCT. '53] TO ME AMONG OTHERS. YOU SHOULD KNOW THAT I CLAIM NO ACCOMPLISHMENT BY MY INDIVIDUAL ACTION BUT ONLY BY COLLABORATION AND TEAMWORK. THEREFORE I ONLY CAN ACCEPT THE COMPLIMENT ON BEHALF OF HUNDREDS OF COOPERATING INDIVIDUALS WHO UNFORTUNATELY REMAIN ANONYMOUS.

REGINALD R. ISAACS
Cambridge, Mass.

Sirs:

Your Round Table report is really a wonderful textbook.

MILFORD A. VIESER, *vice president*
Mutual Benefit Insurance Co.
Newark, N.J.

Sirs:

Congratulations on the excellent job you did in assembling the Round Table group and reporting on their conclusions.

But more than this, your issue bulges with news, information and ideas which cannot but be useful to retail lumber dealers and everyone else interested in housebuilding.

Retail lumber dealers who are to survive the strenuous competitive days ahead will do well to read HOUSE & HOME.

NORMAN P. MASON, *past president*
National Retail Lumber Dealers Assn.

continued on p. 33

Sirs:

... Only through such informative articles shall we be able to accomplish the desired end. Our job is to channel public thinking and to educate the masses in order to make this program succeed. Impartial enforcement is the first step, but unless we can educate the public to think and talk better housing all the policing we can muster will not do the job.

THOMAS M. BRAHNEY
Commissioner of Institutions
& Public Health
City of New Orleans

Sirs:

... Stimulating and thought-provoking. Is it possible to obtain several hundred reprints?

GARFIELD S. LANGWORTHY, *exec. director*
Redevelopment Authority of the City of York
York, Pa.

Sirs:

... The information is very well presented and should be stimulating to all who read it.

KARL MAIER JR.
Manager of residence loans
Northwestern Mutual Life Insurance Co.
Milwaukee

Sirs:

Your modernization issue struck sympathetic ears in this office. I find the material covered very complete, expressing an idea we have long felt, that some older buildings, if properly remodeled, can be very rewarding.

JOHN CARDEN CAMPBELL, *architect*
Campbell & Wong
San Francisco

Sirs:

... Your story on slum rehabilitation should awaken everyone to the disgraceful slum situation in so many of our cities.

WILLIAM F. SCHNITZLER
Secretary-treasurer
American Federation of Labor
Washington, D.C.

Sirs:

... A remarkable job. You deserve a great deal of credit.

SAMUEL E. NEEL, *general counsel*
Mortgage Bankers Assn.
Washington, D.C.

Sirs:

... Thorough and interesting.

Omaha's pilot-area project is nearly completed and I am pleased to report that we have not had to condemn one single property, thanks to the enthusiastic effort of all owners to bring their properties up to minimum standards. We are interpreting the program to large civic groups for the purpose of obtaining their cooperation and support in presenting a model ordinance to the Omaha City Council in November.

N. P. DODGE JR.
Omaha
continued on p. 88

DWYER KITCHENS



Gas or electric range.
Electric refrigerator.
Counter, range-top and
sink in one seamless
piece. Cupboard and
undersink storage. All in
units 39" to 69" wide.

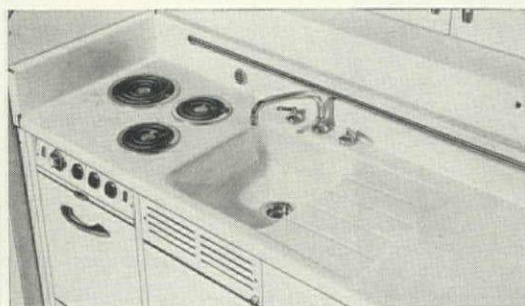
VITREOUS PORCELAIN
FRONTS AND WORK TOPS

4 SIZES—39 TO 69 INCHES WIDE



Modern Ranges

Electric range Underwriters approved. Gas range AGA approved; burns natural, mixed or bottled gas. Convenient waist-high broiler. Oven heat control. Roller-bearing utensil drawer.



One-piece Sink and Range-top

Range-top, sink, drainboard and work top in one continuous piece... rounded corners and not a crack or crevice to harbor dirt or grease. Gleaming white acid-resisting porcelain. Mixing faucet and crumb-cup strainer included. Dwyer Kitchens available in Recess Models (with continuous sink-and-back rail as shown here) or in against-the-wall models as shown in full illustration above.



Electric Refrigerator

Vitreous porcelain interior and front. Sealed unit never requires oiling. 5-year warranty. Freezer compartment for frozen food and ice cubes. Handy push-button door and interior light.

MADE BY SPECIALISTS IN COMPACT KITCHENS FOR 27 YEARS

Dwyer Kitchens are designed, engineered and manufactured entirely in our own plant... by men who have concentrated on compact kitchens since 1926. Persistent effort has developed kitchens with maximum facilities in minimum space while retaining practical features of rugged durability.

Rugged construction characterizes Dwyer Kitchens. Mechanical and electrical equipment is unsurpassed in quality. Vitreous porcelain surfaces never require painting; soap and water keep them permanently beautiful. Installation is simple and all mechanical parts can be serviced from the front.

MAIL COUPON OR WRITE FOR COMPLETE BULLETINS

DWYER PRODUCTS CORPORATION
Dept. D-123
Michigan City, Indiana

Name _____
Address _____
Town _____ State _____

Dept. D-123

KENFLEX *provides every*

VINYL TILE

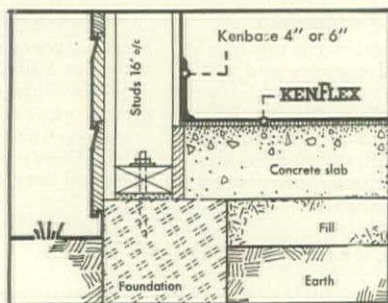
for today's homes, offices, stores,



Specify for commercial use: KenFlex has decorative beauty plus the important economy advantages of rugged wear, extreme grease resistance and easier maintenance.



Specify for residential use: The coordinated beauty of the 15 colors plus the ease and economy of upkeep make KenFlex ideally suited to homes. Recommended installation shown below.



New as it is, KenFlex has been thoroughly proven in actual use! One example of this exhaustive research is the test installation that was placed in a major, heavy-trafficked New York office building. Here, over 13,000,000 people have walked on a KenFlex Floor in the past 13 years...yet it shows no signs of wear...is attractive as if it had been installed yesterday.

KenFlex is truly a superior floor...combining the best qualities of vinyl and asbestos. It's rugged for long, hard service...colorfully beautiful but never needs waxing except to make the glowing colors shine a bit more. And, KenFlex sets a new standard in grease resistance...it's impervious to cooking and petroleum oils, alkalis, alcohols, most acids and reagents. Still, it cleans without scrubbing and colors never wear off...they go clear through the tough tile.

Specifications and Technical Data

INSTALLATION

KenFlex can be installed over any smooth, firm interior surface...wood, plywood, radiant heated concrete slabs, even over concrete in contact with the earth...on or below grade.

THICKNESSES

Laboratory and on-floor usage tests have proven that vinyl has great durability and wear resistance. Therefore, standard gauge (1/16") is recommended for normal residential and commercial uses. If exception-

ally heavy traffic is expected, 1/8" gauge is recommended.

INSTALLED PRICES

Prices range from 40¢ per sq. ft. to 65¢ per sq. ft. depending on which of the thicknesses is chosen—for minimum area of 1000 square feet over cement underfloor.

SIZE

Standard tile size is 9" x 9". Also available are 9" x 9" decorative ThemeTile and 1" x 24" Feature Strip.

THE KENTILE, INC. FLOORING CONTRACTOR is a trained and experienced flooring expert...fully qualified to give you whatever assistance you might require. Call on him whenever you must specify flooring for new construction or remodeling of any type or extent. Find his name and address by looking under FLOORS in the classified pages of your Phone Book.

KENTILE, INC., Makers of:

KENTILE ASPHALT TILE
SPECIAL (greaseproof) KENTILE
 KENCORK FLOORS and WALLS
 KENRUBBER TILE FLOORS
 KENFLEX VINYL TILE



KENFLEX

VINYL TILE
TRADE MARK

by the makers of Kentile

KENTILE, INC., 58 Second Ave., Brooklyn 15, New York • 350 Fifth Ave., New York 1, New York • 705 Architects Bldg., 17th and Sansom Streets, Philadelphia 3, Pennsylvania • 1211 NBC Bldg., Cleveland 14, Ohio • 900 Peachtree Street N.E., Atlanta 5, Georgia • 2020 Walnut Street, Kansas City 8, Missouri • 4532 South Kolin Avenue, Chicago 32, Illinois • 4501 Santa Fe Avenue, Los Angeles 58, California.

modern flooring advantage

institutions

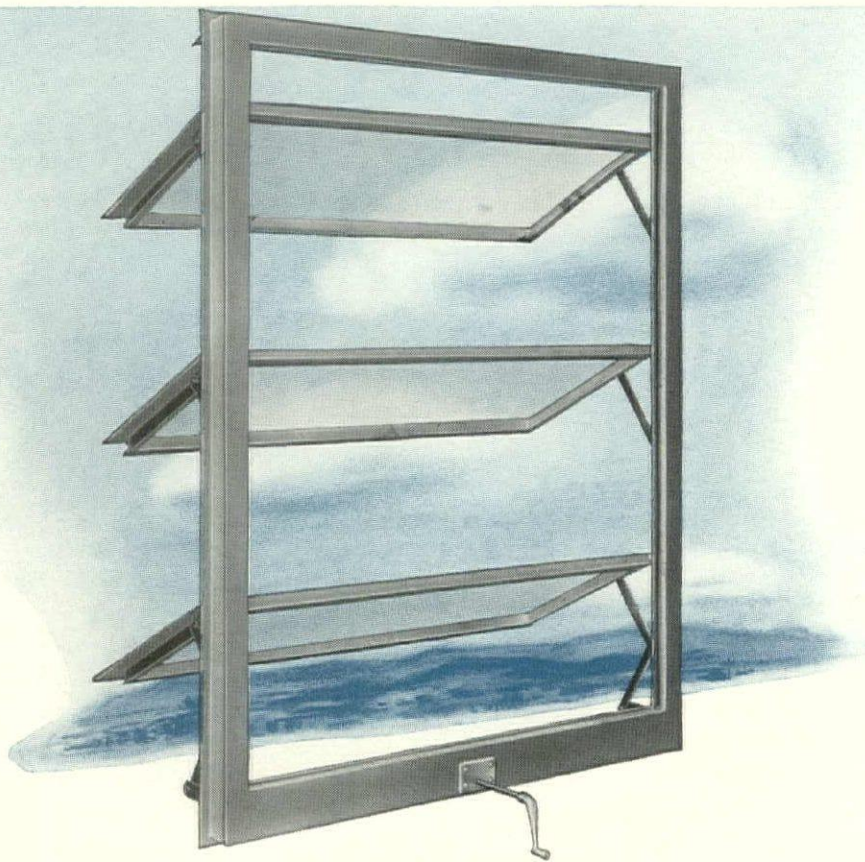
In this drug store, the colorful KenFlex Floor is both *beautiful* and *functional*. And its grease-resistant properties save time, work and money...especially at the counter section. KenFlex colors shown are Marigold, Egret White and Ivy ThemeTile.



This kitchen-dining area owes much of its *charm* and *efficiency* to the modern KenFlex Floor that's so easy to clean with just a damp mop...needs waxing only to give the lustrous surface a brighter gleam. KenFlex colors shown are Desert Sand, Antique Coral, Bird ThemeTile and White Feature Strip.



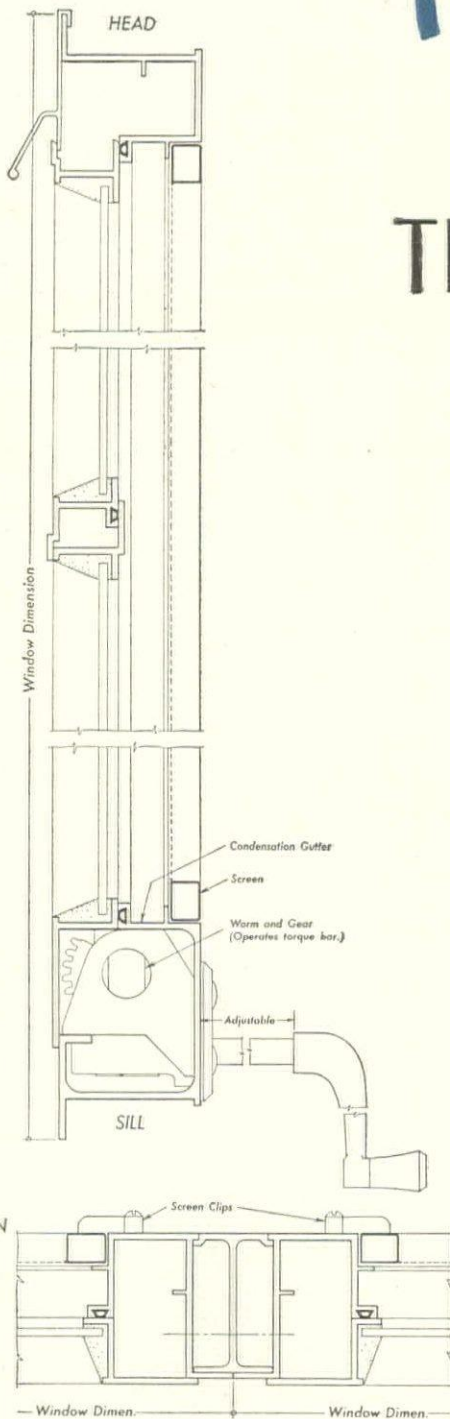
Now ready



The New Lupton Aluminum AWNING WINDOW

Before you make any decision regarding Awning Windows, you will want to see the quality and value in this newest development in the Lupton line — the new Lupton Aluminum *Awning* Window! . . . It is engineered to Lupton standards — developed out of our more than 40 years experience in the design and construction of metal windows — and is precision built in every detail. From every practical standpoint of installation and service, we believe you will find it the finest window of its type the building industry has ever known . . . It features a *centrally* operated control bar that delivers equal power

to both jambs. This perfect balancing of power means *easier* opening, *easier* closing and a perfect seal around each sash! . . . The new Lupton Aluminum Awning Window is now ready in Modular and Residence sizes for business buildings, hospitals, schools, residences. Let us tell you more about this new Lupton Aluminum Awning Window. Write today for specification, details and sizes.



MICHAEL FLYNN MANUFACTURING COMPANY
700 East Godfrey Avenue, Philadelphia 24, Penna.

Member of the Steel Window Institute and Aluminum Window Manufacturers Association

LUPTON METAL WINDOWS

USE THE **FINISH** THAT STARTS THE SALE!

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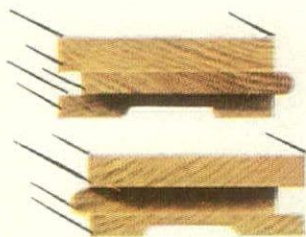
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LETTERS

ARCHITECTS' FEE SCHEDULES

Sirs:

News (H&H, Sept. '53) contains an item on the Georgia Chapter AIA fee schedule for builder houses. The AIA Committee on the Home Building Industry disagrees with you that "the No. 1 problem is usually fees." Our committee has discussed this thoroughly with many architects over the country who do work for merchant builders. Those who perform a satisfactory service have no worry about fees. Therefore, let us say that the No. 1 problem is the extent and quality of service which the architect delivers.

You quote me as saying the fee schedule of the Georgia chapter is "ridiculous." I made no comment on that fee schedule in particular but did state strongly that it "was ridiculous to set up a schedule of fees when there was no standard of practice in the field."

I feel that the Georgia schedule is designed entirely for the architect who designs individual houses for builders of no more than 10 or 20 houses a year. The Georgia schedule is patently unsuitable for large development work as the Georgia chapter will, I think, readily admit.

L. MORGAN YOST, *FAIA, chairman
Committee on the Home Building Industry
American Institute of Architects
Washington, D.C.*

Sirs:

. . . One of the finest jobs that you have done to date. It would seem to be the kind of thing that will become almost a bible for those seriously interested in rehabilitation.

I like particularly your admonition that co-ordinated action is essential to successful rehabilitation.

Frank Cortright joins me in congratulating you.

EARL W. SMITH
*Chairman, NAHB
Research Institute & Construction Committee*

Sirs:

I have made this whole program a major objective during my administration.

We are proud of the part Chicago is playing in developing the technique by which our major cities may solve this serious problem. Your organization is performing a great service in bringing to the attention of architects and builders the development of a body of knowledge on the subject.

MARTIN H. KENNELLY, *mayor
City of Chicago*

Sirs:

The article is good. . . .

RICHARD SMYKAL,
*Lieutenant general, retired
Special deputy building commissioner*

Sirs:

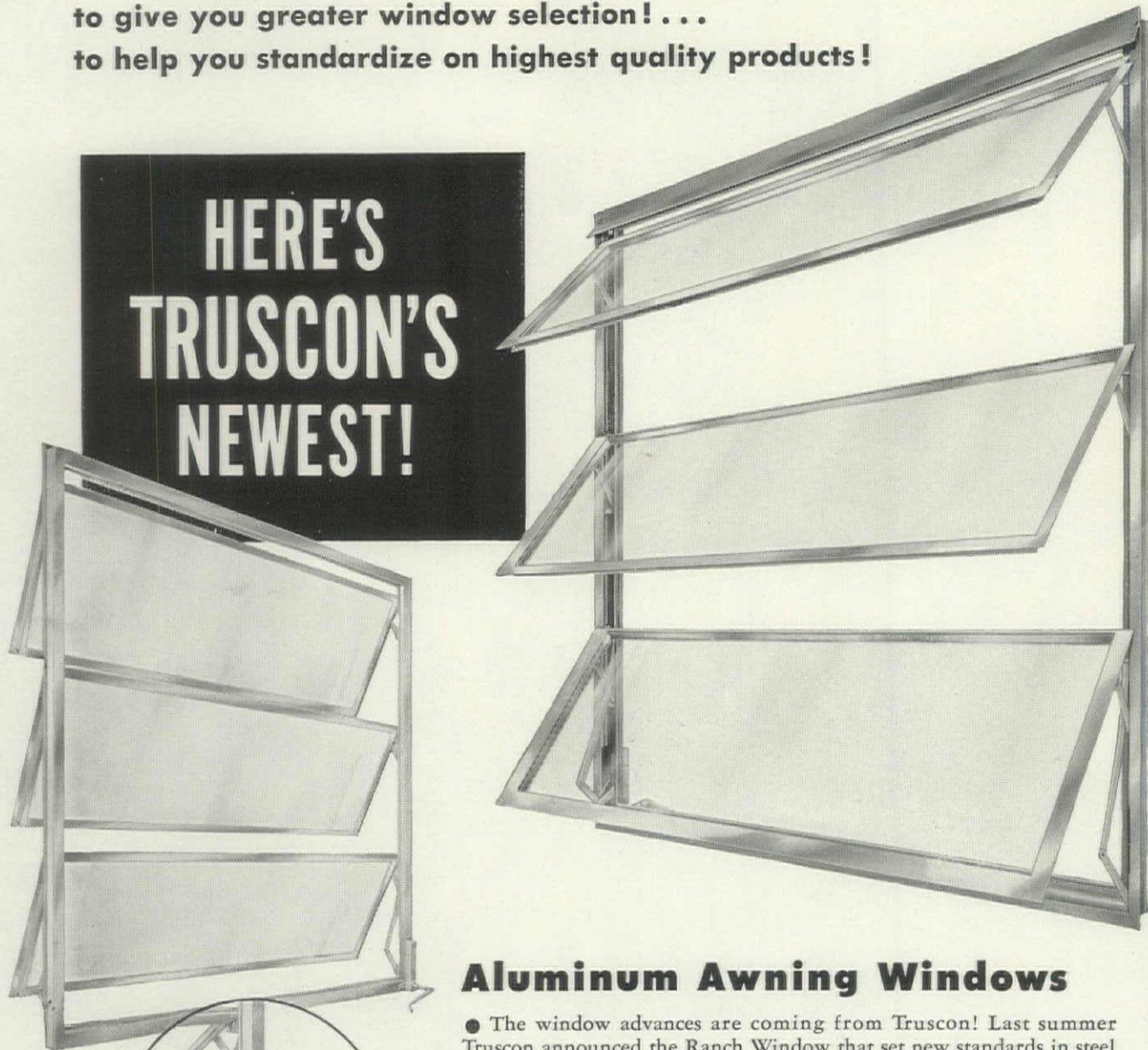
All I would have added to *How US cities are meeting the challenge of rehabilitation* would be a little more credit to the mayor. . . .

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Pacific Air Industries

How to hit pay dirt on a hillside

With level land near cities getting scarce and costly, many builders are taking to the hills. Big islands of rolling land left high and dry in the first waves of expansion are getting a second look for development. New earth-moving equipment and techniques are making hill building possible as never before. Good planning ideas worked out by architects for individual homes are being used on a big scale.

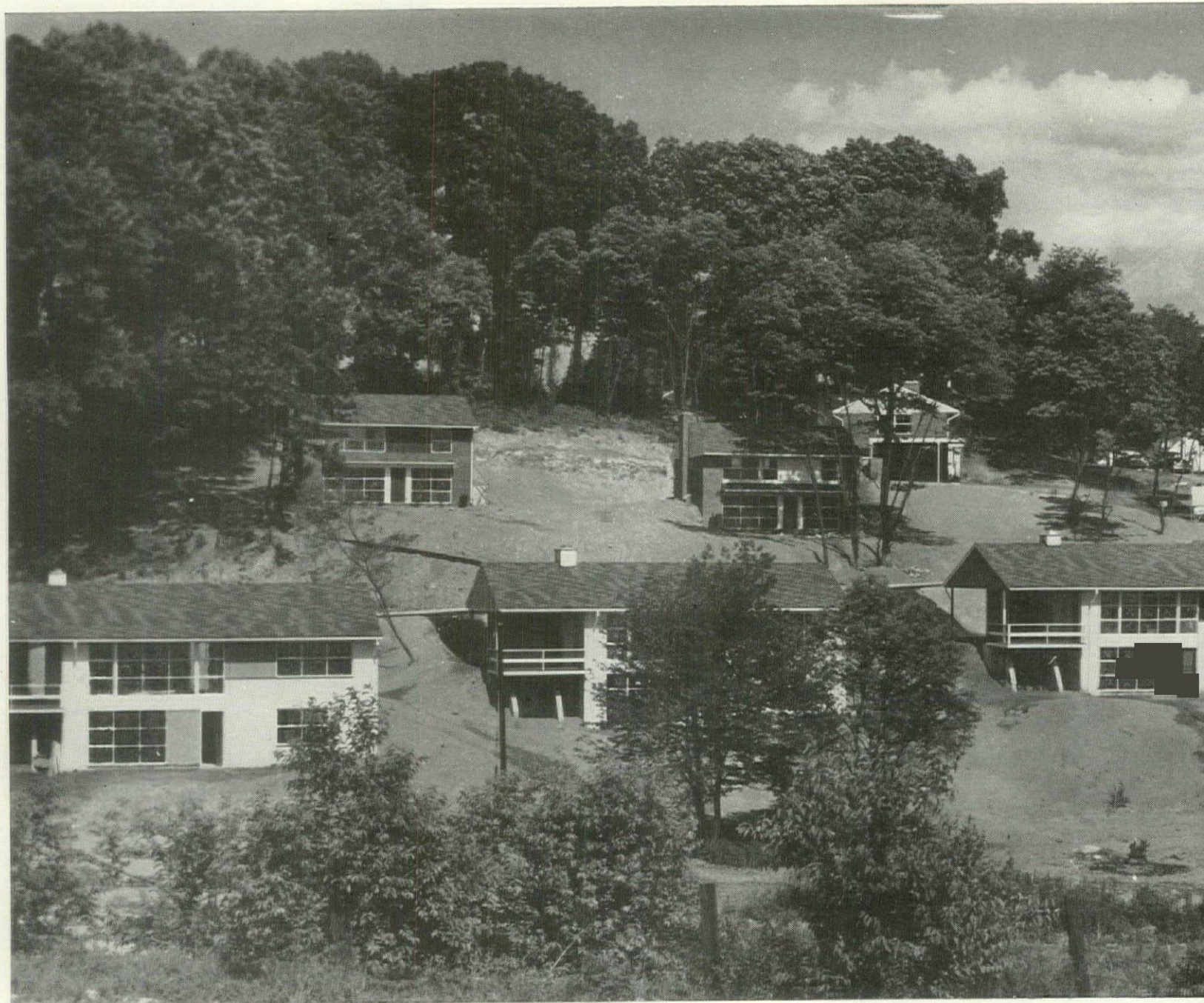
Hills, carefully used, offer big sales assets. Often cheaper and closer to town than flat acreage, they can be bought at a bargain and built on to sell at a premium:

- ▶ Buyers will pay more for valley views, cooling off-ground breezes, and the trees that bottom lands often lack.
- ▶ Hillside houses can appear wider spaced, more varied, and more distinctive as a community than rows of flatland homes.
- ▶ Hill houses can look out over their neighbors instead of directly at them, get vertical as well as horizontal privacy. Level outdoor living areas in back or side yards can use the hill as a "fence."
- ▶ Sloping land often helps designers tuck such sales features as expansion basements, playrooms and garages under their houses, get extra cubage under one roof at little extra cost.

But hill building poses special problems. Hill builders need the help of competent land planners, architects, landscape architects and engineers. Too many builders (and their buyers) have learned the hard way they should have used a slide rule and drafting pencil instead of a bulldozer. Usually it is better to change the shape of the house to fit the shape of the hill, saving the natural contours, the trees and undergrowth.

Improvement usually costs more. Planning and land preparation can take longer; excavating, moving materials, pouring foundations can be more laborious. A builder cannot always expect as many houses to the acre or as quick a return on his investment. **But the smart builder can write off his high development costs against even higher profits.**

In the five case studies of hillside housing which follow, the extra effort has paid off handsomely.



To hit pay dirt

1. Dig into the slope for expansion-

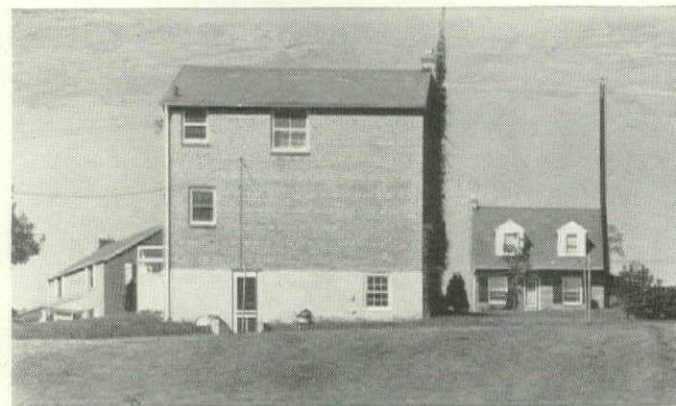
Here is how a three-man team of builder, architect and realtor dealt with the three-dimensional problem posed by a steep hillside site:

▶ **Builder E. J. (Jack) Turner** of Seal & Turner, Inc. was shopping around for land last year, passed a battered old "Builder's Land for Sale" sign, looked at the steep slope behind it and decided it was an excellent place—if only he could build on it. So he talked to

▶ **Realtor Dave Pomeroy** of Fielding & Pomeroy who was at first doubtful about the site because so many other builders had passed it up. But he knew it enjoyed an excellent location—ten blocks from downtown Media and a railroad station, three blocks from a bus line, within easy reach of two elementary schools and two shopping areas, so he suggested that Seal & Turner call on

▶ **Architect George Hay**, who agreed the land was desirable, was sure he could plan landscaping and houses to make the job economical for a project.

Seal & Turner bought the land, Hay designed these expandable-basement houses to fit it and Fielding & Pomeroy sold all the houses in two months.



Before Hay designed for Seal & Turner, rear elevations on 1949 houses looked like this: tiny windows miss sweep of rolling countryside; poorly lighted basements are no invitation to indoor-outdoor living. Now see right.



Wm. Turner

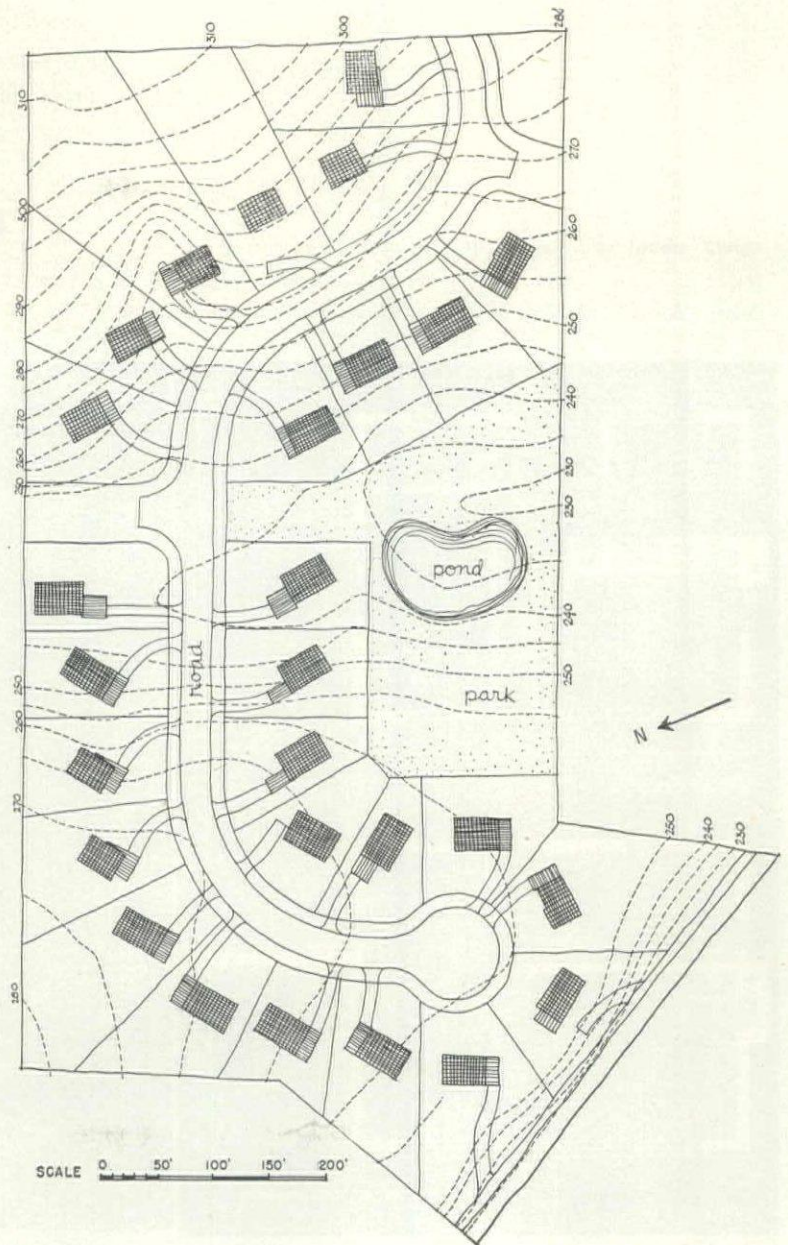
basement houses

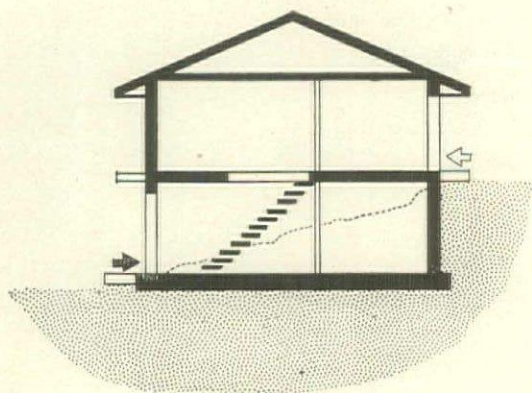


L. S. Williams

1952 rear of Hay-designed house in 27-unit Edgewold has window walls on entry floor (top) and in ground-level living area facing valley view. Note two-story version of car porch economically using porch floor for roof shelter. Site plan, right, shows how houses fit contours.

LOCATION: Upper Providence Township, Pa.
 SEAL & TURNER, builders
 GEORGE HAY, architect, landscape architect
 G. D. HOUTMAN & SONS, engineering
 FIELDING & POMEROY, sales
 TRAVELERS INSURANCE CO., financing
 Sales price: \$14,300 to \$16,650





Gold in the hills. The ten-acre site cost the builders about \$350 a lot, \$50 less than they would ordinarily pay for a 75' x 125' strip of undeveloped flat land. Improvements for the 27 lots brought manufactured costs up to \$1,600 per lot. "Yet," observe Seal & Turner, "we paid as much as \$1,900 for the same size improved flat-land lots that weren't half as attractive."

Hay and Engineer Jack Houtman, who works closely with him on all his site-planned developments (H&H, June '52, July '53), agree that the land would not have been buildable a generation ago because of lack of versatile earth-moving equipment. Land clearing costs were \$3,200 (8,000 yds. at 40¢ per yd.).

Siting of each house was completed before arbitrary lot divisions were made. Thus all houses were oriented for view and privacy, sited to give buyers uphill or downhill outdoor living areas, arranged with gradually sloping driveways to carports. Site planning and engineering cost was \$154 per lot. Hay's house design fee was \$50 per house.

"Even if you pay as much or a little more to develop hilly land," says Jack Turner, "you end up with a more valuable, salable piece of ground every time."

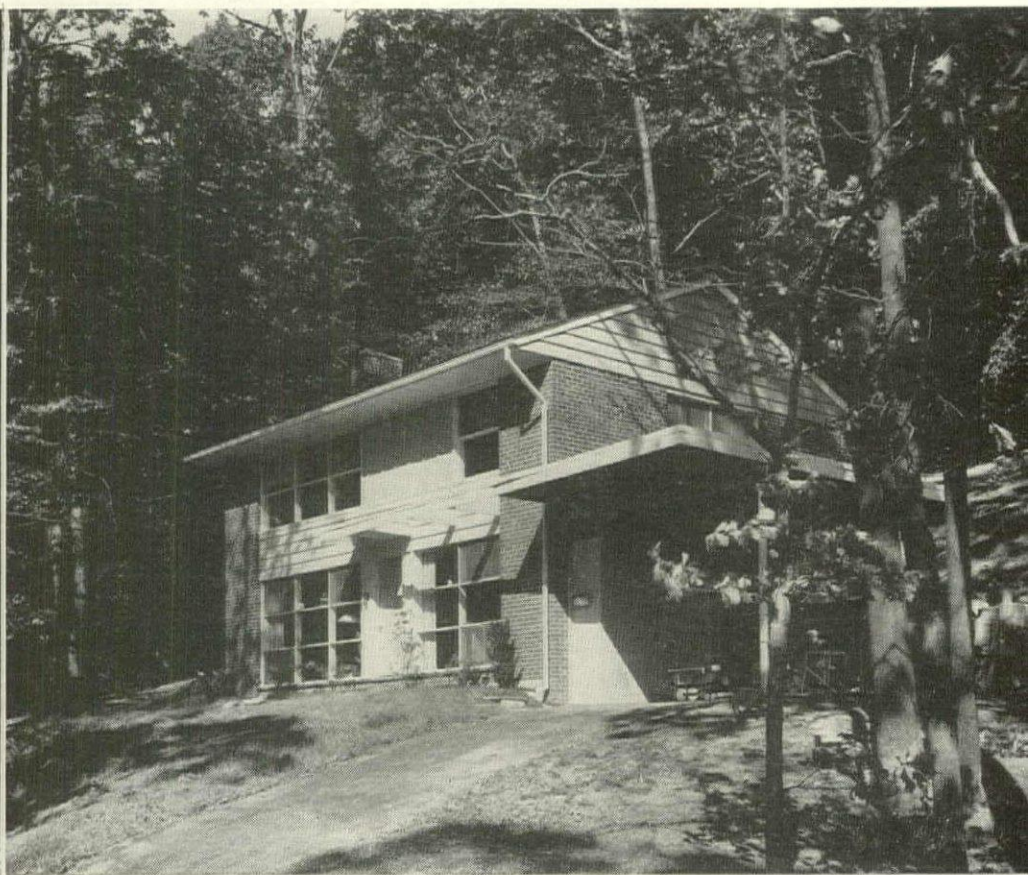
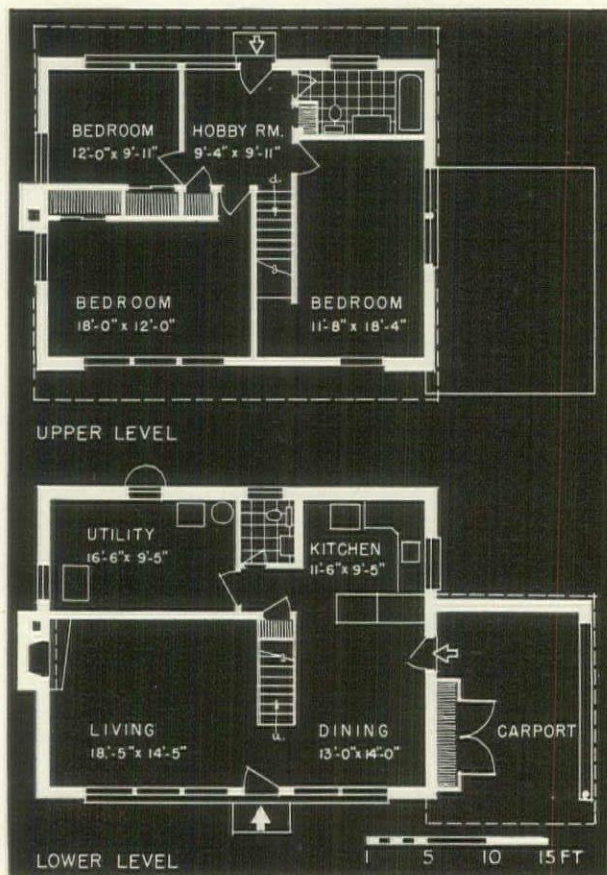
Pay dirt. Builders as well as buyers profited from the improvements:

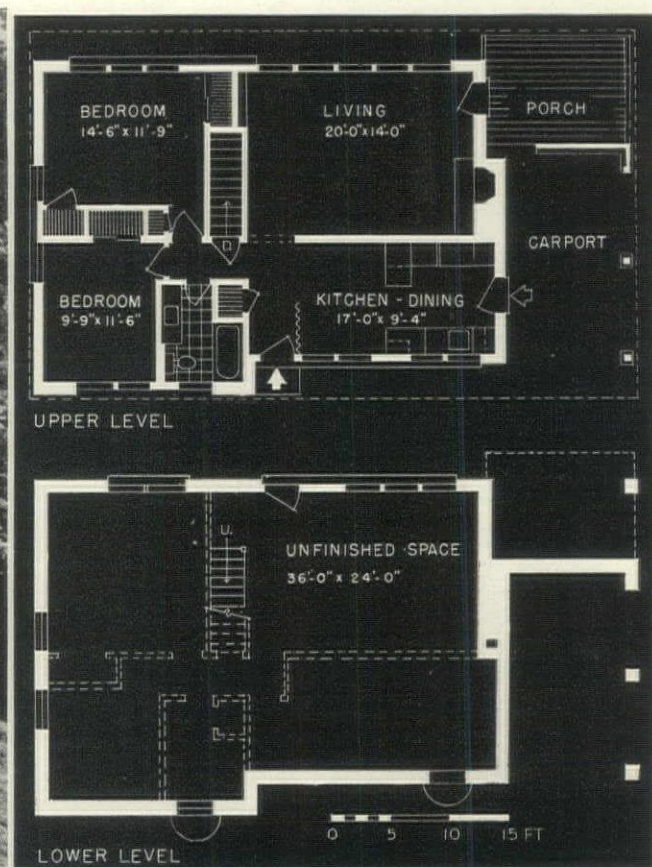
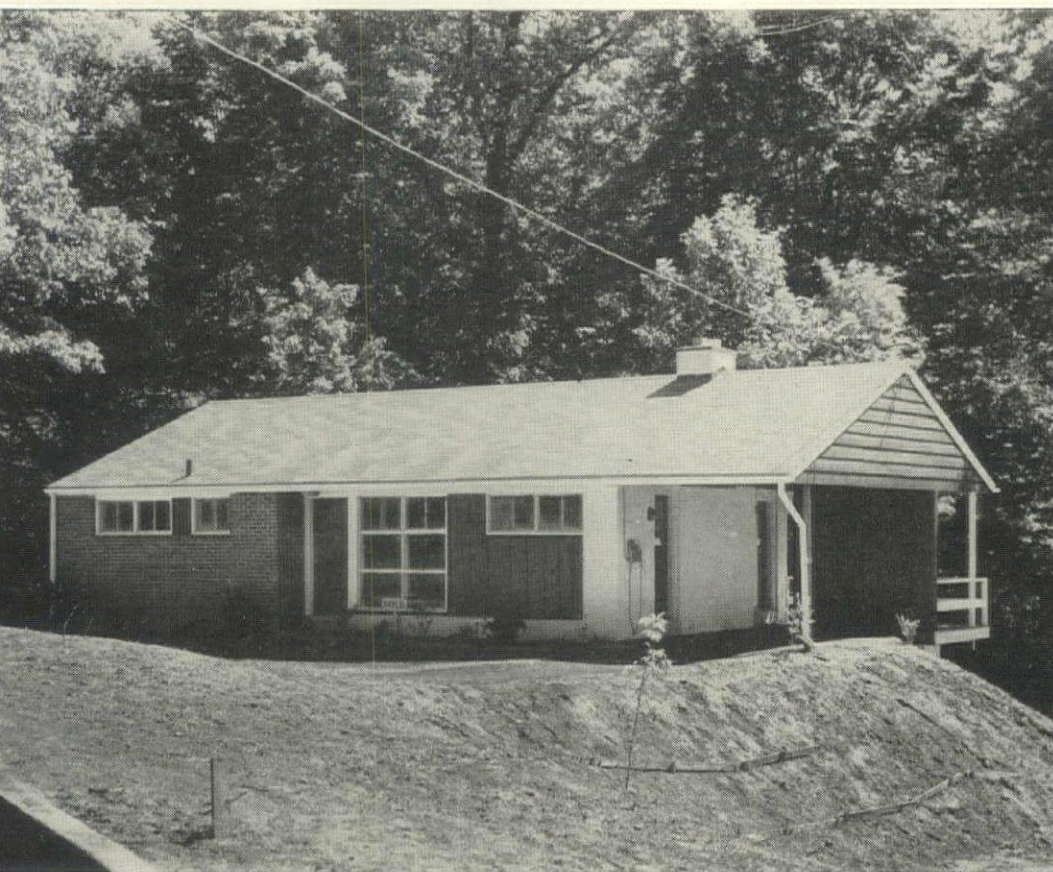
- ▶ Houses sold so fast advertising costs were only \$77 per house even though all houses were sold conventionally with one-third down.
- ▶ No furnished model was needed to enhance buyer appeal of the houses.
- ▶ Builder capital was tied up only a little over six months during construction, completion time from start to sales for the entire development.
- ▶ Because of design and close-in location, the builders netted a 3/4-point premium on all mortgages made by Travelers Insurance Co.

Uphill model sold for \$15,300. Driveway was curved to lessen grade to carport. Utility, storage, bathrooms are on lower, "buried" side. Exit to rear yard is from second story.

Uphill model was most popular . . .

L. S. Williams





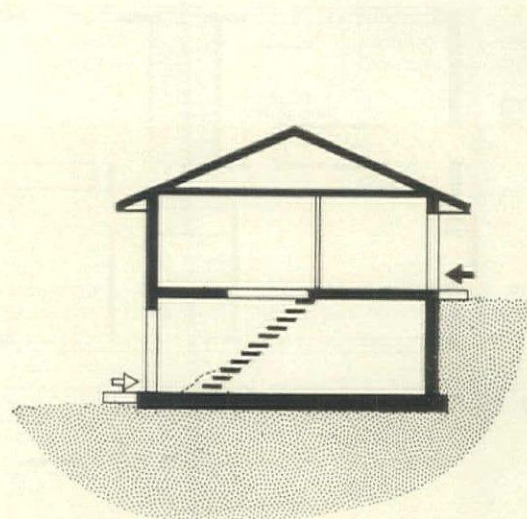
Downhill model at \$14,300, has carport almost at level of road, biggest windows facing view. All windows have standard aluminum sliding sash in standard wood bucks.

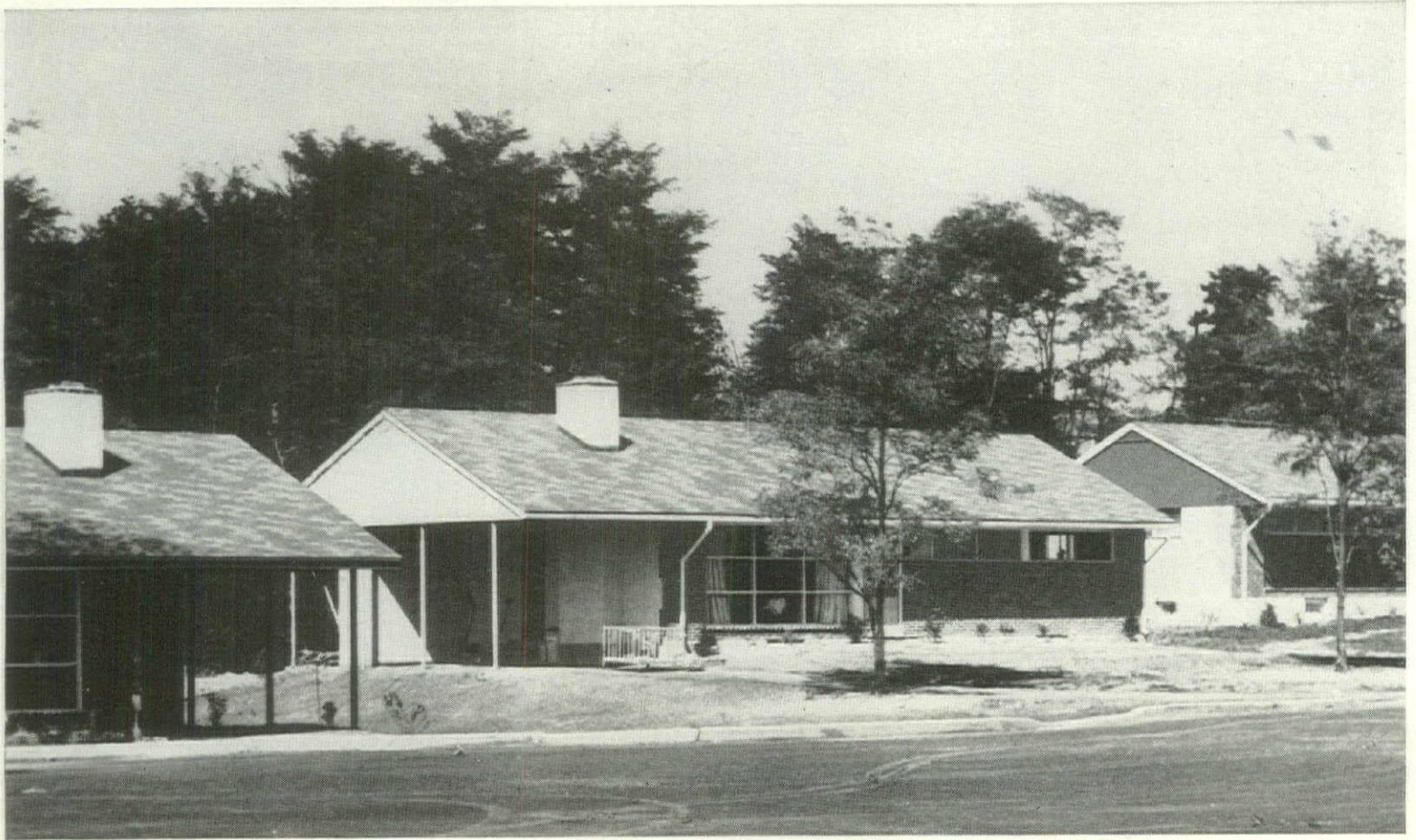
downhill houses were best buy

"The houses were such good buys," says Hay, "because, like many hillside houses, they offer more cubage than a one-story house—at a lower cost." Reason: there is more area under one roof. The basic downhill model was the most economical to build (construction materials are cheaper to move downhill than up) and the best buy at \$14,300 (downstairs incomplete). Even so, half the buyers who bought them added enough—by having the expandable lower level finished—to bring their selling price as high as the most expensive houses with big porches and on choice lots. For \$2,500 buyers got an additional 765 sq. ft. of living area! This illustrates that buyers will not only pay to get a usable daylight basement but will also pay extra to have it finished off. In all downhill models, rough plumbing was offered in the lower level for \$75 extra.

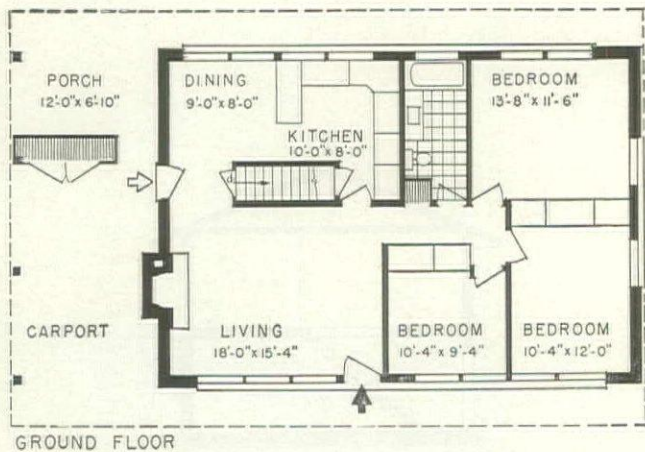
Square-foot building costs on the uphill model (1,439 sq. ft. of finished floor area) were \$9.31 without carport or porch. Costs on the downhill model, which is 4' longer, were \$12.21 per sq. ft. for 993 sq. ft. of finished floor area (second level only), an amazingly low \$8.14 per sq. ft. for 1,766 sq. ft. of usable space on both levels.

Fielding & Pomeroy report the main attraction of the uphill model was the extra large upstairs bedrooms. Big sales point for the downhill model: the lower floor was cooler in the summer, when all sales were made.



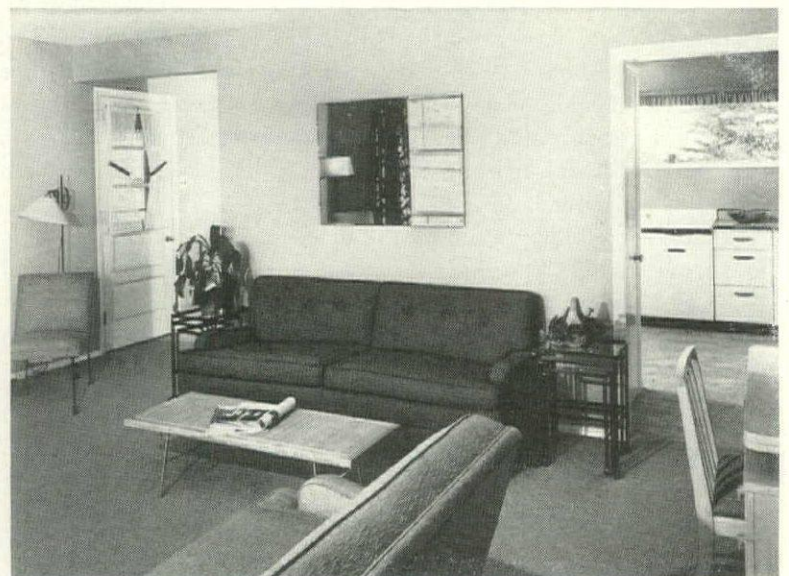


"The more scenic, the more salable"



Three-bedroom and carport houses in the valley bottom sold last. "The most heavily wooded lots were more scenic, therefore more salable," says Realtor Dave Pomeroy. Basic price on these models was \$14,700. Because they had bigger foundations (more living area all on one floor), more partitions, they were the costliest to build.

Versatile young (33) Architect Hay did his own color coordinating in Edgewold, used strong green, Swedish red, earthy brown accents on predominantly white stucco houses, pastels on predominantly red brick houses.



Kitchen is in front, facing street, in downhill model (left). Living room (above) is in front of house on uphill model.



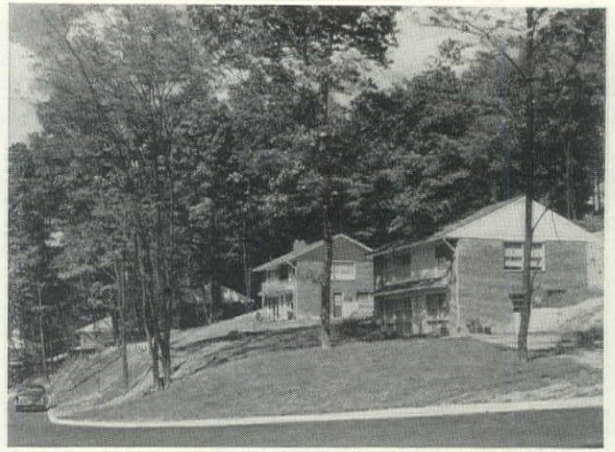
Country living with city conveniences

"Builders Seal & Turner" says Hay, "upgraded the area around Edgewold from \$10,000 houses to \$15,000 houses. Most builders do just the opposite."

The adjoining area, zoned as was Edgewold for 50' lots, had been a pleasant suburban street until after the war, when a few builders crowded some unwisely sited houses on narrow lots. Seal & Turner built on 75' lots, believing they had much more sales appeal (actually houses look more widely spaced because of vertical as well as horizontal spacing).

Their neighborhood improvement idea was catching: owners of several houses on the main street into Edgewold built garages, put curbing in.

Neighborhood-conscious Hay, who won a regional NAHB Better Neighborhood award last year, noted that part of the site was landlocked, designed a swimming pond for children. In hot summer months advertising called attention to the one-acre park and pond. Total cost for scooping out a shallow depression with a clam shovel and building a concrete abutment to keep the hill from washing into the pond was \$200. A sluice gate keeps the water at a safe level. Says Hay: "If the site is right, a similar idea could be worked out almost anywhere for no more than \$500."



Heavily wooded lots sold fastest. Builder Jack Turner, graduate in forestry, made special effort to save trees, installed pipes under driveway for water runoff when trees were in hollow (as in photo below). Note also (in same photo) how carport of center house is dropped one floor on very hilly site.





LOCATION: Castro Valley, Calif.
 LOUIS and AUGUST RAHLVES, builders
 DAVID H. HORN, architect
 WALTER D. LUCAS, associate
 OSMUNDSON & STALEY,
 landscape architects
 Sales price: \$14,195 to \$14,795

"Do-it-yourself" patio was a big sales feature and 75% of buyers followed free detailed instructions for making it. Side fences are an extra, or can be built by owners. In rear facade, 8' jog allows placement of door to one side where it does not interrupt view windows. Jog also creates a sun pocket. At right of patio is a higher terrace for grass or flowers.

To hit pay dirt

2. Face the house toward the slope

Most uphill houses are planned for a downhill view from their front windows. But not these. Their largest windows are at the rear and the entire house is designed for outdoor living in a rear garden. With their backs to the street and the other rooftops, each house has a controlled, intimate view of what pleases its owners.

When Builders Louis and August Rahlves (the latter regional vice president of NAHB) first discovered enough hillside land for 40 houses in Castro Valley, 30 minutes by car from Oakland, they doubted if they could develop it to meet a primary requirement of California buyers: enough level space for outdoor living. Hillside lots above the street were too steep.

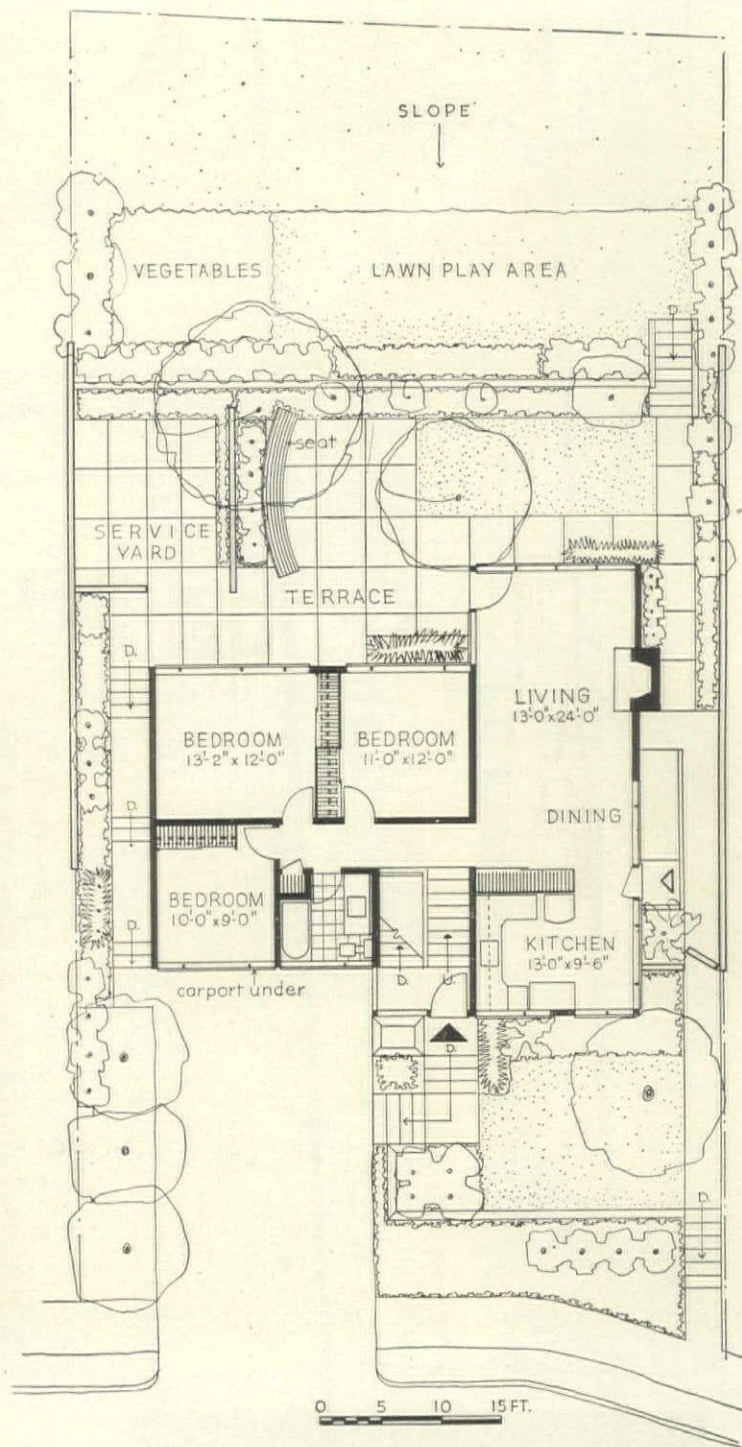
With their designers, the Rahlveses worked out a two-level house in which the upper floor is at the same level as the rear yard. They graded space for a small rear patio, then terraced a higher level for grass or a garden. To show how well this could look, they had landscape architects do their model house. The first 40 houses sold well and the Rahlveses are starting 60 more. Some of the downhill houses have the same plan; others have the garage on the top level, the living floor below.



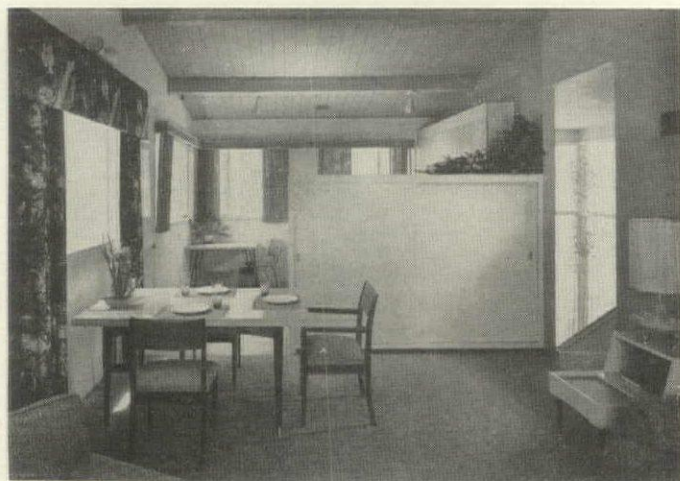
Lower floor, with glassed-in entrance for extra daylight, has carport, storage area, furnace room, an unfinished 14' x 24' room, bath with shower. Fences give privacy on 55' lot.

Builders are proud of floor plan which isolates living room from kitchen-bedroom-bath traffic. Top floor has 1,160 sq. ft. Lower level (264 sq. ft. plus carport) could become a private apartment. Free terrace plan is completely detailed, shows which plants to put where.

Short side of living room faces terrace and is in contrast with Neutra plan (p. 100). Here each family can create what it wants to look at. Landscaped model was important sales factor. Terrace door is at the left of the bank of tall windows.



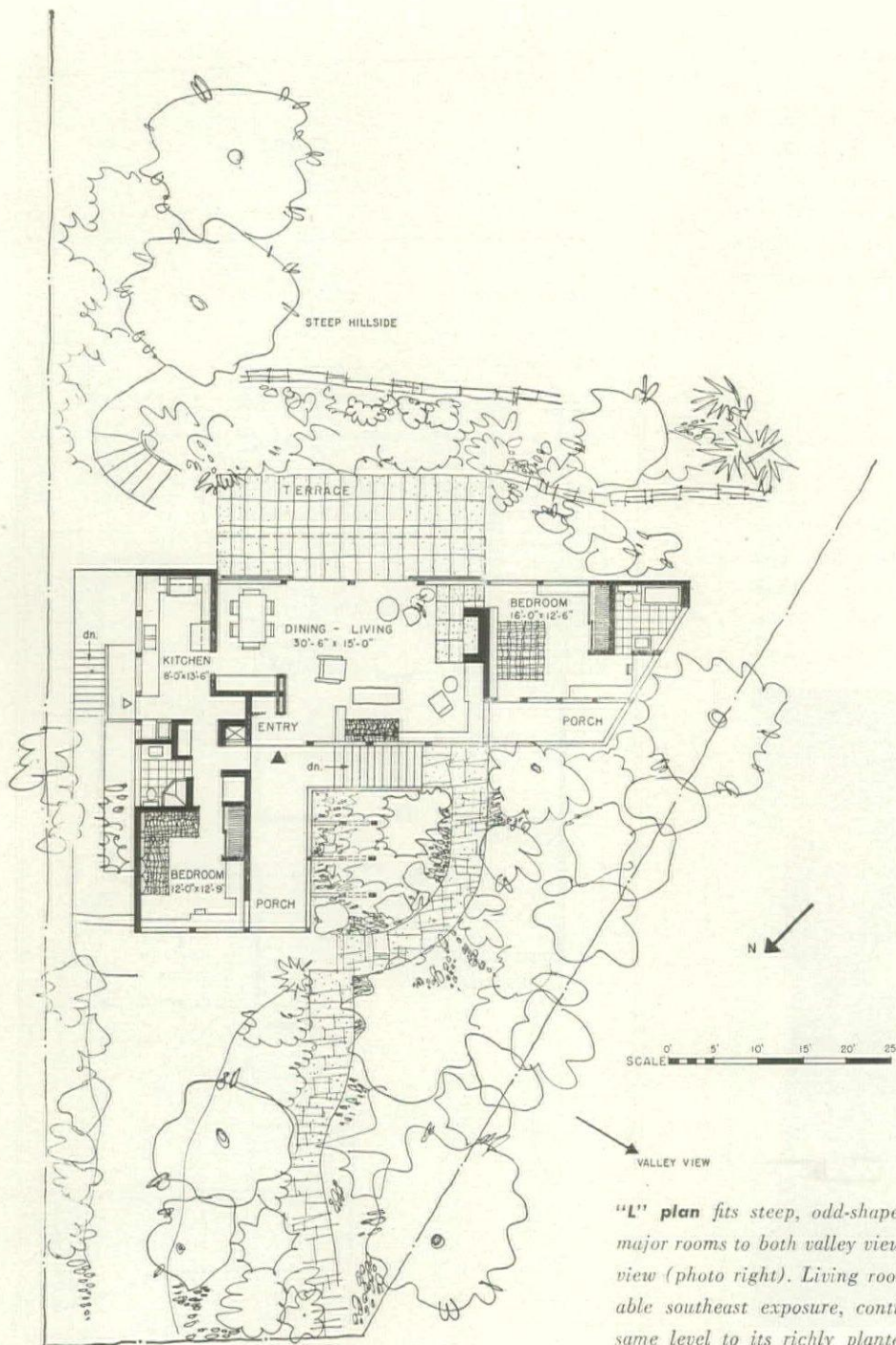
instead of the view



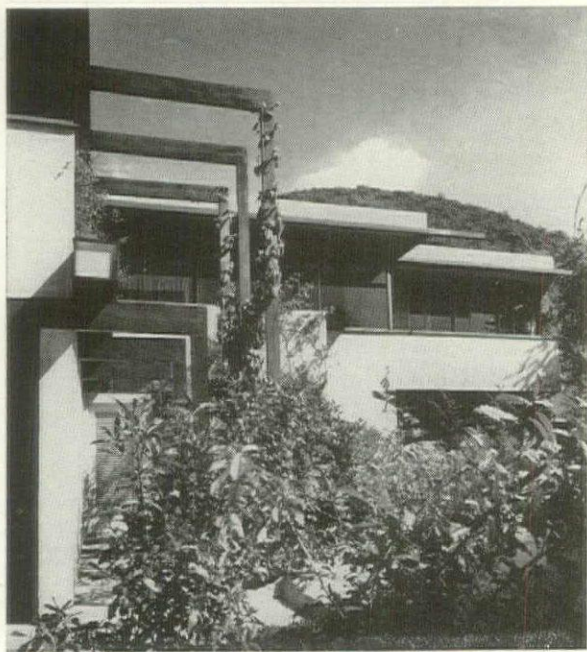
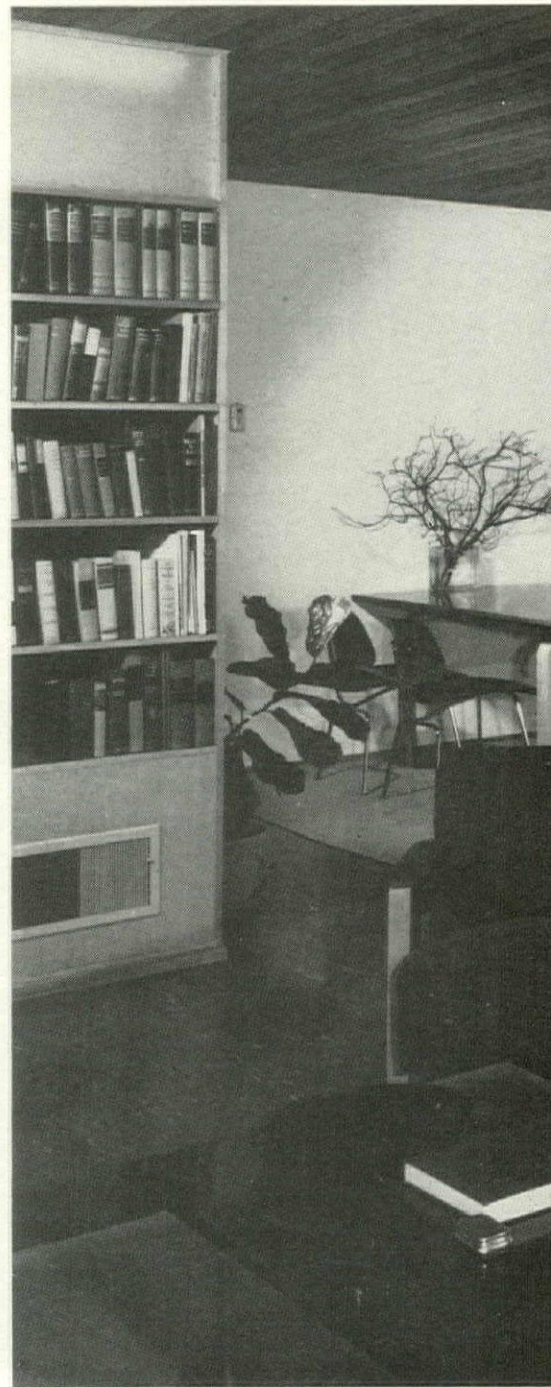
Free-standing storage cabinet is only separation between kitchen at front end of house and the dining end of living room. Five windows in kitchen, well-lighted hall (right) make the whole house bright.



High ceiling, open plan, handsome cabinets make an attractive kitchen. Mechanical equipment, except fan, disposal unit, are extras.



"L" plan fits steep, odd-shaped lot, opens major rooms to both valley view and garden view (photo right). Living room has favorable southeast exposure, continues out at same level to its richly planted terrace.



Outriggers form a trellis over the walk between garage (left) and lowered door to storeroom and utility areas, which are neatly tucked underneath the bulk of the house.

To hit pay dirt

3. Use the hillside

One approach to hillside planning is to set the house into the side of the hill, face all the rooms out, and bring the view in through great sheets of glass. People who live in this type of house, however, often pull the curtains closed—and leave them closed. They find it difficult to live with a dazzling panorama 24 hours a day.

Two different architects tried this approach on this steep hillside lot and got nowhere. Richard Neutra, the third architect retained by the owners, faced the house *into* the hill instead, and got away with it nicely.

Neutra's house takes advantage of the all-important valley view without letting it overpower the occupants. And it provides something just as important to hillside houses: a level, private space for outdoor living.

Like the Rahlveses (see preceding pages), Architect Neutra created a private view in back of the house, placing the indoor living areas to the rear and opening them up to a terrace at the same level. The approach was the same, the execution even better:



Photos: Julius Shulman

as backdrop for an outdoor living room

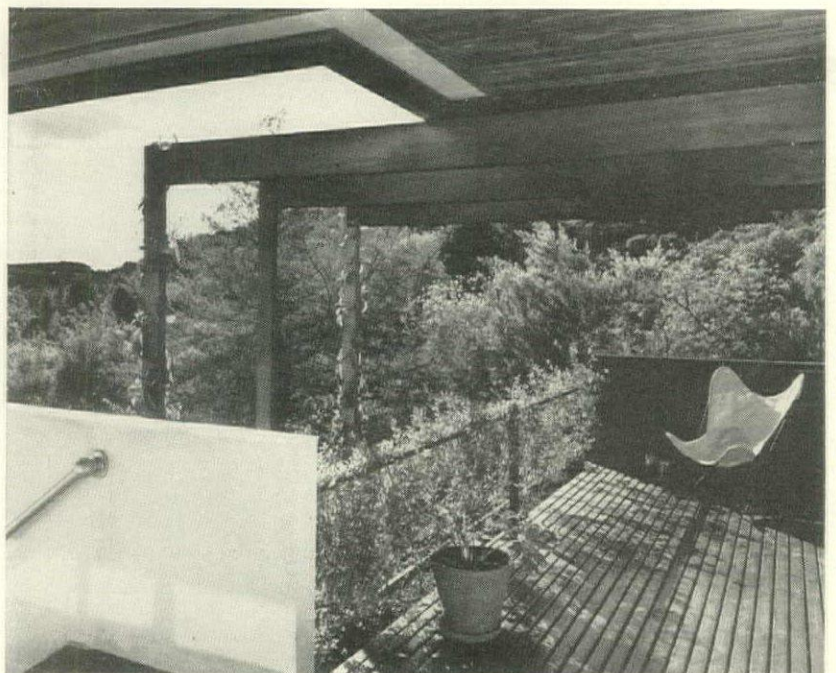
- ▶ The *long* side of Neutra's living-dining room parallels the hill, bringing the full length of the sitting and dining areas in closer contact with the garden.
- ▶ The whole back wall opens up through floor-to-ceiling glass, giving a wide view almost unbroken by window mullions. Two large sliding glass doors admit welcome breezes and allow easy movement between indoors and outdoors.
- ▶ The slope in back, steeper than the Rahlveses' site, was developed into a beautifully planted, gradually rising series of steps held by low brick retaining walls. Less abrupt than a fence, these form a visual back wall for the living area, nearly doubling the apparent room size.
- ▶ Living room and master bedroom have a choice of view: the near garden on one side, the long valley on the other.
- ▶ The Neutra house has the added luxury of small balconies on the downhill side, large enough to sit on and enjoy the sunsets or summer breeze.
- ▶ The kitchen has its own side entrance, as in the Rahlveses' houses, but is located in back where it is convenient for serving outdoor meals.

LOCATION: Beverly Hills, Calif.
RICHARD NEUTRA, architect
VICTOR E. EMANUELSON, contractor

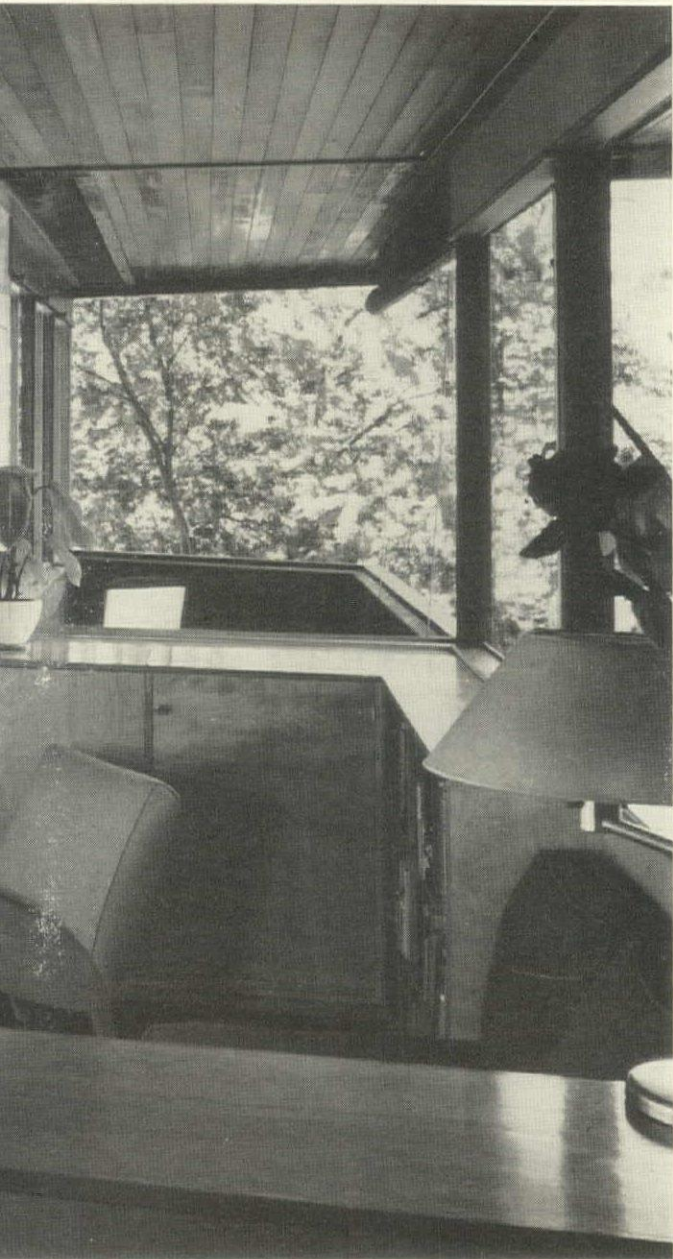


Fireplace wall of Roman brick separates master bedroom from living area, contains woodbox and bookshelves that lead into wall cabinets, couch and low space divider toward entry hall (foreground). Arranged in a snug semicircle, these built-ins form a wide visual guard rail on the valley side, prevent an uncomfortably abrupt down-view.

Downhill, a panorama;

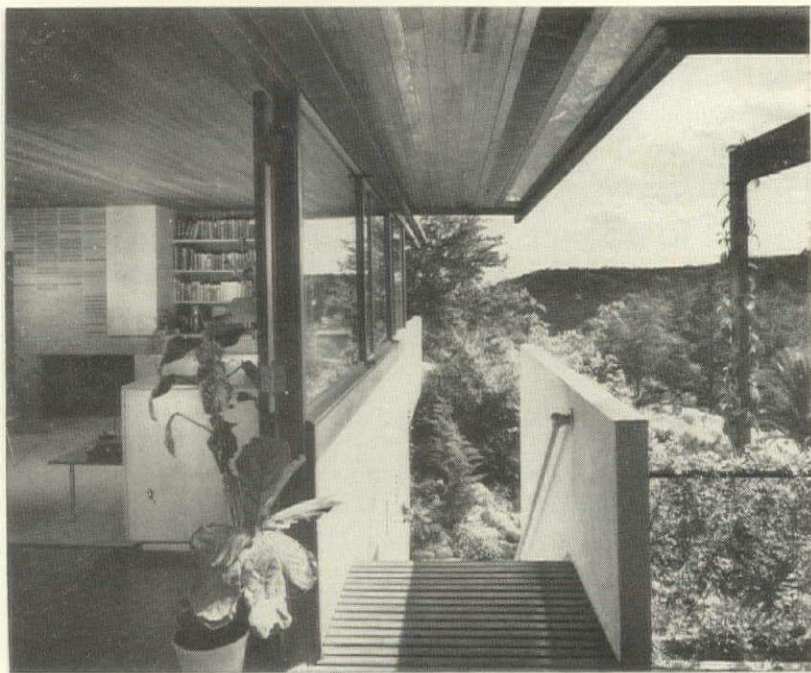


Shaded deck over the garage commands wide south and west views of the rolling landscape. Trellis and railing, designed for vines, help intertwine house and nature.

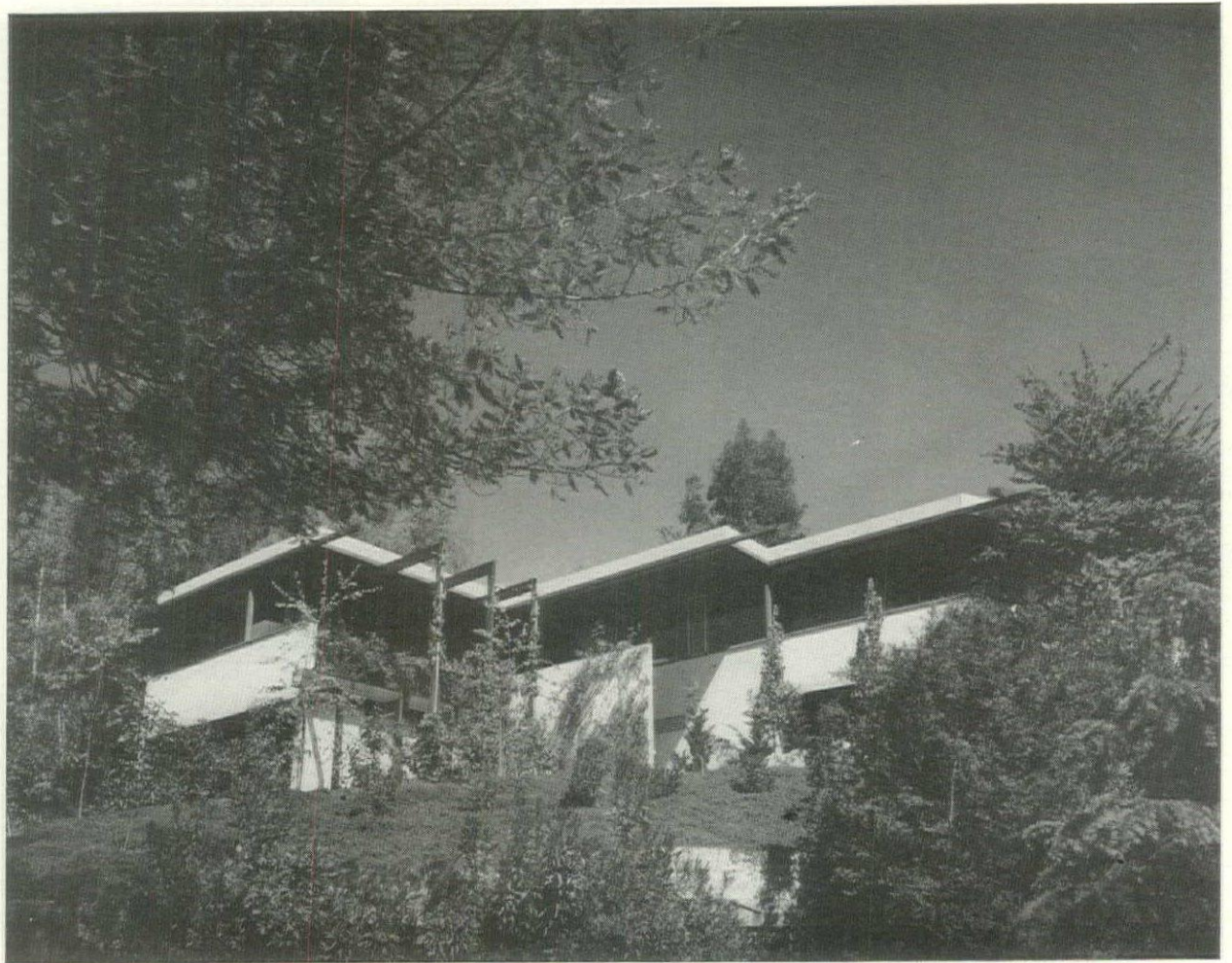


Closest unit facing dining area contains bar on one side, hanging space for coats on the other. Mirror in back of bar counter, which gives the appearance of a pass-through opening here, reflects light onto the mixing shelf.

uphill, a sheltered terrace

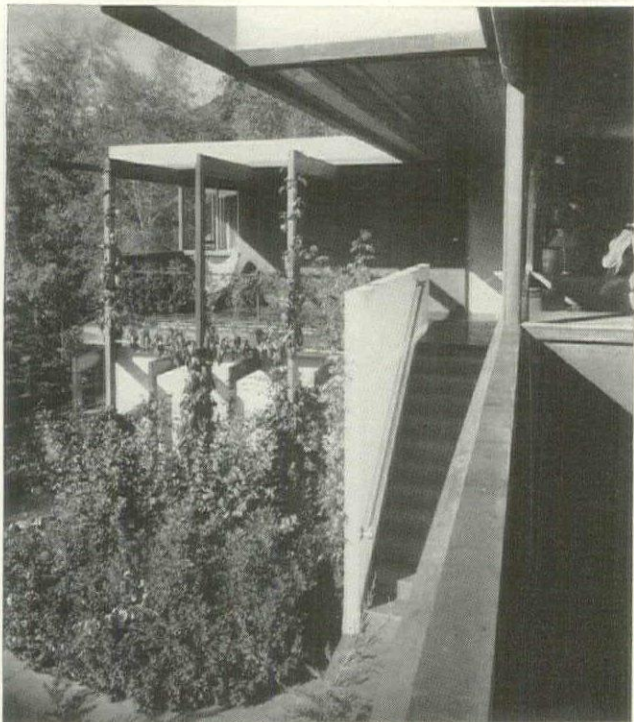


Deep roof overhang to the west serves a double function: it shelters steps leading up to main entrance and keeps sky glare and hot afternoon sun out of living room. Stair and landing are illuminated by lights behind frosted glass strip in the soffit.



Nested high on the slope, the house is completely private from the road below

Glass walls to the lee; balconies to the view



Bedroom balcony, seen in foreground, is a sheltered vantage point where the owners can be alone with their panorama of faraway hills and valleys. At left, heavy climbers help merge the house with its setting.

Here you can see how Neutra "cooperates with the site" while he designs the house. He has sacrificed as few trees as possible, moved as little earth as possible, in an effort to preserve the personality of the piece of ground.

On the front the strip windows are recessed under a deep roof overhang to keep out the hot glare of the western sun. Together with the small sitting balconies, this long ribbon of glass permits a sweeping view of the valley.

On the back the architect has provided a more intimate, controlled vista: a luxuriant garden scene brought indoors by a whole wall of glass. Here the owners can enjoy both the warm morning sun and the cool afternoon shade, protected from the west winds that sweep up the hill by the house itself.

"Today's house is small," says Neutra, "but if we handle it properly we can extend our living space right to the property lines—and contemporary design aims at just this. If we fuse the house with the site, it seems to grow . . . the site, well treated, is a lasting source of happiness."



Outdoor living room was created by leaving a level space 12' wide in back of the house, opening up both living and dining areas through large sliding glass doors. Sense of indoor-outdoor enclosure is heightened by the wide roof overhang and by the planted back slope, which makes a fence unnecessary.



Treeless land was completely reshaped into giant steps before a single foundation was poured.

To hit pay dirt

4. Bulldoze the slope into

RANCHO MONTEREY

LOCATION: Monterey Park, Calif.

BURGE & ROACH, architects

FAIR, WEKALL & McINTIRE, land planning and engineering

KENBO CORP., developers and builders

Price: \$13,500-\$17,250

For years Los Angeles builders by-passed the Coyote Hills in their search for flat acreage. By 1951 this barren upland, only 12 minutes from downtown LA by car, was an island in a sea of houses.

The Kenbo Corp., whose president, Earl Snyder, had experimented with smaller hillside tracts (H&H, Feb. '52), decided to take the gamble and bought 182 acres at \$4,500 per acre, \$2,000 under the market for flat land. Then, carefully following plans worked out by Architects Burge & Roach and Surveyor Fair, Kenbo moved in a fleet of 26 earth-moving machines and proceeded to carve the rolling contours into level lots for 625 houses.

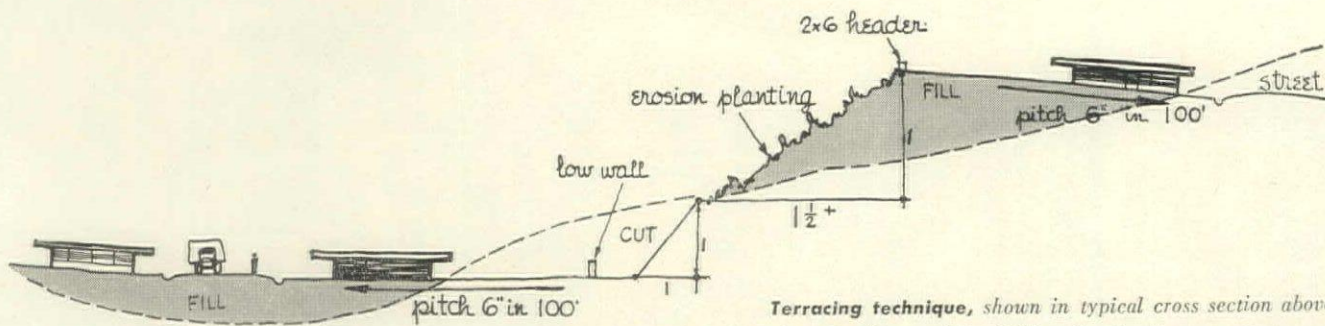
Development came high, as expected: sewers, drains and water pumping were costlier, and over 1 million cu. yd. of dirt had to be moved at 36¢ per cu. yd., more than doubling normal costs for lot improvement (see cost breakdown, p. 108). Sloping banks between lots ate into the total amount of usable land, allowing 3.4 houses per acre instead of the four common on flat land.

Buyers have willingly absorbed the higher final price, getting in return 1) a top FHA rating, 2) convenience to the city, 3) attractive and varied houses with plenty of level space for outdoor living, and 4) the view, breeze and added privacy of hillside lots.

Joseph O. Fadler



A million cubic yards of earth were shifted by carryalls (left), wetted down and then compacted by sheep's-foot roller (right).



Terracing technique, shown in typical cross section above, prevents erosion, flooding and landslides. Cut banks are not steeper than 45°, fill banks are held to an even gentler slope and seeded with ground-holding cover. All lots have a positive drainage angle toward street.

wide terraces for "flat land" houses

Pacific Air Industries





Broad terracing shows in sharp contrast to older development (foreground) which left most of hillside unusable

Well compacted, lots can be deep enough for outdoor living

COST BREAKDOWN, improved lot:

Raw lot (64' net width)	\$1,500
Water mains	350
Pressure stations	40
Storm drains	120
Street lights	20
Sewers	160
Engineering fee	150
Engineering supervision	20
Architect's fee (repeat royalty only)	50
Street work	350
Excavation	650
Total value, improved lot	\$3,410

Changing the whole face of a hillside can be a dangerous proposition if done carelessly: in Los Angeles' big rains last winter, landslides of uncompacted mud and rock accounted for some \$9 million damage to hill houses.

Rancho Monterey, on the other hand, follows a safe set of rules that suggest good practices for terrace developments:

1. Streets follow the main contour lines around the hills, not an arbitrary grid pattern, therefore are mostly level and gently curving. The only rising streets are occasional cross-feeders with few houses on them.

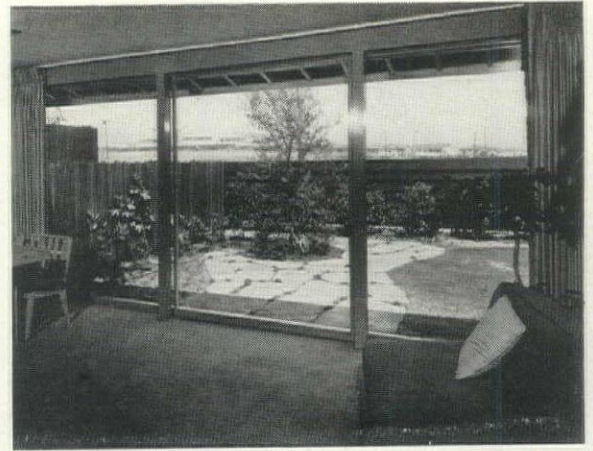
2. Building terraces are deep enough (at least 110') to allow room for both house and garden. Most houses and their garages are placed close to the street, leaving plenty of space behind for outdoor living (see photos above and right).

3. Banks are not dangerously steep. Cuts are permitted to slope up to 1:1 (45°); fills cannot be steeper than 1½:1. On major fills (one in Rancho Monterey is a full 50' deep) the raw slope must first be cut into one or more steps to "key" the fill in place.

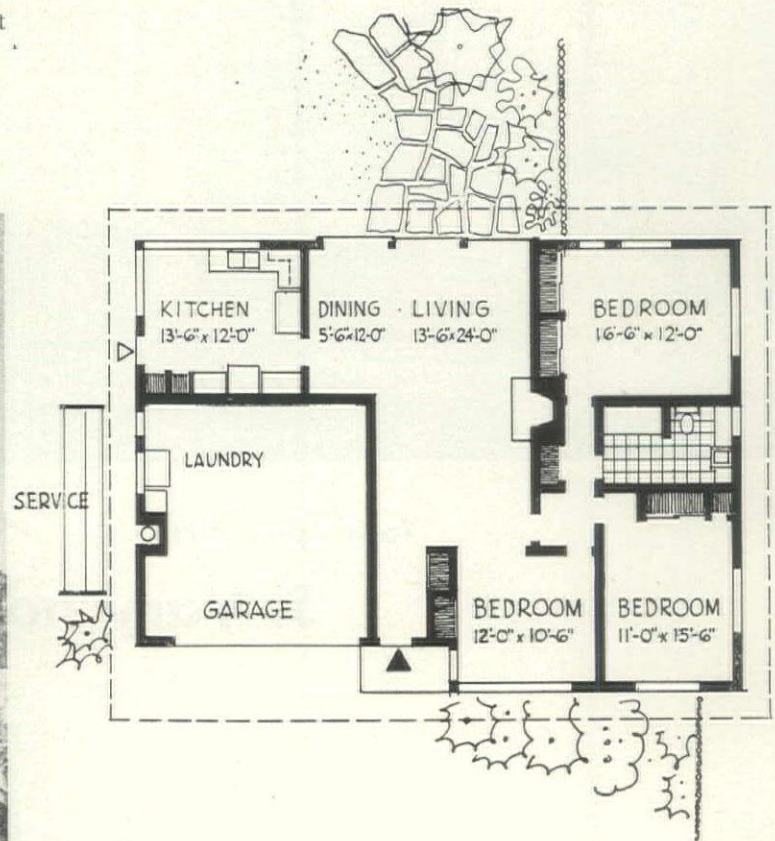
4. Soil is well compacted, to at least 90% of its maximum density—actually denser than it was before excavation. Without a cohesive soil like the adobe-granite mixture found here, the tract might have been unbuildable. During compaction every 6" layer was sprinkled by water truck and tamped hard by a sheep's-foot roller.

5. Drainage is well planned: each lot grades forward toward the street, at least 6" in every 100', closer to 10" on most lots. At the top of each bank 2" x 6" redwood headers are laid in the ground to form a guard; at the bottom a "toe-wall" of masonry 30" high is erected to divert rain water and debris from the lot below.

6. Planting holds the banks against erosion. All fill slopes are reseeded with ice plants or a half-and-half mixture of domestic rye and atlas barley grain. This is sufficient until the banks reseed themselves within a year. Builders can find out from local US or state foresters what makes the best ground cover in their region.

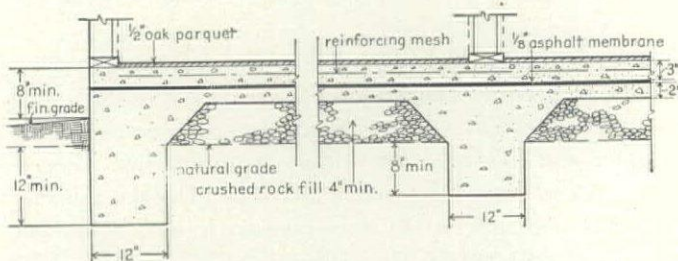


Rear living rooms open through sliding window walls to private gardens at the same level.

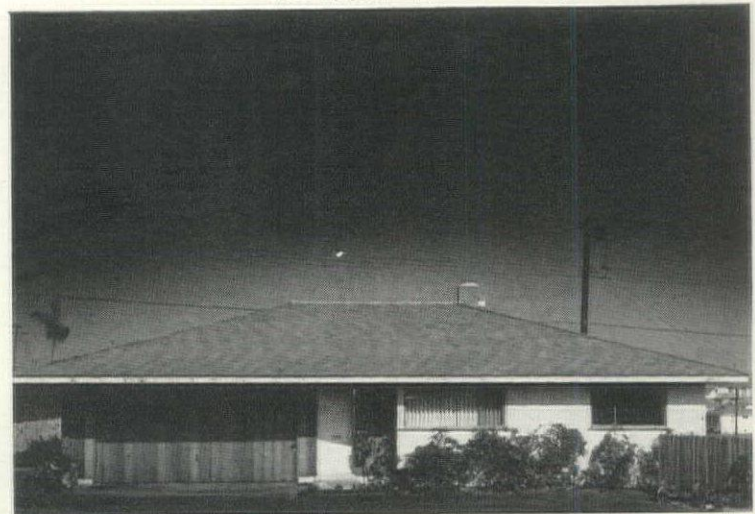


Typical house, shown also in plan and photos (right) is one of six models offered

Photos: (opp.) Pacific Air Industries; (others) Joseph O. Fadler



Double-pour slab, little more expensive than single-pour, has proved excellent vapor barrier. Cold emulsified asphalt sprayed between pours eliminates puncture troubles.



House fronts hug street, leaving space for outdoor living behind



To hit pay dirt

5. Vary house levels to fit the contours;

LOCATION: Kirkwood (St. Louis Co.), Mo.
 BURTON W. DUENKE, builder
 RALPH FOURNIER, B. W. DUENKE, designers
 BANK OF ST. LOUIS, financing
 SUBURBAN REAL ESTATE CO.; BANK OF ST. LOUIS, sales
 Price: \$20,000 to \$35,000

St. Louis Builder Burt Duenke did not use the scorched-earth method of lot leveling and tree destruction. In his 42-house Craig Woods project, he varied his house designs to fit the land, saved trees to enhance their value.

Twelve of the houses (split-level, two story and one story) were sold before the September opening without advertising; over half are now sold although conventional financing pushed the down payments as high as \$12,000. Prices ranged from \$20,000 to \$35,000 according to size of house, choiceness of lot.

"The land was a good buy," says Duenke. "Other builders had passed it by for years because it was hilly, rocky and so densely wooded. It took a lot of planning, gave us a few headaches, but was well worth the effort." Raw land cost \$1,500 an acre. Flatter land with fewer trees brings from \$2,000 to \$2,500.

Development costs on the minimum half-acre plots were \$3,000 because of underlying and outcropping rock. The problem of getting gas, water and sewage lines in was solved partly by putting fill dirt in rocky ravines, letting it settle over the winter and trenching for utilities in the spring. Biggest headache was running lateral lines from mains to houses: Duenke ran into more rock than he figured on. Says he: "I've learned my lesson: on another rocky project we're spending \$3,000 for test drilling."

Says Duenke's progressive vice president, G. W. Mefferd: "You get a site like Craig Woods only once or twice in a lifetime. It would be a crime not to do the best possible job of developing it."



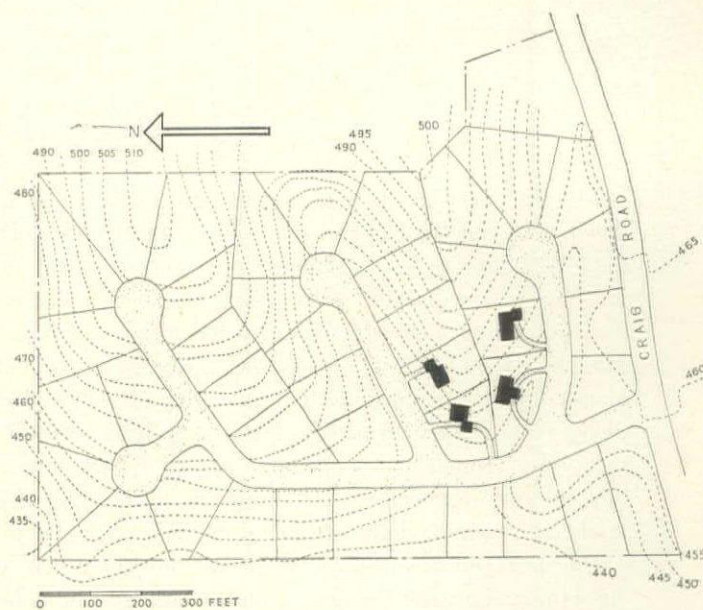
Photos: Hutchinson Photographers

save the trees to enhance the value

Pricing formula. Duenke based lot prices on a four-part credit system: size, contour, location and number of trees. Each of these categories was charged for by multiples of from \$100 to \$200. Example: location premium was determined by five multiples of \$100 based on view, privacy, distance from arterial street and from nearby Marine Hospital. Certain adjustments were then made based on how well Duenke's one-, two- or three-level houses, built from his standard 6'-4" redwood and glass panels, could be fitted to the land and how adaptable the remaining land was for outdoor living and play areas.

Save the trees and sell the houses. Proof that Duenke's practice of saving trees pays off is that the most expensive lots with the most trees sold first. He believes it costs no more to save the trees where there is no grading around them than it does to doze them out, cut up the trunks, burn the brush and dispose of the stumps. When trees were where grading fill was necessary and trunks were boxed, costs ran as high as \$40. But buyers were willing to pay the premium \$600 for the most heavily wooded sites. He believes tree saving can be applied to medium-priced tracts as well, cites resale prices on similar houses in projects built in 1950 and 1951. Houses in the wooded tract have been reselling for \$1,342 more than houses on a treeless tract!

Builder of over 600 houses since 1946, Duenke has been a pioneer both in putting sizable projects on rough sites and in bringing low-cost contemporary design to staid St. Louis. He influenced such far-off builders as Cleveland's Maurice Fishman through the success of his fast-selling 258-house tract in Ridgewood (H&H, Feb. '52). His pioneering use of post-and-beam framing with prefab panels has influenced builders in Kansas City, Milwaukee and Chicago who have bought his prefab package.



Cul-de-sacs punch their ways through rocky slopes to give houses privacy from traffic, greater chance to gain outdoor living on quiet hillsides. Siting of four houses shows staggering for privacy between houses.

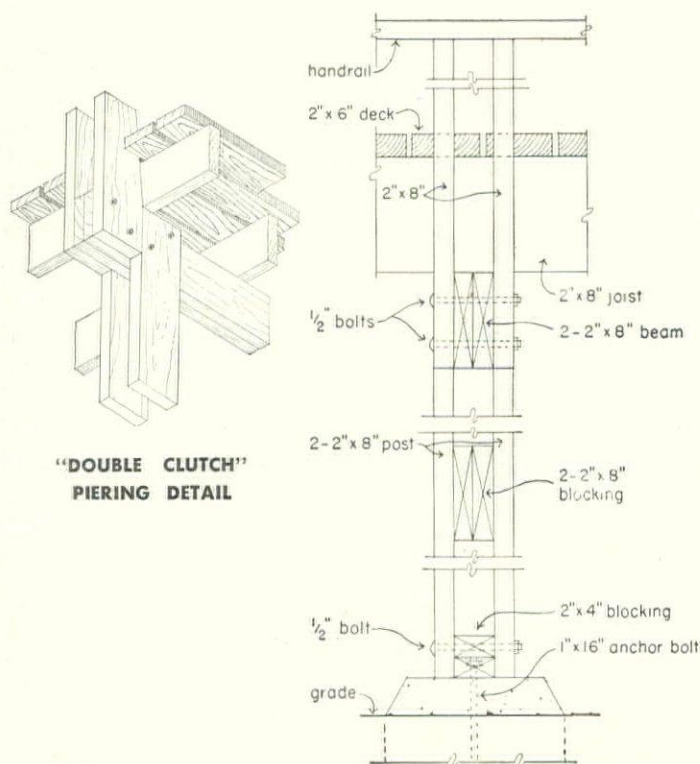


A different kind of split-level house—

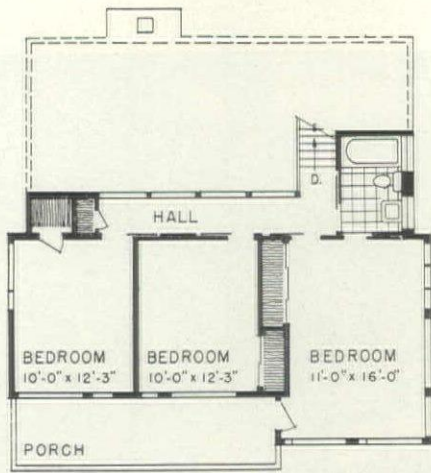
Most split-levels are divided horizontally so there are six steps up, six steps down. But the Duenke-Fournier split (like Architect Dave Runnell's, H&H, Dec. '52) uses a $\frac{2}{3}$ - $\frac{1}{3}$ separation—eight steps up, four steps down—and faces narrow end to the street. This type of house, says Designer Fournier, can be built on a steeper slope and has a softer roof line (see photo above). Most merchant-built split-levels save space by tucking the garage under the house. But, uncrowded on half-acre plots, Duenke placed carports in three places: 1) off the intermediate level (as in house above); 2) in an adjoining-rectangle arrangement (p. 114); and 3) off the lowest level. This allowed him to give uniformly good siting for view and privacy, give all ground levels maximum daylight and integrate the service-play area with the outdoors.

Duenke's split-level offers the usual multistory benefits of minimum stair climbing and greater living area under one roof. In addition it:

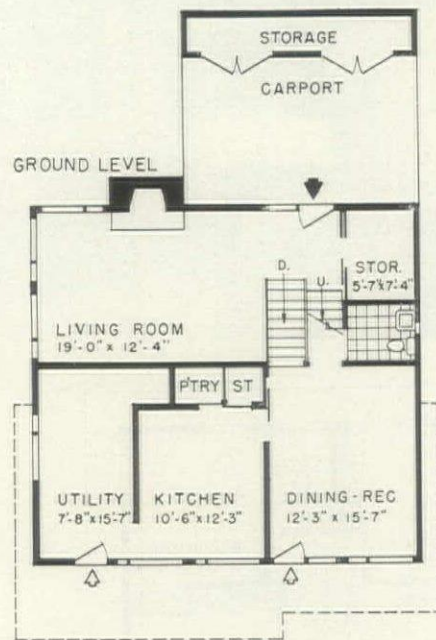
- ▶ puts bedrooms one complete story above grade to provide views as well as give a feeling of privacy, quietness and security;
- ▶ provides a much longer living room, and a gallery along the bedrooms makes the living room seem wider (see plan);
- ▶ uses the second-story projection intelligently to permit bigger bedrooms, lower foundation costs.



**"DOUBLE CLUTCH"
PIERING DETAIL**

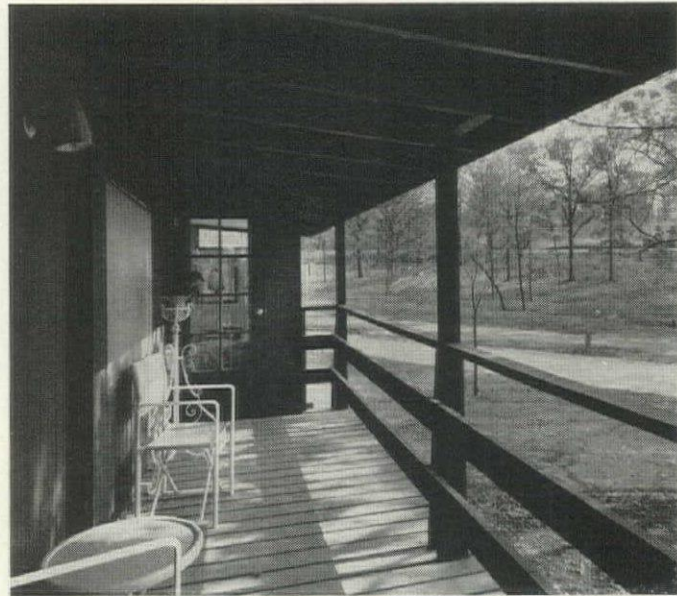


UPPER LEVEL

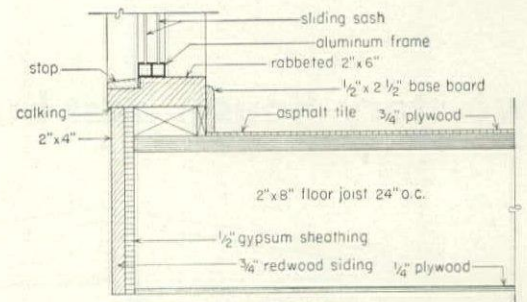


LOWER LEVEL

SCALE 0 5 10 15 FEET



Balcony off bedrooms is reached only through door to master bedroom but windows of others look out onto it. Hallway to bedrooms (see plan) becomes gallery instead of dark, little-utilized runway, adds width as well as height to long living room.



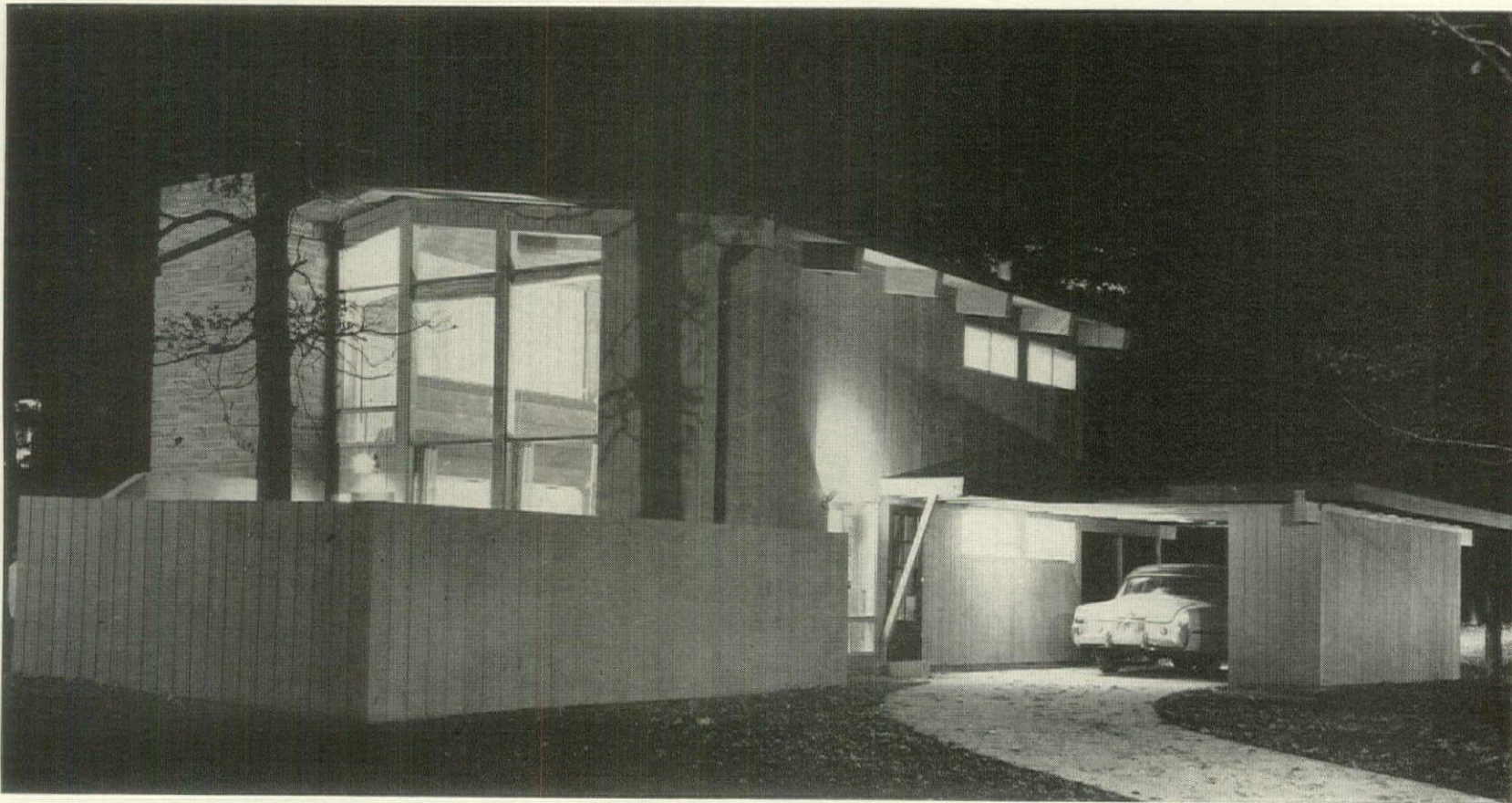
SECTION THROUGH OVERHANG

Underside of bedroom overhang supported by "double-clutching" piers (detail opposite) is fitted with smooth skin of plywood.

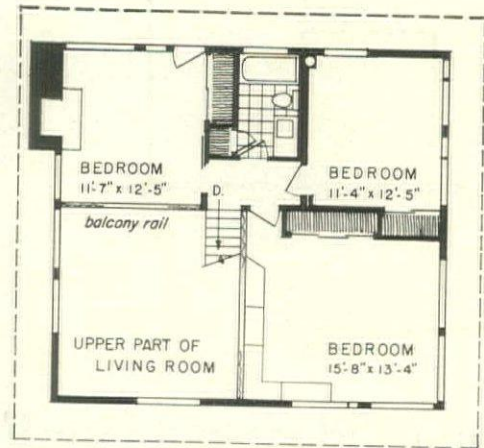
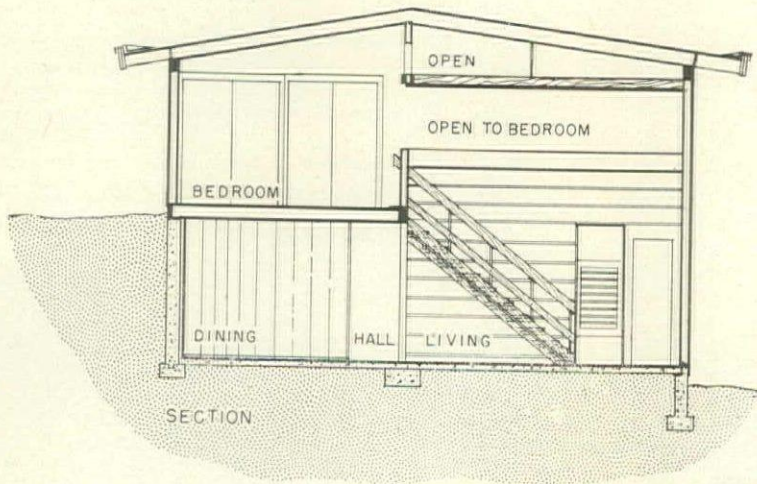
for greater indoor-outdoor living



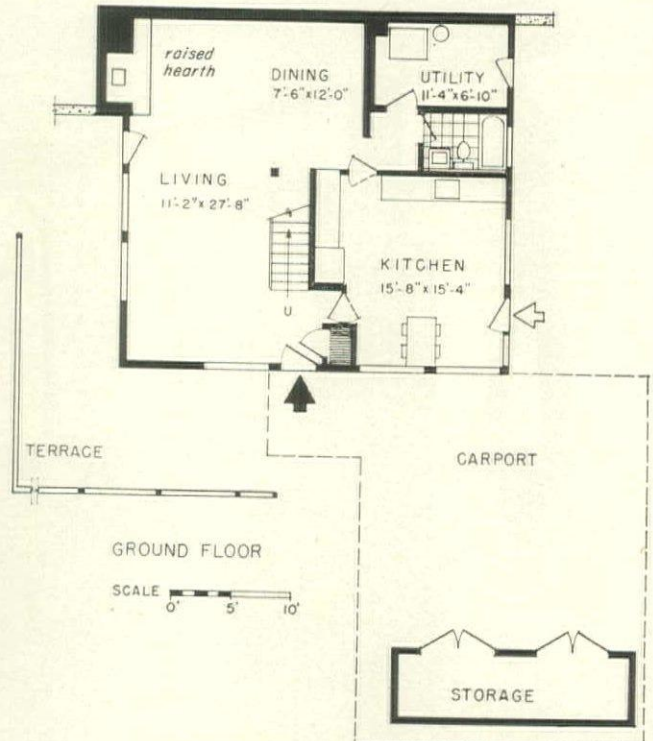
Window wall and transom glass introduce pastoral mural along far side of living room which is above grade. Window wall next to fireplace and fieldstone fireplace itself with raised hearth are at grade level.



Two-story house: best buy, most popular



SECOND FLOOR



GROUND FLOOR

SCALE 0' 5' 10'

On lots sloping up from the street, builder and designer found a two-story house with grade exits at both levels the best answer. On lots sloping down from the street, Duenke found his answer in his standard one-level house: all he did was open the basement from the rear. The two-story house with a square-foot building cost of \$10.50 without land was the best buy. Cost on splits and one-story houses (where grade was almost level) was about \$12.40 per sq. ft. All the two-story houses—1,862 sq. ft.—were grabbed up first, again proving the salability of the expandable-basement house.

Fournier designed one model with a two-story living room. Practical-minded Duenke suggested the upper portion be used as a fourth bedroom, thus got two different plans from the same basic design.

Like Architect George Hay (see pp. 92-96), Designer Fournier thinks expandable-basement houses can be the answer to the expandable house so many architects have tried to design. Says Fournier: "Such houses could make it possible to get square-foot selling costs down as low as \$7.50."

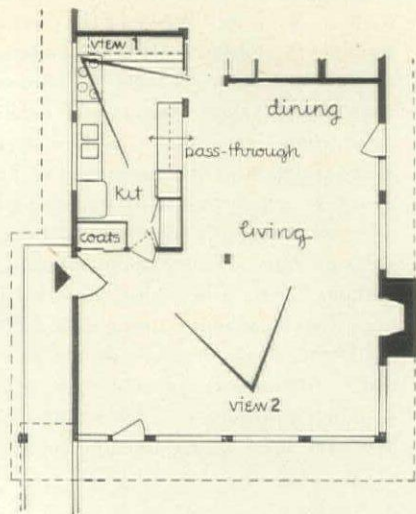


View 1 shows pass-through, built-in ovens, mahogany cabinets—features of kitchen in plush four-bedroom house built on level. Cost of one-floor plan was higher than multistories because of bigger foundations, roofs, more paneling.



View 2 shows large living-dining area separated from kitchen by partitions stopping just short of sloping roof. To facilitate service, the pass-through is handy to the dining table. Note the scored, polished concrete floor.

VIEW 2



Four-bedroom, two-story house built on steep slope has double car porch on downhill side to lessen grade up driveway from street. Roof of car shelter is used (as in Seal & Turner house, p. 93) as deck but becomes a porch in essence under sheltering trees.



How safe are loans on 'standard' homes?

▶ **Mortgage Bankers' convention hears a warning that modern design is better risk than conventional**

▶ **FHA Chief Guy Hollyday, a former MBA president, says he will force his agency to accept contemporary ideas**

A few years ago, the notion would probably have been too heretical to broach before such an audience. Last month, two building men of front rank carried the long fight for modern design to the heart of what has long been considered enemy territory: the lenders.

IN THIS MONTH'S NEWS

(see pp. 37 through 53)

Commerce and Labor Departments predict million starts in '54, with 975,000 of them private

New wrinkle in rehabilitation: Chicago home owners bring civil suit against landlord, charging he spoils neighborhood by sneak conversions

NAREB convention in Los Angeles hears hints of major changes in federal policy on public housing redevelopment

Air-conditioning men foresee zooming business, but worry whether there is enough water

Anti-recession planners consider expanding federal mortgage insurance to cover commercial, perhaps industrial building

Economist Miles L. Colean told the 40th annual convention of the Mortgage Bankers Assn. "The lender must, if he values his salvation, cooperate in the great advancement in building technology that is now under way. The old idea that novelty itself adds to risk has to be discarded, and in its place must be established the principle that well-considered novelty—novelty that produces a real advance in comfort, convenience, and eye appeal—can diminish risk. And, incidentally, the lender can do a great deal to get this principle better understood in some of the moss-grown reaches of FHA."

Colean, an architect who helped set up FHA's property standards and for a time was assistant FHA commissioner, made it clear that if lenders drag their feet over builders' efforts to offer more and more contemporary homes in response to public demand, builders may not be able to sell 1 million houses next year. Selling in the '54 market, he prophesied, will take "quality, novelty and price. If all we are going to do is to build 1940 houses for sale in 1954, we can't expect much more suc-

cess than an attempt to offer 1940 automobiles for the 1954 market."

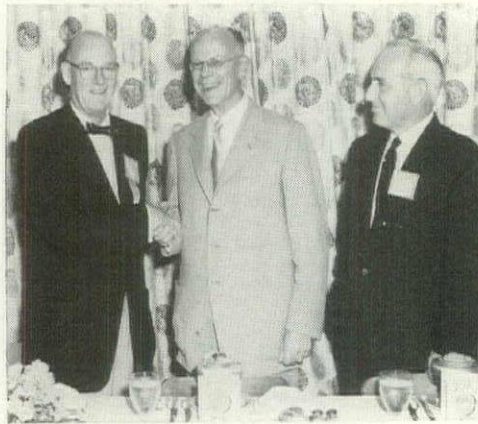
FHA reversal. A far stronger endorsement of up-to-date design came from a man who wields as much power as anybody in the country to get it accepted: FHA Commissioner Guy T. O. Hollyday. Moreover, because he is a former (1946) president of MBA, Hollyday's forthright views commanded respectful attention. Said he: "We've [FHA] been forcing builders to build to a mortgage pattern instead of for the housing market. I believe we can change that system. Many builders have found it a whole lot easier to follow stereotyped plans which have been approved by FHA than to try to get approval of something new. If Joe Smith wants to live in a ranch-type house we want him to have the opportunity to do so without having a hint given him that he could get a Cape Cod house through the FHA faster.

"The attitude of some people in FHA toward architectural design has resulted in penalizing progress and rewarding mediocrity. We have been acting like the school teacher

flexible interest rates homebuilders espouse—"with the flexibility being determined by government controls"—but for "free interest rates in a free market." Clarke noted that the nation, in effect, has had a free market in FHA and VA frozen-interest mortgages since June, when Congress reversed VA's Bert King and authorized discounts. "But," said the spare and bespectacled Quaker, "isn't that a hell of a way to have it?" He called premiums just as bad as discounts, because premiums are pocketed by the builder, do the buyer no good. Said Clarke: "Mortgages should be traded at par."

At 57, Will Clarke has long been regarded as one of the nation's shrewdest mortgage market analysts. He was Federal Reserve consultant on Regulation X credit controls and in recent years has often been MBA's principal spokesman before Congressional committees. He is president of W. A. Clarke Mortgage Co., a director of Guardian Life Insurance Co. Outside of the mortgage business and the Society of Friends (he is on its Self Help Housing Committee), Clarke is not well known in Philadelphia. His wife, the former Eleanor Stabler, is prominent in Quaker work, and best known for directing collection and distribution of hundreds of tons of clothing for the American Friends Service Committee.

Next year—if MBA's usual pattern holds—Clarke will be succeeded by Vice President Wallace Moir (r), a Beverly Hills mortgage broker.



MBA President Will Clarke plans battle for free rates

As Philadelphia Mortgage Broker William A. Clarke (c) took over the presidency of MBA from Brown Whatley of Jacksonville (l), leadership of the nation's mortgage men passed into the hands of a bold and militant crusader. Whatley, an able president, was a behind-the-scenes operator, an organizer. Clarke, in his acceptance speech, set right out to fight.

Freedom, said Clarke, is what made America great and MBA is going to fight, not for the



FISCAL EXPERTS: Malcolm Bryan (l), president of the Atlanta Federal Reserve Bank, warned that inflation would mean eventual ruin for private homebuilding because it demands so much long-term investment at a return fixed in dollars, not buying power. Treasury Deputy W. Randolph Burgess (r) said administration aim is to keep money supply adjusted to business growth—through the Fed. Said he: "The usefulness of the system is exactly in doing unpopular things at the right time."



CORRIDOR TALK engaged ex-MBA president R. O. Deming Jr. of Oswego, Kan.; Ferd Kramer of Chicago; FHA's Hollyday and Vice Pres. Hal Mendon of the California Bank, Los Angeles.

who has only two grades—passing and failing. We should have several grades as good teachers have. . . . It will be a terrible reflection upon the administration—and I mean the whole administration, not just the FHA, if we have to continue saying that we can't even look at a house because the architecture doesn't conform."

More big lenders. The convention drew a record 2,542 registrants, including more insurance and other big lenders than before—an indication to smart observers that MBA was drawing closer ideologically to the position of lenders. Some of them came with money to lend—a good indication of a gradually loosening mortgage market. Executive Vice President Douglas Meredith of National Life of Vermont, for instance, announced at his maple syrup breakfast that he was looking for \$15 million of FHA and VA paper. He got offers of \$40 million worth, bought \$19 million "at a substantial discount."

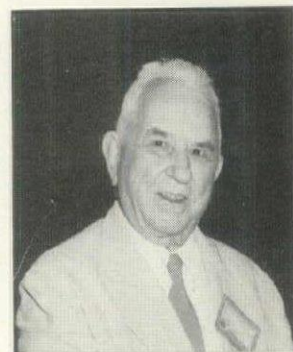
Across the nation, top mortgage brokers generally reported that sizeable discounts on VA and FHA futures were continuing (see Statistics, p. 45), although more and more money was seeping into the market as the general level of interest rates edged down. Cracked Wallace Moir, MBA's presumptive president

CONGRESS will give "careful consideration" to turning FNMA over to private industry, said Rep. Jesse Wolcott, (R, Mich.), chairman of the House banking committee which writes housing law. He also vowed there would be no direct loans for housing, or "in any field unless and until the American people are ready to accept socialism."



MINORITY HOUSING: President Ben Levinson of Michigan Mortgage Corp. (l) asked HHFA Administrator Cole (with pipe) if he could help get FNMA funds for 5,000 Negro units in Detroit. Levinson said Cole replied: "I know a ray of hope, but I can't talk about it now. Come back early next year." Others: Irv Franzel, Levinson's vice president; HHFA's Neal Hardy (r).

2,000th MEMBER, initiated during convention, was Arthur Griffith, head of the Griffith Mortgage Co., Macon, Ga.



for 1955: "The mortgage market looks black and the black market looks good."

MBA's Miami Beach sessions produced these other noteworthy developments:

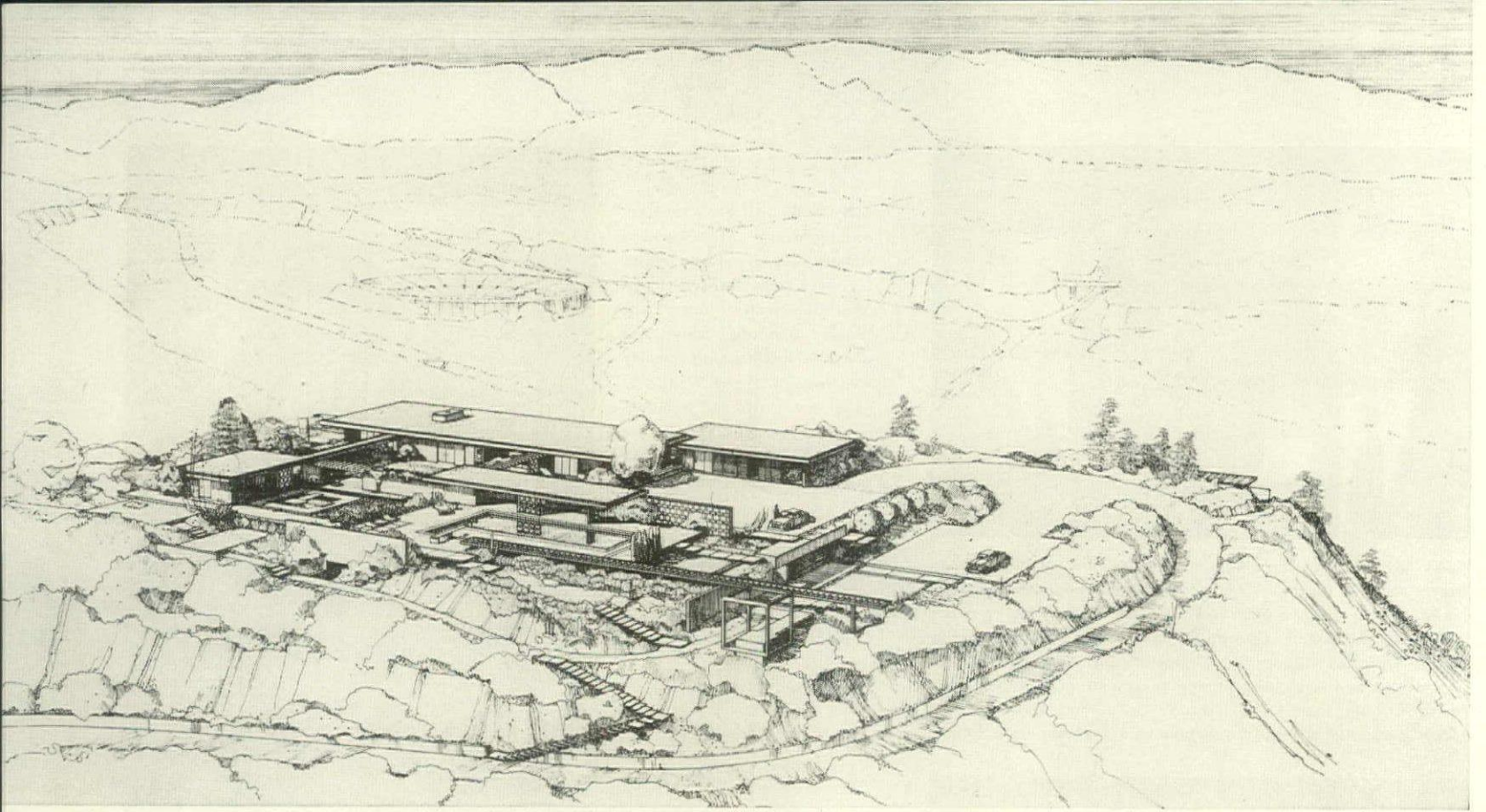
► Prof. Raymond Rodgers of New York University predicted that long-term interest rates "have undoubtedly passed their peak," though rates will continue "somewhat firm" in the months just ahead. One reason: if the bond market grows stronger, the Treasury will take advantage of it to sell more long-term bonds, so rates will come down only a little.

► Publisher Ralph D. Paine Jr. of *HOUSE & HOME*'s sister magazine, *FORTUNE*, pointed out that more than a third of the US now lives in suburbia (i.e. either actual suburbs or suburban-type communities), more than lives in the cities or on the farms. And the broadening and prosperous middle class (\$4,000-\$7,500 disposable income) now accounts for 42% of US purchasing power. Said Paine: "The most remarkable fact about this group is that it has increased in numbers by about 45%, just since 1947 [to 18 million families]. In the next group, the family units in the \$7,500 to \$10,000 bracket have increased in numbers since 1947 by about 50%." Giving statistical foundation to the well-advertised housing demand from larger families, Paine noted that

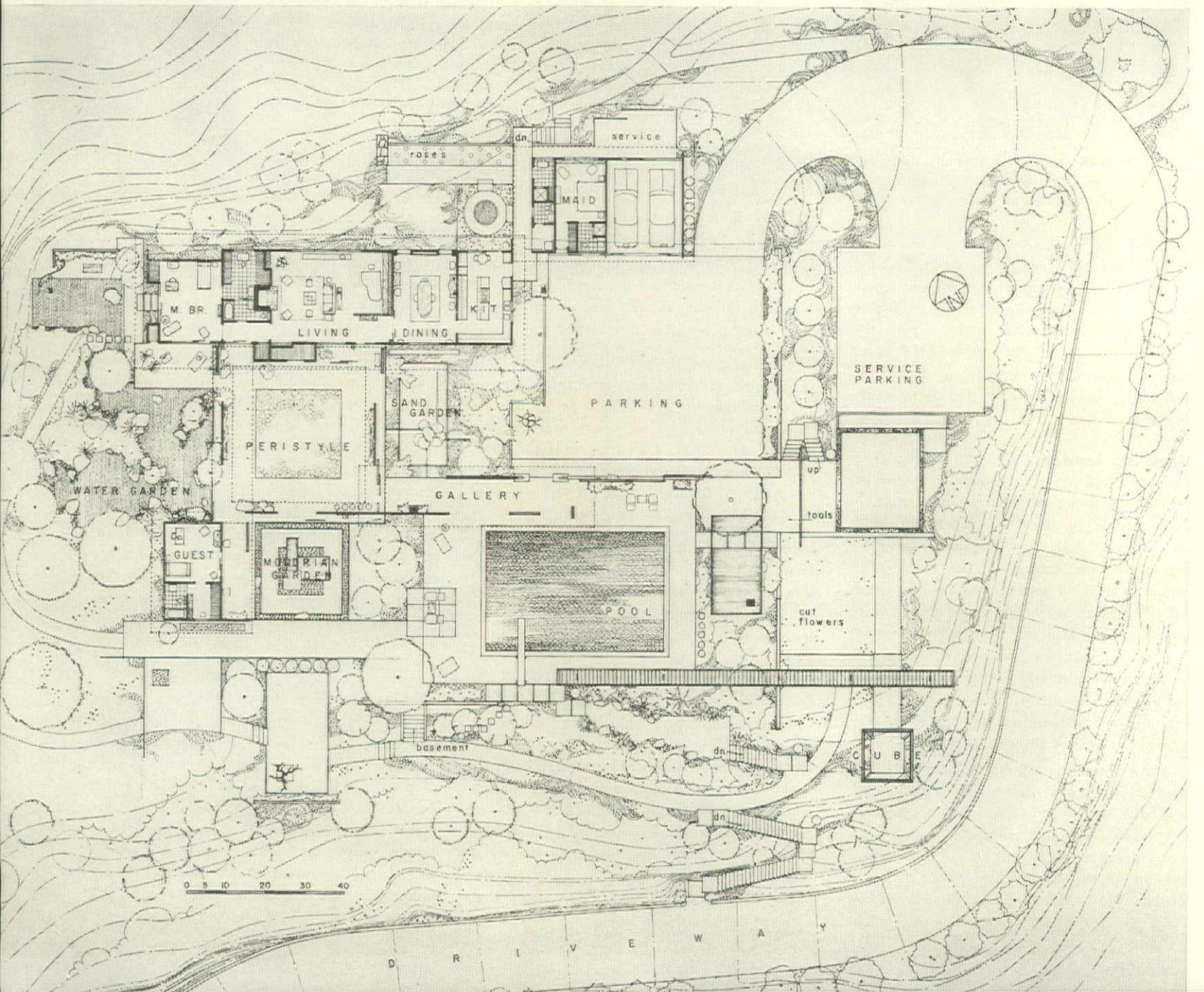
620,000 third babies are being born this year, along with 310,000 fourth children. Said he: "You can't raise three children in a two-bedroom postwar suburban development house."

► Colean reported that the rate of new household formation was running higher than experts expected "even a short time ago." Said he: "The Census Bureau now estimates that the average number of households added during the years from Apr. '51 to Apr. '53 was around 950,000 instead of the earlier estimates of about 900,000. It can be expected that '53 and '54 will come much closer to 950,000 than has generally been contemplated. Such a recalculation, of course, does not in itself make a market. But it does give further explanation of the well-sustained demand since the super-year 1950; and it adds support to the view of a sustained demand in 1954."

► Builder Nate Manilow of Chicago expressed concern over "all this talk about better architecture, bigger houses with bigger rooms, gadgets, etc." He insisted "these things will tend to take housing further away from the people who need it most." Manilow, like many another builder, thinks salvation now lies in putting up more and more really low-priced new homes for people who are graduating from public housing.



A GEOMETRIC HOUSE



If this mountain-top retreat is today's most talked-about house in Southern California, these pictures will make the reasons clear.

Visitor Siegfried Giedion called it an "Etruscan monastery"—but it is a very rich monastery indeed, with more than a touch of Shangri-La. Located on a mountain-top above Pasadena and the Rose Bowl, it takes the visitor far from practical problems.

The house was developed with infinite pains by a young designer who graduated only last June from USC's school of architecture. He spent five years composing his planes, balancing his spaces, choosing his vistas.

The result is a house of many rooms—indoor rooms and outdoor rooms. A house of many views—near view and distant views, framed views of the magnificent panorama, and unexpected views around a sudden corner. It is a house of many moods, many patterns, many planes, many levels. It is obviously modern, yet strangely traditional; severely geometric and at the same time warmly romantic.

Thornton Ladd, who designed it for his mother and himself, had the incentive for a great house in the vast spaces and the spectacular views; and he had the skills of architecture to draw upon—as well as the skills of decoration and showmanship.

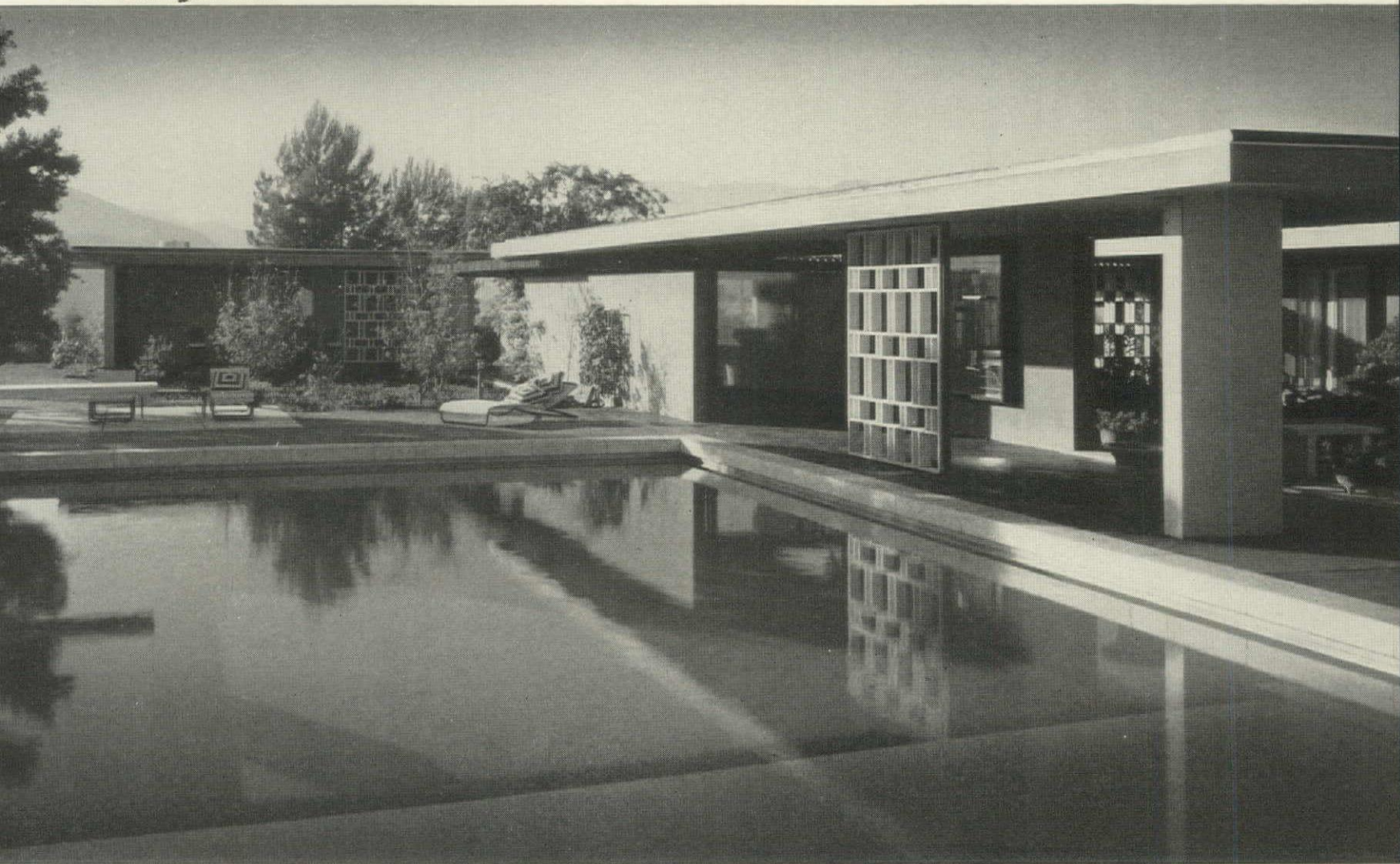


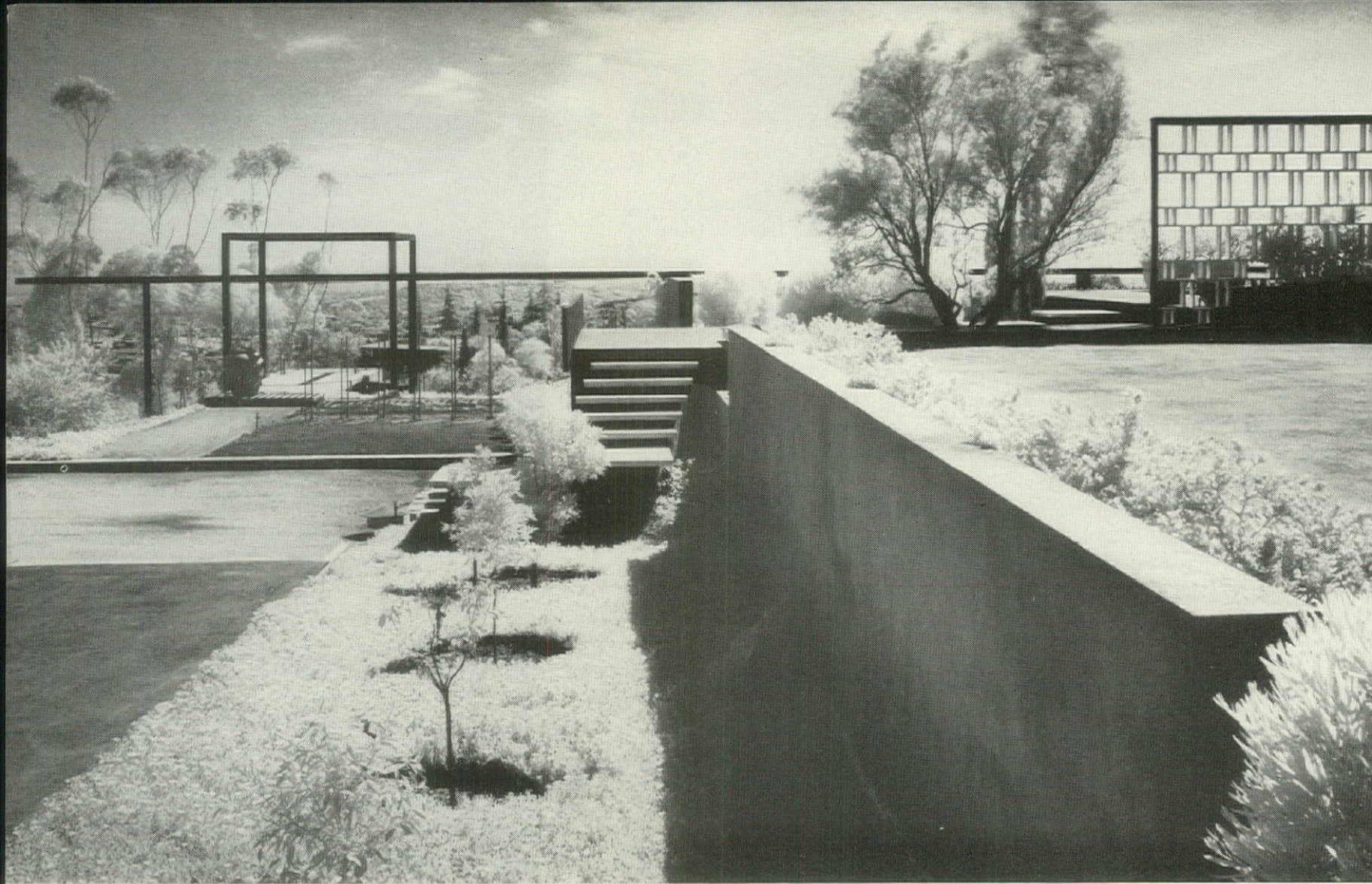
This open cube gives the visitor his first clue to the house and its pervasive geometry. It was also the starting point of the design.

IN THE ROMANTIC TRADITION

All photographs by Irvin Kershner

Sweeping planes and freestanding screens give form to the spaces; light, shadow and planting give them life.





Sloping contours have been sliced away to produce clean-cut plateaus on many levels

Horizontal and vertical planes, floating slabs and trellises, interlocking levels and terraces, squares and rectangles, walls and screens—these are the elements of Thornton Ladd's geometry. They govern the architecture and the landscape.

Their order is not static, for all the spaces thus created are meant to be walked through, to be seen from below and above, to be played upon by the changing patterns of sunlight, to be seen close by and in relation to a distant backdrop of mountains.

THORNTON LADD, designer
 S. O. BENNETT, general contractor
 A. J. STINDT, superintendent
 PAUL SPINDT, foreman

Slab steps emphasize horizontal slicing of contours





Entrance to gallery from parking area is small in scale to dramatize contrast with views beyond

In a setting of such insistent drama—views of Catalina Island, 60 miles away, of the San Fernando Valley past Glendale, of tall mountains all around—in such a setting small-scale, intimate views are an essential relief. Designer Ladd has provided them in smaller spaces, in small gardens and courts, in sensitive planting all around the house.

Small spaces and small-scale planting relieve a dramatic panorama



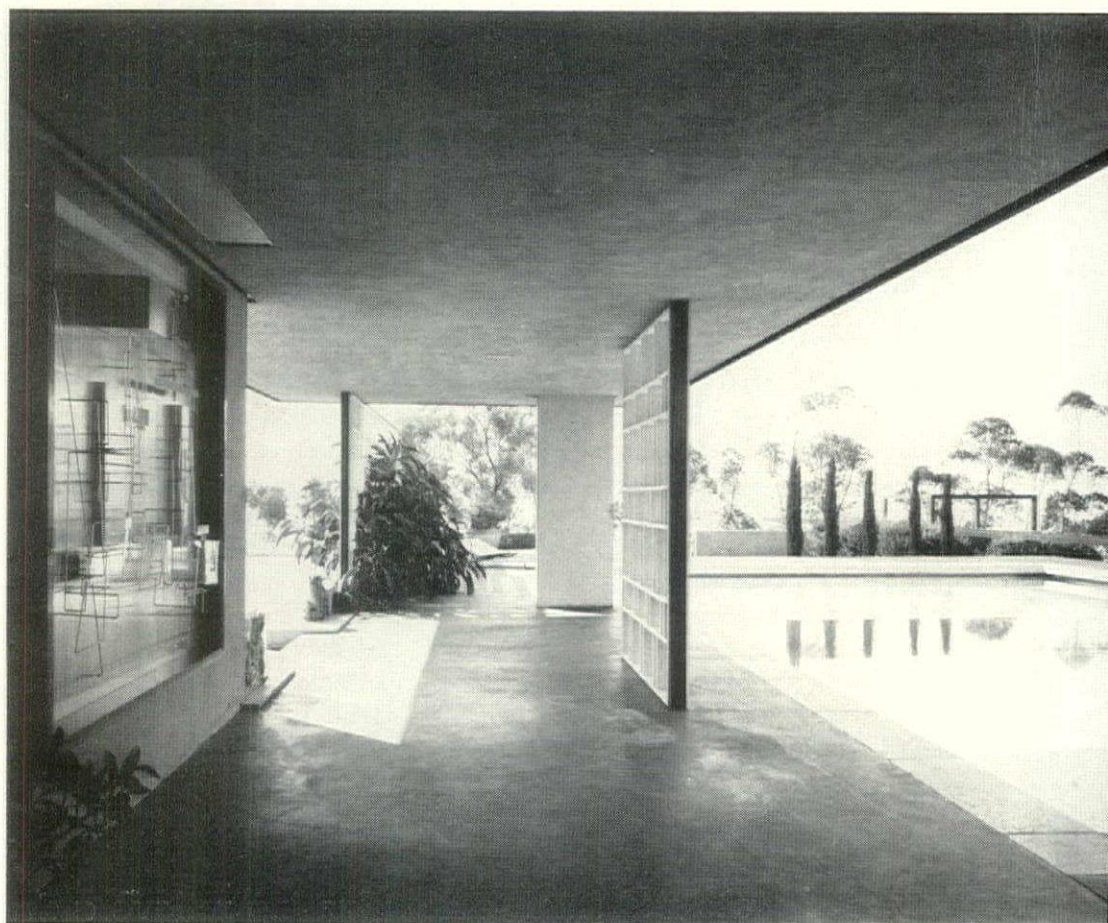
Trellis ties the cube into the geometry of the gardens (see also picture at top of p. 119)

Subtle contrasts heighten the drama

Indoors and out, space is given form by walls that are only suggested

Contrast is the essence of drama—but the contrasts must be subtle and understated to keep the drama of great spaces and grand vistas alive throughout the life of the house.

A sweeping horizontal trellis gives special emphasis to a row of thin, tall cypresses; an unadorned stucco wall is a quiet backdrop to an ornate temple piece; and a few sparse screens, placed far apart and at right angles to each other under the gallery roof, dramatize the space and give it form by the merest suggestion of walls.



Changes in mood are essential in large-scale architecture. The outdoor gallery is a good case in point: at one end (lower picture on opposite page) there is a serene, classical interplay of planes—reflecting the “purity” of the stainless-steel abstraction on the wall. At the other end (below) the ornate Chinese sculpture creates the mood—a mood reflected in gentle trellis details, informal planting, small-scale paving.

and understatement gives the drama permanence

Chinese sculpture at opposite end of gallery and peristyle beyond

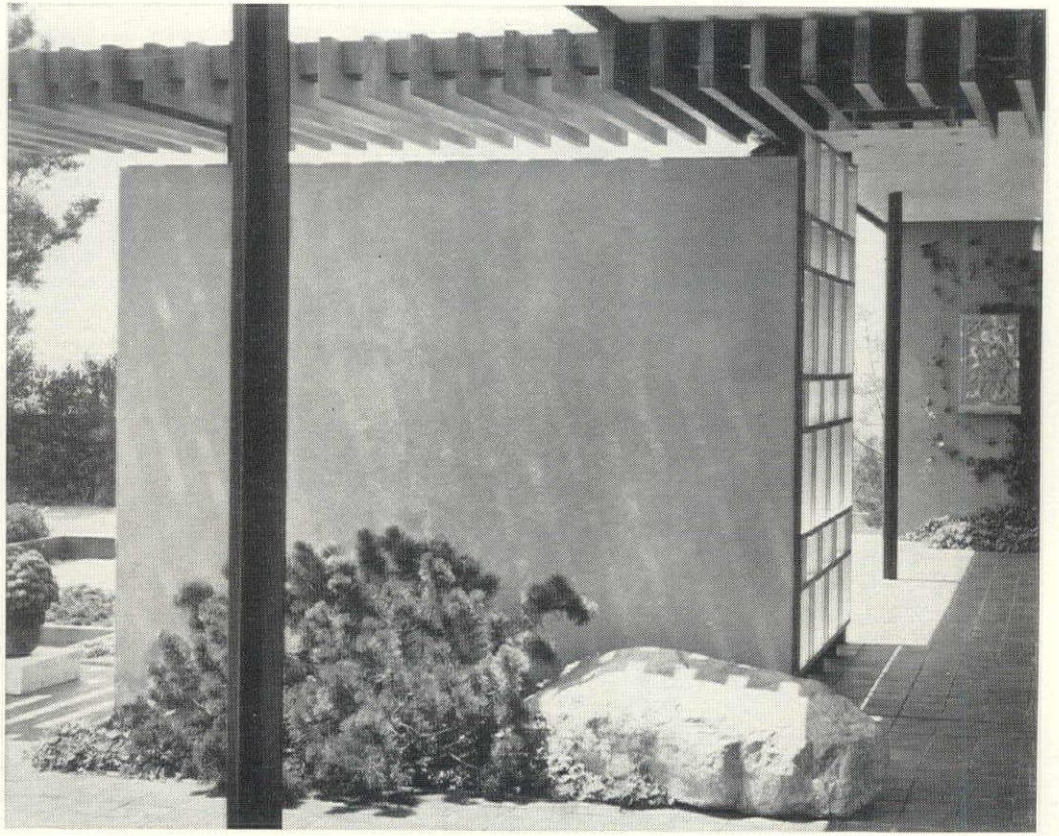




The peristyle: transition from formal "Mondrian" and Chinese gardens, to informal water landscape to the west

Patterned screens and patterned floors establish an intimate scale

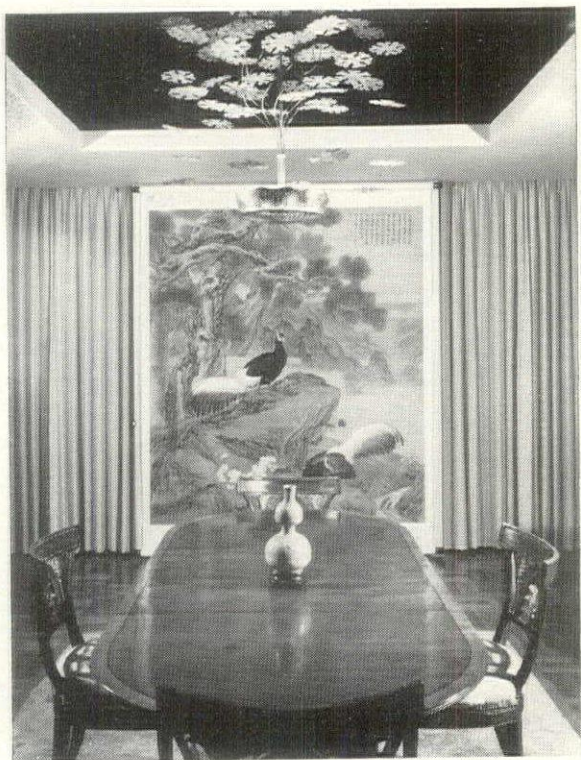
Each screen and trellis has a triple purpose: it articulates a space by the mere suggestion of a wall or a roof; it has its own abstract pattern (often seen in silhouette, framing the landscape or the sky); and it casts a succession of shadows upon walls and floors. As they move with the sun, these changing shadows give life to the architecture.



A white rectangle of stucco is transformed into an abstraction of light and shade in constant change.

Sunshine, filtered through trellises, decorates plain walls of stucco

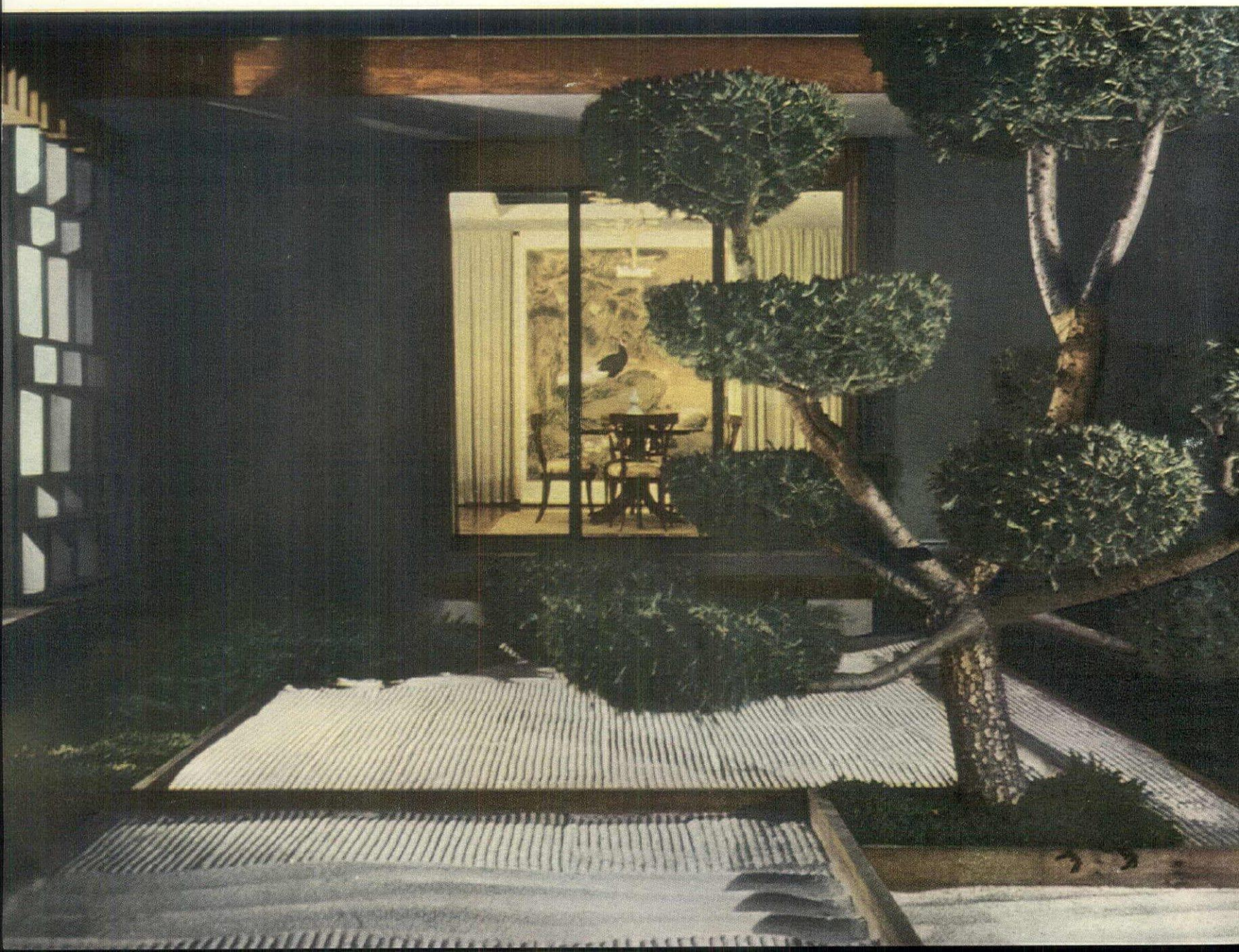




This house has only four or five indoor rooms. Beyond these, however, it has half a dozen patios, gardens or terraces. Each of these "outdoor rooms" is a visual extension of some indoor space.

Interior and exterior are one in space and in mood

Chinese sand garden with clipped deodar tree joins the dining room with the Chinese painting and the gallery with its Chinese sculpture (p. 123)

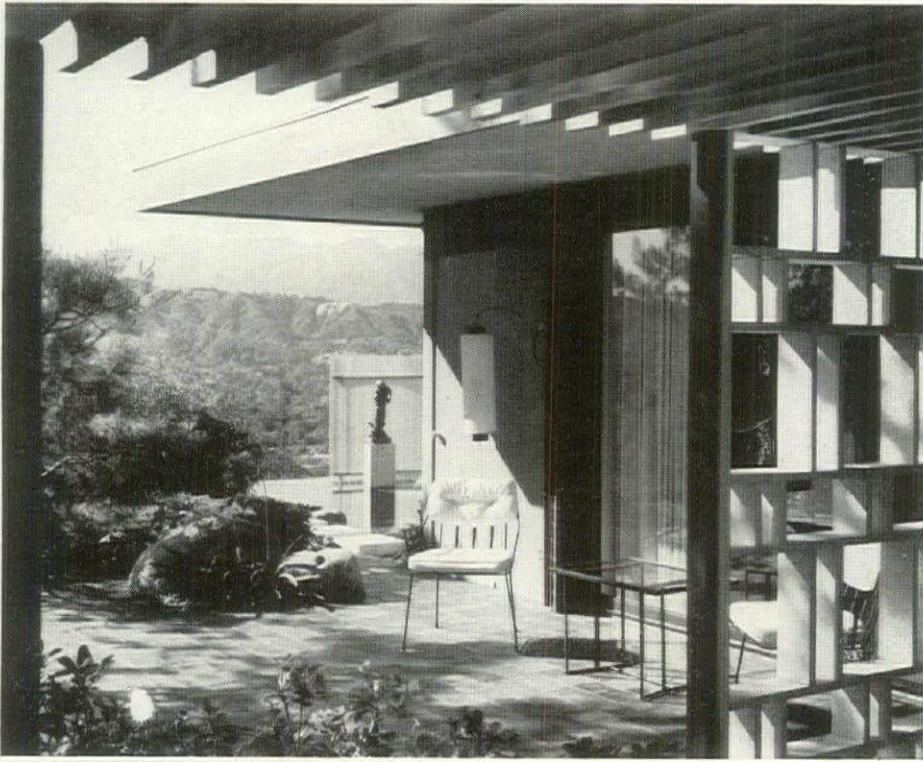




Living room overlooks peristyle

The function of these outdoor rooms goes beyond creating an illusion of greater space—for, after all, there is no such need in this house.

The outdoor rooms also determine the mood and character of the interior spaces adjoining them. And this mood and character is distinct and different in each case. So, for example, a bedroom will enjoy a fabulous distant view in one direction—or the intimacy of the water garden in another; the dining room, in a Chinese mood, is reinforced by the Chinese garden of raked sand beyond its glass wall; and the guest room is bracketed by an informal rock-and-water landscape on one side, and the rigidly formal “Mondrian” garden on the other.



The terrace off the master bedroom with "amphitrite" pool and mountains beyond

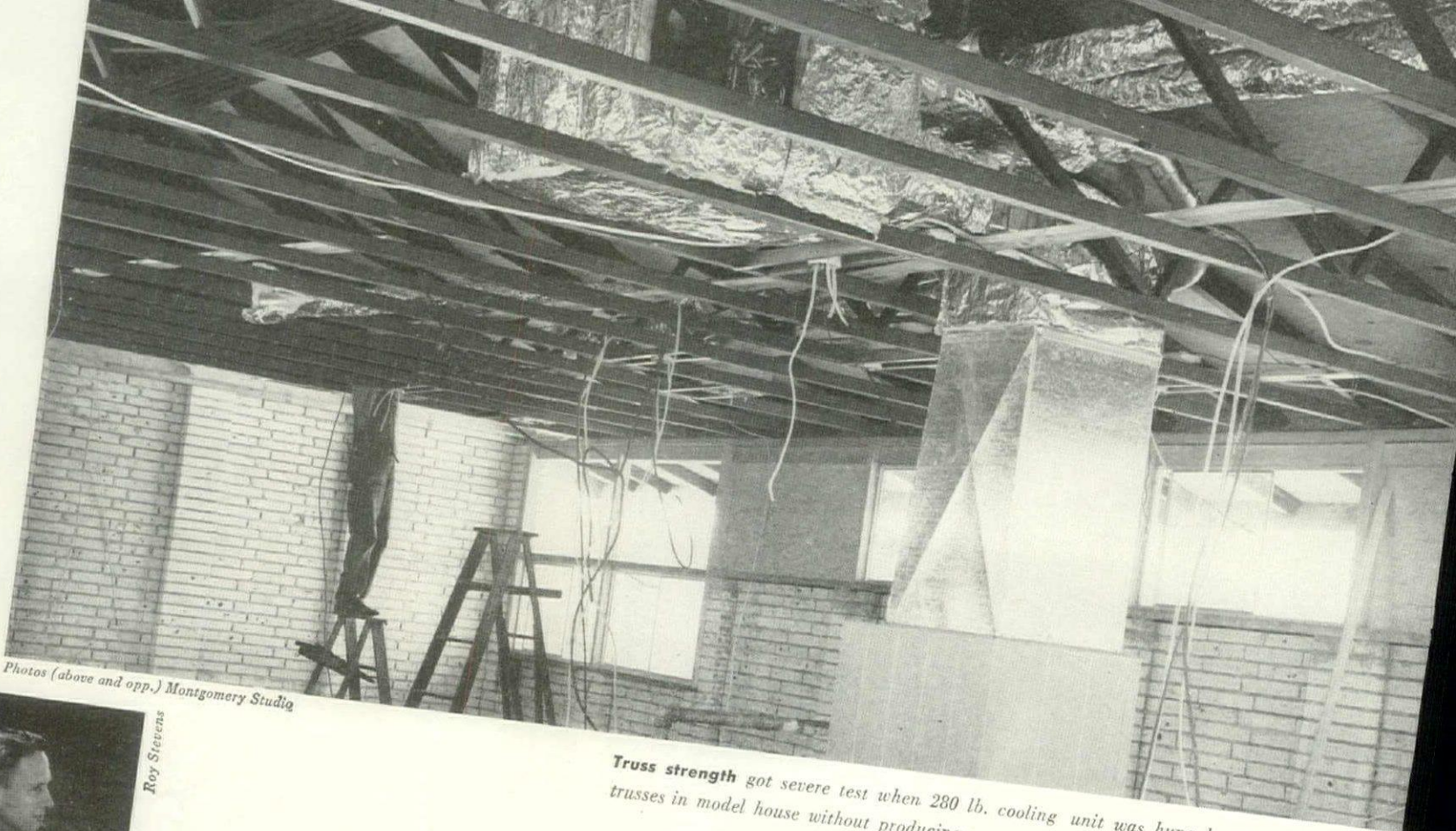
Grandiose spectacles are hard to live with, day in and day out, unless they are relieved by something smaller in scale, more intimate, more close at hand. These charming gardens, with their infinite detail, were designed as foils for the overwhelming mountain panorama all around. They are evidence of Thornton Ladd's ability to draw upon the devices of the theater as much as the devices of architecture in framing a setting both dramatic and human, both spectacular and intimate.

Geometry tamed the mountain; romance reduced it to human scale

The master bedroom is separated from the guest room by the rocks and plants of the water garden







Photos (above and opp.) Montgomery Studio

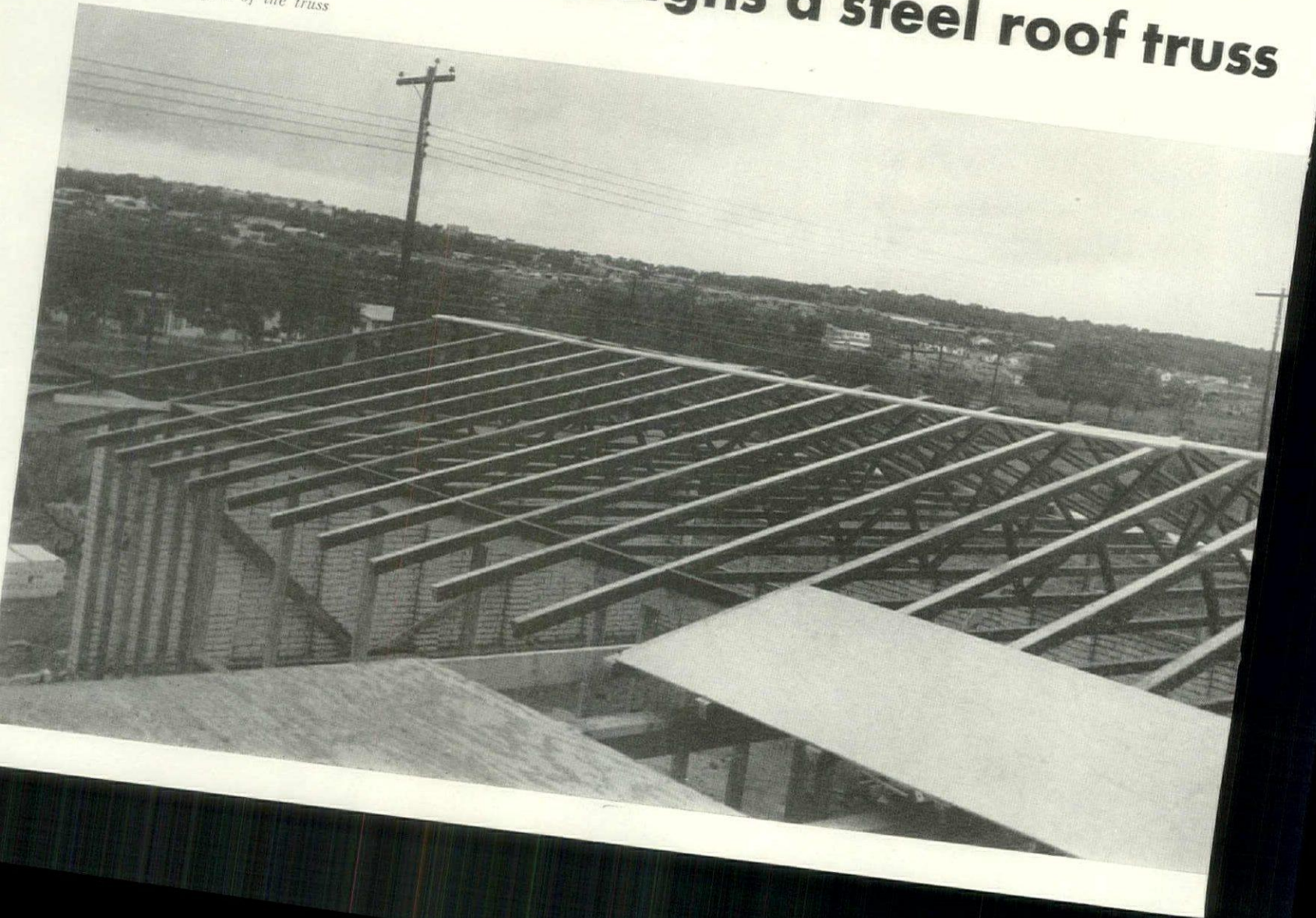


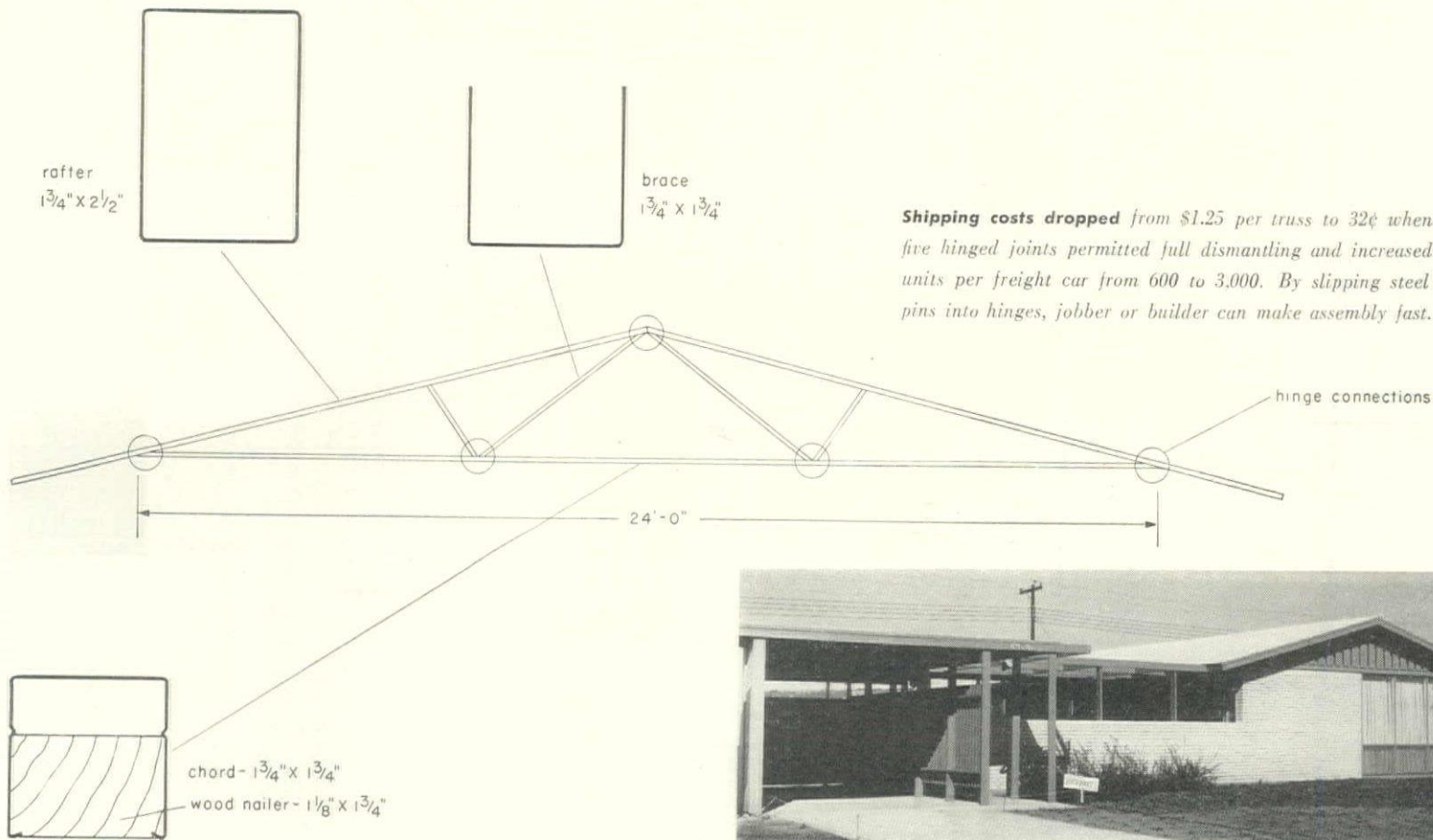
Roy Stevens

Truss strength got severe test when 280 lb. cooling unit was hung between two trusses in model house without producing any measurable deflection in either.

Ned Cole designs a steel roof truss

Ned Cole, architect and designer of the truss





Shipping costs dropped from \$1.25 per truss to 32¢ when five hinged joints permitted full dismantling and increased units per freight car from 600 to 3,000. By slipping steel pins into hinges, jobber or builder can make assembly fast.

Parade of Homes in Austin was testing ground for new house, enabled Cole to catch unpopular features before freezing his designs. Prototypes are now being built in seven states by 15 builders, who have ordered component parts and plans for 462 Cole houses.

... and a house to show it off

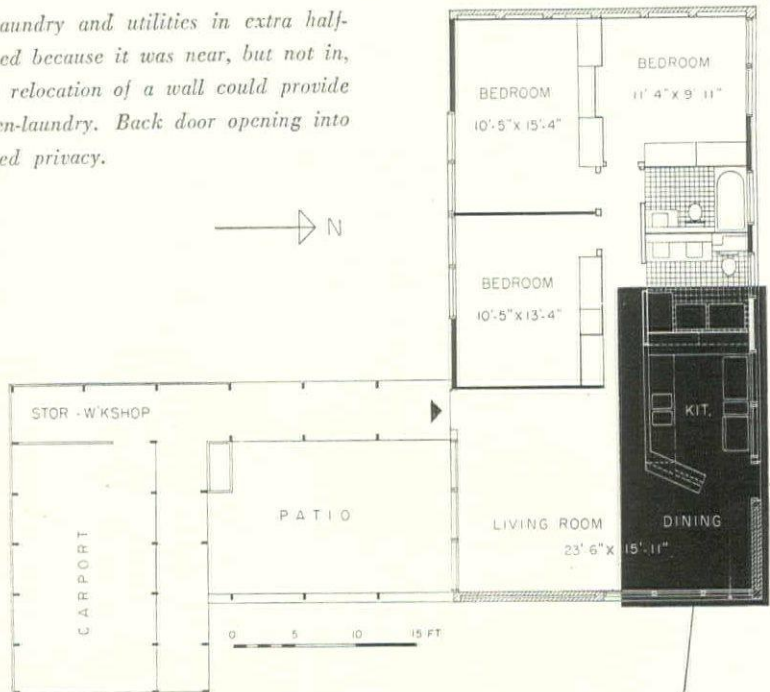
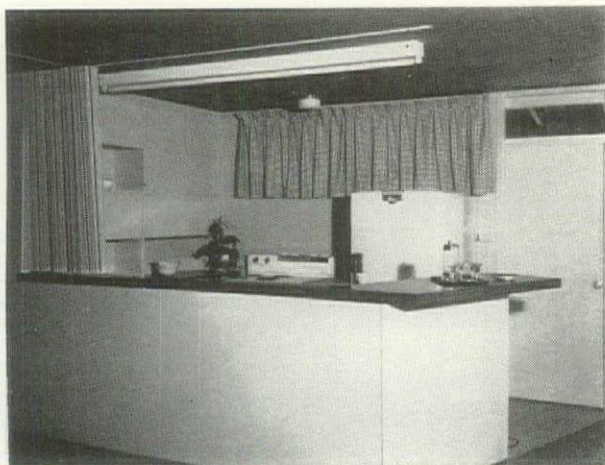
Economy and erection speed of job-built roof trusses may be offset by an embarrassing tendency to sag when unsupported across wide spans. Sagging is attended by cracking dry-wall joints. Chief causes: unseasoned lumber and careless labor on truss connections. (Factory-built trusses are almost always satisfactory.) Architect Ned Cole, who has developed a complete line of interior partitions and storage units on the "one room" theory, now comes up with a light, 16-ga., 24'-25' span steel truss at a price competitive with wood trusses (\$12.50-\$18 ea. for this span). He claims this guarantees a sagproof ceiling.

Truss lightness insures erection speed, and sheet metal birdstops automatically space each truss on top plate without measuring or fitting 1" x 4"s. Nailable 110 lb. units span 25' with minimum deflection, knock down for shipping economy, will be made with 3'-in-12' and 4'-in-12' pitch.

Present plans call for the trusses to be built in Wichita, Kan., but full production waits on FHA approval of a steel-box top chord (above), which eliminates the inserted wood nailing strip. Screw-type metal nails would be used to fasten roof decking. Ceilings and fascias would be nailed to wood inserts in bottom chords and overhangs. Cole will also offer prebuilt metal gable ends (\$60 ea.) and sheet-metal birdstops (\$1 ea.), which will provide the builder with a complete roof structure, ready for covering. Builders using the Cole house plans (overleaf) are receiving 22 hand-formed trusses for one house, will be furnished laminated plywood trusses as a substitute until steel units are in full supply.

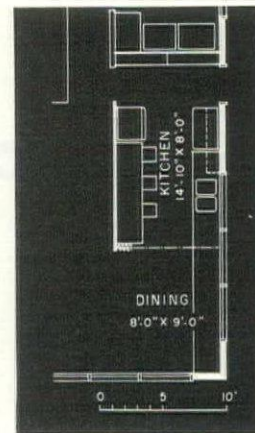
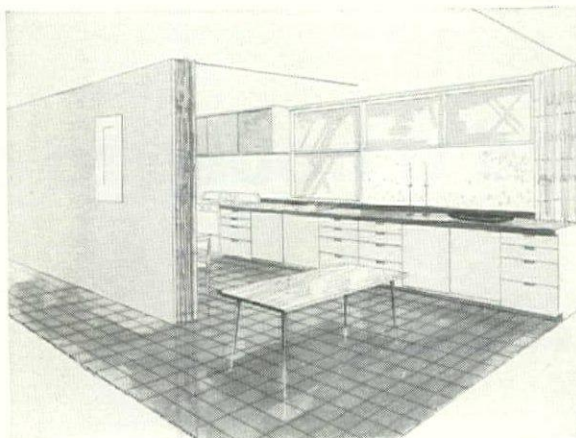
continued on p. 132

Trial-run model put laundry and utilities in extra half-bath, which women liked because it was near, but not in, the kitchen. A simple relocation of a wall could provide the conventional kitchen-laundry. Back door opening into living-dining area lacked privacy.



Too startling for majority of viewers, this completely open kitchen (above and left) was revised in the 1954 houses. Kitchen shape forced all traffic through the living room, was changed to provide a "back door," as well as a built-in wall-length buffet counter and storage.

Customer reaction to model house produces a revamped kitchen



Austin's Parade of Homes provided a perfect testing ground for Cole's 1954 house. Though visitors were enthusiastic about his private patio, air conditioning, washer and drier in the half-bath, and the generous 162 sq. ft. of storage, they found one new feature too startling: a completely open kitchen that overlooked the living room like a box at the opera. Oddly enough, what support there was for this came from two disparate groups: very young couples, and the over-50 group. Others disapproved almost 100%.

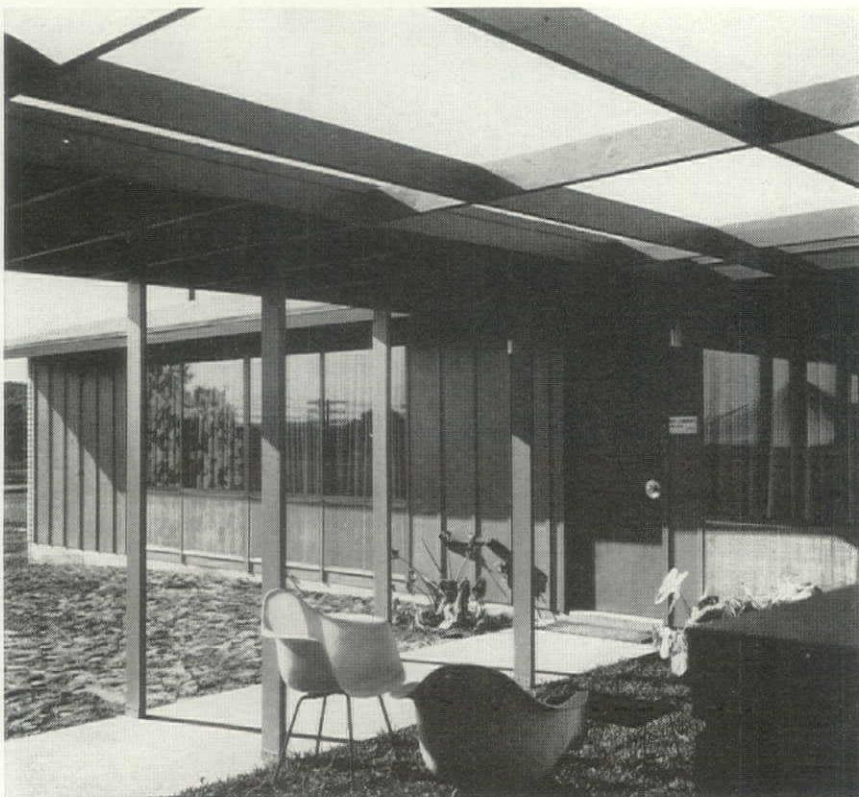
Pretesting gave Cole a chance to redesign the kitchen with a solid wall facing the living room, a relocated rear door, and an additional passage from kitchen to bath and bedrooms. The complete 1954 line of Cole-designed houses will offer 33 versions of two different-sized models (1,050 sq. ft. and 1,250 sq. ft.) all built from various combinations of the storage and wall components. Prices will depend on area and type of construction.

New arrangement provides secondary eating space in kitchen with a 7' snack bar which doubles as a work table. Folding door was included to close off kitchen from formal dining area, as main complaints against the first plan were based on the lack of privacy provided by the open kitchen.

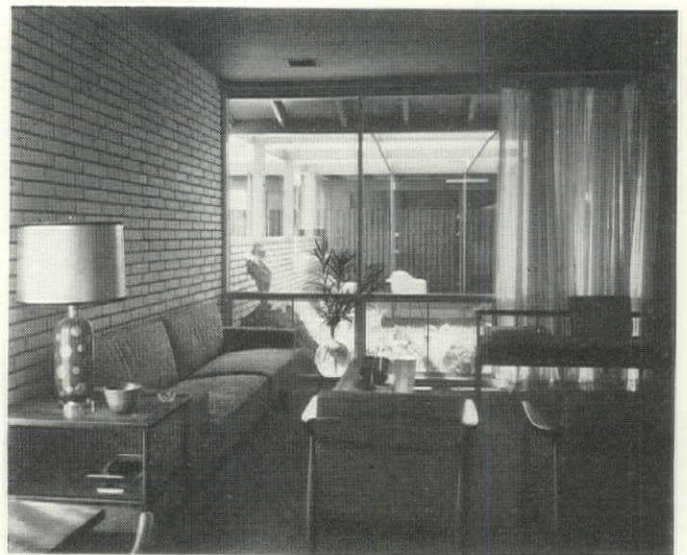


Photos: Montgomery Studio

Planning for air conditioning included a hollow-cavity insulated brick wall on both east and west exposures, south-facing living-room window, heat-reflecting marble chip roof, and generous overhang. Heating and cooling is supplied through ceiling outlets placed near outside walls.

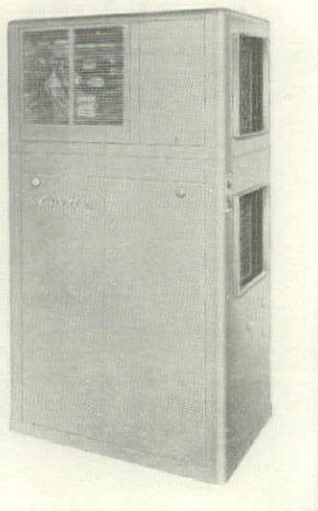


Outdoor privacy of the walled patio was popular, as was use of colorful painted cement asbestos panels on carport. Full-height windows in living room face patio, give privacy from street without shutting out light. Bottom panes in these windows are movable, top are fixed.



Structurally bearing window walls are built at Cole's Austin factory, as are hung-in-place doors and jambs. Though protesting against a "prefabber" tag, the company factory now builds entire house interiors, except floors, leaves wall framing, mechanical work to builder.

1. Heating and cooling in one shell



Year-round conditioners need a minimum of duct connections, facilitate fast installation. This 42" x 26" x 50" Curtis unit has gas furnace set on top of 2 hp cooling unit. In old houses cooling section alone can be tied into existing furnace. Other year-round units are made by Carrier, Delco, Frigidaire, G.E. and Servel.

With 234 firms exhibiting, the largest air-conditioning industry show in history was staged in Cleveland last month. Even old hands at the business are amazed at the bumper crop of new units.

Representative of the new equipment are the models shown here: units that require less floor space, others that can be put in the attic, air-cooled types that need no water, and some challenging heat pumps.

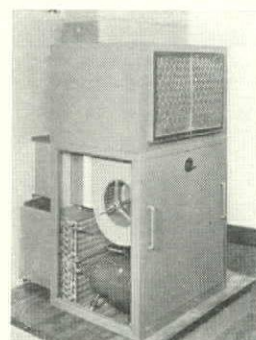
A new standard form for computing heat gain. Top news at Cleveland: the air-conditioning industry has finally agreed on one standard form for computing heat gain of houses. Previously each company had its own form and different manufacturers' field representatives often recommended different sized air conditioners for the same size of house. This puzzled FHA evaluators who did not know whom to believe.

The new form has been sent to FHA in Washington. If it is accepted it should end wrangles between FHA fieldmen and builders over how large a cooling unit a builder should provide for a specific house. It takes into account such factors as sun heat on roof, walls and windows for locations throughout the US, heat flow through various quantities of insulation, and includes a simplified method for toting up these heat gains.

Says George Jones of the Air Conditioning and Refrigeration Institute: "This form is what we've been after for two years. Now FHA can no longer say that the industry is holding up the works on a standard heat-gain computation method for home cooling."

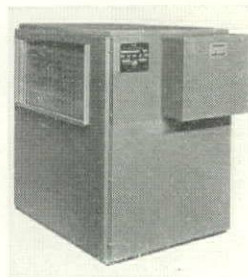
Reasons for optimism. Manufacturers had good reason for the spirit of optimism clearly evident at Cleveland. Sales of central air conditioners for houses climbed from 15,000 in 1952 to about 50,000 this year. The impartial American Institute of Management estimates that next year's sales will be an impressive and profitable 120,000 and that by 1958 the industry will be selling up to 700,000 annually "when year-round air conditioning will be standard equipment in practically all new houses."

2. Air-cooled summer conditioners



No water is needed for new summer conditioners which have built-in, air-cooled condensers. Ducts, at top left, channel outside air to and from air-cooled condenser in top of this 2 hp, 31" x 24" x 52" York unit. Fan at bottom pulls house air through cooling coil, then blows air back to house. Similar unit is made by Chrysler.

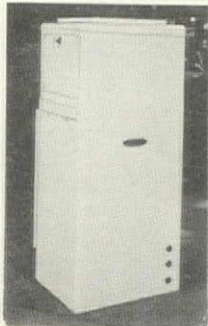
3. Auxiliary cooling units



No floor space is needed for duct-type units that are set into supply duct of separate furnace. This 2 hp Bryant model, 28" x 28" x 32", is hung from ceiling or put in attic. Larger model has 3 hp compressor. These do not have blowers, depend on furnace fan for circulating air. Similar units are made by Coleman and Lennox.

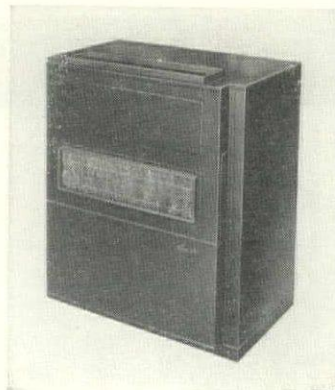
home air conditioning

4. Freestanding summer conditioners

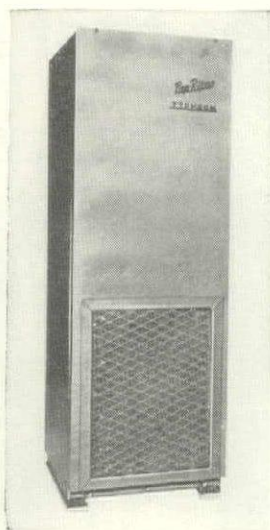


Basic summer conditioners, now made by virtually all cooling firms, hook up to ducts of any furnace or can be duct-installed in old or new houses which have separate hot-water boilers. York-Shipley's new 3-hp unit is 26" x 22" x 58" high. Other makes range from 1½ to 10 hp. Where water is a problem, however, separate water savers are needed.

Air-cooled condenser is feature of new Remington units, bigger than window coolers, smaller than most central conditioners. These have 1-, 1½-, or 2-hp compressors, take 6 sq. ft. of floor space, are 38¼" high, and are designed to cool either living or sleeping spaces of house with a minimum of ductwork and no water pipes.



5. Lower-priced heat pumps



Water-to-air heat pump takes heat from well water in winter, is cooled by well water in summer. Two-hp Typhoon unit (shown) is only 24" x 24" x 67" high, can be fully installed for \$1,800 including shallow well in water-abundant areas such as Florida. Larger 3-hp version runs about \$2,200 installed. Similar unit is made by American Coils Co.



Air-to-air heat pump is designed for operation without water. However, electric strip heaters are often needed for auxiliary heat in winter. Westinghouse offers 3-hp unit 49½" x 29" x 75" high; 5-hp model is 71" long. Installed cost is about \$2,900 for 3-hp, \$3,900 for 5-hp size. Similar air-to-air unit is made by G.E.

Photos: Richard W. Hufnagle



THE TEAM

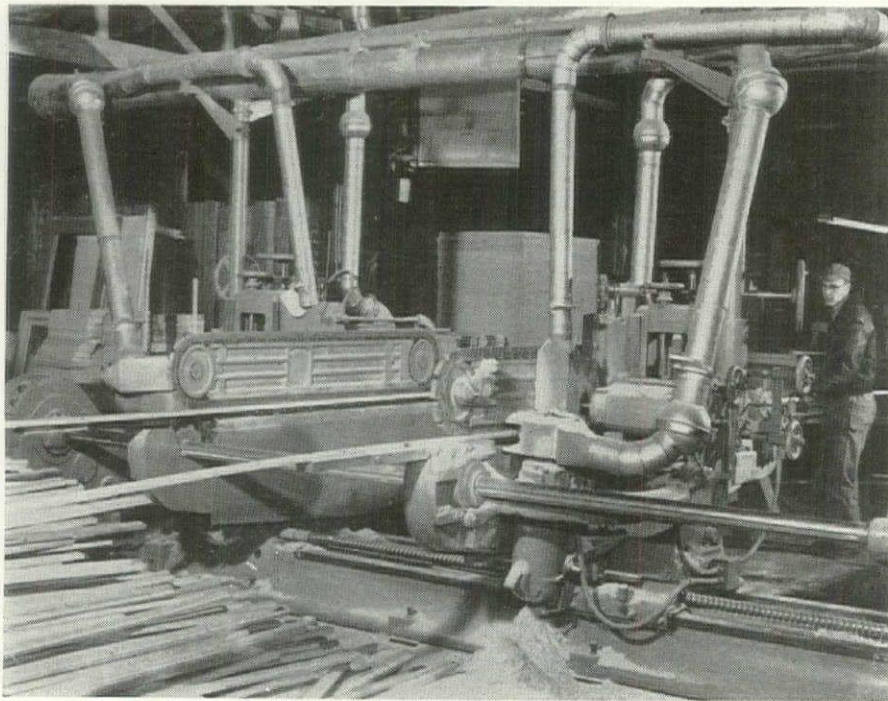
John Strauss and James Strauss (twins), Cousin Ivan Ingwerson, Brother Albert Strauss



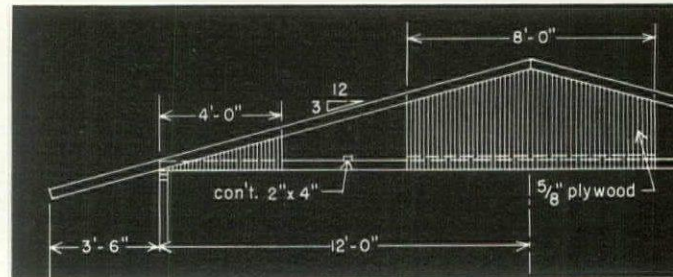
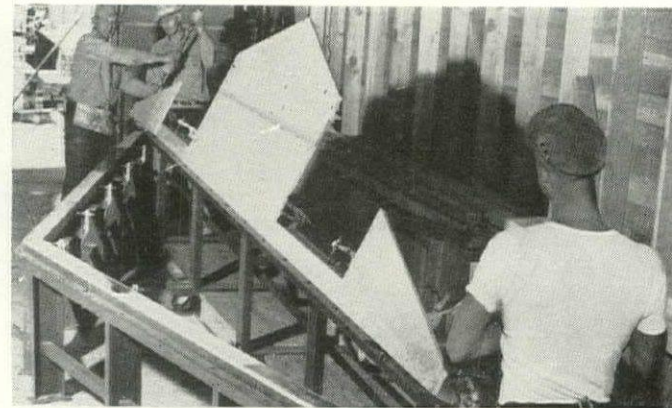
\$15,275 three-bedroom "Tritrend" model in stone is one of four basic houses. Same house sells for \$15,075 in brick, \$14,475 in frame. Smaller houses have single carports, two bedrooms and/or study, sell for \$12,475 to \$13,700. Four-bedroom models have two baths, sell for \$18,000 to \$18,800.

Volume building makes fast selling in Lincoln

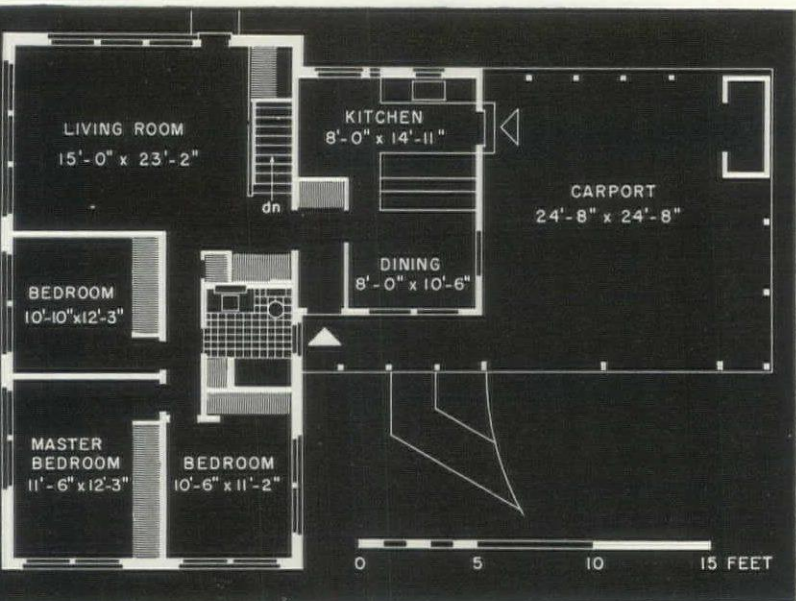
THE TECHNIQUES



Double-end cut-off saw, used here to cut and groove boards in one operation, is big, accurate (to 1/64") machine. "the kind used in furniture making," says John Strauss. Kitchen cabinets, all millwork are done in company's shop. Other machinery used: automatic rippers, gang-mounted saws.



Specially designed truss jig (top) holds frame securely for fast, efficient assembly-line output. All components are pre-cut, 5/8" plywood gussets on both ends and center of truss (see detail), used in place of braces, are glued, nailed to main members. Truss was tested by University of Nebraska.



L-shaped plan, used on all houses, permitted more variation in subdivision layout: houses could be turned 90° on lot, still present wide expanse to street. Kitchen is centrally located. Buyer has option of having car shelter enclosed, fitted with overhead doors since carports are new in area.



Buyers liked rear living rooms planned in all models even though feature was new to Lincoln in houses in this price class. Room is not a runway; furniture can be placed against all four walls. View is from 2'-6"-high partition separating basement stairwell from room. Rear door is at the right.

LOCATION: Lincoln, Neb.
 STRAUSS BROS., builders
 UNTHANK & UNTHANK, architects
 PRUDENTIAL INSURANCE CO., financing

The fastest-selling houses around Lincoln, Neb. these days (and probably for many days to come) are the two-, three- and four-bedroom houses built by Strauss Bros. who are spelling out the benefits of mass production in large L-shaped houses on the level Nebraska plains.

Since they started building their contemporary "Trend" houses—first 75 in northeast Lincoln, then 150 more on a farm outside Lincoln—they have hung up some hard-to-beat sales records: in Eastridge, their big new development, they had 40 houses sold the first week after the City Council approved their plat plan. When the first of three models was opened (in the fourth floor of the local department store) they sold eight the first day, 125 since the first of the year. Present rate: a sale a day. If sales continue their booming best, Eastridge will have 656 houses.

The price is right. Biggest factor in the fast-selling record is price. Strauss Bros. capitalize on the fact that they undersell the market because of their big volume, advertise they are taking a smaller markup.

Erv Peterson, president of the big Peterson Construction Co., admits the low prices on Strauss homes are making competition stiff. Karl Witt of Witt & Juckette Construction Co. (and president of Lincoln's NAHB chapter) agrees: "The Strauss house is a real bargain, well planned, well built."

Prudential men who saw the "Trend" houses believe they are one of the top values in the country.

What the customers get. At \$9.50 per sq. ft. customers get a lot of house for the money. In it: garbage disposal, kitchen ceiling fan, full, divided basements with roughed-in plumbing for toilet, modern stock windows with double glazing that eliminates the need for storm windows, oak flooring, birch doors, aluminum screens, silent mercury light switches.

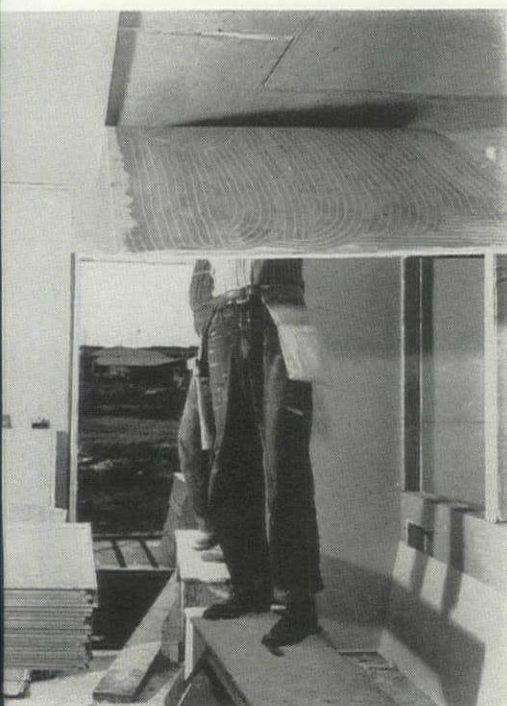
Optional extras include summer air conditioning at a low \$799 for a 2-ton unit, \$925 for a 3-ton unit in the bigger houses (in Eastridge 20% of the buyers have bought it), \$750 for a basement fireplace, \$1,000 for fireplace in basement and on first floor (ten buyers).

Most popular house is the three-bedroom model with stone exterior.

Firstest with the mostest. The builders—John and James (twins), brother Albert and cousin Ivan Ingwerson—are responsible for bringing a host of "firsts" to Lincoln building:

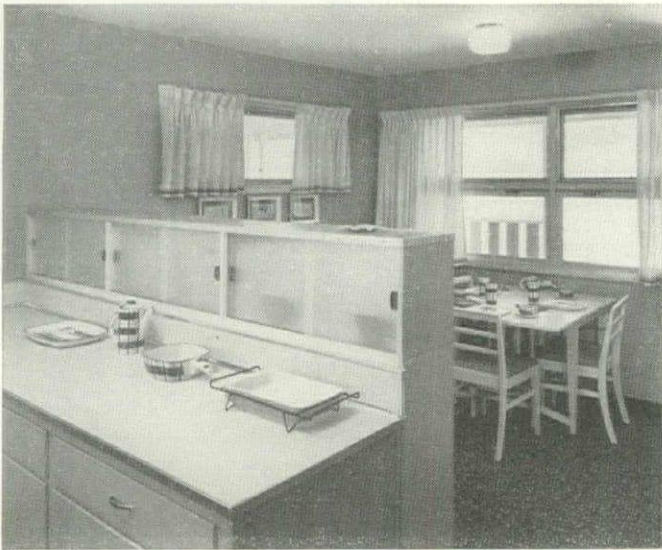
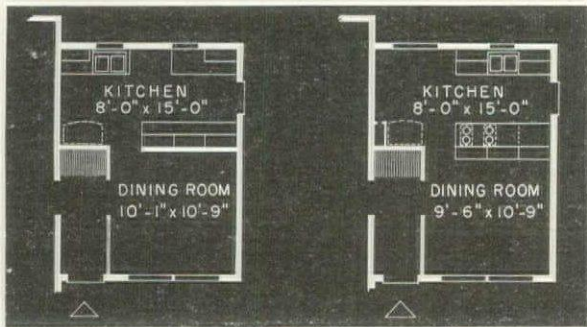
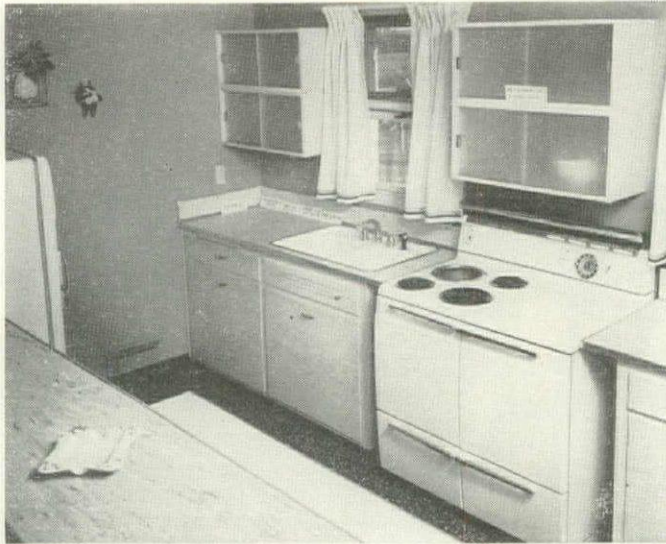
▶ They introduced carports and rear living rooms to the area for the first time in volume-built housing, credit HOUSE & HOME for this feature, the Trade Secrets house for the combination carport and porch. They are the first to use a low-pitched, chipped rock roof.

▶ They are the only builders in the area to use assembly-line building on such a vast scale. They precut or preassemble just about everything that goes into the house but dry wall and brick, and stone.

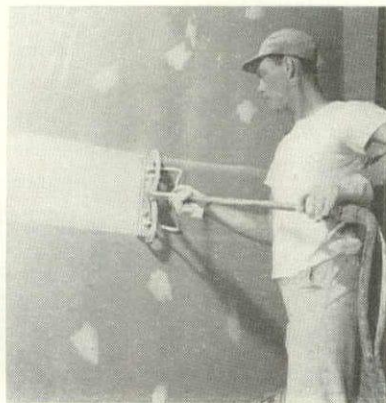
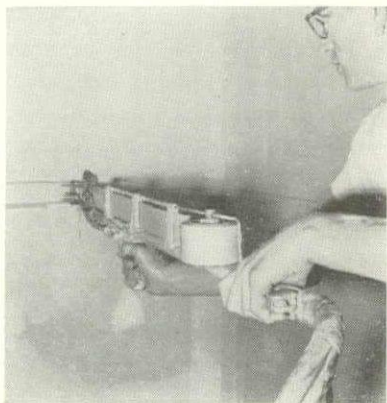


Dry wall is two laminated sheets of 3/8" gypsum. Photos like this were used in ads run by subcontractor and builder to stress low initial cost, "crackproof" walls. (For joint-taping method, see next page.)

continued on p. 139



Eight kitchen arrangements are offered all buyers. Range and refrigerator are optional extras since they are not considered realty in Nebraska, but built-in garbage disposal is included in selling price. View in top photo is from top of freestanding cabinets with pass-through sliding doors on both sides (photo above). Storage is ample.



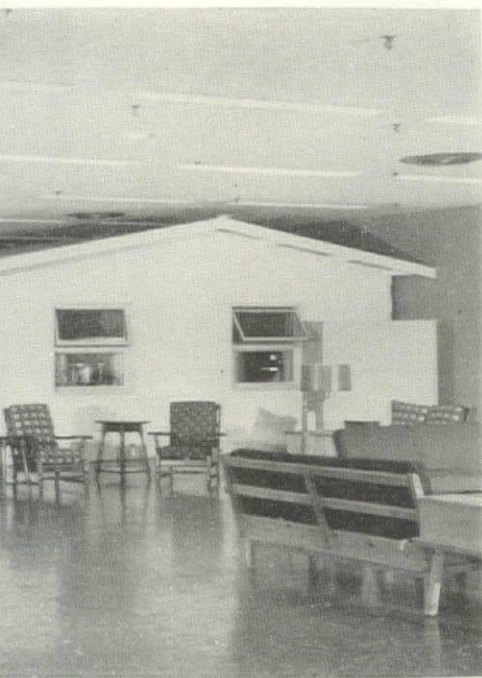
Taping tool seals joints of laminated dry wall (far left); skim coat of plaster is spread over joints (left). "feathering" wide stretch to smooth joint completely. Joints between ceiling and side walls are also sealed by tool (not shown) on end of long pole, used by workmen who need no ladder.

THE MERCHANDISING



Department-store display: two-bedroom "Trend" house was built on fourth floor of Gold & Co. store in Lincoln, increased business "materially" in furniture, carpeting, curtains. After redecorating once, Gold drew big crowds a second time, has now decided to decorate house again.





THE SITE



Curvilinear look of Strauss' Eastridge subdivision is changing grid-pattern farmland layout. Company has registered engineer on staff, cites savings he can make possible on 656-house development. L-shaped pattern of foundations shows how street variety is achieved on relatively small lots.

▶ They use—and are sold on—architectural service for project building.

▶ They developed and perfected a glued and nailed roof truss, approved by the University of Nebraska and FHA (only after a hard fight, more tests).

L-shaped solution. Faced with the problem of getting variety in a large-scale project, the architects, George and John Unthank, suggested at the outset that an L plan was the best way to obtain maximum use of plot and good looks. The builders readily agreed. The houses could be turned 90° on their lots, still offer indoor-outdoor living advantages; kitchens and living areas were readily accessible without becoming runways. Although lot sizes average 75' x 140', the L-shape plan permits narrower lots when houses are turned long-end to the street, offers lot-saving economies without ever sacrificing privacy.

Variety adds sales spice. Despite Strauss's assembly-line building techniques, houses were not turned out on a take-it-or-leave-it basis. Knowing that buyers are getting much choosier and demanding individual touches, Sales Manager Bill Lofink and Jim Strauss figured on as much variety as they could offer customers. Samples: choice of ten different laminated melamine patterns for counter tops, choice of over 1,000 colors ("it's easy to paint colors a customer wants once you've got a program setup"), 30 linoleum patterns.

Flexibility of choice extended to the basic plan of houses: the architects prepared 30 interior variations, eight kitchens.

Builders felt basements were a must for all houses (under main section of house only; trenched footing under part of living area and carport leaves it a rectangle). L-shaped arrangement gives house excellent traffic circulation.

Modern merchandising. The builders built their merchandising as big as their operation, sponsored a 15-minute news program twice a week (Elmer Davis), a homemakers' program twice a week, two television spot announcements (Friday nights). Frequent newspaper ads stressed "Trend" and "Eastridge" daily in the classified section. They use full pages on Sunday, went all-out in one special 12-page section first announcing the "Trend" house.

Three furnished models were used: one in Eastridge, one in the northeast 75-unit tract, a third in the department store. Houses are sold through builders' own sales organization, managed by Bill Lofink.

How the builders got big. Before 1940 the Strauss brothers were dairy farmers. Twins Jim and John got into carpentry subcontracting in a small way in 1940, were joined by brother Albert and cousin Ivan, an electrical subcontractor, after the war. They had built up a small lumberyard business and were ready to take advantage of the building boom by 1949 when they struck out for themselves and began building at a 100-house-a-year rate. Cost-conscious from the start, the organization was soon precutting and preassembling units in their lumberyard mill shop.

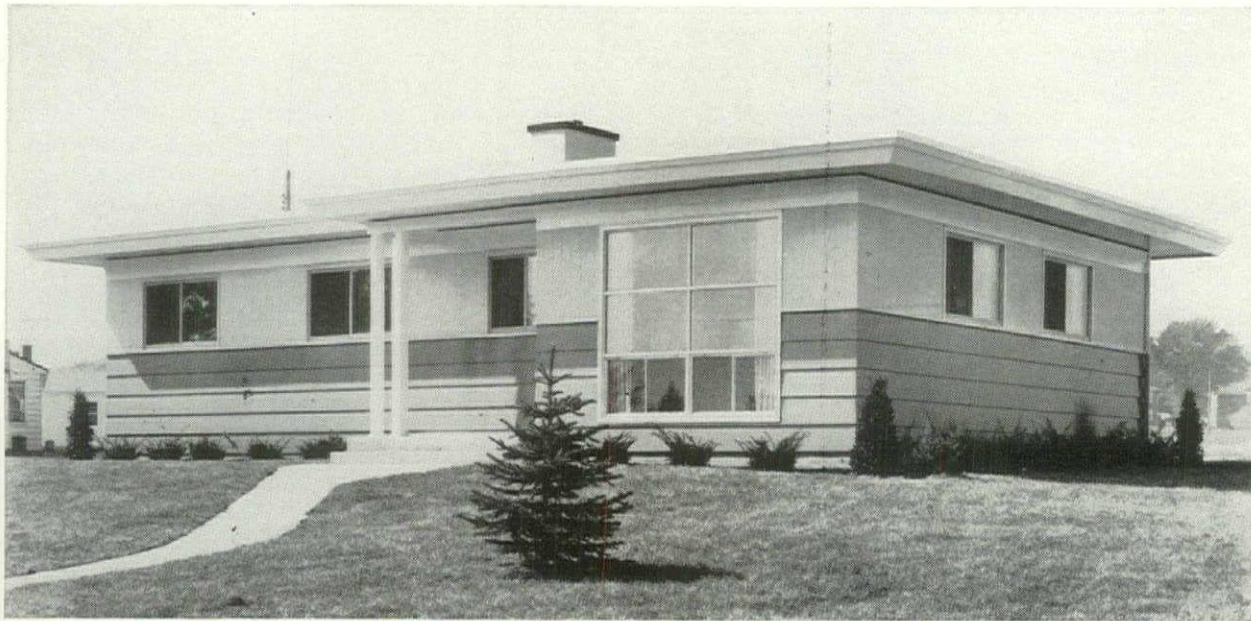
Model change-over. Last January when the four partners decided to switch to contemporary ("Lincoln was getting full of small similar houses, future demand would be for bigger houses"), they realized it meant converting an already smooth running volume operation (287 houses in 1951-52) through a maze of design and technical problems.

They worked out their plans, purchasing, scheduling on paper thoroughly, mentally setting up problems they would have to lick. They talked with foremen of the specialized crews they had set up—one crew for wide walls, another for roof rafters, even one for basement stairs—showed them blueprints and typed-up operational schedules. Next foremen were taken one at a time to "walk through the problem." Each foreman learned what would be required of his crew, how it differed from what they had done before.

Production kinks and wrinkles were first worked out on the smaller, 75-house tract in northeast Lincoln before the 656-house Eastridge project was attempted.

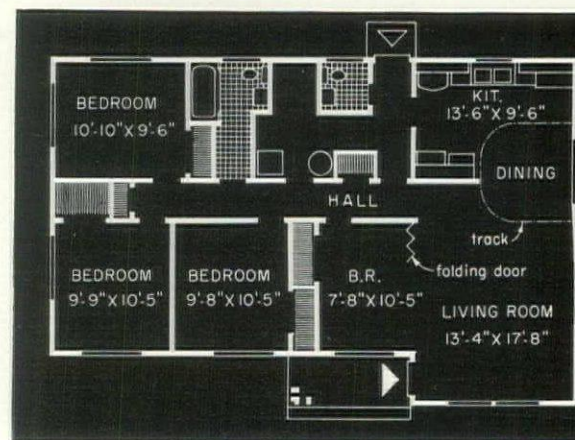
"Divide and conquer." The builders extend their "divide and conquer" theory for overcoming problems to their own division of labor. John is general superintendent in the field. Jim is the inside man, handles the offices, financing, land acquisition, works closely with FHA and mortgage lenders. Albert handles utilities, is responsible for vehicle and machinery maintenance. Ivan Ingwerson bosses the electrical heating and foundation operations.

Wave of the future. What sent Strauss Bros. on this big building spree? Jim Strauss answers with one word: "Population." He points to the growing families in America, believes they will need and want better housing. "And if we can give them more house for less money, they'll buy from us."



Flat top on introductory model was chosen as best way to dramatize changes, but pitched and hip roofs will also be offered. Price range for the 1,100 sq. ft. four-bedroom house is \$11,000-\$14,000, depending on shipping distance and local cost factors.

**Harnischfeger brings out
a contemporary four-bedroom house
to spur winter sales,
highlighted by a "now you see it, now you don't"**



Three-way dining room

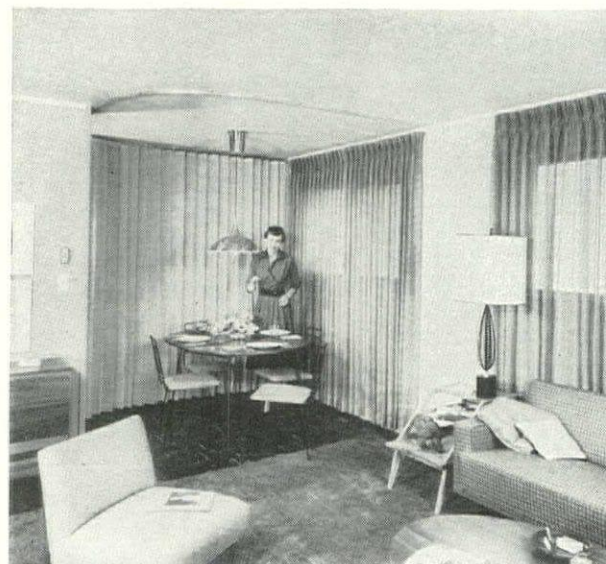
Multiple use of space becomes more important as prices rise, because square feet saved can be added to what would otherwise be minimum rooms. In the new line of 1954 P&H Homes, Architect John Normile adds a third idea to the accepted living room/study and kitchen/laundry combinations: a flexible dining area that is part of the living room, or part of the kitchen, or can disappear entirely—when a ceiling-mounted, bamboo curtain wall is drawn closed.

Though two- and three-bedroom models will not be ready until the NAHB convention in January, P&H rushed the first design into production as a weapon against the winter sales slump.

Like other prefabricators, P&H is bidding for a larger share of the housing market with two top trumps: 1) a market-smart architect, and 2) contemporary design. During Normile's first year as P&H design consultant, sales jumped from 1,400 to 1,800 houses annually, and a 2,000 house goal is set for 1953-54.

All of the 1954 designs will have:

- ▶ Completely open planning, with the three-way dining areas.
- ▶ Lower pitched roofs (4' in 12'), optional flat top.
- ▶ Wider overhangs (24" on pitched roofs, full 3' on flat).
- ▶ Higher, wider windows (3' x 5'), plus living-room window wall.

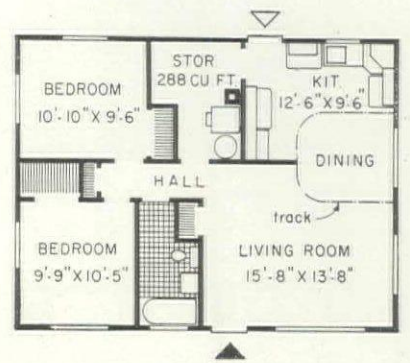


1. **When kitchen is hidden, a dining alcove is created off the living room, but closed off from the clutter of meal preparation. Flexible space supplies the demand for nonkitchen dining, conceals mechanics of meal-getting from dinner guests.**

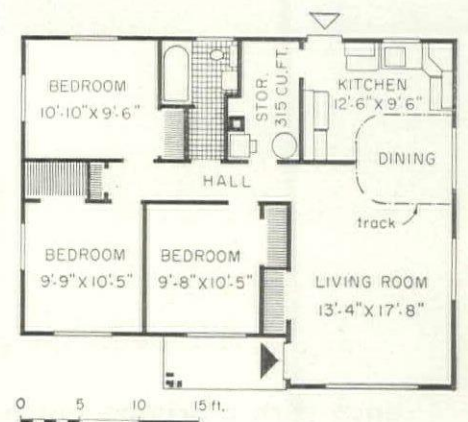


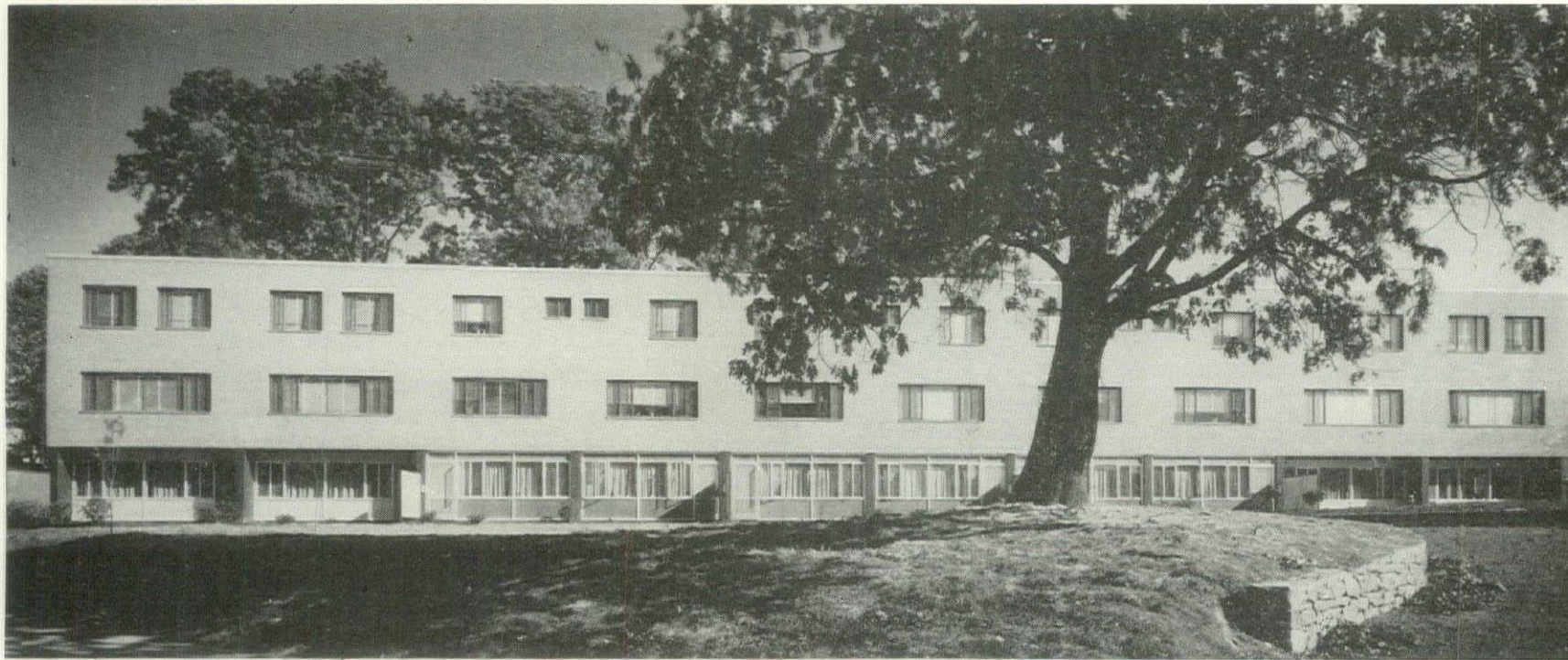
2. When three areas are joined living-room size gets a big optical boost. Drawing curtain against wall makes one large activity and entertaining area out of rooms that would normally be walled apart. They can then borrow light, as well as space, from each other.

3. When living room is hidden, family can make dining space a part of the kitchen work center or use it for snacks, breakfast, etc. Only one curtain is needed, since the continuous ceiling track permits it to be pulled clear around into any position desired.



Same dining arrangement is used in 1954 two- and three-bedroom models, but not extra half-bath featured in four-bedroom house. Bedroom closets have built-in shelves and drawers, sized to accommodate most-often-stored items, in addition to normal space for hanging clothing.





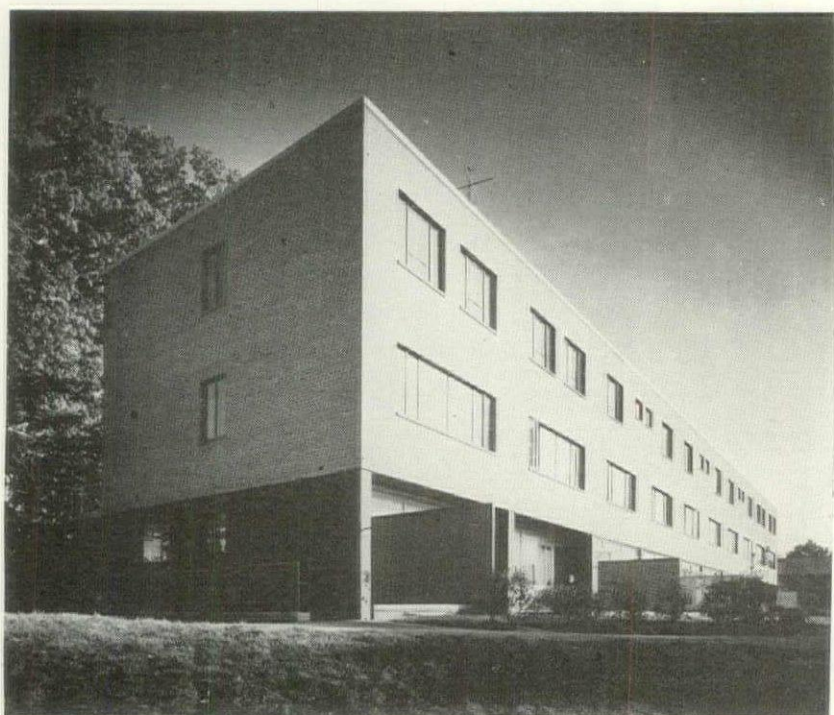
Photos: Robert C. Lautman

Ten small apartments on ground floor are entered from this side. Ten duplexes above are entered from other side. Trees will shade these windows.

**Hillside building has four different-sized units,
each with a private entrance and
a living room facing landscaped grounds**

LOCATION: Arlington, Va.
KEYES, SMITH & SATTERLEE, architects
FRANCIS D. LETHBRIDGE, associate
LURIA BROS., builders
SUN LIFE INSURANCE CO., financing

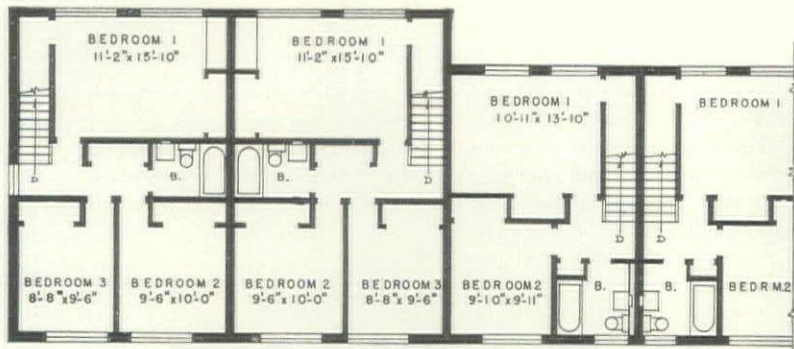
No space wasted on public halls or stairs



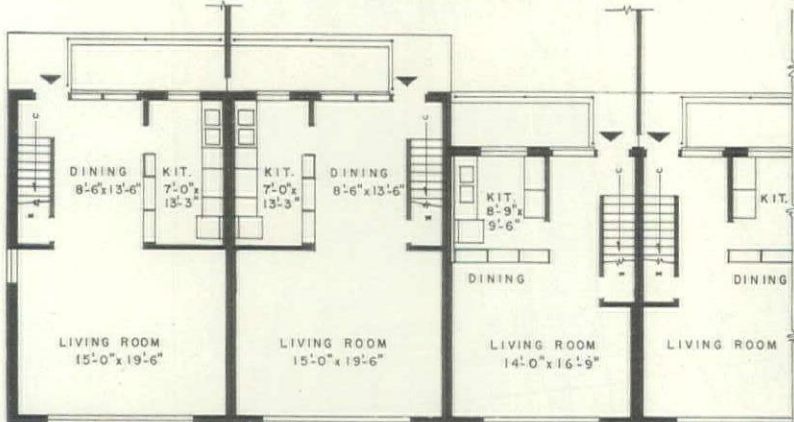
Apartment buildings need a wide range of apartment sizes to appeal to tenants. These owner-builders got four different layouts in their 20-unit building, ranging from \$77.50 per month efficiency apartments to three-bedroom duplexes at \$145, including utilities.

The architects used an 8' slope to locate individual entrances on two levels at opposite sides of the building, eliminated public halls and stairs, faced living rooms toward a lawn. Efficiency apartments are on the ground floor; each has a duplex above it. Earth excavated from the subgrade laundry and boiler room was used to build up the rear grade to the entrance level. Partitions of 8" cinder block insure soundproofing; window muntins are extra strong to accommodate room coolers. The repeat pattern of apartments kept construction time under four months from start to completion and 100% occupancy.

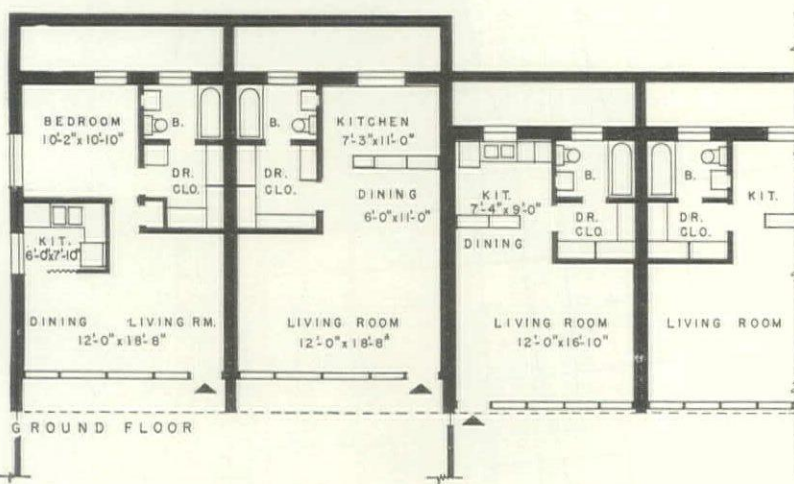
Slope of ground (plus some excavating, filling) made it possible for architects to tuck small units under duplexes. Utilities, laundry are in basement.



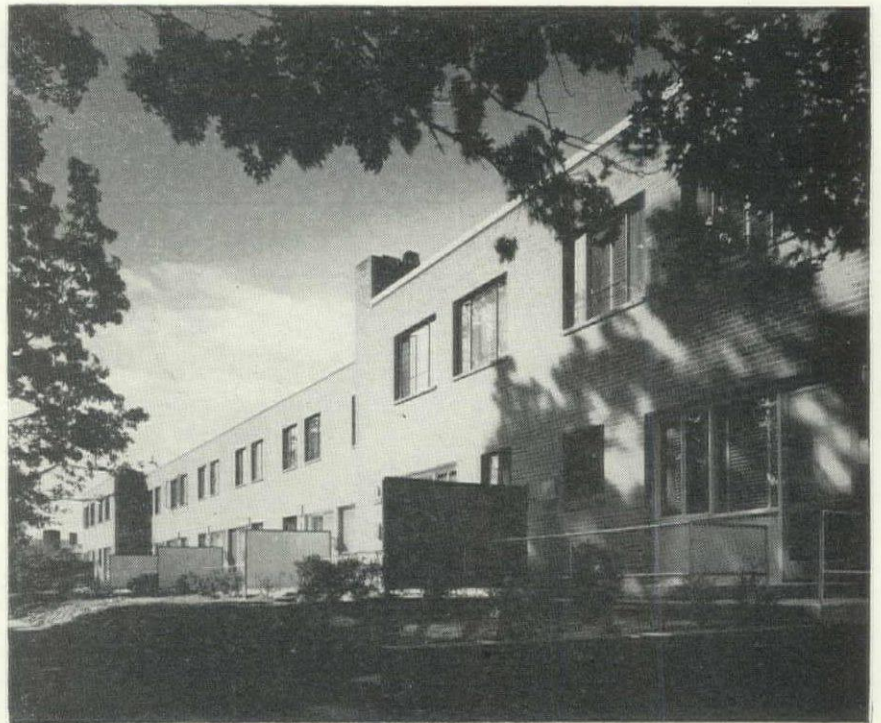
SECOND FLOOR



FIRST FLOOR

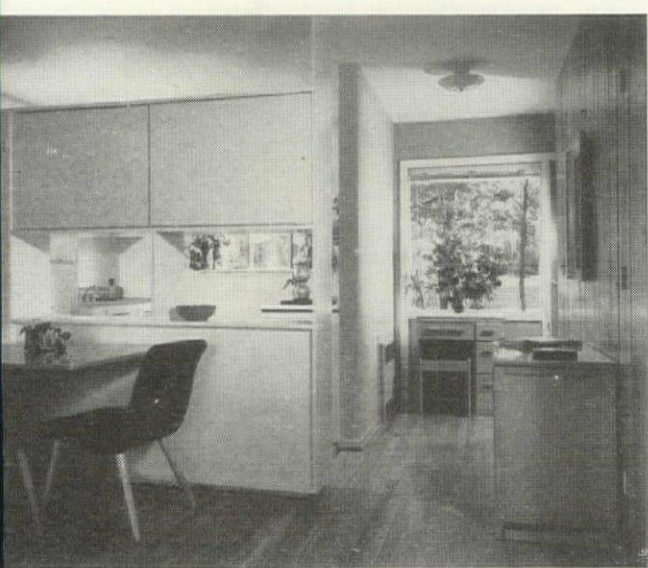


GROUND FLOOR

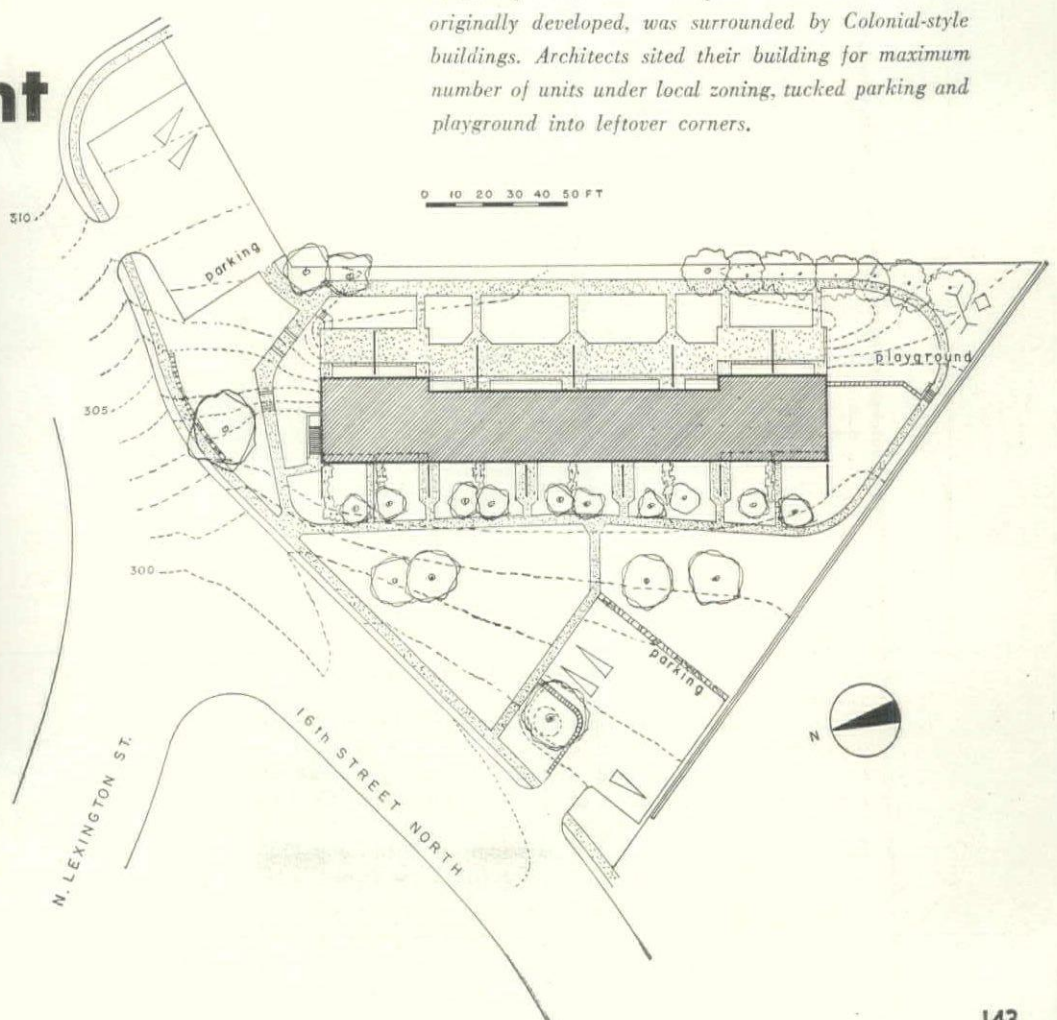


On-grade entrances of duplex units span 5'-deep continuous areaway demanded by city, a hazard that made fences necessary for safety. Vertical-board space dividers were substituted for outdoor storage walls originally planned for these two- and three-bedroom apartments.

in this apartment



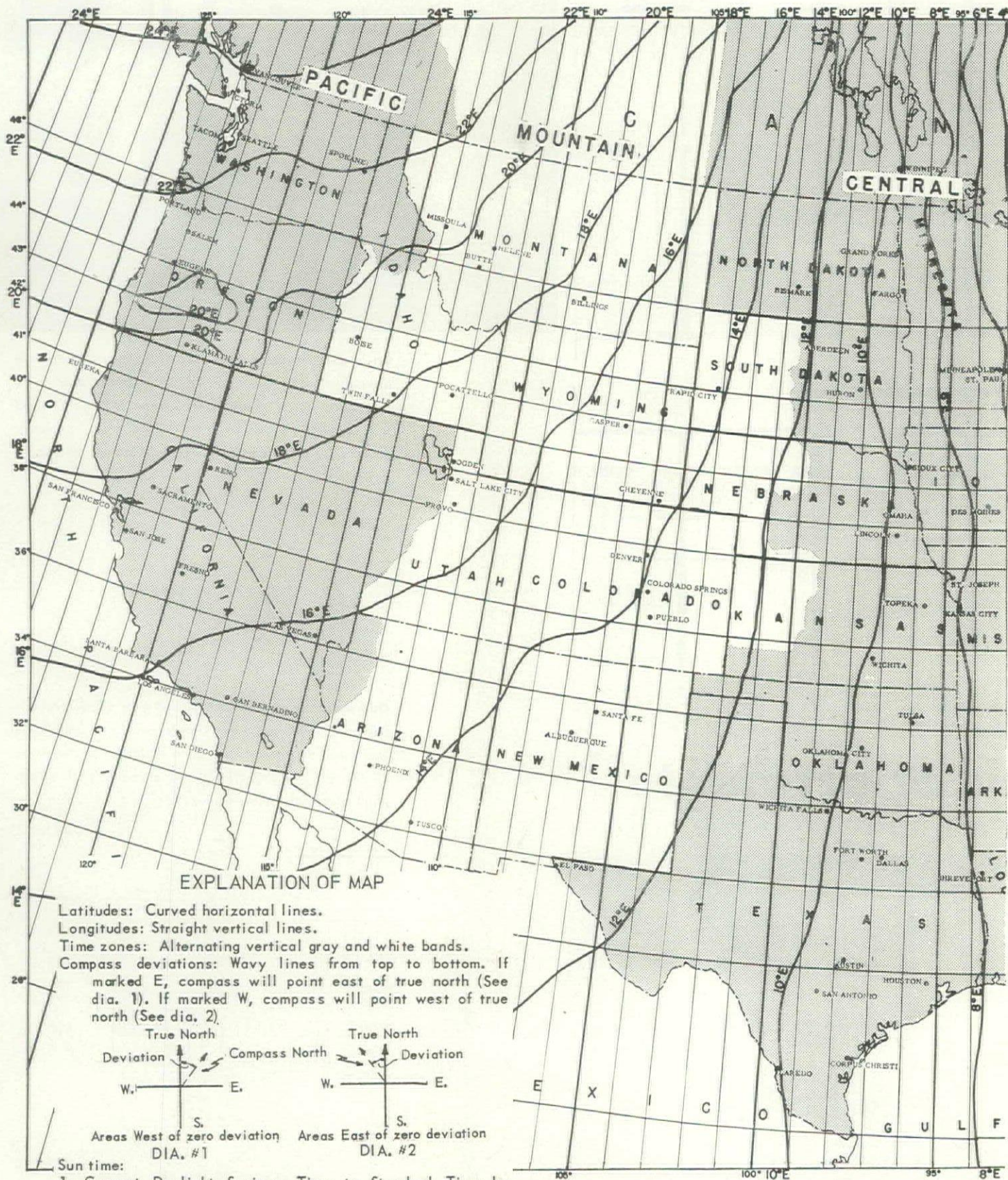
Serving is easier, kitchen is brighter, because of pass-through. Builder felt duplexes would be popular because few had been built during recent boom in garden apartments, though prewar ones are in great demand. Stairway to bedrooms is at right of the entrance foyer.



Odd-shaped site had been passed over when area was originally developed, was surrounded by Colonial-style buildings. Architects sited their building for maximum number of units under local zoning, tucked parking and playground into leftover corners.

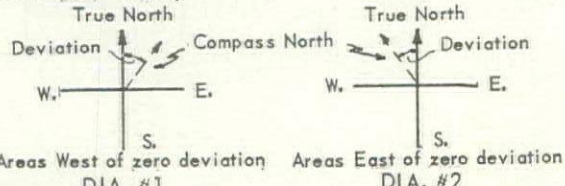
SUNSHADE-CALCULATOR

This map and the four pages of data will save valuable man-hours for builders and architects who are calculating sunshading devices for windows. Because the sun position is different in each location, this map is essential for determining latitude, longitude and true north. From the tables a designer can figure the size of overhang necessary to shade windows facing any direction, a matter of growing importance now that air conditioning is forcing builders to pay attention to sun loads.



EXPLANATION OF MAP

Latitudes: Curved horizontal lines.
 Longitudes: Straight vertical lines.
 Time zones: Alternating vertical gray and white bands.
 Compass deviations: Wavy lines from top to bottom. If marked E, compass will point east of true north (See dia. 1). If marked W, compass will point west of true north (See dia. 2).

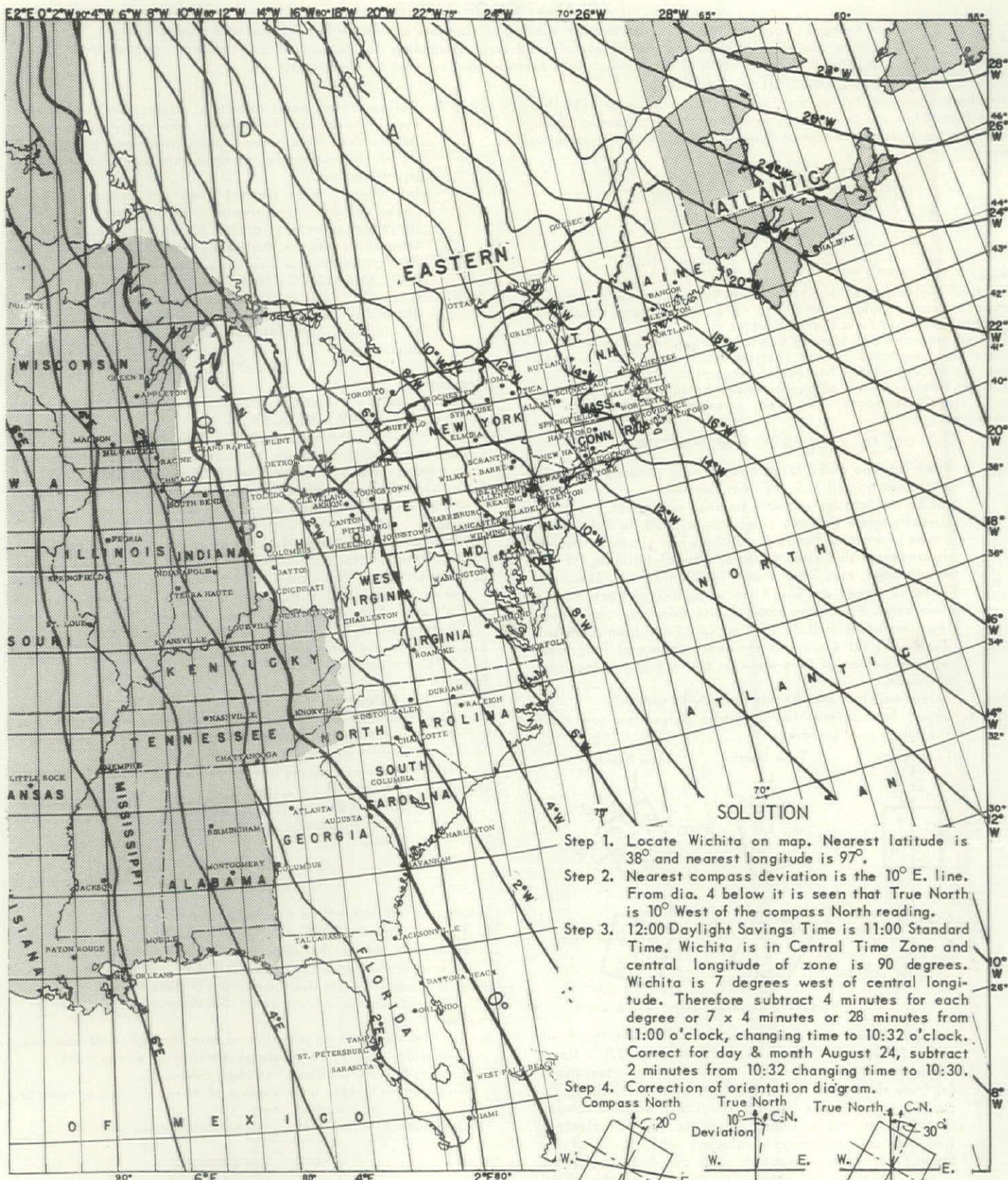


Sun time:

1. Convert Daylight Savings Time to Standard Time by subtracting 1 hour.
2. Correct Standard Time for site location: Subtract 4 minutes for every degree of longitude that site is west of central longitude or add 4 mins. for every degree of longitude site is east of central longitude. Central longitudes of Time zones are:
 Eastern Time Zone 75° Mountain Time Zone 105°
 Central Time Zone 90° Pacific Time Zone 120°

3. Correct for time variations for day and month: Add or subtract minutes as follows:
 Jan. 20 -11 min. May 22 +3 min. Sept. 23 +7 min.
 Feb. 19 +14 min. June 22 -2 min. Oct. 23 +16 min.
 Mar. 21 -7 min. July 23 -6 min. Nov. 23 +14 min.
 Apr. 20 +1 min. Aug. 24 -2 min. Dec. 22 +2 min.

SUNSHADES MASTER MAP

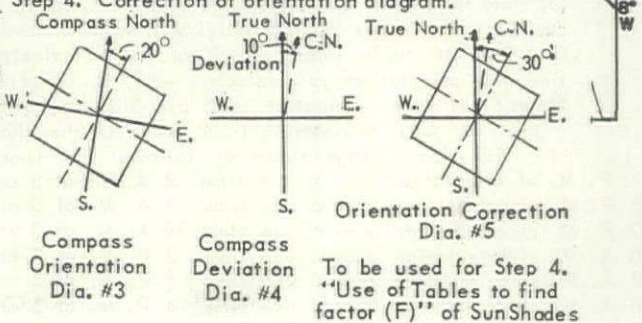


PROBLEM

Known: Compass North of a site in Wichita, Kansas
 To Find: 1. Latitude and Longitude of site.
 2. True North of site
 3. Sun time at site for 12 noon Daylight Savings Time on August 24th.

SOLUTION

- Step 1. Locate Wichita on map. Nearest latitude is 38° and nearest longitude is 97°.
- Step 2. Nearest compass deviation is the 10° E. line. From dia. 4 below it is seen that True North is 10° West of the compass North reading.
- Step 3. 12:00 Daylight Savings Time is 11:00 Standard Time. Wichita is in Central Time Zone and central longitude of zone is 90 degrees. Wichita is 7 degrees west of central longitude. Therefore subtract 4 minutes for each degree or 7 x 4 minutes or 28 minutes from 11:00 o'clock, changing time to 10:32 o'clock. Correct for day & month August 24, subtract 2 minutes from 10:32 changing time to 10:30.
- Step 4. Correction of orientation diagram.



SUNSHADES

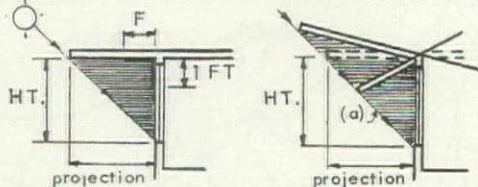
EXPLANATION OF TABLES

The following 3 pages of tables give factors for shading of windows and depth that the sun will enter a room.

- (a) By use of solid overhang. (b) By use of solid vertical shading device such as a fence, wall, or planting.
- (c) Depth of penetration of sun through wall openings not covered by shading device.

EXPLANATION OF FACTORS

Numbers shown on tables are factors (F) in feet and 1/10 ths. of a foot. They are projections required to cast 1 foot of shade on a vertical plane, measured down from bottom of overhanging eave.



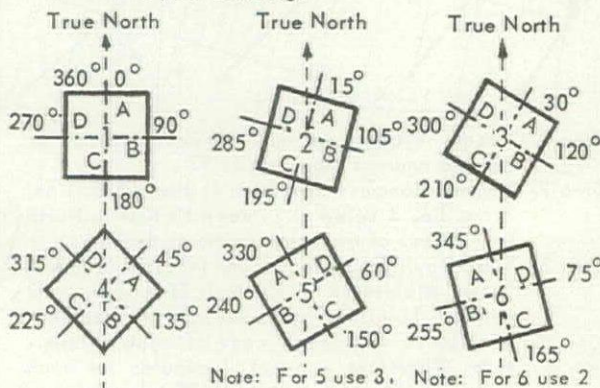
Note:

To find projection of horizontal overhang required to cast a specific shade below bottom of eave of overhang, multiply height required (HT, in feet) by factor F.

To find projection of sloping overhang required, solve as for a horizontal overhang. Take a section thru wall of your building and lay off calculated horizontal projection. Draw a line "a" through bottom of eave of overhang and bottom of shade. Where roof slope intersects this line, required overhang can be measured.

USE OF TABLES TO FIND FACTOR F

- Step 1. Find latitude of building site on map showing the U.S. Latitudes or call U.S. Weather Bureau.
 - (a) Select latitude on table nearest to site lat.
- Step 2. Directly under latitude select hours, A.M. to P.M. when shade is wanted. Hours & months when shade is wanted depends on the site, climate, use of building, if air conditioned, etc. Time shown is "Sun Time". Standard Time is based on Sun Time at center of each hourly time zone. Find time zone of site from any map showing time belts in U.S. To find Sun Time from Standard Time subtract 4 minutes for every degree of longitude west of center of time zone or add 4 minutes for east of center.
- Step 3. Select month or months when shade is wanted.
- Step 4. Select from orientation diagrams below the one most similar to your building.



Angles shown read clockwise from True North 0° or 360°. East is 90°, South is 180°, West is 270°. Make correction from magnetic North for site deviation. (a) Note that sides of diagram are labeled A, B, C, D. Decide which sides of your bldg. will require shade. (b) Turn to table under month or months selected, find the orientation you selected - 1, 2, 3, or 4. Note: (1) If your orientation is 5 use 3 in the chart. If your orientation is 6 use 2 in the chart.

(2) Also change times as follows: For times,

- 4 P. M. of orientation 5 or 6 use time 8 A. M. of 3 or 2
- 3 P. M. of orientation 5 or 6 use time 9 A. M. of 3 or 2
- 2 P. M. of orientation 5 or 6 use time 10 A. M. of 3 or 2
- 10 A. M. of orientation 5 or 6 use time 2 P. M. of 3 or 2
- 9 A. M. of orientation 5 or 6 use time 3 P. M. of 3 or 2
- 8 A. M. of orientation 5 or 6 use time 4 P. M. of 3 or 2

For noon do not substitute.

Sun Shade data prepared in consultation with Andre Halasz A.I.A.

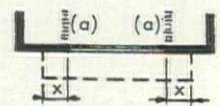
- Step 5. Follow down under month & orientation number until the latitude and time rows previously selected are intersected. Here select sides (indicated as A, B, C, D) which you decided to shade and use factors following the letters.

(a) When a side (letter) does not appear it is because sun does not shine on it at that time.

(b) When selecting factors for several hours and for several months use the largest factor.

- Step 6. Find projection of overhang required. (See note under EXPLANATION OF FACTORS).

- Step 7. If length "x" is desired assume plane "a" perpendicular to end of window & calculate for its overhang.



EXAMPLES

Problem "A":

1. Assume building is at Lat. 40° 16'. Use 40° Lat.
2. Shading wanted 9 A.M. to 3 P.M.
3. This shading wanted April 20th to Sept. 23rd.
4. Center of building is on an axis 61° East of North. Use Orientation No. 5. Bldg. on site 60° East of North.
5. On side C shade entire window to 5' below overhang eave. On side D shade entire window to 4' below overhang eave.

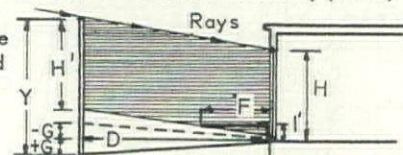
Solution

1. Interchange orientation No. 5 to orientation No. 3. For 3 P.M. of orientation No. 5 substitute 9 A.M. for No. 3 etc.
2. Largest factor for side C orientation No. 3, 40° Lat. between 9 A.M. & 3 P.M., April 20th to Sept 23rd, is factor 1.4' at 9 A.M. on Sept. 23rd (3 P.M. on table before conversion). Multiply 1.4' by 5' height = 7' projection.
3. Largest factor for side D is .69'. Multiply .69' by 4' height = 2.76' projection.

Problem B

1. To find height of vertical shading device. Known:
 - D - Distance from plane to be shaded to shading device.
 - H - Height from fl. to top of window or side to be shaded.
 - G - Height from floor to grade at shading device.
 - H' - Portion of shading device needed to shade H, (H'=H)

Unknown: Y height of vertical device above finished grade.



Solution: Find factor F as in preceding problem.

1. Formula for $Y = D/F + H \pm G$ (in ft. and fractions of ft.)
2. If the height of the device is fixed and the distance D is sought the formula becomes $D = F(Y - H \pm G)$

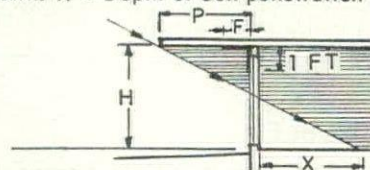
Note: If grade is below floor use - G (Differs from diagram) If grade is above floor use + G

Problem C

1. To find depth of penetration of sun through wall opening. (Generally used to calculate penetration of winter sun).

Known: P - Projection of shading device. Known: H - Height from bottom of eave of shading device to finished floor.

Unknown: X - Depth of sun penetration into room.



Solution: Find factor F from table as in Problem A except select time & months you wish to know depth of sun penetration.

1. Formula for $X = FH - P$ (in feet and fractions of feet.)

SUNSHADE FACTORS

Table with columns for Latitude (26° N. to 34° N.), Time (8 AM to 4 PM), and Orientation (1 to 4). Rows list sunshade factors for various months: DEC. 22, JAN. 20, FEB. 19, MAR. 21, APR. 20, MAY 22, and JUNE 22.

SUNSHADE FACTORS

TIME ORIENTATION	46° N. LATITUDE												44° N. LATITUDE												43° N. LATITUDE												42° N. LATITUDE																																																																										
	8 AM	9	10	12	2 PM	3	4	8 AM	9	10	12	2 PM	3	4	8 AM	9	10	12	2 PM	3	4	8 AM	9	10	12	2 PM	3	4	8 AM	9	10	12	2 PM	3	4	8 AM	9	10	12	2 PM	3	4																																																																					
B9.5	B2.6	B1.3	C2.1	C2.4	C3.0	C7.4	B11.	B2.7	B1.4	C2.2	C2.5	C3.1	C8.3	B12.	B2.8	B1.4	C2.3	C2.7	C3.3	C9.3	B18.	B3.2	B1.6	C2.5	C3.0	C3.7	C14.	B9.5	B2.6	B1.3	C2.1	C2.4	C3.0	C7.4	B11.	B2.7	B1.4	C2.2	C2.5	C3.1	C8.3	B12.	B2.8	B1.4	C2.3	C2.7	C3.3	C9.3	B18.	B3.2	B1.6	C2.5	C3.0	C3.7	C14.	B9.5	B2.6	B1.3	C2.1	C2.4	C3.0	C7.4	B11.	B2.7	B1.4	C2.2	C2.5	C3.1	C8.3	B12.	B2.8	B1.4	C2.3	C2.7	C3.3	C9.3	B18.	B3.2	B1.6	C2.5	C3.0	C3.7	C14.	B9.5	B2.6	B1.3	C2.1	C2.4	C3.0	C7.4	B11.	B2.7	B1.4	C2.2	C2.5	C3.1	C8.3	B12.	B2.8	B1.4	C2.3	C2.7	C3.3	C9.3	B18.	B3.2	B1.6	C2.5	C3.0	C3.7	C14.
C7.4	C3.0	C2.4	D1.3	D1.3	D2.6	D9.5	C8.3	C3.1	C2.5	D1.4	D1.4	D2.7	D11.	C9.3	C3.3	C2.7	D1.4	D1.4	D2.8	D12.	C14.	C3.7	C3.0	D1.6	D3.2	D18.	C7.4	C3.0	C2.4	D1.3	D1.3	D2.6	D9.5	C8.3	C3.1	C2.5	D1.4	D1.4	D2.7	D11.	C9.3	C3.3	C2.7	D1.4	D1.4	D2.8	D12.	C14.	C3.7	C3.0	D1.6	D3.2	D18.	C7.4	C3.0	C2.4	D1.3	D1.3	D2.6	D9.5	C8.3	C3.1	C2.5	D1.4	D1.4	D2.7	D11.	C9.3	C3.3	C2.7	D1.4	D1.4	D2.8	D12.	C14.	C3.7	C3.0	D1.6	D3.2	D18.	C7.4	C3.0	C2.4	D1.3	D1.3	D2.6	D9.5	C8.3	C3.1	C2.5	D1.4	D1.4	D2.7	D11.	C9.3	C3.3	C2.7	D1.4	D1.4	D2.8	D12.	C14.	C3.7	C3.0	D1.6	D3.2	D18.				
B12.	B3.3	B1.9	B.54	C2.7	C3.6	C9.6	B12.	B3.5	B2.0	B.56	C2.8	C3.7	C11.	B14	B3.6	B2.1	B.56	C2.9	C3.9	C12.	B21.	B4.1	B2.3	B.64	C3.3	C4.4	C18.	B12.	B3.3	B1.9	B.54	C2.7	C3.6	C9.6	B12.	B3.5	B2.0	B.56	C2.8	C3.7	C11.	B14	B3.6	B2.1	B.56	C2.9	C3.9	C12.	B21.	B4.1	B2.3	B.64	C3.3	C4.4	C18.	B12.	B3.3	B1.9	B.54	C2.7	C3.6	C9.6	B12.	B3.5	B2.0	B.56	C2.8	C3.7	C11.	B14	B3.6	B2.1	B.56	C2.9	C3.9	C12.	B21.	B4.1	B2.3	B.64	C3.3	C4.4	C18.	B12.	B3.3	B1.9	B.54	C2.7	C3.6	C9.6	B12.	B3.5	B2.0	B.56	C2.8	C3.7	C11.	B14	B3.6	B2.1	B.56	C2.9	C3.9	C12.	B21.	B4.1	B2.3	B.64	C3.3	C4.4	C18.
C4.7	C2.2	C2.0	C2.0	D.64	D1.8	D7.3	C5.2	C2.3	C2.1	D.65	D1.8	D8.1	C5.9	C4.4	B2.4	C2.2	D.68	D1.9	D9.1	C8.9	C2.8	C2.8	C2.4	D.76	D2.1	D14.	C4.7	C2.2	C2.0	C2.0	D.64	D1.8	D7.3	C5.2	C2.3	C2.1	D.65	D1.8	D8.1	C5.9	C4.4	B2.4	C2.2	D.68	D1.9	D9.1	C8.9	C2.8	C2.8	C2.4	D.76	D2.1	D14.	C4.7	C2.2	C2.0	C2.0	D.64	D1.8	D7.3	C5.2	C2.3	C2.1	D.65	D1.8	D8.1	C5.9	C4.4	B2.4	C2.2	D.68	D1.9	D9.1	C8.9	C2.8	C2.8	C2.4	D.76	D2.1	D14.	C4.7	C2.2	C2.0	C2.0	D.64	D1.8	D7.3	C5.2	C2.3	C2.1	D.65	D1.8	D8.1	C5.9	C4.4	B2.4	C2.2	D.68	D1.9	D9.1	C8.9	C2.8	C2.8	C2.4	D.76	D2.1	D14.				
B17.	B8.8	B2.3	B1.0	B.06	C3.9	C11.	B13.	B3.9	B2.4	B1.1	B.07	C4.1	C13	B15.	B4.1	B2.6	B1.1	B.08	C4.3	C14.	B23.	B4.7	B2.9	B1.2	B.11	C4.9	C21.	B17.	B8.8	B2.3	B1.0	B.06	C3.9	C11.	B13.	B3.9	B2.4	B1.1	B.07	C4.1	C13	B15.	B4.1	B2.6	B1.1	B.08	C4.3	C14.	B23.	B4.7	B2.9	B1.2	B.11	C4.9	C21.	B17.	B8.8	B2.3	B1.0	B.06	C3.9	C11.	B13.	B3.9	B2.4	B1.1	B.07	C4.1	C13	B15.	B4.1	B2.6	B1.1	B.08	C4.3	C14.	B23.	B4.7	B2.9	B1.2	B.11	C4.9	C21.	B17.	B8.8	B2.3	B1.0	B.06	C3.9	C11.	B13.	B3.9	B2.4	B1.1	B.07	C4.1	C13	B15.	B4.1	B2.6	B1.1	B.08	C4.3	C14.	B23.	B4.7	B2.9	B1.2	B.11	C4.9	C21.
C1.6	C1.3	C1.4	C1.6	C2.7	D.77	D4.6	C1.8	C1.4	C1.5	C1.9	C2.9	D.85	D5.1	C2.1	C1.4	C1.6	C2.0	C3.0	D.90	D5.7	C3.2	C1.6	C1.8	C2.2	C3.4	D.91	D8.5	C1.6	C1.3	C1.4	C1.6	C2.7	D.77	D4.6	C1.8	C1.4	C1.5	C1.9	C2.9	D.85	D5.1	C2.1	C1.4	C1.6	C2.0	C3.0	D.90	D5.7	C3.2	C1.6	C1.8	C2.2	C3.4	D.91	D8.5	C1.6	C1.3	C1.4	C1.6	C2.7	D.77	D4.6	C1.8	C1.4	C1.5	C1.9	C2.9	D.85	D5.1	C2.1	C1.4	C1.6	C2.0	C3.0	D.90	D5.7	C3.2	C1.6	C1.8	C2.2	C3.4	D.91	D8.5	C1.6	C1.3	C1.4	C1.6	C2.7	D.77	D4.6	C1.8	C1.4	C1.5	C1.9	C2.9	D.85	D5.1	C2.1	C1.4	C1.6	C2.0	C3.0	D.90	D5.7	C3.2	C1.6	C1.8	C2.2	C3.4	D.91	D8.5
A1.5	B4.0	B2.6	B1.5	B.77	B.26	C12.	A1.7	B4.2	B2.7	B1.5	B.81	B.28	C15	A1.9	B4.3	B2.9	B1.6	B.86	B.30	C15	A2.7	B4.9	B3.2	B1.8	B.98	B.37	C23.	A1.5	B4.0	B2.6	B1.5	B.77	B.26	C12.	A1.7	B4.2	B2.7	B1.5	B.81	B.28	C15	A1.9	B4.3	B2.9	B1.6	B.86	B.30	C15	A2.7	B4.9	B3.2	B1.8	B.98	B.37	C23.	A1.5	B4.0	B2.6	B1.5	B.77	B.26	C12.	A1.7	B4.2	B2.7	B1.5	B.81	B.28	C15	A1.9	B4.3	B2.9	B1.6	B.86	B.30	C15	A2.7	B4.9	B3.2	B1.8	B.98	B.37	C23.	A1.5	B4.0	B2.6	B1.5	B.77	B.26	C12.	A1.7	B4.2	B2.7	B1.5	B.81	B.28	C15	A1.9	B4.3	B2.9	B1.6	B.86	B.30	C15	A2.7	B4.9	B3.2	B1.8	B.98	B.37	C23.
B12.	C.28	C.77	C1.5	C2.6	C4.0	D1.5	B13.	C.28	C.81	C1.5	C2.7	C4.2	D1.7	B15	C.30	C.86	C1.6	C2.9	C4.3	D1.9	B23.	C.37	C.98	C1.8	C3.2	C4.9	D2.7	B12.	C.28	C.77	C1.5	C2.6	C4.0	D1.5	B13.	C.28	C.81	C1.5	C2.7	C4.2	D1.7	B15	C.30	C.86	C1.6	C2.9	C4.3	D1.9	B23.	C.37	C.98	C1.8	C3.2	C4.9	D2.7	B12.	C.28	C.77	C1.5	C2.6	C4.0	D1.5	B13.	C.28	C.81	C1.5	C2.7	C4.2	D1.7	B15	C.30	C.86	C1.6	C2.9	C4.3	D1.9	B23.	C.37	C.98	C1.8	C3.2	C4.9	D2.7	B12.	C.28	C.77	C1.5	C2.6	C4.0	D1.5	B13.	C.28	C.81	C1.5	C2.7	C4.2	D1.7	B15	C.30	C.86	C1.6	C2.9	C4.3	D1.9	B23.	C.37	C.98	C1.8	C3.2	C4.9	D2.7
B9.5	B2.4	B1.2	C1.9	C2.1	C2.6	C.6	B8.4	B2.6	B1.3	C1.9	C2.3	C2.8	C6.7	B10.	B2.7	B1.4	C.2	C2.4	C3.0	C7.4	B12.	B2.9	B1.5	C2.2	C2.6	C3.2	C8.8	B9.5	B2.4	B1.2	C1.9	C2.1	C2.6	C.6	B8.4	B2.6	B1.3	C1.9	C2.3	C2.8	C6.7	B10.	B2.7	B1.4	C.2	C2.4	C3.0	C7.4	B12.	B2.9	B1.5	C2.2	C2.6	C3.2	C8.8	B9.5	B2.4	B1.2	C1.9	C2.1	C2.6	C.6	B8.4	B2.6	B1.3	C1.9	C2.3	C2.8	C6.7	B10.	B2.7	B1.4	C.2	C2.4	C3.0	C7.4	B12.	B2.9	B1.5	C2.2	C2.6	C3.2	C8.8	B9.5	B2.4	B1.2	C1.9	C2.1	C2.6	C.6	B8.4	B2.6	B1.3	C1.9	C2.3	C2.8	C6.7	B10.	B2.7	B1.4	C.2	C2.4	C3.0	C7.4	B12.	B2.9	B1.5	C2.2	C2.6	C3.2	C8.8
C.6	C2.6	C2.1	D1.2	D2.4	D8.5	C6.7	C2.8	C2.3	D1.3	D2.6	D9.4	C7.4	C3.	C2.4	D1.4	D2.7	D10.	C8.8	C3.2	C2.9	D1.5	D2.9	D12.	C.6	C2.6	C2.1	D1.2	D2.4	D8.5	C6.7	C2.8	C2.3	D1.3	D2.6	D9.4	C7.4	C3.	C2.4	D1.4	D2.7	D10.	C8.8	C3.2	C2.9	D1.5	D2.9	D12.	C.6	C2.6	C2.1	D1.2	D2.4	D8.5	C6.7	C2.8	C2.3	D1.3	D2.6	D9.4	C7.4	C3.	C2.4	D1.4	D2.7	D10.	C8.8	C3.2	C2.9	D1.5	D2.9	D12.	C.6	C2.6	C2.1	D1.2	D2.4	D8.5	C6.7	C2.8	C2.3	D1.3	D2.6	D9.4	C7.4	C3.	C2.4	D1.4	D2.7	D10.	C8.8	C3.2	C2.9	D1.5	D2.9	D12.																
B9.8	B3.0	B1.8	B.48	C2.4	C3.1	C.8	B11.	B3.3	B1.8	B.5	C2.5	C3.4	C8.9	B12.	B3.4	B1.9	B.52	C2.6	C3.6	C9.8	B14.	B3.6	B2.1	B.56	C2.9	C3.6	C12.	B9.8	B3.0	B1.8	B.48	C2.4	C3.1	C.8	B11.	B3.3	B1.8	B.5	C2.5	C3.4	C8.9	B12.	B3.4	B1.9	B.52	C2.6	C3.6	C9.8	B14.	B3.6	B2.1	B.56	C2.9	C3.6	C12.	B9.8	B3.0	B1.8	B.48	C2.4	C3.1	C.8	B11.	B3.3	B1.8	B.5	C2.5	C3.4	C8.9	B12.	B3.4	B1.9	B.52	C2.6	C3.6	C9.8	B14.	B3.6	B2.1	B.56	C2.9	C3.6	C12.	B9.8	B3.0	B1.8	B.48	C2.4	C3.1	C.8	B11.	B3.3	B1.8	B.5	C2.5	C3.4	C8.9	B12.	B3.4	B1.9	B.52	C2.6	C3.6	C9.8	B14.	B3.6	B2.1	B.56	C2.9	C3.6	C12.
C3.6	C1.9	C1.8	C1.8	D.64	D1.7	D6.6	C4.0	C2.1	C1.8	C1.9	D.66	D1.8	D7.3	C4.5	C2.2	C1.9	C2.1	D.69	D1.9	D8.0	C5.4	C2.3	C2.1	D.72	D2.0	D9.6	C3.6	C1.9	C1.8	C1.8	D.64	D1.7	D6.6	C4.0	C2.1	C1.8	C1.9	D.66	D1.8	D7.3	C4.5	C2.2	C1.9	C2.1	D.69	D1.9	D8.0	C5.4	C2.3	C2.1	D.72	D2.0	D9.6	C3.6	C1.9	C1.8	C1.8	D.64	D1.7	D6.6	C4.0	C2.1	C1.8	C1.9	D.66	D1.8	D7.3	C4.5	C2.2	C1.9	C2.1	D.69	D1.9	D8.0	C5.4	C2.3	C2.1	D.72	D2.0	D9.6	C3.6	C1.9	C1.8	C1.8	D.64	D1.7	D6.6	C4.0	C2.1	C1.8	C1.9	D.66	D1.8	D7.3	C4.5	C2.2	C1.9	C2.1	D.69	D1.9	D8.0	C5.4	C2.3	C2.1	D.72	D2.0	D9.6				
B10.	B5.4	B2.1	B.93	C2.5	C3.5	C9.5	B11.	B3.7	B2.3	B.97	B.0	C3.8	C11.	B13.	B3.8	B2.4	B1.0	B.01	C3.9	C12.	B15.	B4.1	B2.5	B1.1	B.03	C4.2	C14.	B10.	B5.4	B2.1	B.93	C2.5	C3.5	C9.5	B11.	B3.7	B2.3	B.97	B.0	C3.8	C11.	B13.	B3.8	B2.4	B1.0	B.01	C3.9	C12.	B15.	B4.1	B2.5	B1.1	B.03	C4.2	C14.	B10.	B5.4	B2.1	B.93	C2.5	C3.5	C9.5	B11.	B3.7	B2.3	B.97	B.0	C3.8	C11.	B13.	B3.8	B2.4	B1.0	B.01	C3.9	C12.	B15.	B4.1	B2.5	B1.1	B.03	C4.2	C14.	B10.	B5.4	B2.1	B.93	C2.5	C3.5	C9.5	B11.	B3.7	B2.3	B.97	B.0	C3.8	C11.	B13.	B3.8	B2.4	B1.0	B.01	C3.9	C12.	B15.	B4.1	B2.5	B1.1	B.03	C4.2	C14.
C.97	C1.0	C1.2	C1.6	D.79	D4.3	C1.1	C1.1	C1.3	C1.7	C2.6	D.85	D4.8	C1.2	C1.2	C1.4	C1.8	C2.7	D.87	D5.2	C1.5	C1.5	C1.3	C1.5	C1.9	C2.9	D.93	D6.2	C.97	C1.0	C1.2	C1.6	D.79	D4.3	C1.1	C1.1	C1.3	C1.7	C2.6	D.85	D4.8	C1.2	C1.2	C1.4	C1.8	C2.7	D.87	D5.2	C1.5	C1.5	C1.3	C1.5	C1.9	C2.9	D.93	D6.																																																								

NEW PRODUCTS



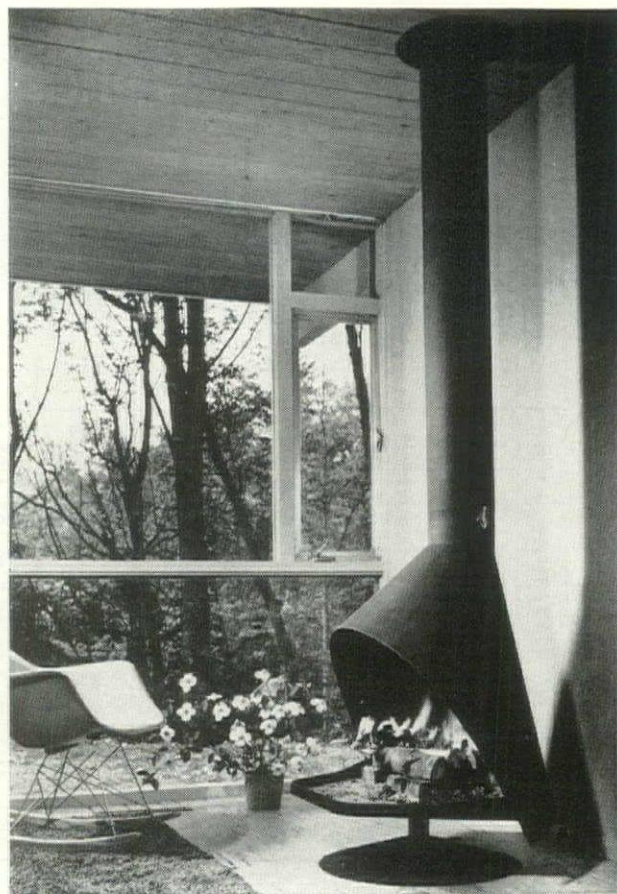
PREFAB FIREPLACES can be used anywhere in the house; help turn houses into homes

Cosmopolitan offshoots of the old Franklin stove, potbelly and *kachelofen*, these factory-bred fireplaces have lost none of their forebears' coziness. Indeed, while reduced to svelte fundamentals of form, they have gained effectiveness through careful engineering of their simple packaging. Besides—and this is a point for the small-house builder—they sit well in a limited living area; perhaps better than more massive masonry counterparts.

The fireplace (top, right) designed by Wendell Lovett, encloses its fire safely with a cone-shaped steel hood. Excellent as a smoke gatherer, the 3'-wide curved hood radiates a good portion of the heat to all parts of the room. It also permits a wide-angle view of the fire-on-the-cast-iron-hearth. Price, with stand and ceiling-high smokepipe, is \$147 retail. Standard finish is black enamel but copper and earthy red porcelain enamel models are available on special order. All accessories—screen (\$9.75), grate (\$7.95 to \$12), even 3' connections for flat or pitched roofs—may be ordered from the manufacturer.

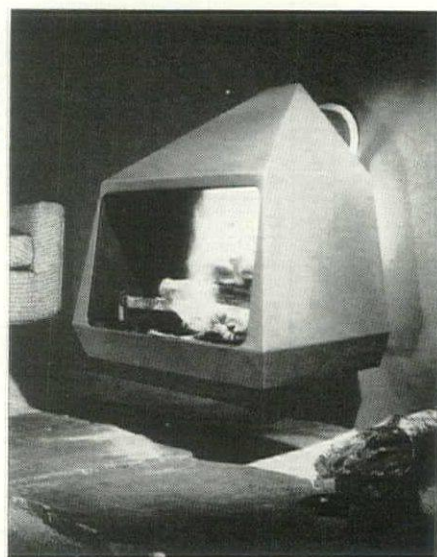
The nice *Manchester-Pierce* firebox above sells for \$175 F.O.B. Seattle. Constructed of 10-gauge steel, it has a 3"-deep continuous hollow core between inside and outside walls. Air is drawn up from the cold floor through bottom vents, warmed, and discharged from vents at top rear. Brushers-by stand little danger of flash burns; surface temperature on the *M-P* is just warm enough to take the chill off. Gordon Waldron, its New York distributor, says of the firebox: "It is built like a tank with a *gemütlich* air." The sculptural *Acorn* fireplace (above right) hit the field a few

continued on p. 170

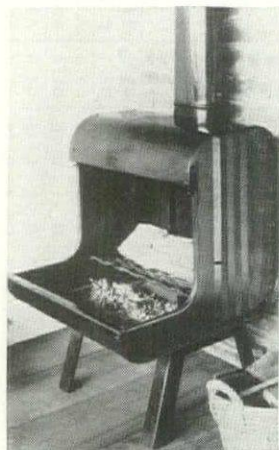


Direct and distinctive, the conical Firehood radiates warmth

Air circulated through chamber between inner and outer walls of the Manchester-Pierce helps to heat room and prevent flash skin burns.



Bright porcelain enamel fused on the Acorn's surface helps radiate heat throughout the room—as do the neat fireplace's many facets.



Effective log-burning shells, the five Kosmaks (three are shown above) are suitable for installation in many kinds of rooms. Like the others on this page, they can use stovepipes for flues.



FOLLOW-THROUGH

that's good for you!

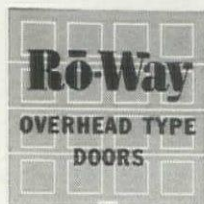
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Your RO-WAY Distributor has the finest overhead type doors for all your jobs—residential, commercial and industrial. He's proud to bring you such outstanding RO-WAY features as: Taper-Tite tracks and Seal-A-Matic hinges; Double-Thick tread rollers; famous Power-Metered springs; the better designing, engineering and construction that give RO-WAY doors their exceptional long life of easy-up, easy-down operation.

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Call it "follow-through" or "thoroughness" or "pride in a job well done." It's all these things and it's mighty important to you. It means you can save time by depending on your RO-WAY Distributor to help select the proper size and type of RO-WAY door for the appearance and service requirements of each installation. It means you always know your RO-WAY Distributor shares your own interest in seeing that every job is done *right!*

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Andersen Gliding Window Units in a home by Norman Johnson, architect

Let in winter sunshine *shut out winter winds*

You can make certain windows will pass winter's rugged test by installing Andersen WINDOWALLS. Here Andersen Gliding Windows admit a pleasant view and winter sunshine. Yet they form a weathertight wall, a shield against winter's chilling blasts. Like all Andersen Units, they're both windows and walls. They're Andersen WINDOWALLS . . . famous for weather-tight construction . . . made of beautiful, insulating wood.

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Just as *color sells* home furnishings, *color can sell houses*. The largest, most integrating influence in the home field, House & Garden Colors can be a *powerful selling force in the building field*. Blazing a bright trail, H&G in cooperation with the National Association of Home Builders launches a cross-country Color Awards Competition based on the use of H&G Colors in the exterior of houses built by N.A.H.B. builder-members.

Entry Rules:

- All N.A.H.B. builder-members are eligible. Entry blanks (available through H&G and N.A.H.B. headquarters*) must be filed prior to March 1, 1954.
- Houses entered in the Competition must have been built for sale during the first eleven months of 1954.
- All colors used must match the House & Garden Color Palette. H&G will supply entrants with one complete set of H&G Color Chips, plus a Color Awards Kit with detailed information.
- Winners will be judged by a board of House & Garden editors and will be announced in the February 1955 issue of the magazine, available to the public during the N.A.H.B. January meeting in Chicago.
- 10 Awards. Each winner will receive a handsome framed scroll. It will be signed by the Editor-in-Chief of House & Garden stating that "John Doe" has been awarded this honor for the most distinguished use of H&G Colors in the exterior of homes built by N.A.H.B. members in "X" area.

What are House & Garden Colors?

In 1946, House & Garden launched the first Color Palette in the home furnishings field. It consists of Current Colors that reflect consumer demands, determined by a cross-country survey; and Decorator Colors, high fashion colors chosen by H&G editors after consultation with leading decorators and stylists. Each year, H&G Colors form the base of store-wide color promotions from coast-to-coast. Each year, more manufacturers match merchandise with H&G Colors; each year, more retailers promote and sell H&G Colors in all types of home furnishings. Result: each year, House & Garden Colors sell million of dollars worth of merchandise!

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House & Garden
420 Lexington Avenue, N. Y. 17
Please rush entry forms for official
Color Awards Kit for
H&G's Color Awards Competition.

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Firm _____
City _____
State _____ Zone _____

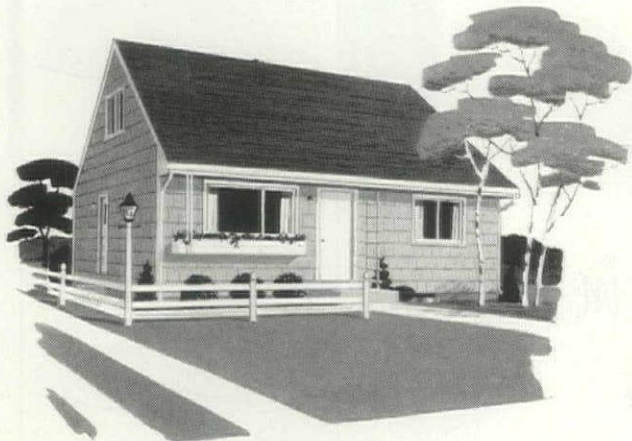
*A supply of entry blanks will be available at:

- National Association of Home Builders, 1028 Connecticut Ave., Washington 6, D. C.
- Home Building Show: House & Garden Headquarters, Blackstone Hotel, Chicago
- Construction Dept. Headquarters, N.A.H.B. Chicago Convention
- House & Garden Color Show: Space 1146, Merchandise Mart, Chicago

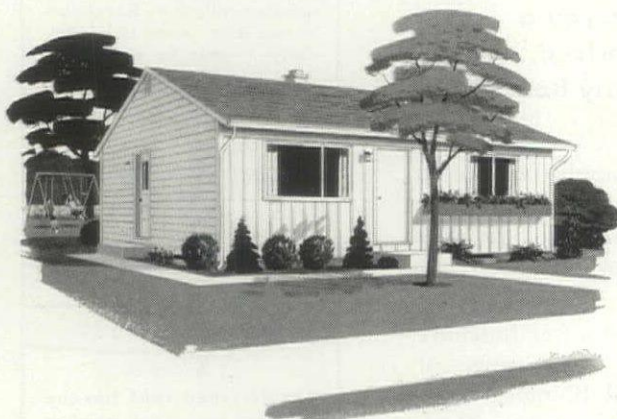


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THESE Johns-Manville Asbestos Shingles have the same rich graining as weathered wood shingles, cast the same interesting shadow line. You have a choice of beautiful colors and blends.

Made of asbestos and cement they are as permanent as stone. They give lasting protection against fire, and weather.

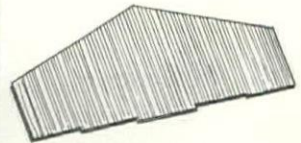
In most areas the applied cost of an American Colonial roof is lower than any other *permanent type* roof the homeowner can buy.

For full details and a free brochure showing the full color range of American Colonial Shingles write Johns-Manville, Box 60, New York 16, New York.

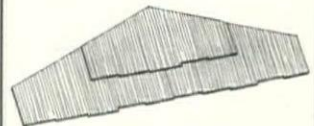


Johns-Manville

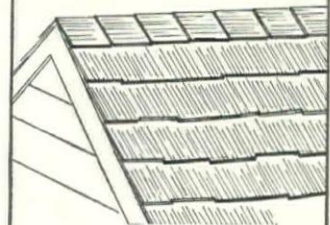
EASY TO APPLY



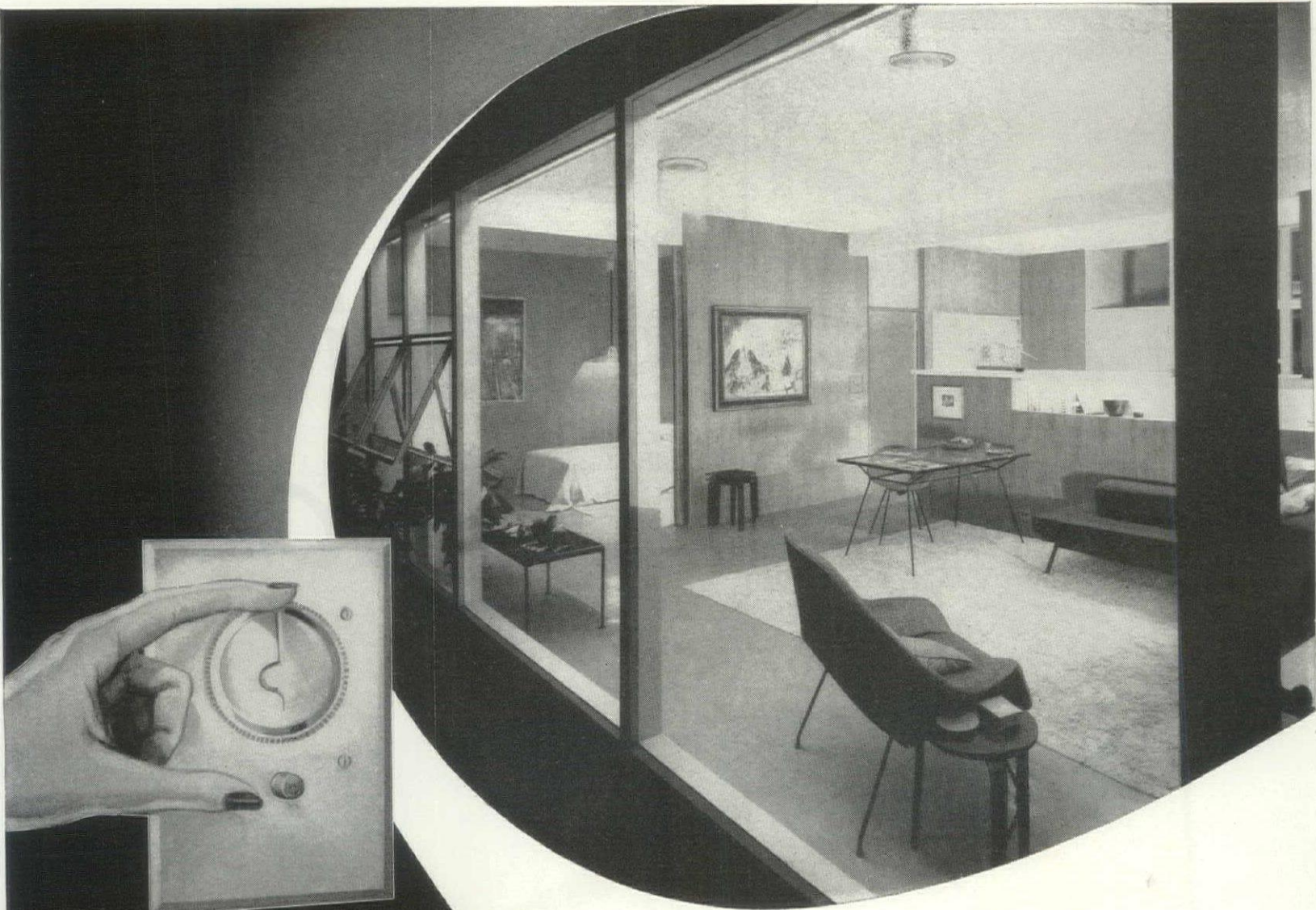
Each shingle is designed as a rigid asbestos-cement strip—covers as much area as ordinary strip shingles



The shingles are self-aligning on the roof. This saves time—speeds application. Large size means fewer pieces to handle. Only 4 nails to each unit. Nail holes are pre-punched



The finished roof has the pleasing horizontal shadow lines and deep-grained texture desired by so many homeowners. Matching shingles furnished for hips and ridges



plan for

with the

powerstat Wallbox Dimmer

- Any amount of light from darkness to full brightness
- Installed as easily as the ordinary wallswitch
- Economical, cool, silent operation
- Approved by the Underwriters' Laboratories

THE SUPERIOR ELECTRIC CO.
BRISTOL, CONNECTICUT



Controlled Light

The modern era of home lighting is at your fingertips. Gone is the "on-off" lighting of the ordinary wall-switch. A new concept in light control, the **powerstat** Wallbox Dimmer, replaces the wallswitch to permit the control of light from complete darkness to full brightness. Simply turning a knob brightens or softens light silently and smoothly — selects the amount of light just right for any occasion or activity — for the reflection of every mood — the ideal brightness for every seeing task.

Here is home lighting for better living — CONTROLLED LIGHT.

Complete information about Controlled Light is available in Bulletin D653WBT. And for your customers, a simple, non-technical Bulletin D253WBC.

Write to:

THE SUPERIOR ELECTRIC CO.
14123 Demers Avenue, Bristol, Conn.

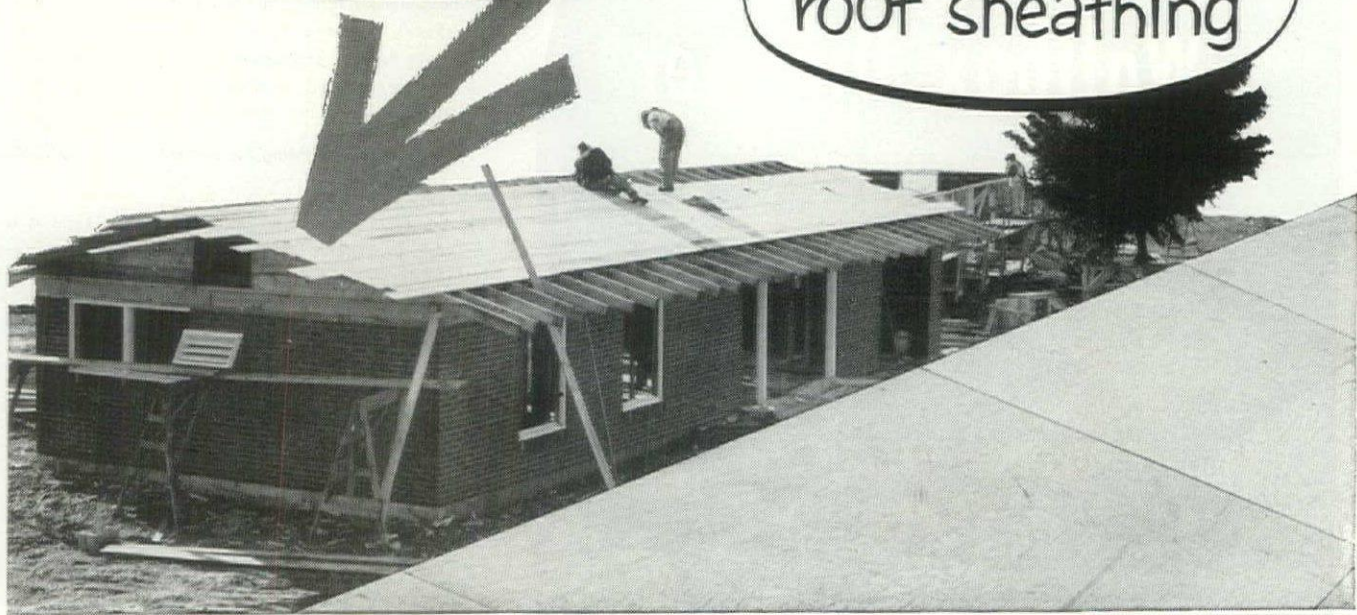
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POSITION _____
COMPANY _____
CO. ADDRESS _____
CITY _____ ZONE _____ STATE _____



Figure it BOTH ways

1. cost-in-place
of lumber
roof sheathing

2. cost-in-place
of PlyScord
roof sheathing



HERE'S paper and pencil proof to show your customers how they can get all the extra advantages of PlyScord roof sheathing—and cut costs, too. Remember, it's the *applied cost* that counts. That's why builders can save up to \$2.50—and more—per square with PlyScord. Figure it *both* ways on the chart below.

* **Figure your profits both ways, too. Good reason why it pays to push PlyScord.**

Estimating Chart to Cover 1,000 Sq. Ft. of Roof Area

Data Developed from Walker's "The Building Estimators' Reference Book"

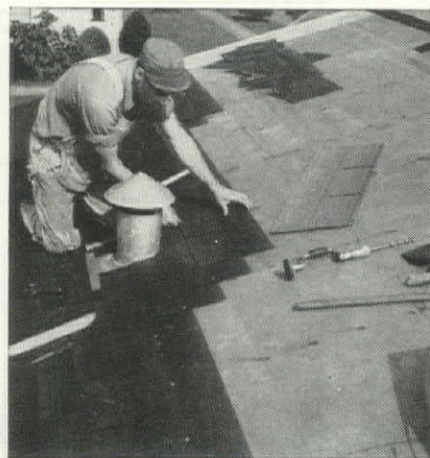
PLYSCORD	RATE	TOTAL	LUMBER	RATE	TOTAL
1,056 sq. ft. 3/8" or 5/16"			1,200 ft. b.m. 1x8 shiplap		
Nails 6d-12 lbs.			Nails 8d-20 lbs.		
Carpenter 6 Hours			Carpenter 11 Hours		
Helper 3 Hours			Helper 5 Hours		
TOTAL COST IN PLACE.....			TOTAL COST IN PLACE.....		



In test above 3/8" PlyScord on 24" span easily withstands 500 lb. concentrated load. Plywood's great two-way strength means economy because relatively thin panels can be used—3/8" PlyScord on rafters 24" o.c. easily withstands uniform load of 30 lbs. p.s.f., 5/16" on 16" span takes uniform load of 40 lbs. p.s.f. Both constructions now FHA accepted.



PlyScord holds nails well. Tests on roofs exposed 2 years show minimum force of 85 lbs. required to pull cedar shingle from 5/16" PlyScord. In case of asphalt shingles, roofing is invariably torn from PlyScord without loosening nails. Other tests and actual experience shows 5/16" PlyScord holds nails as well or better than 1" soft pine boards.



Roofing materials go down faster over solid PlyScord sheathing. Factory seasoning assures dimensional stability. PlyScord won't shrink or swell like boards to damage roofing. Roofing lays flat, stays flat. PlyScord roof sheathing adds strength and rigidity, acts as a structural diaphragm in resisting loads caused by high winds, earthquakes.

PLYSCORD®

GRADE FIR PLYWOOD

ALWAYS SPECIFY DFPA-INSPECTED FIR PLYWOOD

This registered trademark identifies PlyScord—the economical construction grade of Interior fir plywood bonded with highly moisture resistant glue. This stamp on panel is your assurance of tested quality.





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and lower costs with factory-assembled*

INLAND HOMES

*... designed and engineered to meet the
high standards of the conventional builder.*

Common sense engineering, clean cut design, efficient floor plans, new and unique mass production techniques using tried and tested materials make **Inland** the outstanding value leader in the low cost home field.

DON'T GUESS... INVESTIGATE

whether you build 5 or 500

**You are
Cordially Invited**

... to visit our factory and see for yourself how top quality materials are combined with skill and efficiency in the production of **Inland Homes**.

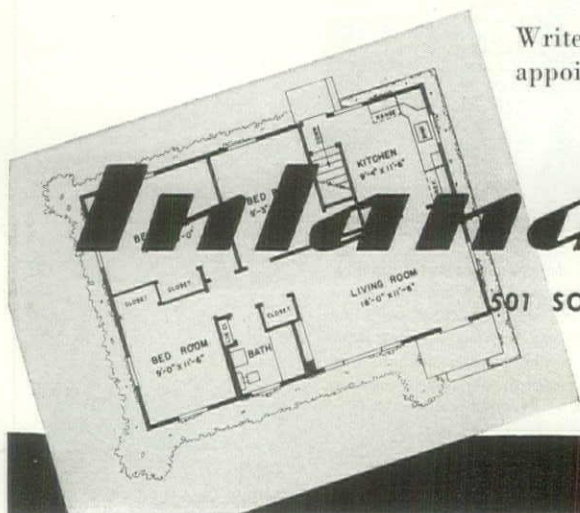
Write, wire or call Mr. Schneider for appointment.

PHONE 3880

Inland Homes
CORPORATION

501 SO. COLLEGE ST. PIQUA, OHIO

P.O. BOX 60



REVIEWS

HOUSE & GARDEN'S COMPLETE GUIDE TO INTERIOR DECORATION. Fifth edition. By the Editors of House & Garden. Simon & Schuster, 630 Fifth Ave., New York 20, N.Y. 319 pp. 9 1/2" x 13". Illus. \$10

This is a whopping \$10 worth of color photographs (159) and black-and-whites beautifully engraved and reproduced on slick, quality paper. It is at its best when the rooms it presents are frankly sumptuous period pieces in Winterthur, Williamsburg and their descendants. The subtleties of true contemporary design seem to leave the editors a little embarrassed. They choose either examples whose decoration is obscured by sensational color or rooms which have been "sweetened" with traditional accents.

But in other respects the charm of the *Complete Guide* is undeniable. An effort to introduce some practicality dictated the inclusion of 20 "how to" pages. These need not be taken too seriously as the beauty of the book is that most readers will find it an Arabian Nights adventure into worlds which are largely unobtainable but a real pleasure to contemplate.

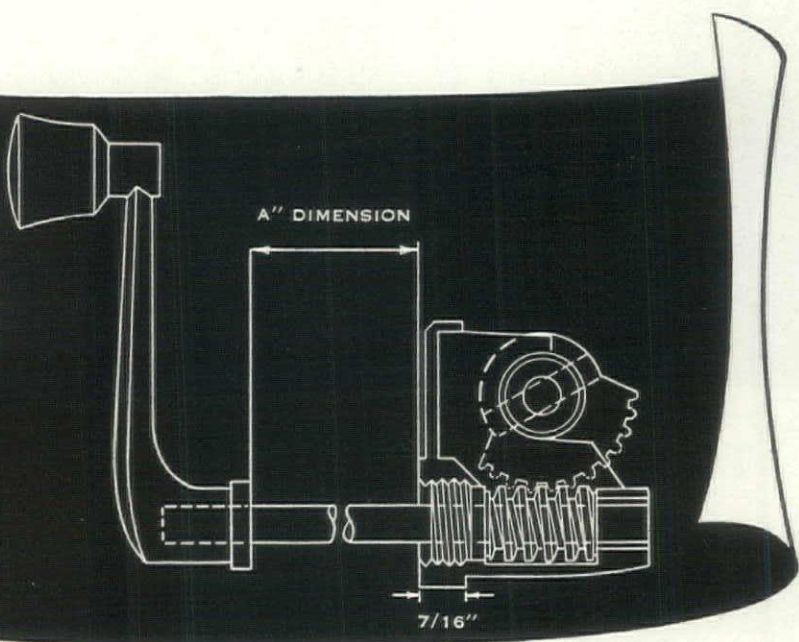
ARCHITECTURAL PHOTOGRAPHY OF HOUSES. By Robert C. Cleveland. Architectural Record (F. W. Dodge Corp.), 119 W. 40 St., New York 18, N.Y. 168 pp. 9" x 12". Illus. \$7.50

This is the first "how to" book to appear on the specialized art of house portraiture. Robert Cleveland, widely published West Coast architectural photographer, exhibits a portfolio of some 325 of his best pictures. Many of them (largely of interiors) are graphically paired as "right" and "wrong" or "fair" and "better" ways to take pictures of the same subject (vertical vs. horizontal; difference of camera placement, angle and height; natural and artificial lighting; etc.). Good points are made about capturing the purpose and personality of a subject, keeping the camera below eye level, use of foreground interest, use of planting for depth, appeal and "framing" of the picture, lighting for contrast and brilliance.

Although most of the picture lessons are based on use of the "view camera" (ground glass, bellows and lens that can be swung or tilted) there is a section on using the common 4 x 5 Speed Graphic to the limit of its capabilities.

Pictures are not accompanied by technical data on speeds, lens openings and film used, and there could be more detailed information on developing, dodging, cropping and other darkroom techniques. But as a primer for architects and builders who want to record their work with something more than snapshots, the book is attractive and informative. And purely as a picture book of houses, it is bound to offer plenty of ideas for design and decoration.

NO OTHER AWNING WINDOW
has this exclusive
Strip-proof
OPERATOR



UALCO'S HEAVY-DUTY BUILT-IN CAM LOCK

**Automatically Locks All Vents In
Any Position**

ALUMINUM AWNING WINDOWS



The heavy-duty built-in cam lock, attached to the torsion bar, is another functional achievement of Ualco advance engineering.

Assuring maximum operating efficiency and durability, it is "strip-proof" . . . maintenance-free. Eliminating the need of a separate locking handle, it further reduces operating parts.

The torsion bar, encased in four pillow block oilite bearings in the sill, requires only "finger-tip" operation to unlock, open and lock all vents in the desired position . . . to close and lock.

Such structural features continuously help to make Ualco Awning Windows the outstanding choice of building-wise planners, constructors, owners everywhere.

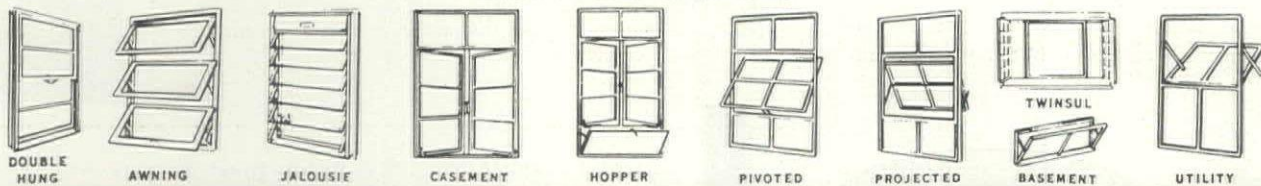
ALUMINUM WINDOWS . . . The Difference Between Dollars Wasted And Dollars Saved

- NEVER ROT • NEVER RUST • NEVER NEED PAINTING • NO UPKEEP EXPENSE OF ANY KIND

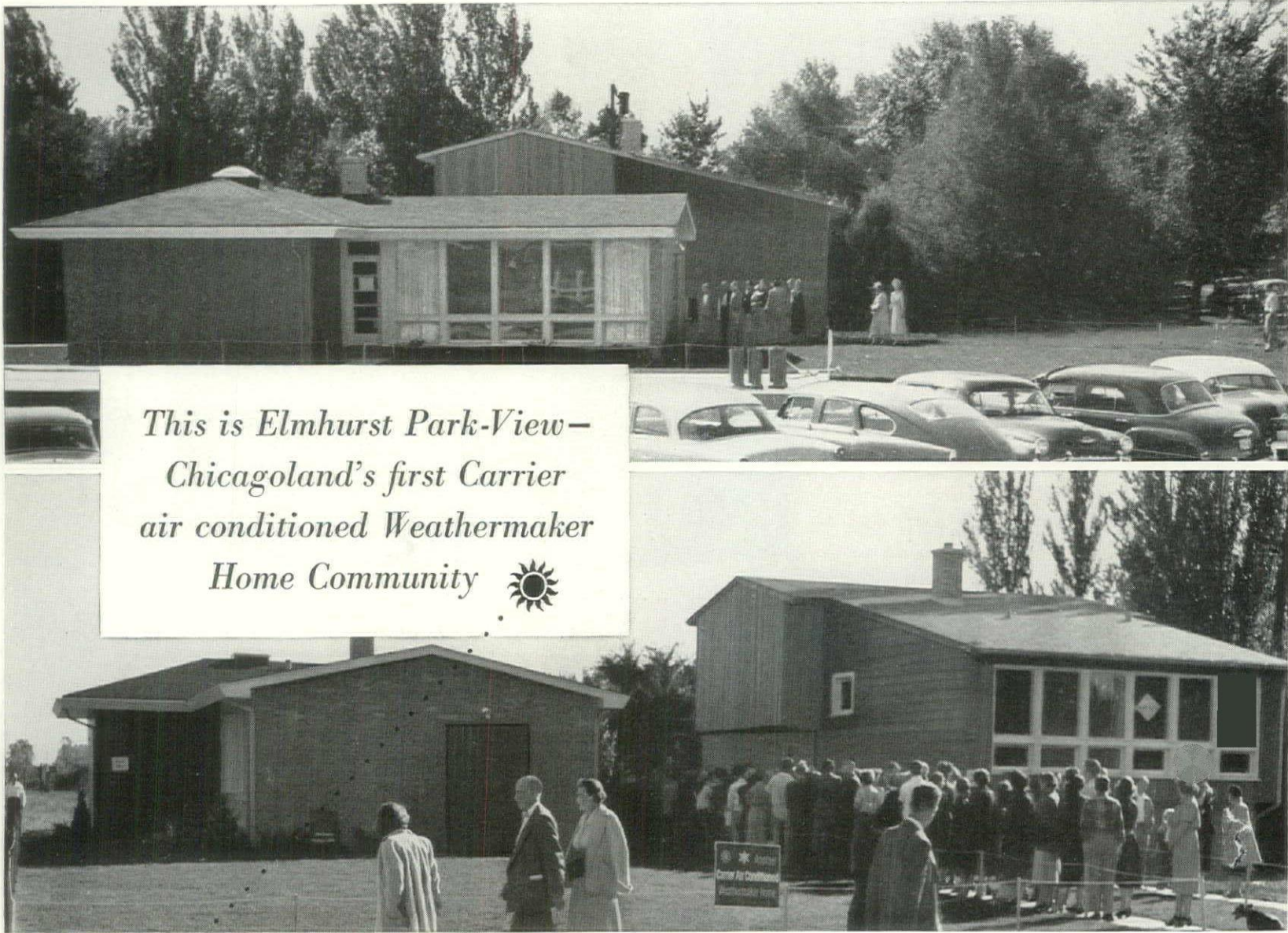
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Specifically designed to assist Architects, Engineers and Contractors in making "take-offs" and solving their window problems.

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SHEFFIELD, ALABAMA



WORLD'S LARGEST MANUFACTURER OF ALUMINUM WINDOWS



*This is Elmhurst Park-View—
Chicagoland's first Carrier
air conditioned Weathermaker
Home Community* ☀

16☀ SOLD IN 3 WEEKS!

Elmhurst Park-View, a 96-home Surety Builders development, was designed for families with better than average incomes. Buyers have a choice of contemporary style homes, a choice of floor plans with 2, 3 and 4 bedrooms. Prices start at \$18,900.

But, while a nearby *non-air conditioned* development has been selling at a rate of one house a month, these homes have been selling at a rate of almost one a day!

Credit the Carrier air conditioning? Of course, but credit too the knowledgeable design of Monroe Bowman, A.I.A., which took advantage of many Weathermaker Home ideas.

For instance, Elmhurst Park-View makes good use of windowless walls to provide privacy—and

36 linear feet of wall closets! And you can see the attractive, yet inexpensive, window walls.

The fact is: More new homes are air conditioned by Carrier Weathermakers than by any other air conditioner. Carrier air conditioning sells houses! So, if *you* want to sell houses, remember that Carrier has the product, the experience, and the promotional push to do a job for you.

Start now! Mail the coupon today. Learn how other builders have used Carrier air conditioning to sell their houses.

"We picked Carrier because Carrier is Mr. Air Conditioning!" →

Jack and Albert Kaufman, left to right, vice-president and president of Surety Builders, know the value of a good name, feature Carrier in their advertising.



first name in air conditioning

CARRIER CORPORATION, 313 S. Geddes Street, Syracuse, New York

I want to sell houses. Tell me how you can help.

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A baby's touch tells why home air conditioning costs less with Ponderosa Pine windows

Yes, even a baby can tell the difference between wood windows and other types! For wood windows are warm and friendly to the touch—do not readily transmit heat or cold. And that's mighty important in keeping the home owner's air conditioning costs down!

Superior weather-tightness is a major advantage of modern Ponderosa Pine window units. Precision manufacture and pre-fitting reduce wind infiltration and heat leakage to a minimum. Wood windows, too, can be *effectively* weather-stripped. The result: more cooling and heating dollars saved.

Water-repellent preservative treatment at the factory enhances the long life of Ponderosa Pine windows. And because smooth-grain Ponderosa Pine provides such an excellent bond for paint, there is less flaking or peeling and, of course, no rust or corrosion.

Ponderosa Pine WOODWORK

You'll Want This Window Idea Book—full of new and interesting ways to use the many beautiful types of Ponderosa Pine windows. Mail the coupon for your copy of "The New Outlook." It's free.



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 Please send me a free copy of "The New Outlook."

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Business or Profession

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City Zone State

**FIRST
WITH
BUILDERS**



Nothing is more precious to a quality builder than his reputation. Community respect is earned by good workmanship and quality materials—products like R.O.W.'s Removable Wood Windows. R.O.W.'s have the charm of carefully milled wood, plus the lift-out feature and pressure-fit construction.

See your local lumber dealer or write

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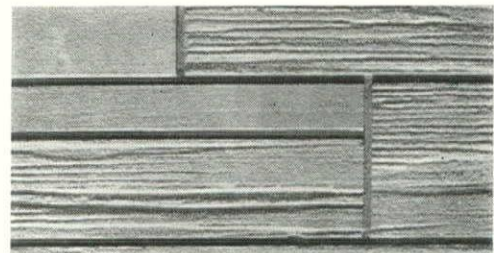
TECHNICAL PUBLICATIONS



Although fossils are interspersed throughout elegant Cordova shell limestone, the Texas-quarried product is remarkably uniform in strength and in texture.

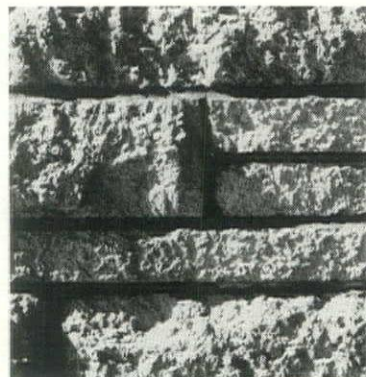
STONE. A Catalogue of Building Stones. Compiled by the International Cut Stone Contractors' and Quarrymen's Assn., 5351 Winthrop Ave., Indianapolis, Ind. 48 pp. 8½" x 11". Color illus.

In addition to maintaining standards within the stone industry, the association offering this booklet works to promote use of natural stone in construction through education of the professional public—builders, architects and contractors. This kind of publication makes a good case for the association's cause. For the first time it catalogues in a single reference book all the varieties of building stone available in the US and Canada. Checked with the geological and technical committees of the AIA as well as with all members of the association, the data presented is comprehensive and noncommercial. Furthermore this type of roundup is the most sensible kind of antidote to the somewhat conflicting claims and descriptions that have come from individual quarries on their local products. The book first classifies building stone according to 1) dimensional stone, and 2) rubble stones and split face. Trade name, color range, and company producing types of each are listed. Next follow succinct run-



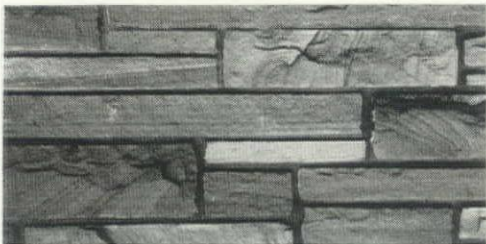
Shot-sawed finish gives rich, weathered look to this Indiana variegated limestone face veneer.

downs on physical characteristics of the various major stone categories: three kinds of limestone, sandstone, quartzite, and rubble. The oölitic variety of limestone is described as a calcite-cemented stone, practically noncrystalline, formed of shells and shell fragments. It possesses a uniformity of composition, texture and structure with a high internal elasticity and is adaptable to extreme temperature changes. Dolomitic is de-



Dense, frostproof and low in absorption, Winona travertine stone (pictured left) is fabricated as split face ashlar.

finer as a limestone rich in magnesium carbonate, somewhat crystalline in character. Found in ledge formations in many different colors and textures, this type is reported to have greater crushing and tensile strength than oölitic. Crystalline limestone, predominately composed of calcium carbonate crystals (though not recrystallized as in marble), has high crushing and tensile

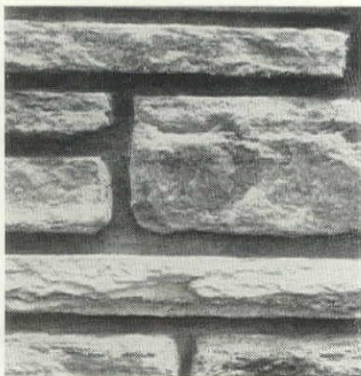


An occasional rain cleans off the extremely hard, multihued face of Tennessee quartzite.

strength and low absorption. It is quite uniformly light gray in color and smooth in texture. Sandstone is a sedimentary rock of quartz cemented with silica, iron oxide or calcium carbonate; strong with a wide color and textural range. Quartzite is compact granular rock of quartz crystals cemented firmly into a homogeneous mass as hard as many granites. Quarried in stratified layers, the stone's surfaces are very smooth. It has high crushing and tensile strength and wide color range. Rubble (ledge stone) or flagging is natural cleft stone particularly suitable for veneer; can be limestone, sandstone, or flagstone.

The publication then classifies these categories according to cut stone, ashlar, facing, and flagstone, and defines breakdowns of each. Referring to color, it points out that an almost unlimited palette—reds, greens, blues, yellows, variegated mixtures, as well as neutrals—is available to the designer and architect. "Some stones," it states "like the limestones, gain effectiveness through the sheer beauty of the material even though the color be monotone. Others, such as strip rubble, offer a wide range of hues . . . as they come from the quarry."

Large four-color photos of 27 principal stones available are shown and each close-up is accompanied by one or two views of actual jobs—a home, school, church, industrial plant or office

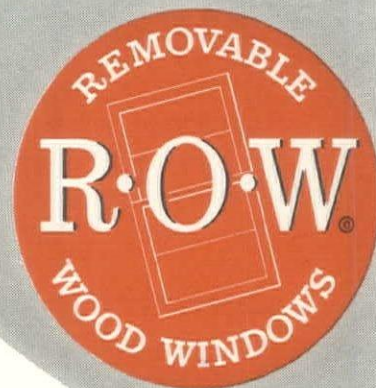


An unusual color range of grays, blues, browns, olive greens and rusts characterizes the hard and dense Chesapeake-hue quartzite.

building. (Here in the selection of the buildings is one place where the catalogue falls short of top quality. Only a small fraction of the structures are first-rate architecture, and therefore not the strongest pictorial argument is made that could have been for the use of stone in today's buildings.) Each type of stone is analyzed according to its individual characteristics and applications. The publication points out, for instance, that Bear sandstone, a fine-grained stone which can be obtained in various finishes, has color ranging from light to dark buffs, grays and variegated tones, and is suitable for both interiors and

continued on p. 184

FIRST WITH OWNERS



Good contemporary homes must be both beautiful and functional. The primary functions of windows are to let in light and to permit a free choice between ventilation or weather protection. No windows are more beautiful or more functional than R.O.Ws. Only R.O.Ws have the patented R.O.W feature.

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Build homes that offer more.

The New P & H Pioneer Home Offers... 3-Way Dining Area, 1½ Baths,



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This new 1,100 sq. ft. P&H Home is your answer to a big, growing market — the market for a larger home, competitively priced. Now you can build P&H Homes for wider range of markets and price classes than ever. You'll have more variation in your projects, more profitable operations all down the line.

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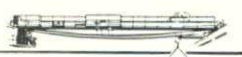
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OVERHEAD CRANES

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72 sq. ft. Larger Living Room, 27 sq. ft. More Closet Space Than Most at Price

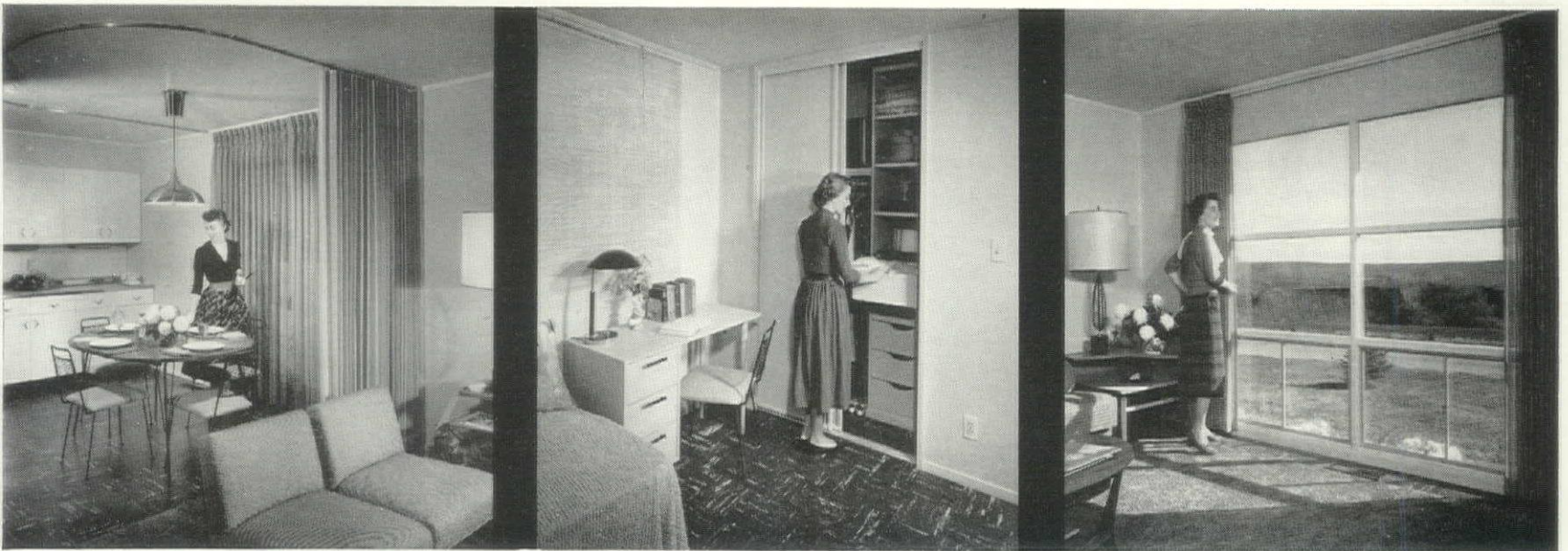
Here's a home that's designed *up* to the maximum in styling, construction and convenience — not down to a minimum, as so many other homes in its price class. It's the new P&H Pioneer, new inside and out.

Four bedrooms, full bath and shower and powder room, more than 1,100 sq. ft. of living space and it has as many new ideas as any home you've seen at the price in years. No selling problem with this new P&H Home. Just let your prospects see it; let them compare with others at the price. That's all the selling you'll have to do.

Why not make the building business easier and more profitable for yourself now? Build P&H Homes — and the Pioneer. **Learn about the P&H Builder Profit Plan at the NAHB Show, Jan. 17-21, Space 13, Hilton Hotel, Chicago.**

Sales Are Easier Than Ever With All These "Above-The-Average" Features In The P&H Pioneer Home

- 72 sq. ft. larger living room than most homes at price
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- Extra powder room, folding door room for den or 4th bedroom
- 3-way dining area with folding curtain-wall allowing screening off of kitchen, living room, or opening to both
- Latest in contemporary home architecture, including flat roof, hip or gable models
- Thermopane window wall, Rusco combination windows, Upson Strong-Bilt wall panels
- Built-in drawer sections in bedroom, closet-walls



New Flexibility! 3-Way Dining Area

Here's a real sales closer in the '54 P&H Homes — a changeable dining area. A matchstick bamboo folding screen on a ceiling track makes dining area part of kitchen, living room, or open to both *in seconds!*

Closet Space . . . and Then Some!

P&H Homes really shine when it comes to storage space . . . Full closets in each bedroom, ceiling high sliding doors, shelves, built-ins, plenty of extra closets. The Pioneer model has 27 sq. ft. more storage than average.

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P&H Homes offer the popular Thermopane window walls for the modern, luxury look. Flexible P&H plans permit orientation of homes with picture window living room facing either front or rear of lot.

Start your own building boom with P&H homes now . . . write or wire for details

greatest event in
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NAHB'S 10th ANNUAL CONVENTION EXPOSITION

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SHERMAN HOTELS

CHICAGO

JANUARY
17-21

NAHB will celebrate its 10th Annual Convention and Exposition with a vast presentation of the latest developments in home building. Far bigger, far more complete, far better than ever before!

This industry-wide gathering will cover practically every subject you can think of that will help you in your business . . . improved construction methods, design, research, selling, financing and scores of others. There will be special emphasis on "shop talk" sessions, demonstrations and "how-to-do-it-better" features.

GIGANTIC EXPOSITION

See the greatest array of building products ever shown! Nearly 300 nationally known makers of building materials and equipment will display hundreds of new and improved products. Packed with new, useful ideas. It's the only show of its kind—the showcase of the industry.

WHO CAN ATTEND

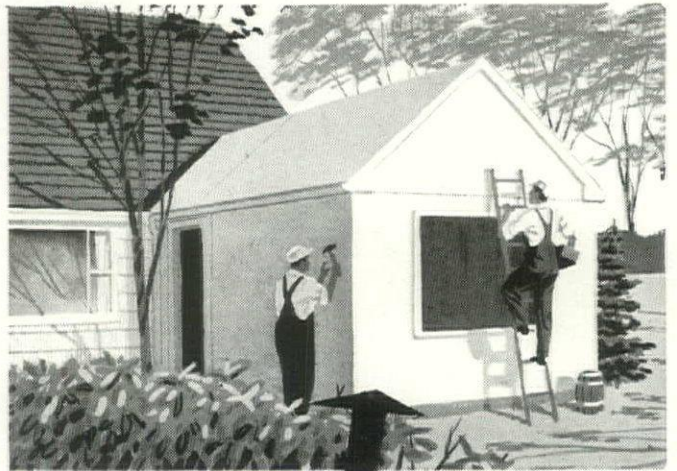
Everyone connected with home building is invited to attend this fabulous 10th Anniversary show, whether or not you are a member of the NAHB. Builders, contractors, architects, engineers, mortgage men, manufacturers, jobbers, building supply dealers—come one, come all!

HOW TO REGISTER

NAHB members should register through their local NAHB Chapters. All others may register in advance and make hotel reservations through Convention Headquarters. *Advance registration (\$15 for men, \$10 for women) must be sent with hotel reservation request.* Confirmation and registration certificate sent to you at once. Make checks payable to National Association of Home Builders. Please show name, address, business classification and date of arrival for each person included in your request. Write today!



NATIONAL ASSOCIATION OF HOME BUILDERS
Convention & Exposition Headquarters
111 West Jackson Blvd., Chicago 4, Illinois



Weatherproof Homasote

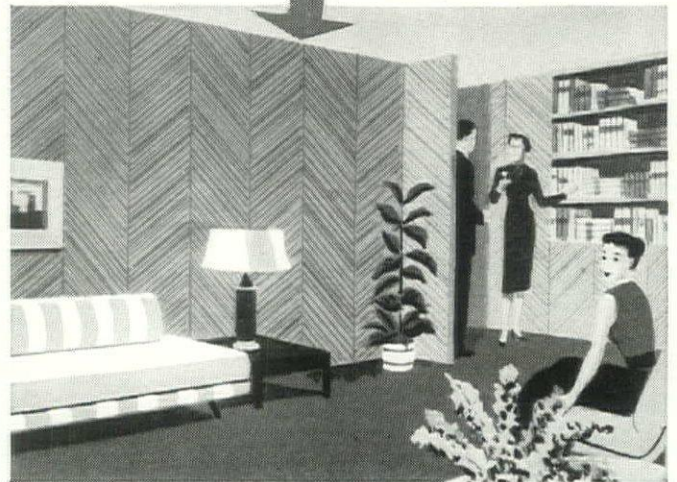
in Big Sheets up to 8' x 14'

The oldest and strongest insulating-building board on the market. *Permanently weatherproof and crackproof*, this material is used for both sheathing and finish *inside or out*. Imparts great structural strength, protects against damp and mildew. A perfect surface for paint, stain or wallpaper. Mail the coupon for specification data.

Striated HOMASOTE Panels for

interior and exterior use

The most beautiful decorative insulation ever created! Its "combed" surface gives highlights that change with the light. Panels may be painted, stained, cross-wiped. For interesting effects, vary the size and angles of the panels. Wood-textured Homasote Panels are also available. The coupon below will bring illustrated details.



HOMASOTE COMPANY

Trenton 3, New Jersey



HOMASOTE COMPANY, Trenton 3, N. J., Dept. 63D

Send detailed, illustrated literature on

Weatherproof Homasote

Striated Panels

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ADDRESS _____

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My lumber dealer is _____



What's the big change in houses?



See it in the January House & Home . . .

Once again, America is demanding—and getting—a new and improved product! In 1954, home buyers will be looking for a *1954 house*. Alert architects and builders have already anticipated a *snowballing change* in public taste. They're exhibiting 1954 houses that are strikingly new from footings to furnishings. And these are the houses that are winning down payments now where the buyers' market is stiffest!

What makes these houses so different . . . so salable?

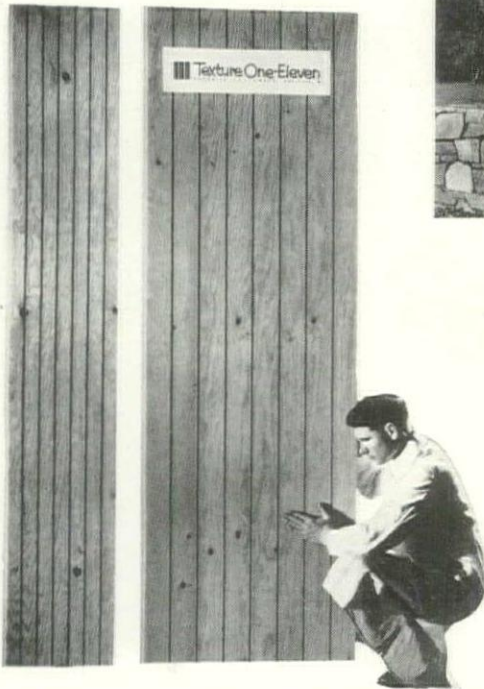
It's not merely the low-pitched roof or the wide overhang. It's not just the closet walls, the multi-purpose rooms or the indoor-outdoor windows. The big change is actually many of these things. And the January *House & Home* will show them all to give you a colorful preview of what's ahead in '54.

House & Home takes you on a nationwide tour . . .

. . . to show you the big change in Minneapolis, in Philadelphia, in Topeka, Cleveland, California's Bay Region and cities in every section of the land. This January issue rounds up *hundreds* of new ideas for houses that work in every climate and appeal to every family and pocketbook.

Start your subscription with January's exciting issue. Just mail the subscription form bound in this copy. You'll agree that America is getting *another* new and improved product in

house + home 540 North Michigan Avenue, Chicago 11, Illinois



Nailed right on top of the existing siding, the clean-grooved One-Eleven plywood panels do much to contemporize this old Washington D.C. house. Remodeling was by Architect Charles Goodman.

Cut from 5/8" stock, panels come 8' and 10' high. Grooves are 2" apart on the 16" wide panel and 4" o.c. on the 32". Top veneer, picked for small knots and texture, adds interest to the striated pattern.

years ago as one element in a prefab house by Architect Carl Koch and is now in high-gear production on its own. Made of heavy 16-gauge steel covered with vitreous enamel in cherry red or gray, it weighs just 60 lbs.; is delivered complete with andirons and screen. List price is \$86. The *Kosmak* fireplaces (p. 150) retail for about \$150 each. Bottoms and backs are insulated with glass fiber. Models are made to fit standard 6" or 8" stovepipe.

Manufacturers: *Firehood*—Condon-King Co. 613 Eighth Ave. N., Seattle 9, Wash. *Manchester-Pierce* — Manchester-Pierce, Contemporary Furniture, Bellevue, Wash. *Acorn*—Bettinger Enamel Corp., Waltham, Mass. *Kosmak*—Kosmak Fireplaces, 45 Castle St., San Francisco 11, Calif.

HIGH STYLE PLYWOOD: small home takes to up and down grooving, low price

Rustic yet sophisticate, *Texture One-Eleven* Douglas fir is in step with current design motifs in home construction. The trim, slim vertical siding, heretofore available only with expensive-to-install T&G boards, will list at around 38¢ per sq. ft.—a price in line with other low-cost exterior wall materials when application is taken into account. (Labor costs computed by Architect Charles Goodman for a Washington, D.C. remodeling job, ran 4¢ per sq. ft. for *One-Eleven* as compared to 20¢ for standard T&G siding). Deep parallel cuts 1/4" wide, 3/8" deep are grooved into

continued on p. 172

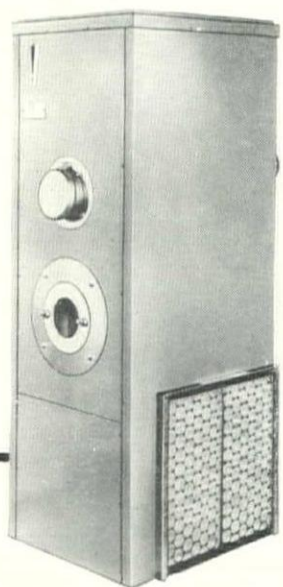
Announcing...

A CHANGE IN OUR NAME

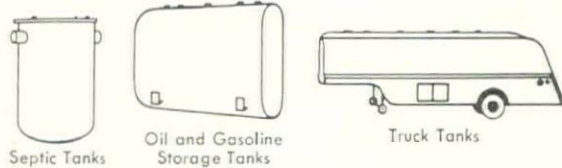
The Kaustine Company originally manufactured chemical toilet systems in which caustic soda was used. The name "Kaustine" was coined as being descriptive of these products. Since discontinuing their manufacture we have decided to change our company name so that it will be more descriptive of our general line. After careful consideration we have selected the following signature:

KAUSTINE FURNACE & TANK CORP.

Our trademark of many years remains the same and there is no change in management or company policies.



Modulating Warm Air Furnaces



Septic Tanks

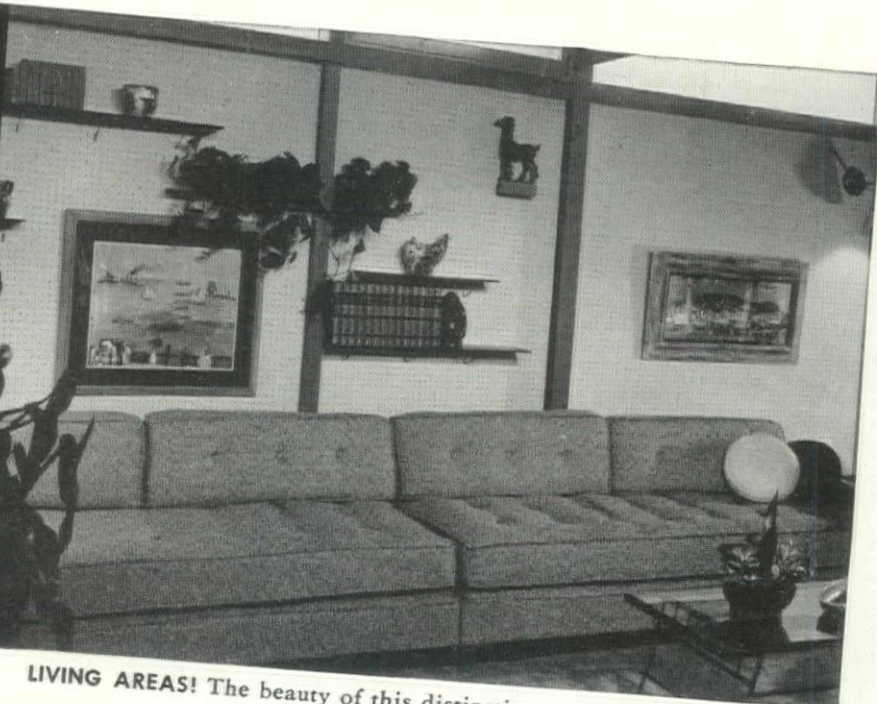
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New Feature
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1954 HOMES!



LIVING AREAS! The beauty of this distinctive wall is that it can be rearranged without fuss any way and any time the householder feels like it.

Working Walls of MASONITE PEG-BOARD* PANELS and changeable metal hangers that lock on without tools!

Now sold by building materials dealers everywhere
Here's the exciting new decorative feature that'll sell more homes faster in 1954 and many years more!

You've read about the wonder-working walls of Masonite Peg-Board panels. And so have your prospects. In scores of home-magazine articles, in newspapers, over the radio and on TV, they've learned how attractive a living room can be...how efficient a working area becomes with the aid of these perforated all-wood hardboard panels.

Working walls and partitions of this dense, grainless material will firmly support paintings, books, plants and objets d'art. Homeowner can rearrange them at will, easily, and with no muss or fuss, without defacing the wall. Wide variety of hangers lock into holes (1" on centers), lift off instantly without nails, screws, bolts or any tools.

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better hardboards for better buildings



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KITCHENS, OF COURSE!
Put lazy walls to work in kitchen, bath, child's room, recreation room—anywhere!



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Please send me a complete description of Masonite Peg-Board panels and fixtures and suggestions for their use.

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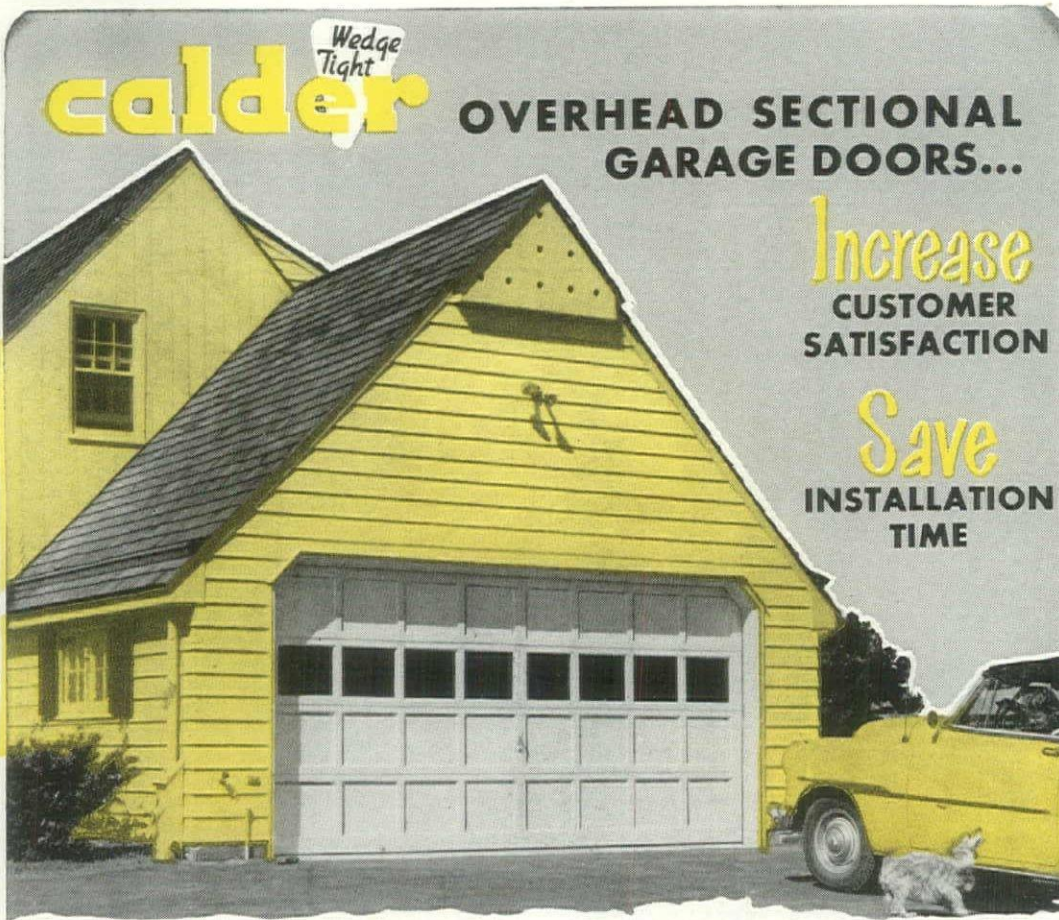
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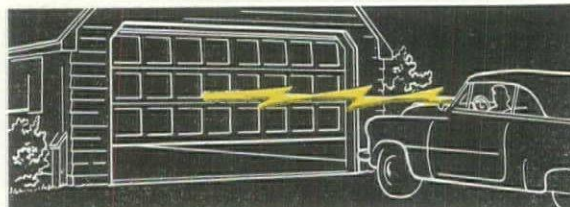
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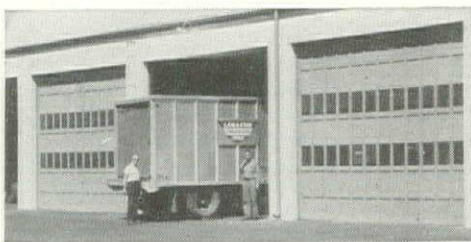
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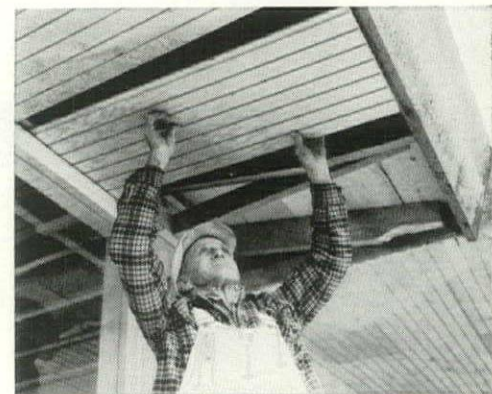


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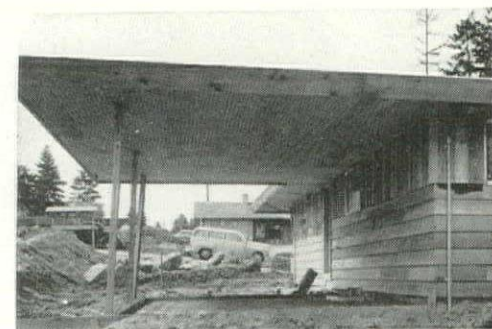
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rabbeted edges so that the vertical joints form grooves which match the cuts in the panel face, creating a continuous wall pattern. *One-Eleven's* uses are not limited to siding; it



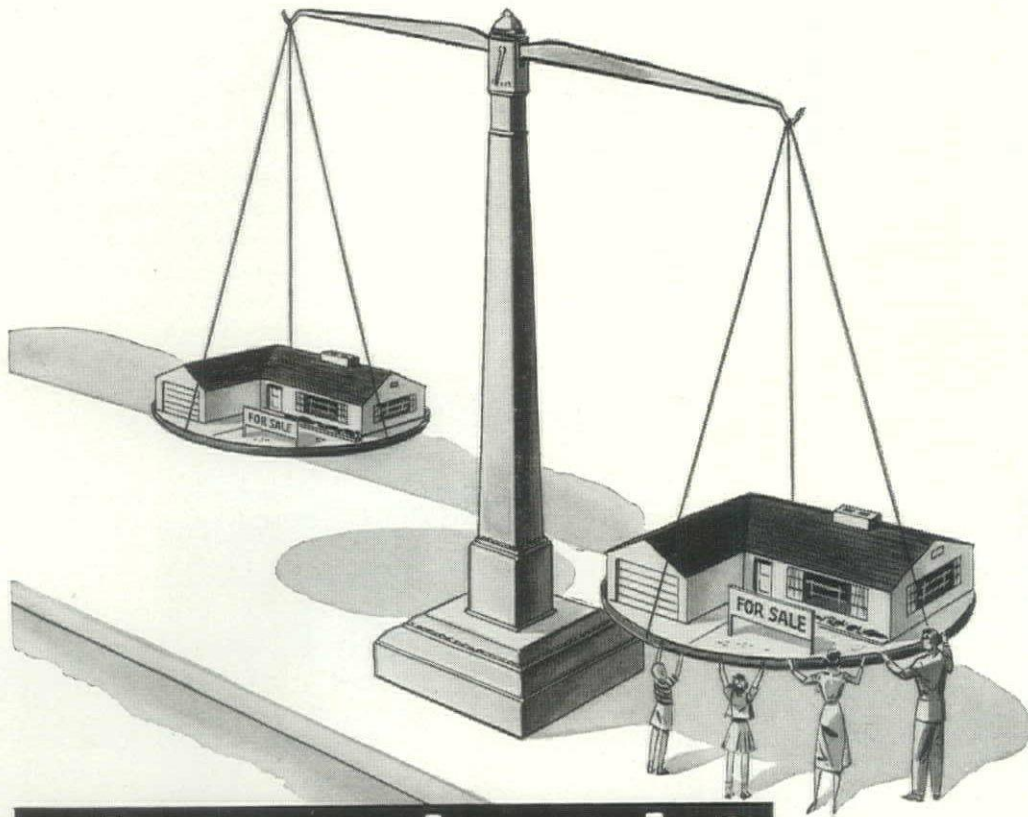
is also suitable for soffits, carport ceilings, and indoor paneling—where the grooved surface very likely would benefit a small room acoustically as well as visually. The surface veneer for *One-Eleven* is especially picked for natural textural effects. Unsanded, it is a little rough, and has small knots and restricted knotholes. Deep-tone opaque oil stains are recommended as a finish. Many West Coast manufacturers are already in production on *Texture-One-Eleven*.

Information: Douglas Fir Plywood Assn., Tacoma 2, Wash.

SLIDING GLASS DOORS gracefully combine metal and wood in one frame

Combining aluminum and hardwood in a sliding door may be no great technical feat, but if done for good reason and with good taste it is to be applauded. So, some posies go to Horizon Door Co. for its *Sunset Sliding Patio Doors*. Using slim aluminum vertical mem-

continued on p. 178

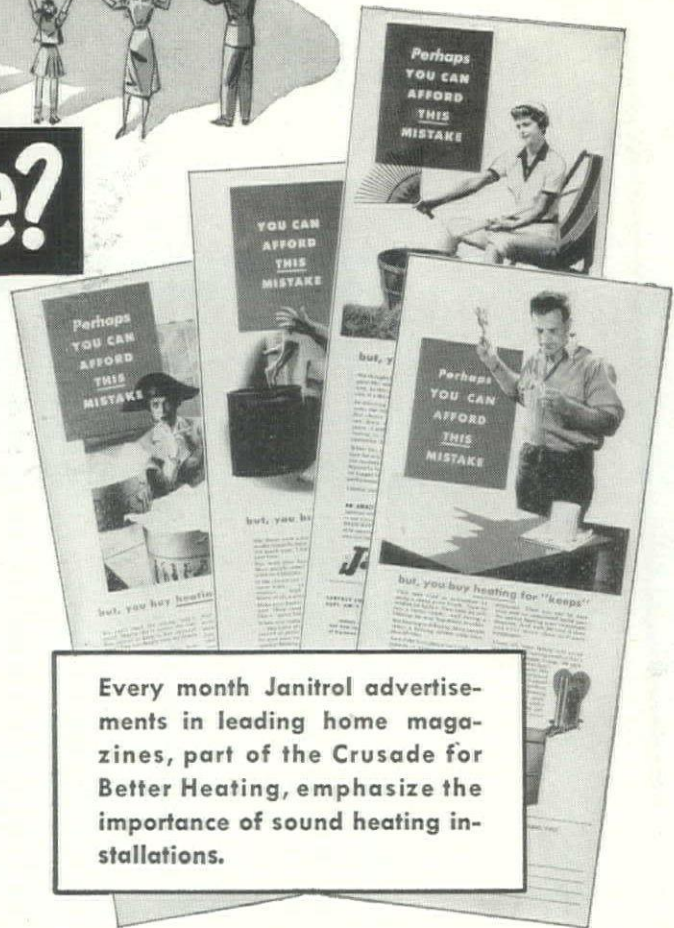


What tips the scale?

Yes, both houses are identical in appearance. A year ago both would have sold readily. The story is different today. It's the house with the extra value that tips the scale. For today people are demanding more quality in the investment of their lifetime.

Best evidence of quality in your homes is a reputable heating system. Your genuine concern for your prospect's continued comfort is one of your most convincing appeals.

Because Janitrol heating has an unmatched reputation for long-life dependability, some people assume Janitrol costs a lot more. It doesn't. But you get credit for installing the finest without extra cost. So use this prestige of Janitrol equipment to close sales that are becoming harder to make.



Every month Janitrol advertisements in leading home magazines, part of the Crusade for Better Heating, emphasize the importance of sound heating installations.

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Local Janitrol dealers are listed under "Furnaces", yellow pages of your phone book. Find

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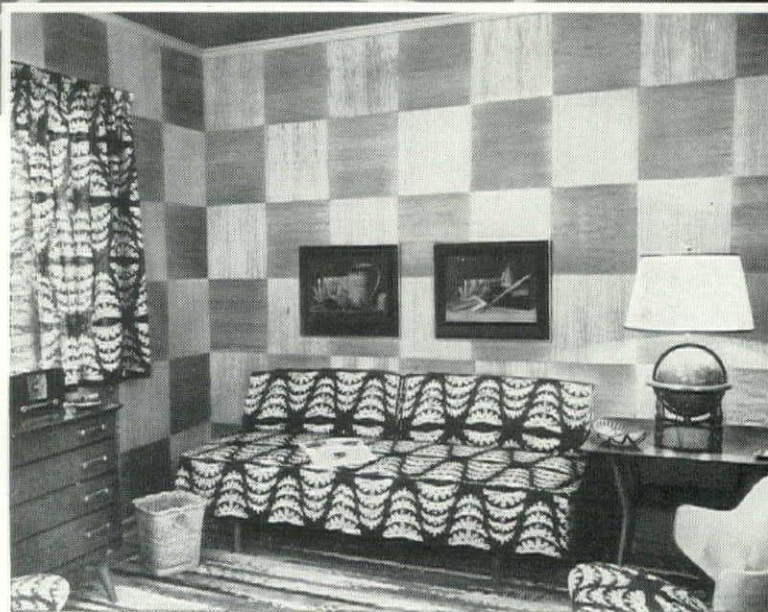
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KORINA . . . the beautiful blond hardwood that comes from our plant in the Belgian Congo. It's a decorator's joy because it complements any type of furnishings, traditional or modern. The above illustration will be seen in full color by more than 15 million readers in the January issues of leading magazines.

WELDWOOD KORINA checkerboard panels (4' x 8') used for walls in bedroom of General Electric Wonder Home, Louisville, Ky. Architect: Carl D. Russel. Builder: John Walser.



HOW TO HELP A HOUSE SELL ITSELF

Weldwood wall paneling immediately lights up prospect's eyes, yet keeps costs well within your budget.

Watch a woman when she walks into a sample house which has Weldwood wall paneling. Right away she sees how well her furnishings will look against such a beautiful background, how charming and hospitable this house will be to live in—*she's impressed!*

Now take the man who signs the contract. Weldwood hardwood paneled walls mean quality—which implies quality construction throughout the house so—*he's impressed.*

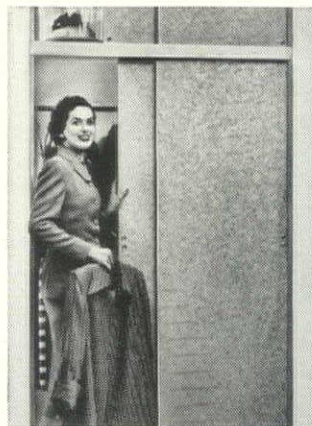
Many builders report that home buyers are becoming more and more selective. They want the extras that add so much to gracious living. Surprisingly enough you can offer these extras without unduly raising your building costs by using Weldwood hardwoods.

A fireplace wall in rich mahogany Plankweld, a playroom in rippling Surfwood, a TV nook in Weldtex pre-cut squares, a dining room walled in rich Korina or any of several other luxurious hardwoods—yes, it's *extras* like these that help you close sales.

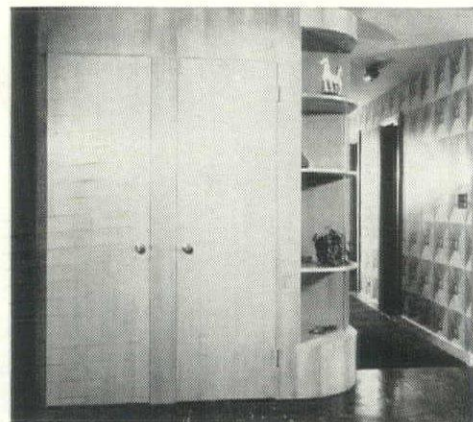
IMPORTANT NOTE: All Weldwood hardwoods are *guaranteed for the life of the building!* So if you offer your home buyers a "time-guarantee"—which many builders have found productive—this strong Weldwood guarantee stands back of you.



PLANKWELD requires no on-the-job finishing. Comes in 16¼" x 8' factory pre-finished panels, about 108 sq. ft. per package. Can be placed on any dry wall without furring or nailed directly to studs. Grooved edges and special metal clips conceal nails. Available in 6 beautiful hardwoods.



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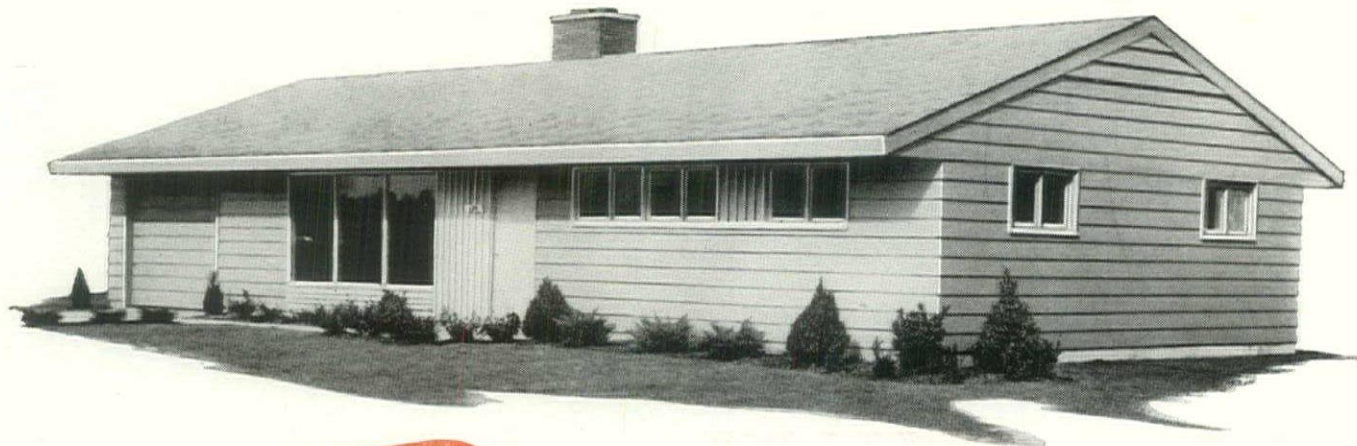
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A MODERN HOMES ORIGINAL

A new brilliantly styled Contemporary created for the area from Maine to Montana and planned for a gala introduction in spring through selected builders.

The CAPRI by Modern Homes Corporation, is a new, brilliantly styled Contemporary in the popular 1500 square foot class, designed, not by factory men but by architects; not a modification of California architecture or construction but designed for year 'round comfort in the northern half of the United States.

It combines the economies of pre-fabrication with good, conventional construction, full insulation, all large glass Thermopane, storms and screens, louvered cross ventilation, deep solar canopy, new concealed attic ventilation.

The CAPRI is intelligent, Contemporary. An island fireplace with corner opening serves both living and dining areas. Free-standing closet and shelf units serve as mobile walls. Three big bedrooms all take twin beds. Vanity-lavatories with mirrored double cabinets in bath AND in master bedrooms are tops in style and convenience. Big kitchen takes all appliances plus breakfast set. Closets and storage space are exceptional. Plans are completely flexible with four orientations for wide lots and four for narrow lots, *all retaining the beauty of the unique CAPRI design.* Slab, crawl space or basement construction with the new, thrifty Klear-Span Floor System.

This is a home you can build with pride and sell with confidence. It has custom design and custom quality throughout, yet, you can price it at up to 20% less than a comparable site-built home and still make your full profit.

This is your Golden Opportunity.



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Capri

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offering to selected builders a GOLDEN OPPORTUNITY to . . .

- 1 Discover the QUALITY and ECONOMY of CONVENTIONAL pre-fabrication.
- 2 Build and sell the beautiful, new CAPRI—a brilliantly styled Contemporary, created for YOUR local climate—not for California.
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- 4 Cash in on LOCAL publicity, advertising, sales promotion, sales training, ALL PREPARED AND PACKAGED FOR YOU.
- 5 Cash in on the sales appeal of a GALA PUBLIC PRESENTATION of the CAPRI—COMPLETELY FURNISHED TO THE LAST DETAIL by a famous interior decorating studio.

The CAPRI GOLDEN OPPORTUNITY PROGRAM is probably the most complete merchandising activity ever offered to conventional builders.

It will bring you thousands of dollars worth of advertising and publicity in national magazines and local newspapers. It will bring you thousands of visitors, scores of leads and dozens of live prospects for the CAPRI and for the other fine two, three and four bedroom homes by Modern Homes.

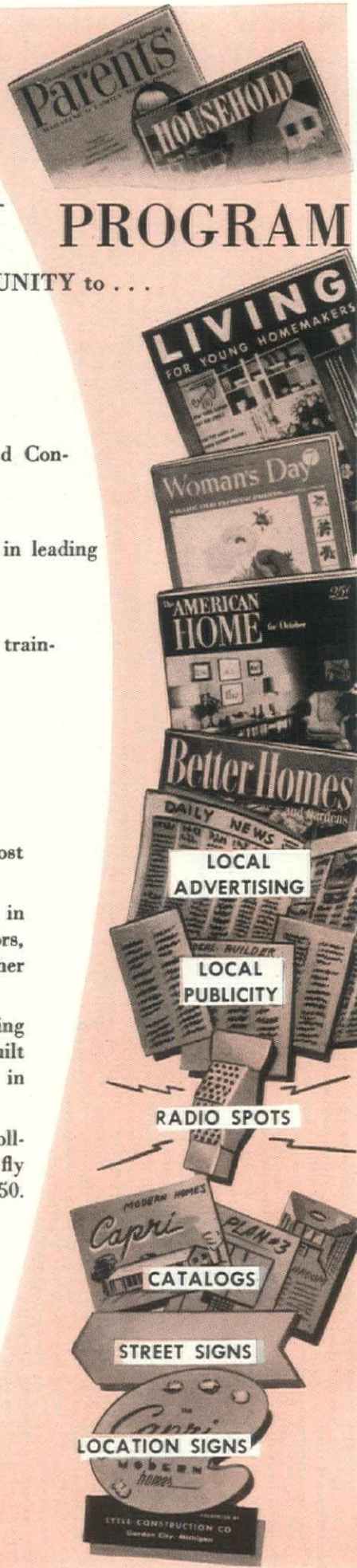
If you are equipped to handle a deal like this and if you are interested in offering excellent conventional construction at up to 20% less than on-the-site built homes cost, this is indeed your Golden Opportunity and we are interested in hearing from you.

Effective tie-in with the Golden Opportunity Program requires immediate enrollment. Therefore, we suggest that you write, wire or phone us right now, or fly up here, see the CAPRI and talk it over. Call Dearborn, Michigan, LUzon 4-1550.



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TRADE SECRETS HOUSE
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Kno-Draft Overhead Air Diffusers.



**Sell the heating system
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ALL READY FOR COOLING**

WITH KNO-DRAFT Overhead Air Diffusers you can offer not only the finest kind of warm air heating, but a system designed in advance for future cooling—a mighty important feature for today's home builders and buyers.

Kno-Draft takes you out of price competition. You're not selling "outlets"—you're selling *air mixers* that equalize temperatures for the greatest possible comfort. You can guarantee your customers: no

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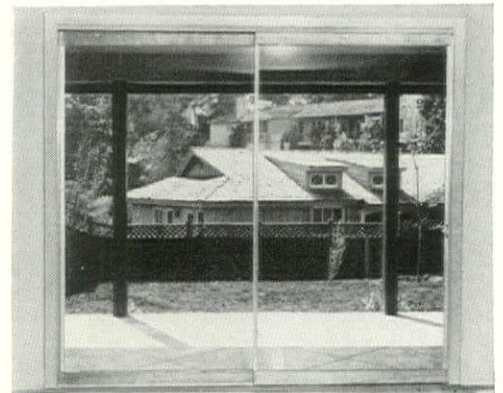
What's more, you can get Kno-Draft Overhead Air Diffusers with or without integral lighting fixtures—an extra source of customer satisfaction.

Get on the overhead air diffusion bandwagon with Kno-Draft. Mail the coupon for the full story, without charge or obligation. Connor Engineering Corporation, Danbury, Connecticut.



CONNOR ENGINEERING CORP.
Dept. F-123, Danbury, Connecticut
Please send full information on Kno-Draft Overhead Air Diffusers, with and without integral lighting fixtures.

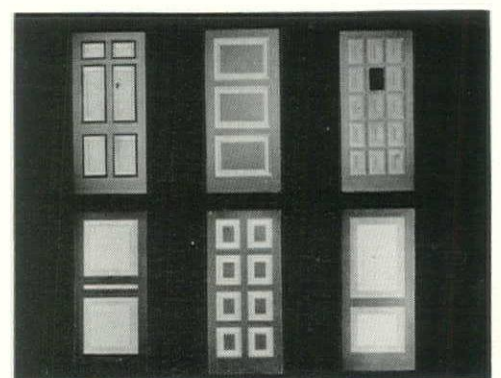
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Position.....
Company.....
Street.....
City..... Zone..... State.....



bers with generous top and bottom rails of blond hardwood ash, the new model is compatible with many styles of house architecture. Built into a standard door frame, the unit is easy to install and provides its own plaster grounds for the interior and, on the outside, grounds for masonry, stucco, or frame. It is delivered fully assembled in the Southern California area and shipped knocked down to other parts of the country (assembly takes less than 1 hr.). Prices, including glazing mold, lock, and pull hardware, range from \$87 for the 6' x 6'-10" reverse sliding unit up to \$189 for the double sliding, four-panel model 16' x 6'-10". There is a wide choice of sizes and sliding arrangements in between. Screens are available at \$20 for a 3' wide unit up to \$35 for a 6'. For sure weather protection, a neoprene cushion seals the interlocking side rails at the closing jamb, and the leading edge of the side rail passes into a cushion.
Manufacturer: Horizon Door Co., 1426 Flower St., Glendale 1, Calif.

PANEL ENTRANCE DOORS updated to suit contemporary homes

Largely unaltered in design for the past 30 years, panel doors have been revitalized in this new M & M series which is making a pitch for the decorative interest in modern homes. Six of the neatly proportioned entrance doors pictured below are painted to



play up the wide flat borders and strong horizontal (or vertical) panel shapes. Five other models are available. Retail prices for the group range from \$21.50 to \$39.50 in the Portland area.

Manufacturer: M & M Wood Working Co., 2310 N. Columbia Blvd., Portland, Ore.

continued on p. 180

Something
homeowners
can bank on!

Date _____

1866 CURTIS WOODWORK No. 6273

This Certificate is issued to _____ and used in the erection of the building of _____ authentic design, manufactured by Curtis Companies Incorporated, and is their guarantee that the Woodwork as listed below, furnished by Curtis Companies Incorporated, bearing the Curtis trademark, and an unquestioned intent to produce a quality product have brought you the utmost in woodwork value.

Curtis Woodwork is guaranteed. Because we as manufacturers cannot assume the responsibility for correct conditions of the building site and within the building, and the performance of the several mechanics through whose hands Curtis Woodwork must pass before it becomes a beautiful part of your finished home, that guarantee can only cover defects of material and workmanship over which we have positive control, and which are reported within six months after this date. In such cases we will furnish new material.

As a further guarantee this Certificate has been countersigned by the Curtis dealer from whom the material was purchased and covers the following items of Curtis manufacture:

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BY _____

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ISSUED BY _____
CURTIS COMPANIES INCORPORATED
PRESIDENT

It's made to order for today's discriminating home buyers—this powerful "convincer." The Curtis Woodwork certificate, guaranteeing materials and workmanship, is proof positive of window value. Builders and contractors are using it to *sell the entire house*. They find homeowners respond quickly to this extra assurance that they are getting their money's worth in windows and other woodwork.

Today, a well-known name like Curtis—and a guarantee such as this—count more than ever in creating buyer preference. That's why Curtis Silentite windows are more popular than ever today.



CURTIS COMPANIES SERVICE BUREAU
Clinton, Iowa

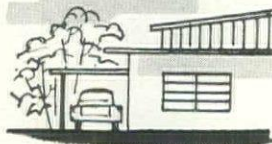
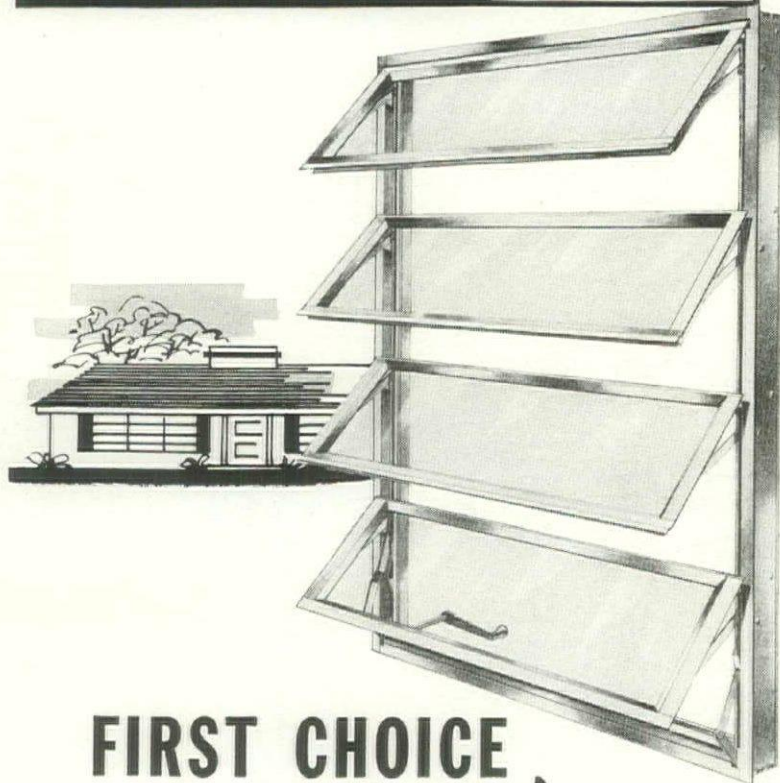
A Department of Curtis Companies Incorporated
Clinton, Iowa • Wausau, Wisconsin • Chicago, Illinois
Sioux City, Iowa • Lincoln, Nebraska • Topeka, Kansas
Minneapolis, Minnesota • New London, Wisconsin



Curtis Woodwork will be on display at the NAHB show in Chicago—January 17-21—Booths 407 and 408—at the Sherman Hotel. See the new Curtis products in 1954.

AIR-VUE

aluminum
AWNING
WINDOWS



FIRST CHOICE of homeowners

NOTE: 4 vents for
standard 2-4 windows
Patents Pending

COMPLETELY WEATHERSTRIPPED

Air-Vue Aluminum Awning Windows stimulate house sales. Their streamlined, slim-lined, modern design makes the homes you build distinctive and unique. And for home improvement, they're perfect! Replace old, faulty, weatherworn windows with bright, beautiful Air-Vue All-Aluminum Awning Windows—a growing favorite of homeowners everywhere.

HEAVY GAUGE EXTRUDED ALUMINUM CONSTRUCTION

Frame section 63S-T5 with depth 2 5/8". This gives Air-Vue tremendous rigidity and strength.

QUICK, EASY INSTALLATION

Simply tighten 4 screws in ready-made frame buck holes for quick installation.

SHIPPED COMPLETE

Built-in operator may be quickly removed. No extra parts—no adjustments necessary. Saves labor costs.

EASY TO GLAZE

All vent glass is 11" in height through all standard sizes. There are three widths that cover all 12 standard sizes.

NO LUBRICATING

Sash operating mechanism rides on self-lubricating nylon plastic bearings.

CONCEALED HARDWARE

Housing keeps grit and dirt out, yet parts are readily accessible for proper maintenance.

DESIGNED FOR INTERCHANGEABLE SCREEN AND STORM SASH

EXCLUSIVE TERRITORIES OPEN

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Check one: Dealer Distributor

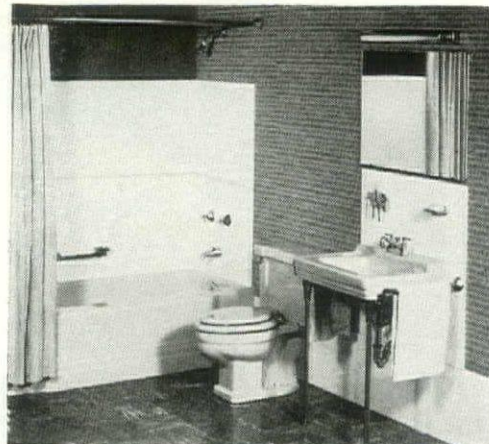
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City Zone ... State

Phone

NEW PRODUCTS *continued*



SUMPTUOUS COLORED GLASS comes in cost-saving kit of factory-cut bathroom panels

Builders can latch on to a good "do-it-yourself" item in Pittsburgh Plate's new *Decorator Bath Carrara* kit. Packaged complete with mastic and grout, the colored glass panels are factory-cut to individual specifications—even drilled for plumbing outlets. The practical way Pittsburgh has the basic plan figured, 63 sq. ft. would do for an average bathroom. This includes tub enclosure, lavatory back-splash panel and 14" high base. (Providing protection for the areas in the room that most need to be water- and steam-resistant, the scheme affords a wide latitude in decorating tastes since the bulk of the wall area is free for papering or paint.) Designed primarily for easy application by the amateur homeowner, the kit is nonetheless a time and dollar saver for the trade since the same factory service of custom precutting and drilling is available on quantity orders—and runs considerably less than the \$1.75 retail price per sq. ft. For installation, the tub surround is merely rested on the edge of the bath—it makes little difference whether the tub edge is perfectly level. The base also follows the floor line without any need for trimming or leveling. Since application takes one man less than 2 hours a room, over-all costs are reported to be far less than for ceramic tile for the same footage. *Carrara* colors available in the kits are: pale and forest green, ivory, blue, pink, gun-metal, black and white.

Manufacturer: Pittsburgh Plate Glass Co., 632 Duquesne Blvd., Pittsburgh 22, Pa.

HONEYCOMB CORE DOOR with plastic face resists warpage and wear

The *Chemclad* door for interior or exterior use is constructed to resist dimensional change even in warm, damp climates. Between its moistureproof plastic laminate faces is a honeycomb core of resin-impregnated kraft paper. Only the frame for this rigid, stressed-skin unit is made of wood. The door's smooth, tough surfaces will show little effect from scratching or scuffing. Prices range from \$30 to \$60, depending on style and size.

Manufacturer: Bourne Manufacturing Co., Detroit, Mich.

Technical Publications p. 164

Builders say houses **SOLD EASTER**
when equipped with

The **Thor** built-in
electric range

Reg. U. S. Pat. Off.

What do leading builders* think about the new Thor Built-in Electric Range? Read these typical comments and see:

"During the 1953 Home Show, we sold out completely due principally to the Thor Built-in Electric Ranges we put into our kitchens."

"In all our experience in selling homes, we have never heard

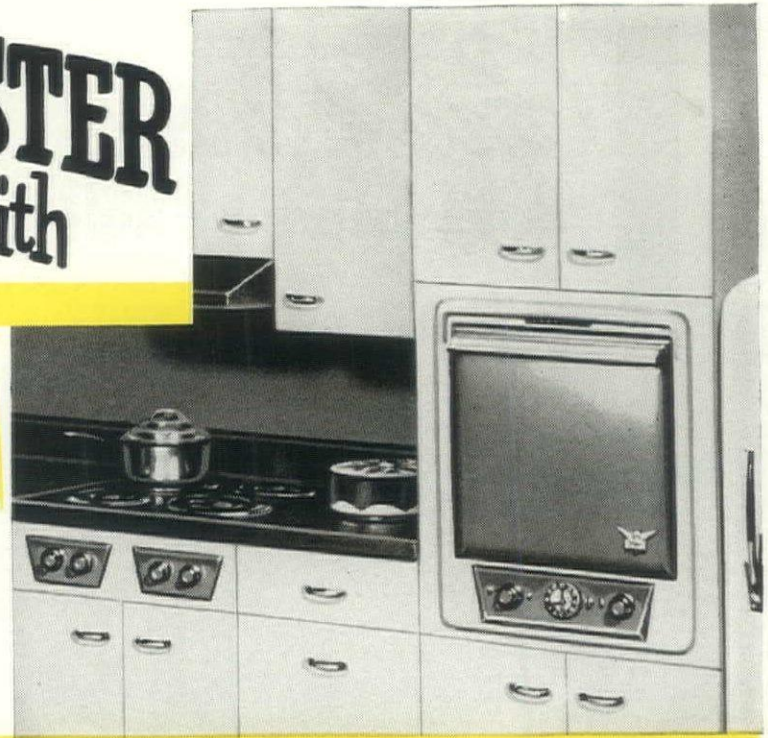
more favorable comments than we have had on our new Thor kitchen package."

"We are convinced that once a woman sees the Thor Built-in Electric Range in the kitchen—the home is more than half sold!"

How about finding out what the new Thor Built-in Electric Range will do for your new home sales? Mail coupon now!

*Names on request

THOR CORPORATION, Chicago 50, Ill.

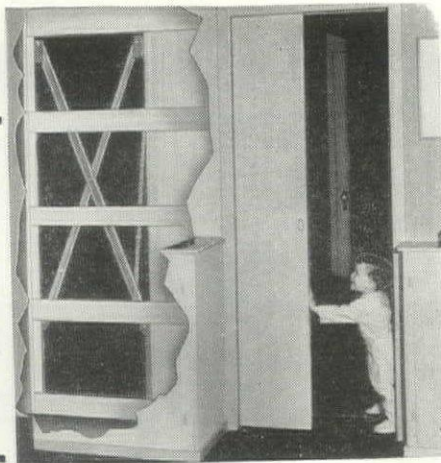


BUILDER-CONTRACTOR DIVISION
Leeson Steel Products, Inc., Dept. HH
Subsidiary of Thor Corporation, Chicago 50, Illinois

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specify...
DORFLO

First
with
"Floating
Action!"



For Remodeling and New Home Construction

DORFLO Recessed Doors with "Floating Action" are trackless . . . runnerless . . . noiseless! This low-cost DORFLO door hanger operates on a steel scissor mechanism—easy to install, easy to operate. DORFLO is readily adaptable to any type of door—solid, panel or glass. Can be made self-closing with a simple spring adjustment!

Specify or detail into your building plans DORFLO Recessed Doors—the matchless space-saver—and insure client satisfaction!

Write *TODAY* for specifications and additional information.

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Box 300-10, St. Paul Park, Minn.

NO-SHOK
Safety Duplex
Receptacles

installed throughout
3010 UNIT
HOUSING PROJECT

Park Forest, Illinois

When the additional 3,000 home units now under construction are completed, this suburban community will have a population of 25,000, approximately half of which will be children. To safeguard these thousands of youngsters, American Community Builders have installed NO-SHOK Safety Duplex Receptacles.

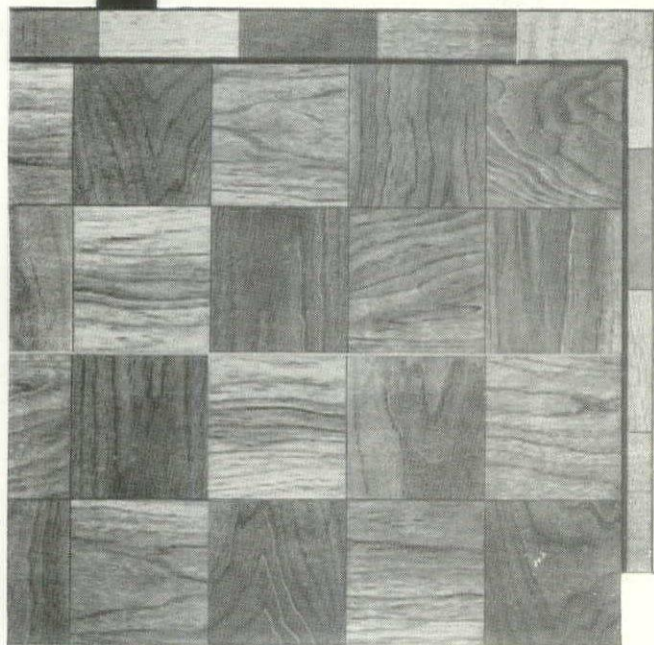
NO-SHOK SAFETY DUPLEX RECEPTACLES afford added protection to property and lessen fire hazards by keeping out metal objects, dust, water, etc.—prevent shocks and burns—save lives. Specified by leading builders, architects and engineers all over the U. S. for civilian housing projects, industrial and farm installations and Army and Navy housing. R.E.A. approved.

Sold through leading electrical wholesalers. Write for particulars today!

BELL Electric Company

Dept. H, 1844 West 21st Street
Chicago 8, Illinois

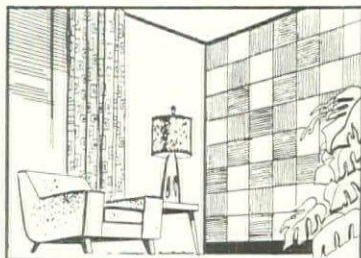
Gramwood decorative panels



SELL HOUSES *faster!*

GRAMWOOD PANELS provide more real sales appeal per dollar invested than any other wood wall construction.

Offer your customers the advantages of Gramwood paneling—the new, all hardwood plywood* faced with 12-inch squares of beautiful veneers. Prospects are quick to appreciate the beauty and utility of this fine wood paneling, quick to approve the satin smooth finish that makes cleaning so easy. Unlike other types of wall panels, there are no indentations, no rough edges to catch dust. Like fine furniture, an occasional waxing is the only care necessary.



The building advantages of Gramwood Panels are many. The big 4 x 8 panels go up quickly and easily, save time, labor and money. There's no mess, no waiting for plaster to dry, no worry about cracks. Gramwood Panels are available in a variety of choice hardwood veneers—Sliced Black Walnut, Northern Birch, Rift Oak, Sliced White Oak, Striped African Mahogany—plus a favorite in soft wood, Knotty White Pine. Let Gramwood help you sell your next house.



*Available also on Fir base.

JASPER WOOD PRODUCTS COMPANY
JASPER • INDIANA

COMMON NON SENSE



From Kaplan

"And they said cheap roofing saves money!"

COMMON SENSE: CHEAP ROOFING MATERIAL forces the builder to use *twice as much* sheathing lumber and *twice as much* labor applying sheathing. This fellow could have had a genuine CERTIGRADE cedar shingle roof, on spaced sheathing, for less cost!



RED CEDAR SHINGLE BUREAU • SEATTLE, WASH. and VANCOUVER, CANADA



YOU CAN

**MAKE MORE MONEY —
SPEED HEATING INSTALLATIONS —**

with



Check and compare these advantages . . .

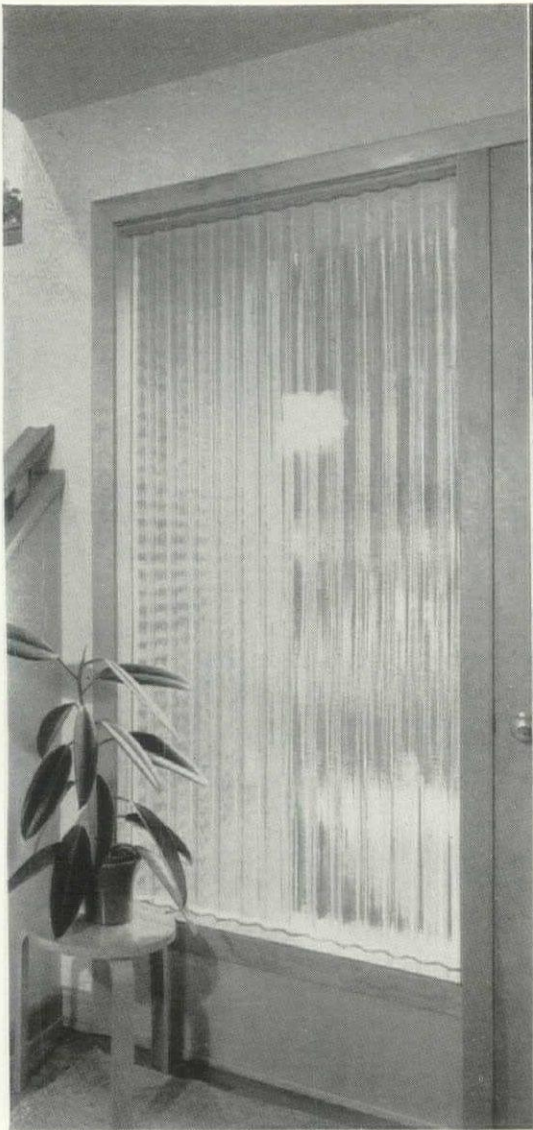
- ★ Low cost "wet heat" radiation which makes satisfied customers for you.
- ★ Easy to install units. Minimum of cutting and fitting.
- ★ Fits any floor plan. Can be painted to match any decorating pattern.
- ★ High BTU output reduces material requirements. Saves you money.



FREE OFFER New, revised "EASY ESTIMATOR." Complete calculation data sheets take the mystery out of estimating and installing. **WRITE NOW!**

RADIANT-RAY RADIATION, INC.

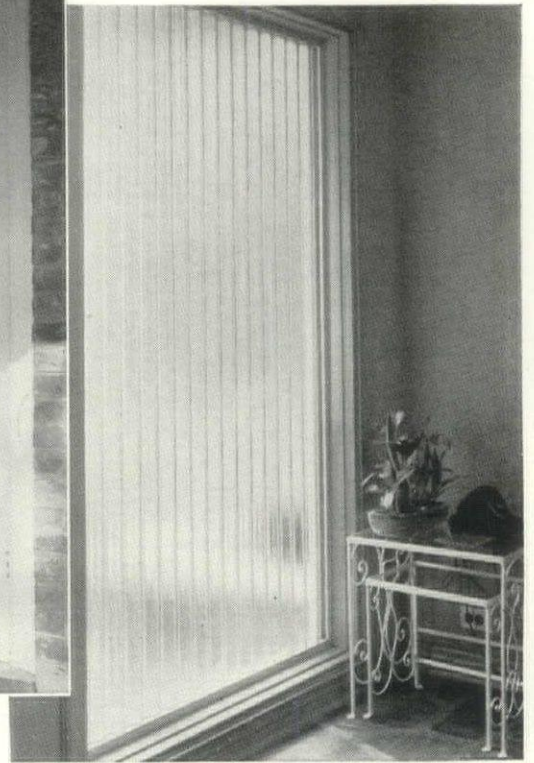
900 W. MAIN STREET NEW BRITAIN, CONN.



Structural Corrugated Glass installation at main entrance of L. M. residence, Seattle, Washington. Architect, Gerhard E. Karplus, New York City.



Exterior view at residence of Byron T. Sample, Assoc., Stainback & Scribner, Arch., Charlottesville, Va.



Interior view in Sample residence. General Contractor, Edw. Van Laer, Inc., Charlottesville, Va.

Doorways to Greater Sales Opportunities

... Add Eye-Appeal and Buy-Appeal with Structural Corrugated Glass

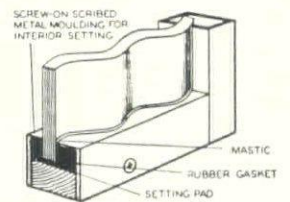
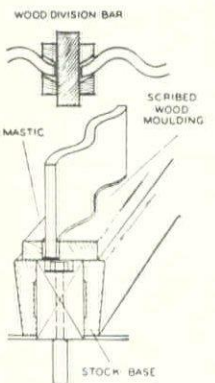
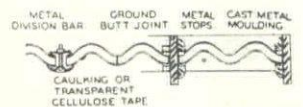
Translucent, light diffusing glass is in the modern mood. It can make your homes more interesting...more inviting... more buy-able. Mississippi's Structural Corrugated glass adds that something extra that turns suspects into prospects... sells on sight.

Home buyers love the effects that only Structural Corrugated glass can create... floods interiors with flatter-

ing "borrowed" light... makes rooms seem more spacious, friendlier.

And Structural Corrugated glass is easy to install. No plastered partitions. Eliminates wall painting. Always looks new. Give your homes the bright look that buyers look for. See your nearby Mississippi Glass distributor.

Send today for free Installation Specifications bulletin. Illustrated, detailed explanations for working with this modern material. Also ask for free booklet, "Modernize Your Home With Decorative Glass." Photographs of actual installations. Many ideas on ways to use this exciting new medium. Mail the handy coupon below.



There is no Substitute for GLASS!

It is non-combustible... won't burn. It is rigid. doesn't sag or warp. It has a permanently hard, impervious surface, not affected by time, abrasion or exposure to the elements. It won't corrode or stain. It resists chemicals. It is easily installed, maintained and cleaned by conventional methods.



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Please send free Installation Specifications bulletin and booklet, "Modernize Your Home With Decorative Glass."

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NEW YORK • CHICAGO • FULLERTON, CALIF.

WORLD'S LARGEST MANUFACTURER OF ROLLED, FIGURED AND WIRED GLASS!

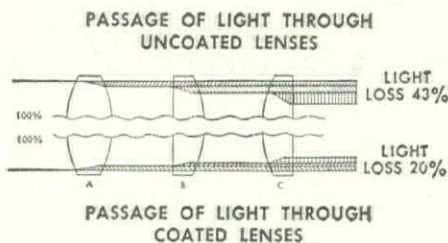
Ask the man behind the "gun"

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give you
this → not this →



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HERE'S what coated optics do for you. You can put in a full day without eyestrain or headache. There's less chance for a mis-reading. You get a clear, sharp sight — not a fuzzy image. What's more, you get your reading in far less time. Check this diagram. See for yourself how coated optics pass through up to 40% more light, provide a clearer image contrast.



And there's more!

White Universal Level-Transits also offer you internal focusing, guarded vertical arc and ball bearing race which insures smooth operation, even in sub-zero temperatures. Check one out on your next trip. You'll soon be convinced a White can make your work faster, easier, more accurate . . . Write for Bulletin 1053. DAVID WHITE CO., 314 W. Court Street, Milwaukee 12, Wisconsin.

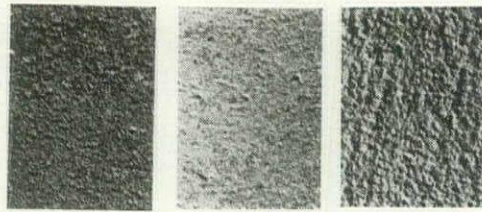


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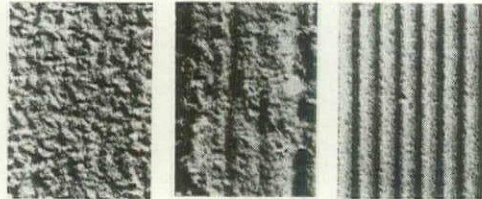
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TECHNICAL PUBLICATIONS

(continued)



Various surface finishes of cut stone above are: smooth planer, rubbed and sand sawed. Finishes below: chat sawed, shot and tooled.



exteriors, on big and little buildings. It is also useful on bridges and curbing.

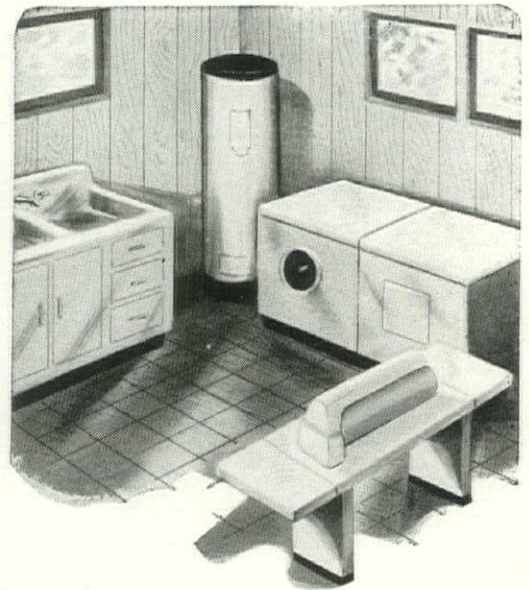
At the tail end of this valuable reference are explanations of different surface treatments of cut stones. One is the smooth planer finish, most generally specified by architects, which utilizes the natural graining of the planer with tool marks carefully removed. Rubbed finish, on the other hand, requires treatment with an abrasive after planing; carbide-tipped planer tools, however, are currently making this additional operation unnecessary. A granular rough surface is achieved by sawing stone with coarse chat under the blade. An even rougher surface with neat heavy vertical ribs is produced by using chilled steel shot under the blades. Tooled and hand finishes are also described but the specifier is cautioned to use with care—largely because of the expense involved (a considerable note). All in all the book should succeed in its purpose—to lead to a wider and more intelligent use of some wonderful building materials. Perhaps the keynote to stone's use and to one phase of its abuse can be found in the closing "Stone cannot be manufactured; it cannot be honestly imitated. The permanence, beauty and economy which people expect from stone can be found only in the natural product."

HARDWARE. Sliding Door Framing Details. Grant Pulley and Hardware Corp., 31-85 White-stone Pkwy., Flushing 54, N.Y. 16 pp. 8½" x 11"

Full-size framing details, clear enough for tracing, of the manufacturer's sliding door hardware are presented in this technical brochure. Concise specifications for all materials used in the construction of the frames are also included.

WIRING. Proposed Simplified Practice Recommendations for Steel Outlet Boxes (Zinc or Cadmium Coated). Commodity Standards Div., Office of Industry and Commerce, US Dept. of Commerce, Washington 25, D.C. 46 pp. 8½" x 11"

continued on p. 188



Put Sales
Appeal
into the
Laundry



When you equip your homes with laundry equipment that has important parts made of porcelain enamel on Armco Ingot Iron, you are directing your sales appeal to the person who usually makes the decision—the housewife.

She knows that porcelain enamel in washers, dryers, and built-in facilities such as pressed-steel laundry tubs is tops in quality. The housewife knows from experience that porcelain enamel is heat-proof, easily cleaned and not affected by household cleansers that often stain or destroy other types of finishes. In other words, she is already sold.

Cash in on this acceptance of porcelain enamel on Armco Enameling Iron by installing porcelain enameled appliances and fixtures in your laundries.

ARMCO STEEL
CORPORATION

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EXPORT: THE ARMCO INTERNATIONAL CORPORATION





Cheers FOR THIS GREAT, NEW STYLE
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MATICO *Confetti!*

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Confetti is available in 10 high-spirited colors, in 9" x 9" tiles of 1/8" thickness. Write department 14-12 today for full details and specification data.

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WHAT MODERN ELECTRIC HEATING DOES FOR YOUR NEW OR REMODELED HOME

... how to cut building costs and increase comfort

Look at the newest developments in electric home heating. Your prospects are! They are sending requests by the thousands for our new 32-page booklet "Design for Modern Electric Heating."

We're telling them to consider the much lower cost of installing electric heating... showing them how to compare maintenance costs with other systems... illustrating the new type heaters Wesix has designed to fit into modern living. We're showing them how you can plan their home for greater comfort, freedom of furniture arrangement, more floor space through Wesix Automatic Electric Wireheat.

We'd like you to see how electric heating can really lower your building costs, improve home design, make any home more comfortable, easier to heat and *easier to sell*. Use this idea-packed book to explain modern heating systems to your customers and help them compare costs and advantages of all systems.

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390 First St., San Francisco, Calif.

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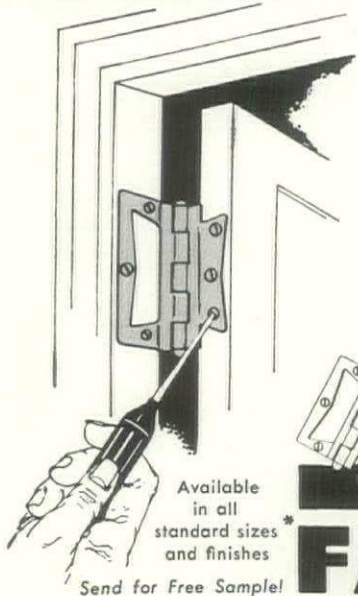
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Wireheat
AUTOMATIC Electric HEAT

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USE THE HINGE THAT "JUST SCREWS ON"!

Big builders everywhere are saving money on labor-time by using the revolutionary new Fasting hinges. No chiseling on door or jamb ever. Only a screw driver needed. No Mortising—Self aligning—Self gapping.



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with *Cabot's Stain Wax*

Enhance natural beauty of wood paneling simply and easily with Cabot's Stain Wax — a unique combination of rich penetrating stain with a soft, lustrous wax finish. Stains and waxes in one easy application, simply apply — wipe off the excess. Saves time, labor and money.

Add distinction with the new contemporary blond shades — Glacier Blue, Seashore Gray, Vermont Pine, Ivory, White or Natural. Cabot's Stain Wax also is available in traditional Maple, Mahogany, Walnut, Redwood.

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1. The ORIGINAL disappearing stairway—made for over 40 years.
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9. Treads and stringers are made of Sitka Spruce.
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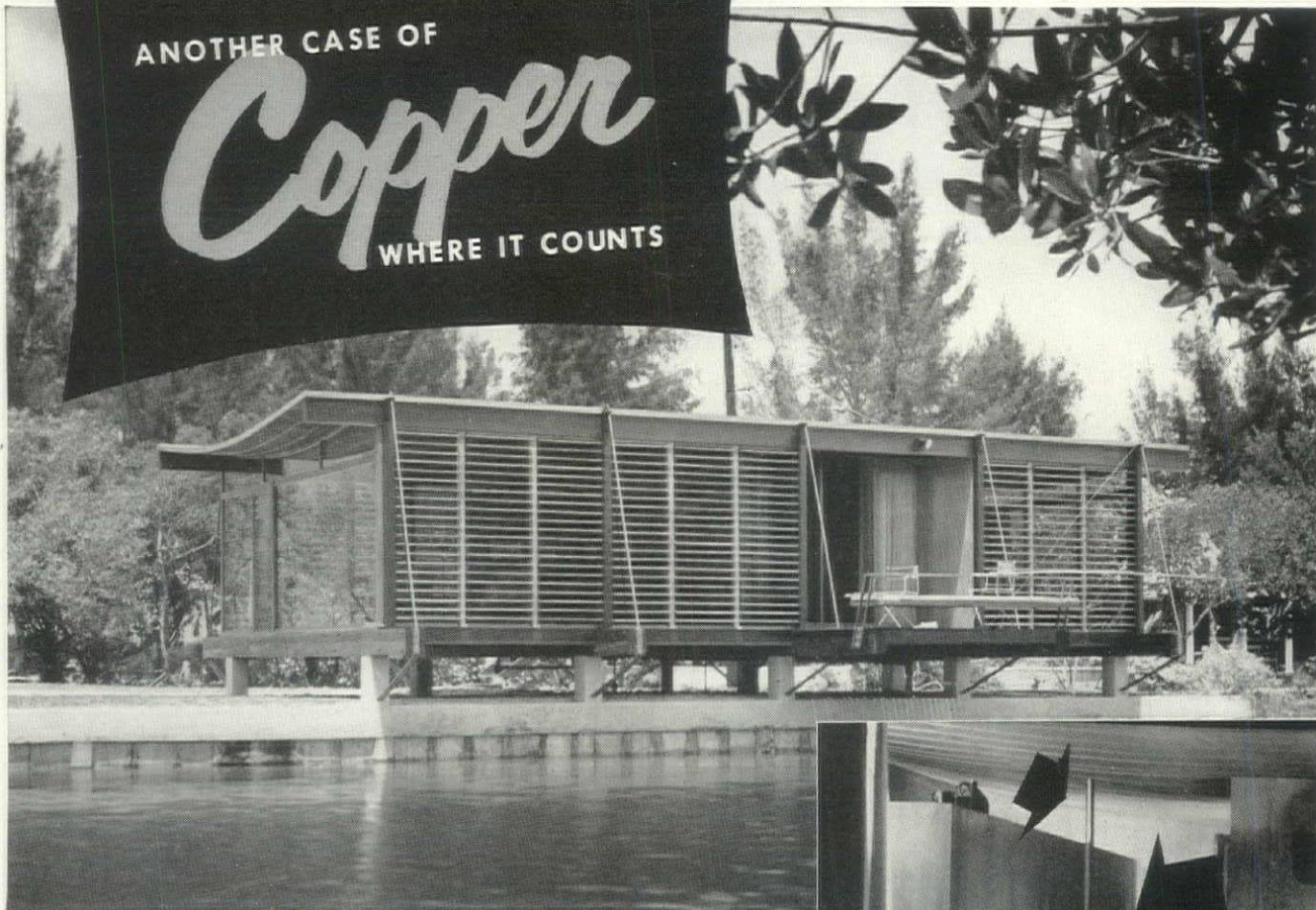
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SIESTA KEY, SARASOTA, FLA.

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WHERE IT COUNTS



Architect—RALPH S. TWITCHELL

Built by—ASSOCIATED BUILDERS, INC.

Plumbing Contractor—DAN O'NEILL, all of Sarasota, Fla.

Siesta Key is a beautiful place in which to live, but it's mighty rough on metals. Rustable metals don't last long here. That's why the architect didn't have to think twice when he specified 16 oz. Revere Copper for all flashing and Revere Copper Water Tube for all water lines and plumbing vents.

For Revere Copper is non-rusting . . . its ability to endure has been proved through the centuries. The plans of Ralph S. Twitchell called for a vent of 2" copper tube to run exposed from the sink up through the living room, thus taking advantage of the beauty of copper as a building material.

In connection with the water system, Mr. Twitchell writes, "In this locale a double piping system is necessary to limit use of soft water. Hose bibs and water closets are served direct from pressure pump at areator with hard well water. Still another thing that had to be taken into consideration in selecting copper for the water system, was that it had to be able to 'take' both soft and hard water equally well."

Now with restrictions on copper ended there isn't any reason why your next job can't have the many benefits of Revere Copper Water Tube for hot and cold water lines, radiant panel heating, underground service lines, processing lines, and waste lines and vent stacks. See the Revere Distributor nearest you today. And, if you have technical problems, he will put you in touch with Revere's Technical Advisory Service.



YOU'D NEVER DREAM the arrows in above photo are pointing at a 2" vent of Revere Copper Tube. This vent runs from the sink up through the living room and is as decorative as it is practical. It shows you what can be done with copper, courage and imagination. Why don't you imagine things with Copper next time you plan?

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48,000 pounding feet failed to mar this floor

—that's the beauty of **Higgins Block**^{*}
INC.



After the first three exhibit days, visitors to the LIFE-NAHB "Trade Secrets" House built by L. P. Smith in New Orleans found it hard to believe that the immaculate, gleaming floors of richly grained Higgins Block had already been walked on by 24,000 people—equal to years of average wear! Visitors were further impressed by this list of Higgins advantages:

* SPECIFICATIONS:

9" x 9" net face hardwood blocks—easy to install

3-ply cross-grain construction—when properly installed will not warp, buckle, cup or crack

Selected oak face—comes with final finish

Pressure bonded with marine-type glue—water-repellant, climate-proof

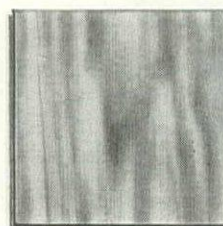
Deep-impregnated with famous new "Penta"—rot-proof, termite-proof

Grooved back anchors into adhesive—quiet and comfortable

Can be laid directly on concrete slab—without special preparation

Blocks fit flush—without large, visible V-grooves

Higgins BONDED HARDWOOD BLOCK FLOORING
INC. THE WORLD-FAMOUS BOAT BUILDERS



Use this coupon for free sample block and literature
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Gentlemen: Please send sample block and literature to

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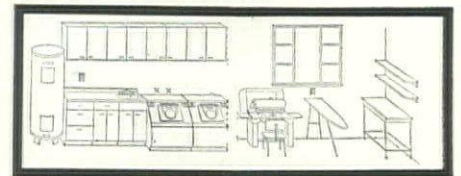
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TECHNICAL PUBLICATIONS

continued—

Fitting Wood Cabinet Into a Laundry Room

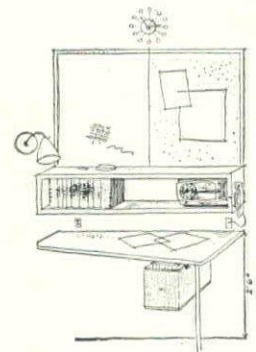


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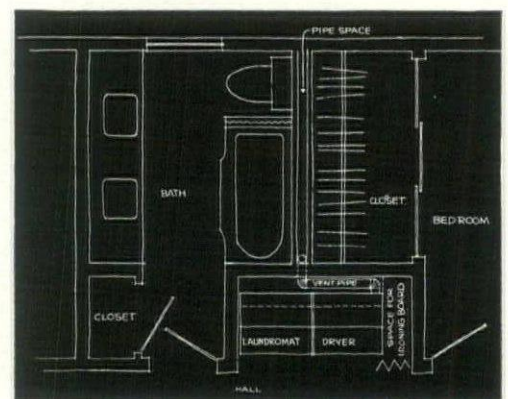
Laundry plan should assure smooth work flow

KITCHENS AND LAUNDRIES. Kitchen Laundry Design Ideas by Westinghouse, Publication B-5866. Better Homes Dept., Westinghouse Electric Corp., Box 868, Pittsburgh 30, Pa. 8" x 11". 50¢

How to design kitchens and laundries that are both attractive and sensible is the theme of this beautifully prepared reference manual. It uses an appealing format as framework for its hypothesis: "Rooms in which fixed equipment is installed—kitchen, laundry, utility room and bath—should receive as much thought and planning as rooms in which equipment and furnishings can be moved." It offers an intelligent basis for planning modern electrical kitchens and laundries which



take full advantage of space available as well as the equipment. The information is readily adaptable to rooms of varying dimensions where appliances may be installed on one, two or three walls. Many convenience ideas, sure to be appreciated by the prospective buyer, are included, as well as suggestions for proper lighting and adequate wiring.



Convenient to existing plumbing lines as well as to household activities is this off-the-bath-room location for the washer and drier.

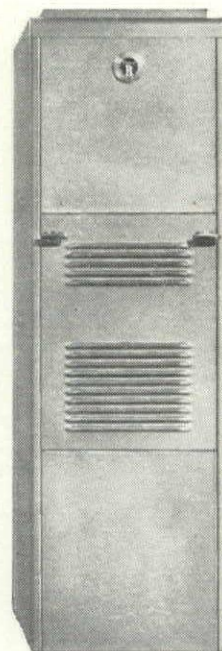
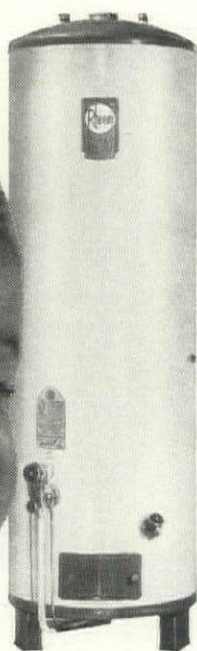
Tips on Selling Homes... remember — Baby is the Boss

Baby's hard to please when it comes to comfort. She must be warm, she must have hot water at her beck and call. But show the parents a Rheem Gas Furnace and Rheem Water Heater and they'll know baby will be pleased.

More than anything else, they want reliable heating equipment. If you tell them how all Rheem Furnaces are Fire-Tested at the factory—how all Rheem Water Heaters are Pres-

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Let your Rheem contractors tell you more about the house-selling help you get from Rheem equipment. Check with them today. They're listed in the Yellow Section of the Telephone Book under "Furnaces" and "Water Heaters". They can prove to you that Rheem is the best buy for builders.



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carry a 10-year
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Air Conditioners**

provide safe,
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heating—automatically.

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AFTER 117 YEARS' SERVICE

CAST IRON PIPE HOUSE SEWER LINE IS STILL IN PERFECT CONDITION

In the OLDEST house in Chicago, Illinois, the original 4-inch Cast Iron Soil pipe stack and the original 4-inch Cast Iron Soil pipe house sewer are still in perfect condition.

The house was built in 1836. While being renovated and restored recently by Chicago Historical Society for dedication as a public memorial, plumbers discovered that its Cast Iron Soil pipe stack and sewer lines were good as new after 117 years of service.

Cast Iron Pipe is the only material approved by ALL national, state and city building codes for drainage inside and outside of buildings.

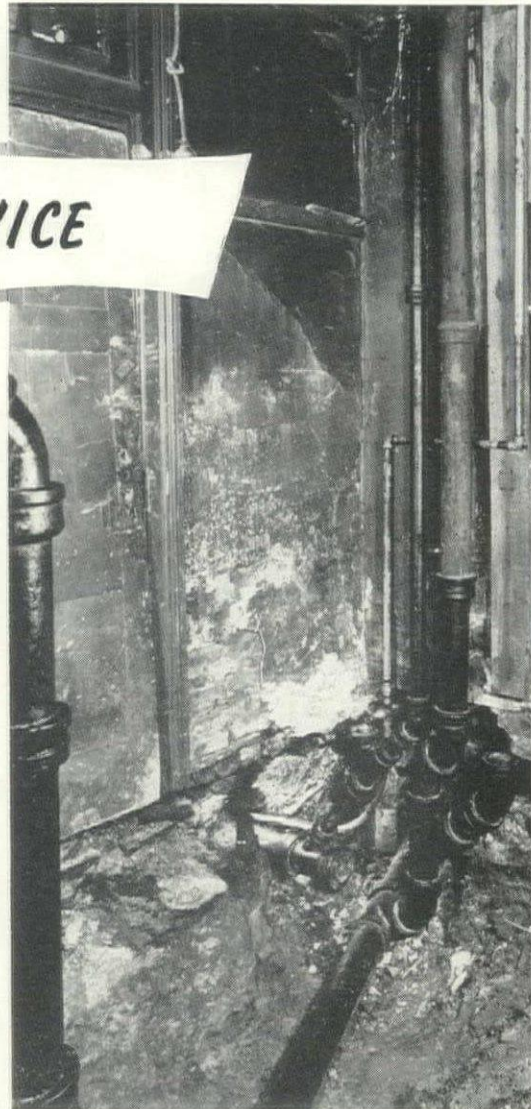
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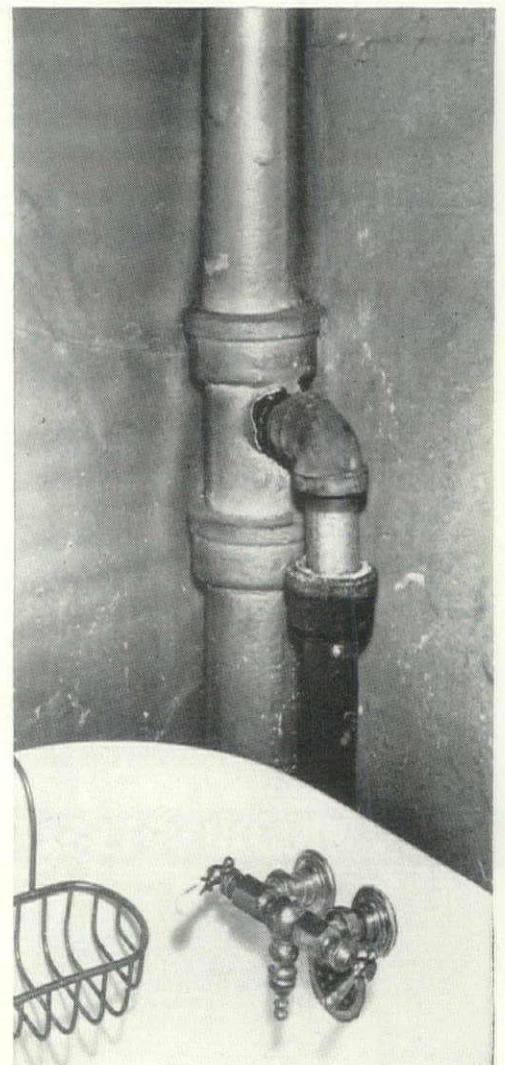
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Woodward Iron Company does not manufacture pipe, but we supply leading Cast Iron Pipe foundries with high grade foundry pig iron from which pipe is made.

WOODWARD IRON COMPANY
WOODWARD, ALABAMA



Above: Center of photo shows 117-year-old 4" Cast Iron sewer stack and new 2" Cast Iron sink stack. Left foreground is new 4" Cast Iron sewer stack. All connect to original Cast Iron house sewer laid in 1836.

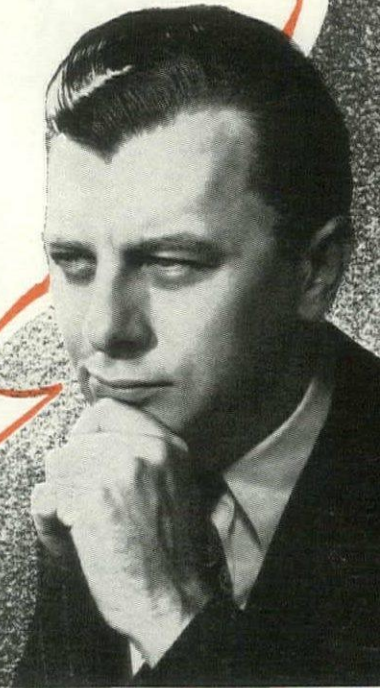


Right: 117-year-old Cast Iron sewer stack connected to new 2" Cast Iron stack. Present bathtub on legs replaced old copper tub with wood rim.

WHAT? You mean
MILCOR* Steel Access
 Doors can be installed
 for less than
 wooden doors?



You bet!
 And maintenance costs
 are lower, too!



No special framing to build! Milcor Access Doors require no special framing, no cutting or fitting. Three types available for use with plaster, masonry or wallboard.

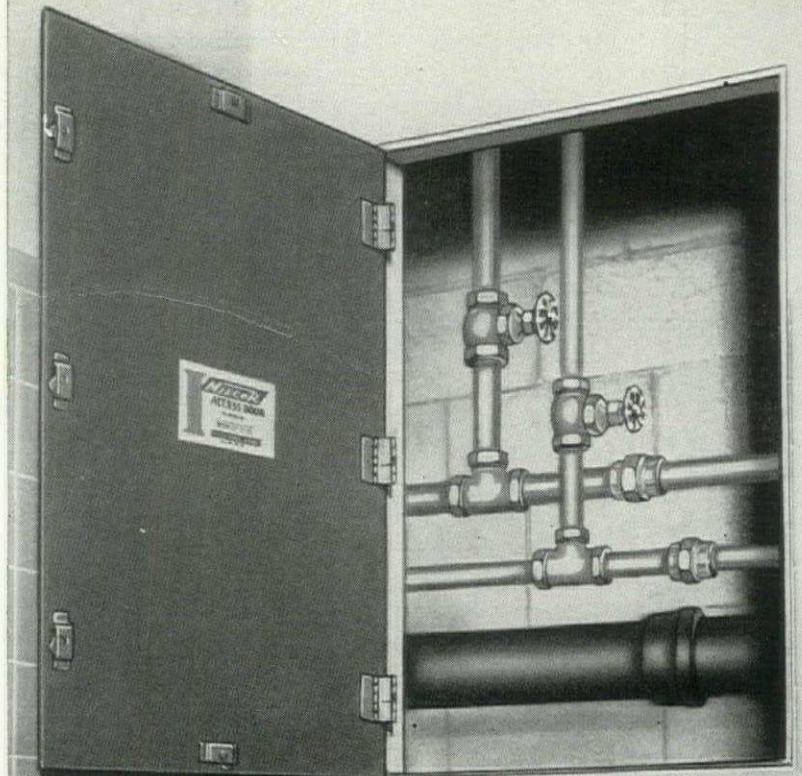
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11-125



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