house-home house

For complete contents, see p. 97

The split level On Long Island it outsells the ranch house four to one (p. 110);

across the country architects find ways to improve its design (p. 120)

Milwork—part II Polled by House & Home, architects and builders vote decisively

for the development of contemporary stock windows; progressive lumbermen begin to meet their need (p.140)

News Are mortgage bankers headed for extinction? MBA's vice-president fears they may be—

with private builders not far behind (p.134)

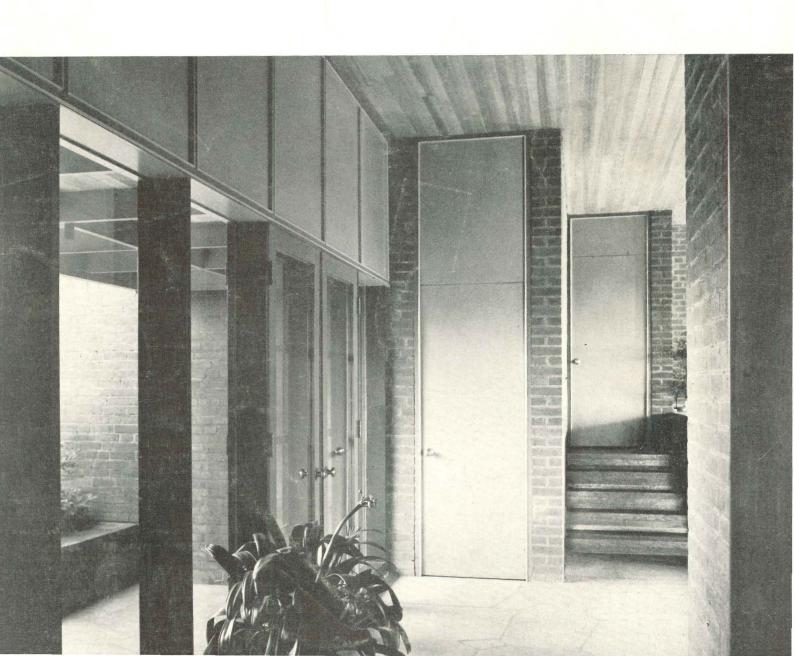
Builder house "If you want a modern house, you'd better live in California,"

says Connecticut VA, heavily penalizing contemporary builder house (p. 136)

John Yeon The apparent informality of his three latest houses

conceals some highly original thinking about detailing, siting, composition of rooflines

and the shaping of spaces (p.98 and below)





Have you ever seen a floor make a small room look so big? The colorful Jackstraws seem to push back walls and let in light. Every house-hunting couple is looking for extra large, airy rooms. You can convince them they've found their dream house in your house . . . with the help of "Jackstraw" in Gold Seal Inlaid Linoleum.

Look at the talking points it gives you! "Jackstraw" makes decorating easy . . . in every pattern there are four different colors to work with! It's practical, too . . . long wearing, grease resistant and easy to clean.

It's so resilient customers notice the comfort underfoot. Your have seen "Jackstraw" in national advertising—they know it. I you build, make your home easier to sell. Specify "Jackstraw Seal Inlaid Linoleum. You know it will be a success! By-th in 9" x 9" tiles it carries the famous Gold Seal guarantee of sa or your money back—your assurance of quality! Mail codetailed information . . . and for free Gold Seal sign model homes.

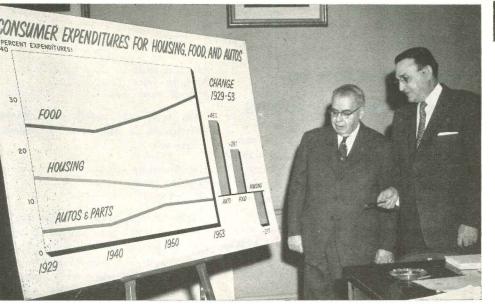


Floors and Walls

CONGOLEUM-NAIRN INC.

Kearny, N. J. © 1954

Builders' Service Dept., HH-4
Congoleum-Nairn Inc., Send me more inform
Kearny, N. J. Send me free Gold Seal
NAME
IRM
ADDRESS
CITY STATE.



ING'S SHARE of consumer expenditures, NAHB President Hughes (r) told Rep. Wolcott, ropped 21% from the 14.5% it got in 1929. Housing's '53 share was only 11.4%.

ousing bill hearings

- Homebuilders find themselves closer to CIO and AFL views than to the lending fraternity, which damns FNMA
- All sides criticize proposed FHA Sec. 221. Public housing (not in the bill) becomes the usual political football

lly, when Congress is considering a housing bill, labor groups and do-gooders get in corner and the groups that comprise the private building industry get in another for attle over what should be done. Last month, as the House and Senate banking comes held hearings on the 1954 Housing Bill, things were different.

range as it seemed, NAHB took a position closer to that of the CIO and AFL than by other segment of the private industry (except realtors). In the topsy-turvy alignboth labor and homebuilders seemed to agree that the streamlining of FHA pros, use of Federal National Mortgage Assn. as a tool for welfare financing and the ear \$200-down FHA Sec. 221 loans for slum displacees, were steps in the right tion. And builders, labor and realtors were in general alignment with public hous-

and advocating more and more government aid to housing. expected, almost everybody found some with the omnibus legislation, which d give federal housing aids their biggest e-up in a generation. Strange and not-soge alignments bobbed up (see chart ere They Stand" on next page). NAHB, EB, mortgage bankers, the CIO and Chamber of Commerce joined in opposing dential control over down payments and tization on FHA and VA loans. Their esmen pointed out that such power d whipsaw 40% of the new housing et under threat of political manipula-But almost everybody (except the vet-' lobby) agreed that flexible interest controlled by the executive branch were

Is too low? NAHB, labor unions and to housers agreed the administration's 1-on-a-year housing goal was too low to the nation's needs and begin to wipe out to the had different ideas of what the t should be. NAHB President R. G. "Hughes proposed 1.4 million new

est way to smooth the uneven flow of

and VA mortgage money that now

ies homebuilding.

homes a year for the next ten years (1 million homes "larger and better in design," 250,000 Title I, Sec. 8-type homes and 150,000 rental units under urban redevelopment programs). In addition, said Hughes, the nation must rehabilitate 600,000 housing units a year—250,000 through "trade-in" plans and 350,000 through local law enforcement drives. NAHB saw no need for any public housing.

The AFL and the National Housing Conference (public housing's biggest lobby group) called for 2 million new homes a year but including 200,000 public housing units. NHC President Ira S. Robbins foresaw the biggest housing need of all. Said he: "Even if we build 2 million units a year and rehabilitate 400,000 additional units each year, 5 million American families will still be using homes which were substandard in 1950 when 1970 arrives."

On the other hand, lenders as well as the US Chamber of Commerce wanted less instead of more government tinkering with the building economy, were opposed to most of the provisions of the bill. Troubling the bankers was

NEWS

the fear of "overbuilding." Warned the emissary from the American Bankers' Assn.: a government-supported secondary market "will tend to overstimulate building leading to the overproduction of residential properties."

The big issues. Not only was there sharp cleavage over the underlying philosophy of the bill, but the housing industry found itself thoroughly divided over many a specific proposal. The biggest issues: public housing (not even mentioned in the bill), the overhaul of Fanny May, FHA's proposed 40-year, \$200-down Sec. 221 for slum displacees, and flexible mortgage interest rates, down payments and amortization.

Labor and public housing groups, vexed at omission of their pet program, were not a bit mollified by assurances from Chairman Jesse Wolcott (R, Mich.) of the House banking committee that provision for 35,000 new public housing starts recommended by President Eisenhower could safely be left to the appropriations committee. House Democrats repeatedly accused the administration of not acting in good faith by this maneuver. Their point: if left to the unsympathetic appropriations committee, chances are there will be little or no public housing next year.

In the Senate, Minority Leader Burnet Maybank (D, S.C.) of the banking committee introduced an amendment to restore authority to build 135,000 public housing units a year. His aim: to repeal restrictions put on public housing last year in the appropriations bill. (Irrespective of what happens in Congress, prospects are that few more than \$35,000 federal public housing units will go up in fiscal 1954-55; advance planning has slowed too much to permit a bigger volume.)

Faint white hope? In supporting the proposed FHA Sec. 221—the GOP white hope for letting private enterprise move into the area now served by public housing—HHFAdministrator Albert M. Cole again admitted the plan was "frankly experimental." Recognizing that private lenders would not buy 40-year mortgages on riskier property at the same $4\frac{1}{2}\%$ interest they get for 30-year loans, Cole stressed the gimmicks by which the administration hopes to sweeten the loans enough to



LIFE INSURANCE plea to dump Fanny May, let insurance companies set up voluntary committee to steer loans into remote areas was made by Carrol M. Shanks (r), president of Prudential. He was accompanied by Milford A. Vieser (I), vice president of Mutual Benefit Life and John G. Jewett, Prudential Vice president.

Builders, HHFA rap 3% contribution to Fanny May; lenders balk at 40-year loans

compensate for that gap. Not only would FHA offer to take back Sec. 221 loans in good standing after 20 years in return for 10 year debentures. Cole also disclosed: "We are prepared to have FNMA agree in advance to buy any such loans from the lender upon default," thus giving lenders a cash settlement instead of government paper. Moreover, said Cole, FNMA will buy a "modest part" of any Sec. 221 loan when it is first made.

Despite such bait, Republicans and Democrats, public and private housers alike testified that Sec. 221 will not work the way it was written. Builders and realtors urged that the proposed \$7,000 cost limit be upped to \$7,600 (\$8,600 in high-cost areas) as proposed by the President's housing advisers. Labor and public housers predicted that a \$7,000 limit was far too low to permit a good house—especially

in cities where the need is greatest. Cole conceded that "we want to avoid tying it down to \$7,000 so completely that if the experiment doesn't work at this level we will be unable to change it. . . . It might be \$8,000 or \$8,600." Said Rep. Abraham J. Multer (D, N.Y.): "I have been asking builders all over the country if they could build a \$7,000 house. I have been unable to find one who thinks he can. The only thing they can build is tinderboxes which FHA would not insure."

As President Carrol Shanks of Prudential Insurance Co. saw it, life insurance companies will not buy Sec. 221 loans unless the term is sliced from 40 to 30 years, and more steps are taken to "guarantee the investor against loss at foreclosure." Shanks pointed out that a 40 year \$7,000 mortgage at $4\frac{1}{2}\%$ amortizes much slower than the property depreciates:

After	five	years													ė	8				
After	ten	years									•							٠		
After	20	years	٠		٠	٠	٠			٠		*	*	٠	٠				٠	

On a 30 year payoff, said Shanks, amortization is still slow, but "much acceptable":

After	five	years											٠			
After	ten	years								·				٠		
After	20	vears									ķ					

The difference in monthly carrying characteristics (for interest and amortization) is only (\$35.49 against \$31.50), he noted. On of that, a 40 year loan would cost the howner \$2,344 more in total interest; so all, a 40 year loan is "socially undesirable."

Voluntary committee. Shanks, the influential big mortgage lender to testify housing bill in years, poured his sharpes ticism on the proposed conversion of F May into a dual purpose vehicle (half no market operations, half Treasury-fine special assistance to selected programs).

WHERE THEY STAND ON HOUSING CHANGES: highspots of testimony before the House banking committee

The issues	NAHB	NAREB	МВА	US Savings & Loan League	Nat'l Retail Lumber Dealers
FNMA overhaul	Administration plan for normal facility "unworkable." Urged 2% instead of 3% capital contribution, permanent gov't control, authority to buy loars over \$12,500, continued one-forone plan.	Endorsed general idea, but urged authority to buy loans over \$12,500, limit on fees of ½%, power to issue debentures to 15 times its capital instead of 10, big boost in lending ceiling and other changes.	Want FNMA as suggested by President's committee. 3% contribution makes "normal" plan unworkable. Welfare operations could disrupt market.	Urged return to plan offered by President's advisory committee.	Proposed changes de not solve problem: fee plus 3% contribution is too much. Should be capital stock set up \$12,500 limit should be removed.
FHA Sec. 221 (40 years—— \$200 down)	Endorsed, but urged higher premium to cover greater risk, \$7,600 to \$8,600 ceiling instead of \$7,000 and deletion of restriction to displacees.	Endorsed, but urged \$7,600-\$8,600 mortgage limits.	Doubted it will be attractive to lenders. Unnecessary plan. Outright subsidy better.	Better than public housing, but unsound and workable only with costly gov't support.	No comment.
Public housing	Against it, but no comment at hearings.	Opposed.	In effect: no comment.	Opposed.	No comment.
Flexible mortgage terms and interest	No objection to Presidential control of interest, but strongly opposed flexible control for down payments, amortization.	Applauded flexible interest but urged power go to gov't committee, not President. Opposed flexible control for down payments, amortization because it creates market uncertainty.	Accepts flexible interest but opposed subjecting FHA-VA loans to political control, warned this will reduce their volume.	Opposed 30 year amortization, easier terms on old homes. Endorsed flexible interest, but would give control to committee, not President.	Opposed Presidentia discretion over down payments and amortiza tion, urged Congress to fix liberalized terms Approved flexible inter est set by President.
Urban renewal	US must build 1.4 million new houses a year, rehabilitate 600,000 to halt spread of slums. Endorsed administration aims generally, including FHA Sec. 220.	Approved, but urged federal aid hinge on "actual" not planned rehabilitation drives. Urged federal guarantee for local assessment bonds to finance renewal.	Complete endorsement.	Endorsed, Asked law to let S & Ls invest up to 10% of assets in land earmarked for homes. Urged cities act, not just plan, to qualify for aid.	Endorsed.
Open-end mortgage	No comment (not asked; NAHB supports idea).	Warm endorsement as big aid to rehabilita- tion, modernization and expansion of houses, but urged limitation to original amount of mort-	"Very useful device."	No comment,	Endorsed—"heartily."

gage.

NEWS

"It reflects a philosophy that housing must cept going at boom level regardless of the c market forces. . . . Through continued strengthened government propping of the sing industry, it will retard technological rovements in housing" and retard efforts to the cost of homes. "This program is on direct road to public control of housing home financing. . . . It is incompatible the free enterprise objective which has n been mentioned in the bill."

nstead of overhauling Fanny May, Shanks posed legislation to exempt insurance comies from antitrust prosecution to permit in to form a nationwide committee under FA direction to steer mortgage money for ote areas and small towns, and for minority sing. He suggested a National Voluntary stage Credit Extension Committee under irmanship of the HHFAdministrator, with chairman of the Federal Reserve and 14 resentatives named by HHFA to represent a type of financing institution, builders and tors. In New Jersey, where an "informal

committee" of this type already operates, Shanks pointed out, not a single direct VA mortgage loan has been made for "many years."



LUMBER DEALERS' spokesmen, H. R. Northup (r) and Hubert E. Else, wait Northup's turn to testify to House. Northup warned of uncertainty and instability in housing if down payments and amortization are left up to the President, urged higher service charges for remote area loans.

Biting Fanny May. Though he supported most of the proposed overhaul for Fanny May, even HHFAdministrator Cole objected to some features of the housing bill's proposals. He



US SAVINGS & LOAN League Spokesman M. K. M. Murphy called FHA reserves "dangerously inadequate," predicted over 1 million new homes this year "without any legislation at all." He said proposed Sec. 221 "amounts to virtually direct lending by government."

C of C	Life Insurance Assn.	American Bankers' Assn.	Nat'l Housing Conference	NAHRO	CIO
orsed flexible inter- y market aspect, but ose 3% stock re- ement. Opposed spe- aid program for MA.	Completely opposed. Instead, urged law to permit voluntary lenders committee to help make loans flow to remote areas and small towns.	"No need for gov't supported secondary market. FNMA will overstimulate housing."	Should make 40 year loans at 4½% for middle-income families. Should make 40 year, 3½% loans for low-income groups.	Not enough funds authorized for special aid program.	,
sound experiment."	Life companies will not buy many unless term is cut to 30 years and law lets investors trade defaulted mortgage for debentures at 99%.	Opposed.	Low-cost housing is good idea, but \$7,000 limit is too low to produce good homes, especially in cities where need is most.	Endorsed, but said \$7,000 maximum price won't work; urged ceiling of \$8,600 (\$10,000 in high-cost areas).	Won't work; \$7,000 house is too cheap to be good, should not be restricted to relocatees.
comment (were not ed). (Opposed be- se Senate.)	No comment,	No comment.	Demanded 200,000 units a year for the next 5 years "at least."	Urged end to limits on starts below 50,000 to 200,000 a year envisaged by 1949 Housing Act.	Urged full restoration of level permitted by 1949 Housing Act.
but opposed Presi- tial control over ma- ties and loan ratios ause permits politi- manipulation of VA FHA programs.	Endorsed both flexible interest and terms but opposed general easing of down payments and longer amortization.	Opposed to 30-year amortization. Approve flexible interest and fees.	Supported, except opposed longer amortization for old homes and "liberal credit for \$25,000-up homes."	No comment.	Objected to higher interest rates—flexible or not. Presidential control over maturities and loan ratios would slow output by causing uncertainty.
dorsed strongly.	Endorsed, including FHA Sec. 220.	Noncommittal.	Renewal is "no substitute" for redevelopment and public housing but supported boost for rehabilitation and FHA Scc. 220.	Endorsed objectives, but want federal aid not contingent on work- able renewal plans. Urged more concern over relocation.	Support rehabilitation but warn it will impede housing if "held up as major answer to slums."
lorsed.	No comment.	Opposed in principle. Claimed could lead to borrowing for consumer credit purposes.	No comment.	No comment.	No comment.

Announcing . . . a new builders' line of



CHRYSLER AIRTEMP

"PROJECT"

FURNACES

GIVES YOU the selling "plus" of all the prestige of the famous

CHRYSLER AIRTEMP name ... ECONOMICALLY!

The new Chrysler Airtemp "Project" Furnaces are engineered for teaming with Chrysler Airtemp Air-Cooled Air Conditioners to provide perfectly balanced Year 'Round Air Conditioning. This economical furnace, plus your big installation savings on Chrysler Airtemp Air-Cooled Cooling Units which require no plumbing, lets you build-in Year 'Round Air Conditioning at less cost to you and to your home buyers. And remember, Chrysler Airtemp Air-Cooled Air Conditioners take up no living area floor space whatsoever!

Less than a year ago Chrysler Airtemp introduced the most sensationally improved line of gas and oil-fired furnaces in the entire industry. And now you can have the same smart styling, the same compact, space-saving designs, the same advanced engineering features which assure more efficient and more economical heating—in these brand new Chrysler Airtemp Project Furnaces. They're priced for the volume user, for the project builder who wants a name people know and have confidence in—Chrysler Airtemp. Call your nearby Chrysler Airtemp Dealer (he's in the Yellow Pages) . . . or send coupon for complete details.

CHRYSLER AIRTEMP

HEATING • AIR CONDITIONING FOR HOMES, BUSINESS, INDUSTRY Airtemp Division, Chrysler Corporation, Dayton 1, Ohio



Airtemp Division of Chrysler Corporati P.O. Box 1037, Dayton 1, Ohio	on		Good Housekeeping	HH-4-
Please send complete details on Chrysle	r Airtemp "	'Project"	Furnaces.	
Name				
Address				

THE TRULY MODERN HOME IS AIR CONDITIONED

NEWS

ed the 3% capital contributions from anyy selling a mortgage to Fanny May's noroperation "so high" they may prevent it 1 functioning [just as most lenders would -ED.]. On the 3% point, Cole was backed builders, retail lumber dealers and even MBA (which also called the proposed are side of Fanny May operations a "finanbomb in the closet" ready to become an gine of inflation" like Fanny May of '49 '50). NAHB's Dick Hughes urged, among r things, a 2% capital contribution, perent government control of FNMA and nority for Fanny May to continue its oneone plan with its existing portfolio to avert ear's wait while a new portfolio is built up. the 3% fee is retained, will buyers have ay it? HHFA's Cole found himself-like s Bert King last year- insisting that a ice charge would "not necessarily" be sed back to buyers. Builders knew better. thes admitted the 3% (and other fees that ld raise the price of doing business with MA to $6\frac{1}{2}$ to 7%) would be thrust on ne buyers "if builders can figure a way."

objections. From VA's Bert King, the ise heard testimony out of harmony with administration housing theme, but typical he independent attitude VA usually takes ardless of what party runs the White ise. King, testifying without Budget eau approval of his remarks, attacked proposed formula to give the President retion to set VA and FHA interest rates to 21/2% above the going rate on governt longterm bonds. Instead, King agreed Democrats that 11/2% would be spread ugh. He also complained, as did veterans' yists, that giving the President power to ralize FHA terms as much as VA terms ld "dilute" veterans preference.

norted Rep. D. Bailey Merrill (R, Ind.), self a veteran: "I don't see why we should ship at the shrine of veterans' preference in all we are trying to do is give everybody etter deal."

wo important changes envisaged by the sing bill won general approval: 1) the concept of urban renewal to broaden FA's efforts to spur redevelopment, 2) the n-end mortgage. Only the arch-conserva-American Bankers' Assn. opposed the n-end mortgage. Committeemen indicated would pay little heed.

chairman Wolcott, anxious to hurry the legtion toward floor action lest it get lost in adjournment rush, asked scarcely a quesand frequently, in cloakroom huddles beding hearings, he would ask a witness to be his time by keeping testimony brief.

ven so, the hearings stumbled over exasting delays. One witness, NAREB's Fritz ns, flew from Hawaii to testify one Thursonly to find the session postponed because a Democratic caucus on the tax bill. (He nptly flew back to Los Angeles.) In all, 45 witnesses took a full three weeks to say a pieces to the House. The housing intry would be lucky to have a law by mid-

Homebuilding heads for a 1.2 million start year

After a dull fourth quarter, home sales took a spurt last month and spirits and production plans of the nation's builders rose together. Plentiful mortgage money meant lenders were agreeing to lower down payments and longer maturities. And that meant more customers.

After its annual survey of builders' intentions, House & Home's sister magazine, Fortune, predicts in its April issue that 1954 will see 1.2 million starts—the second greatest homebuilding year in history (still No. 1: 1950).

The general spring climate of optimism acknowledged, but was unfazed by, the fact that homes were continuing to get harder to sell. What had happened, said builders in such diverse spots as San Diego, Oklahoma City and Wichita, was that 1953's "mortgage recession" had shaken many a little (3-to 10-house-a-year) builder back into subcontracting or out of the housing field entirely. Profit margins might be shaved, and some builders were fretting over what the spring round of labor pay hikes would do to their costs. But the chance of a recession slowing housing seemed far away.

Air-conditioning benefits outlined in AGA survey

Air conditioning prevents headcolds, increases appetite, keeps the family together on hot nights and cuts recreation costs. More evidence of the fact that it's true what they say about cooling units (H&H, Mar. '54) appeared in a survey of 325 homeowners made by the American Gas Assn. The families lived in different parts of the country; 60% had at least one child; all had gas air conditioners, the majority a five-ton model.

The health question. Some 66% of the homeowners interviewed reported they had noticed a change in the general health of the family and about one-fifth of these said they had saved on doctors' bills and medicines:

Better	appetites a	and eating	habits	45%
Relief	from hay	fever		32%
Fewer	colds			23%
Health	and comfo	ort of baby	improved	15%
Relief	from asthi	ma		11%

Less house cleaning was mentioned as a benefit by 83% of the families. Some reported savings of from \$50 to \$250 a year.

About half the families interviewed reported they ate more meals at home and half of these said they consequently saved money. Of 71% reporting a change in recreation habits, 85% said they spent more evenings at home. Other trends:

Fewer week ends in the country	42%
Fewer air-conditioned movies	41%
Fewer trips to parks and pools	28%
More entertainment at home	. 19%

How cold is it? The survey pointed out that a thermostat setting of between 70 and 75° was favored by a majority (55%) of the

homeowners. Only 9% set the thermostat at 70° or lower; 34% at between 75 and 80° and 2% at over 80° .

A little over half the families had had to call in a repair man for something other than routine maintenance. Most of the troubles were easily taken care of; the knottiest arose from air distribution difficulties and water problems. There was no question, however, that the advantages outnumbered the spot objections. And 82% of the families thought air conditioning "substantially" increased the value of their homes.

Reni



HUMPHREY & HOLLYDAY—WITH CHECK

After 20 years, FHA pays last of debt to Treasury

"Outside of the Secretary of the Treasury and a few Texans," cracked FHA Commissioner Guy T. O. Hollyday, "most of us aren't used to these things." The thing: a pale green check for \$16,453,941.49 which Hollyday handed to Treasury Secretary George Humphrey last month, thus completing repayment of all the money advanced by the Treasury since 1934 to set up FHA programs. This amounted to \$65.5 million for operating capital and insurance funds, plus \$20.4 million interest at $2\frac{1}{4}\%$.

Since 1940, FHA has been a money maker for the government. Last fiscal year, it netted the Treasury a surplus of \$91.9 million; this year it is expected to make \$111 million after expenses of \$31.4 million. Now that the Treasury is repaid, FHA officials hope to persuade Congress to let them spend more of FHA's income (from premiums, fees and surplus invested in government bonds) to give better service, preferably in proportion to gross volume. As matters stand now, despite its huge profits, FHA is so understaffed it was recently six months behind in Washington at ruling on new building techniques and processes. The biggest loser from this is the public, deprived of new cost-cutting ideas. Milestone statistics: FHA has insured over \$30 billion of mortgages covering 3.3 million homes and 640,000 rental units. About \$17.5 billion of insured mortgages are still in force. scholz uia Contemporary



Eventually you will want to join the trend to contemporary design which has captured the imaginations of the nation's home buyers. Why wait?and let your competition garner your market.

In every craft, profession or business there's always one name that is outstanding . . . in the design and manufacture of contemporary homes, Scholz Homes are the acknowledged pace setters from coast to coast.

Why wait? . . . when Scholz Homes provide you with a complete package of unexcelled sales proven design, the simplest, most easily erected house you have ever built and at a price you can not begin to duplicate locally.

Shown below are but three of the many plans from \$10,000 to \$30,000

with which you can duplicate one of the famed sales record setting projects in your own community. Wire, write or phone. TODAY.

SALES REPRESENTATIVES

Scholz Homes is the fastest growing man facturer in a rapidly expanding industry fering unparalleled opportunity to men w can fit into our aggressive program.



YOUNG MODERN SERIES

1100 sq. ft. plus garage, \$13,000 price range (less lot). Translucent glass wall foyer, large kitchen with nook space, natural mahogany pass thru china cabinet between kitchen and dining room, spacious living room with expanse of floor to ceiling Thermopane opening to patio.





1200 sq. ft. plus garage, \$16,000 range (less lot). 3 bedrooms —2 baths, separate activities room, natural mahogany kitchen.



ROCKY RIVER SERIES



1584 sq.ft.plus garage, \$20,000 range (less lot). 3 bedrooms—2 baths, large recreation room, tremendous living room with panelled fireplace wall and dramatic solar window-wall.



sing subdivision restrictions throttle builders

- NAHB President Dick Hughes calls it No. 1 problem for homebuilding in the East, No. 2 worry elsewhere
- One proposed remedy: let FHA insure homes for temporary use as classrooms until towns can afford standard schools

enry Thoreau were planning to put up a cabin on Walden Pond today he would untedly run up against a minimum lot requirement and cesspool ordinance and would ably be ordered to lay down an asphalt path to his beach. Thoreau died before storm. The multifarious zoning and subdivision restrictions which have arisen since put the suburban builder in an economic squeeze.

ast month, homebuilders took the problem to Congress and asked for help. NAHB ident R. G. "Dick" Hughes told the House banking committee that more and more communities are "seeking to slow down and even to prohibit entirely further homeling" because they claim they cannot afford the schools and utilities to go with the population. "In the East," said Hughes, "this now ranks as the No. 1 problem for ebuilders." In the South and West, he put it slightly behind the continuing need more mortgage money.

the help Hughes sought was a minor adment to FHA's main program—Title II let it insure homes which builders a rent temporarily to impoverished school ds. "We think," said Hughes, "that the te does not forbid this, but the problem fficiently important to warrant a clarifymendment at this time."

spects: not this year. Although some gressmen showed immediate interest in cheme, Hughes knew as well as anybody that chances for getting it enacted this were slim. But by airing the idea now, lers raised their chances of prodding it agh Congress in 1955.

nder the NAHB plan, as developed by Vice President Nathan Manilow, a ler would form a nonprofit corporation to title to and lease the homes doing tempoduty in his project as classrooms. When easing population or the arrival of indusbehind his subdivision raises the bonding city of local school boards, Manilow ld have the board build a standard ol to replace the departitioned houses. would have any profit from the sale he house-schools go to the school dis-Said Manilow last month: "In my judgt, we cannot have continuing high volume omebuilding, no matter how liberal the icing tools available, unless we cure this lem. I know many builders who have ired land, done land planning, acquired icing and yet cannot proceed because is will not issue permits."

ablic and legislative opinion on zoning its application is split drastically. One tupon which almost all seem to agree the abstract, anyway) is that it should ounded on an over-all plan that will benefit and county and region over a period of des. Whatever its theoretical attributes rawbacks, however, one thing was sure: lmost all cases it ups the cost of homeling.

No more room. In simplified form, the increasingly severe enforcement of building restrictions has come about this way: towns which in the 1920s enjoyed an excess of raw land and were taking pains to attract new residents are no longer, in the face of burgeoning migrations from the city, feeling hospitable. They are leery of overcrowded schools and hospitals; traffic-snarled business districts; rundown residential fringes. Phrases like "the fastest growing little community in the county" have fallen into disfavor. Yet selectmen and taxpayers alike are all too aware of the fact that their town is not going to be able to make ends meet without increased revenues. Their choice, therefore, must be either to let in industry (over the oftentimes strenuous objections of residents who don't want to live with industry) or to let in only persons who will build large homes (over the objections of builders and customers who deal in and live in small houses). The industry vs. residential problem is made worse by dispute on the size of the homes.

Critics who say private building provides chiefly for the upper bracket market almost always ignore this grassroots pressure. But the fact is that builders are in the running so far primarily because they have been able to find customers for bigger homes.

Indications of what some builders were up against:

▶ Neil Ellis of East Hartford, Conn., planned last spring to put up 150 houses there to sell for \$11,000 apiece. In August the town boosted the necessary lot frontage from 60 to 75′ and the minimum lot area from 8,000 sq. ft. to a new high of 10,000. The consequently higher costs of curbs, sidewalks and utility installation — plus a stipulation that he lay down a 3″ bituminous concrete road—forced Ellis to eliminate 50 houses and to add \$1,000 to the price of the 100 he did build.

▶ Chicago Builder H. Morton Robbins planned a 320-unit suburban subdivision, meeting the suburb's requirement of 6,500 sq. ft. minimums. His plan was rejected, however, because although it met the local minimum lot requirement it did not meet specific measurements: a 55′ frontage and 125′ depth. Robbins lost 23 houses in revising the plan. He was also plagued with special specifications on curbs, roadways and catch basins. "I have no objection to sound zoning requirements," he said, "but many of these requirements are simply the whim of the village board. . . "

▶ In Illinois and Indiana, some 19 communities were requiring \$400 cash for a building permit. The money goes into a school fund. Others (reported NAHB President Hughes) were requiring homes which would produce

Hedrich-Blessing



A 'house with nine lives' will have national splurge

More than 100 builders have contracted to build this three-bedroom dwelling with nine lives, designed for "Better Homes & Gardens" for nationwide promotion next fall. The 1,415-sq. ft. home has a basic design that allows construction in nine different fashions. Three choices of roof, placement of car shelter and utilization of outdoor living area and indoor play space are

adaptable aspects. Designed by Architect Robert Little of Cleveland, the house—billed by the promoters as the "Home for All America"—is a follow-up to their "Readers' Choice" home of 1953, which was visited by 1 million people in 36 cities. This year's model will be featured in the September issue of HOUSE & HOME and "Better Homes & Gardens."

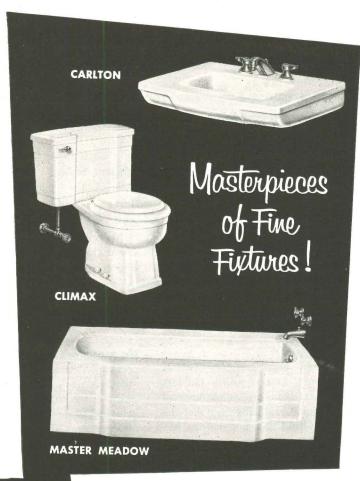
Put the biggest

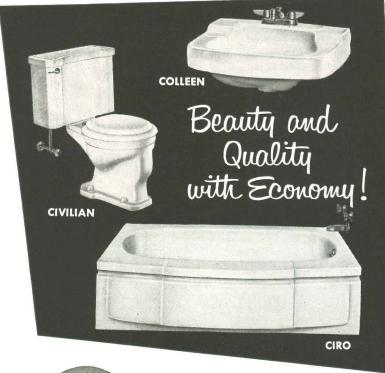
dollar values

in your bathrooms!

Prospects are looking for greater value in new homes these days—and you give them value they can see, with Universal-Rundle fixtures. They can see that U/R's Arctic White fixtures are the whitest made—can see the exceptional beauty of U/R matched colors. A comparison of the finish on U/R fixtures with other brands shows a quality difference that's easy to see. And that smooth, harder-than-steel U/R surface stays lovelier, year after year!

Your prospects recognize the U/R name, too—for they have seen U/R fixtures advertised as the world's finest, in their favorite national magazines.







Write for **Free** Catalog!



The World's Finest Bathroom Fixtures

by Universal Rundle

208 River Road, New Castle, Pennsylvania

Plants in Camden, New Jersey; Milwaukee, Wisconsin; New Castle, Pa.; Redlands, Calif.; San Antonio and Hondo, Texas

NEWS

10 taxes a year, on the theory that there ald be two children to a family, to be acated at \$200 each.

he Long Island Home Builders Institute is fighting proposed zoning changes in the ren of Huntington. These would up minim lot sizes from 5,000 and 7,500 sq. ft. to 000 sq. ft. and over in some areas. The ters' avowed aim: to slow homebuilding thus ease the need for more schools.

In Eastern builder had been searching for rear in Westchester County, N. Y., for 300 es of land on which to erect single-family uses at a density of about four houses to acre. His search had thus far proved itless because of zoning restrictions.

st comparison. The jump in the price of acre of land in Nassau County, Long Island, fore and after development, was charted a womenth ago by Walter Stackler, president the Long Island Home Builders Institute. Strof the unimproved land was \$6,000. Cost the developed land, after adding in 17 ms, the most expensive road paving for 225 and the cheapest an outline survey and eet signs for \$10 each: \$10,325. Stackler ured that in the particular project he had alyzed the builder could get about four-d-a-half units to an acre.

In Louisville, Clifford Knopf of Town & untry Homes, Inc., submitting a similar inparison based on increased paving costs was meeting in subdivision work, commented: "We're in the middle on this deal. The VA and FHA are pushing us down and a contractors are pushing us up. Every foot street, every extra plumbing fixture or see of sidewalk, pushes the price of that ished house up another notch. And every me I put into it has to come out of the down syment of the guy who buys the house."

San Diego echoed the high-cost-of-paving implaint. The city requires that the sub-rider, in most cases, put down 4" to 6" of composed granite mixed with cement, then sealer and 2" to 3" of asphalt over that. id T. J. Lords, president of San Diego ilding Co., "We know of many instances this city where 4" of asphalt, laid directly soil, have stood up in . . . excellent con-

should FHA insure development costs?

Confronted with a scarcity of improved lots in is own territory, William B. F. Hall of Ft. Wayne, president of the Prefabricated Home Manufacturers' Institute, offered an original olution: have FHA insure 10-year private loans for improving available subdivision land. Hall uggested loans up to 90% of the FHA-estimated replacement cost of the improvements—treets, sidewalks, utilities, etc. Interest would be not less than 4%. Hall's plan is supported by the Indiana Homebuilders Assn. and has been brought to the attention of Commissioner Guy Hollyday.

dition. The city's paving requirements increase the builder's costs nine cents a foot for paving alone." San Diego shows evidence of another trend in city planning: allowance for future growth adjacent to a new subdivision. One example is specification for extra-large water mains.

Florida still strong. Not all builders are opposed to zoning, nor does such regulation automatically work hardship on them. In Miami's Dade County, for example (which adheres to a 15-page zoning code) small-home developments are being built for between \$8 and \$9 a sq. ft. (of cost) and even for as low as \$6.40 a sq. ft. The builders were facing a new county regulation on land elevation, however, and a State Board of Health edict on sanitary sewers and disposal plants in filled areas. They figured they could go along with the elevation and the sewer cost-prorating the latter to subdivision houses at \$450-\$600 each-but they balked at building and operating disposal plants.

A basic approach to zoning has been expressed by Frederick T. Aschman, executive director of the City Plan Commission in Chicago, where zoning ordinances are being rewritten. Said Aschman: "Of course these things add to the construction costs. But so does our requirement that every home have a bathroom. Would any builder suggest we eliminate the bathroom? The ideal zoning ordinance is one that requires all builders to conform to the prudent, sensible and economic standards that far-sighted builders would conform to, anyway."

Little fellow out. One of the attention-getting varieties of zoning, the prudence of which has been questioned by a number of authorities, is so-called "snob zoning"-a system followed with increasing asperity by municipal authorities in New York City suburbs. It is the practice of going to great lengths to keep the low-income, small-house resident out of town. The procedure gives rise, of course, to an overall regional situation wherein relatively high income towns become more and more "separate" from relatively low-income towns. Setting up such rules against small houses "stretches the ethical concept," according to the late Arthur C. Comey, planning consultant, ". . . translates snobbish attitudes into law." Commented Gordon Whitenall of Los Angeles at last fall's meeting of the American Society of Planning Officials in Detroit: "It is merely adding extraneous details to our laws to the point where it earns the disgust of the people by trying to regulate every darn move they make.'

Some recent developments along this line:

The town of Bedminster, N. J., put an end to large-scale subdivision activity by adopting a minimum lot requirement of five acres. The ruling was taken to court and sustained.

The New Canaan (Conn.) Zoning Commission proposed to establish "designed residential districts," over which it would have complete power, especially with regard to limit-

ing the number of houses that could be built in any one year.

The Planning and Zoning Commission in Greenwich (still the wealthiest residential community in Connecticut) received a letter from Lewis S. Rosenstiel, chairman of the board of Schenley Industries, stating he wished the area in which he owns 1,260 acres be down-graded from a four-acre to a one-acre zone. Said Mr. Rosenstiel's counsel: "It is a furious and unfair restriction upon the owners of the property, substantially decreasing the value and use of their land...." Said the secretary of the Greenwich Commission: "He is entitled to stir this up and see what comes of it...."

The legal aspect. A builder sometimes can gain satisfaction by taking a zoning law to court. A notable decision was handed down in Connecticut's highest appeals court last month with a ruling that the town of Milford acted illegally in refusing to approve plans for a real estate subdivision on the ground it would put undue financial strain on the town for schools, fire and police protection. In the absence of any local law giving the planning commission power to reject a subdivision for such reasons, the court held, refusal to approve the development deprived the landowner of due process of law. (Reaction of Milford's planners: "All we can do is go ahead with the upgrading of the property to put it beyond the reach of the average developer.")

Criticism of restrictive zoning is only one side of the picture and is in itself neither a condemnation of all zoning nor a constructive overall approach to its proper use. Zoning has been responsible for supplying new developments with light, air, space and presumably a chance of being an attractive integral part of what goes up in the next several decades. The trouble with zoning-the trouble that hits builders, anyway-is the economic rub. "One of the hard facts of municipal finance is that residential property does not normally pay its own way," said Max Wehrly, executive director of the Urban Land Institute, recently. "Almost without exception, it costs a city more to service a home than it can collect from the home in property taxes."

The builders are therefore caught in the middle. They recognize the validity of zoning, but through a natural need to come out in the black themselves must fight certain aspects of it which add to their costs. The small-unit developer is in an especially ambivalent position. Zoning, in this respect, has become a roadblock to HHFAdministrator Cole's oftrepeated exhortation to builders to shift into the low-price market. The builders want to get into town and people want to buy houses there. But the towns feel that allowing them in threatens municipal solvency. The squeeze seemed likely to tighten, in face of the fact that with over 8 million units built since the war the supply of likely subdivision land was fading fast.

You and your prospects pay nothing extra for these

10 Quality Features!

No increase in cost for kitchen features like these? That's right! For with U/R "Easy Living" Kitchens, these features are yours at ordinary kitchen equipment prices. Check them over, and you'll see why "Easy Living" kitchen equipment is giving builders, architects and home buyers a new concept in kitchen value at regular prices.

These 10 quality points are convincing selling points which prove to your prospects that your homes offer solid quality—they're points which will help sell homes for you!



YOUR PROSPECTS RECOGNIZE "EASY LIVING" KITCHENS!

Your prospects are seeing dramatic, full color advertisements about "Easy Living" Kitchens in the magazines they read! These ads feature the 10-point quality test—your prospects recognize "Easy Living" quality!

Ask these 10 questions before you buy kitchen equipment!



1. Are there real partitioned compartments under the sink?



2. Is the garbage disposer both QUIET and FAST?



3. Do you have choice of steel or cast iron cabinet sinks?



4. Do the cabinets have strong, trouble-free hinges concealed from the outside?



5. Do cabinets and sinks have no-snag, deeprounded corners?



6. Can you choose any type, color, and pattern of counter?



7. Are the wall and base cabinets Bonderized and are shelves completely adjustable and removable?



8. Do the wall cabinets have double bottoms for rigidity and beauty?



9. Are doors and drawers insulated and sound-proofed?



10. Do drawers operate silently and easily?

Get complete information on U/R "Easy Living" Kitchens! Write Universal-Rundle Corporation, 231 River Road, New Castle, Pa.



Cabinets of steel for lasting appeal Easy Living Kitchens
by Universal Rundle

UNIVERSAL-RUNDLE CORPORATION, NEW CASTLE, PENNSYLVANIA
MAKERS OF THE WORLD'S FINEST BATHROOM FIXTURES



OUSING STATISTICS:

Building materials prices drop again; plywood down to \$80 but upswing is seen

summer, the price of building materials began to slide. The drop broken by a slight upturn in December, but it picked up moum again in February. BLS wholesale price index for building rials dipped to 119.2—down from the December-January level 19.6 (see chart). Officials blamed the decline chiefly on price eases in southern pine lumber and building wire and cable. There small declines in prices of other soft woods and oak flooring.

ywood prices-not yet reflected in official statistics-suffered a ral price break last month. The generally-accepted \$85 per M t. for Douglas fir AD index grade 1/4" sank to \$80 (a year ago it \$90). Increased production at new plants, plus reluctance on part of buyers, were the chief causes. The softwood lumber maron the other hand, was firming up as buyers sought quick shipwhile production was at its seasonal low in the West. Mills were ng from \$65 to \$68 MBF on rush orders of No. 2 and better nsion, although the market for normal shipment was \$62 to \$64. natever the decline, the effect on the price of shelter in the nation d be slow in coming. BLS figures put the index for housing at nd of '53 at 118.9, a new high and comparable with a consumer's index then of 114.9. (Base used is period, 1947-49.) This estitakes into consideration rent, utilities and the purchase price omes. It was up from 116.4 in Dec., '52. The index for residenent-also at a new high-was 127.6 in December, up from 120.7 ear before.

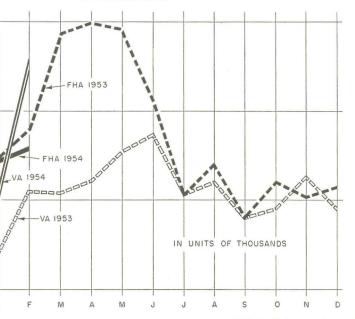
RTGAGE LENDING ACTIVITY

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

		S&L assns.	Ins.	Comm.	Mutual savings banks	All	TOTAL
У	1952	404	124	267	79	423	1,298
У	1953	476	111	278	92	441	1,400
У	1954	467	108	263	85	449	1,372
e,	'53 to '54:	-1.9	-2.7	-5.4	-7.6	+1.8	-2.0

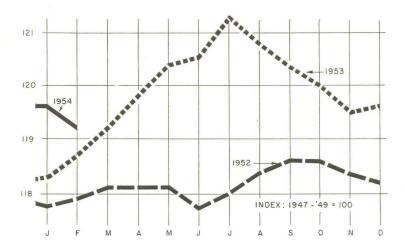
Source: Federal Home Loan Bank Board

AND VA APPLICATIONS



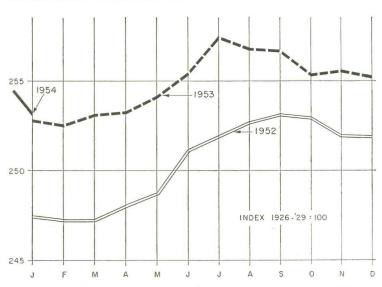
VA appraisal requests in February jumped to 34,943—75% over January and the highest month on record. Principal cause: easier mortgage money (see p. 47). FHA insurance applications for new dwelling units rose slightly, to 25,703.

MATERIALS PRICES



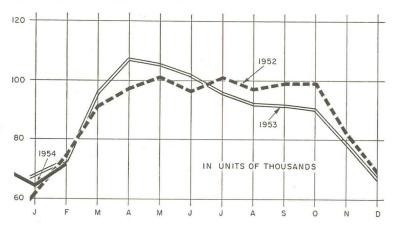
Average wholesale building materials prices calculated by BLS edged down in February to 119.2, well under a revised figure for January of 119.6. The move broke a two-month stalemate (the revised January figure was exactly that for Dec. '53). By all indications the index would undercut last year's level in March or April.

RESIDENTIAL BUILDING COSTS



E. H. Boeckh & Associates' index of residential building costs dropped 0.8% in January to 253.1, down from 255.2 in December. The move brought the index close to 1953's low for the year (in February).

PRIVATE HOUSING STARTS

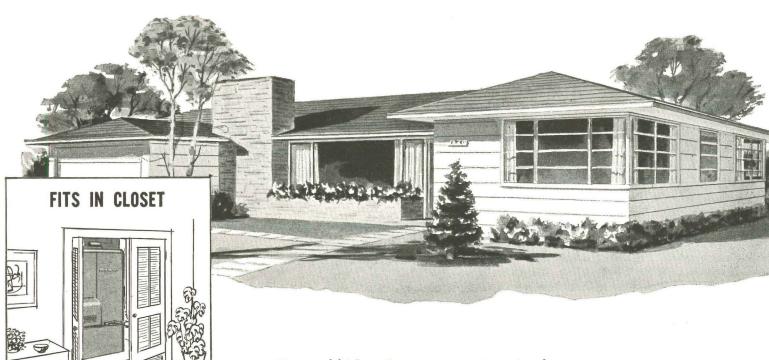


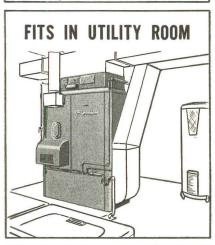
Private nonfarm dwelling units started in February totaled 71,800, the first upturn after nine months of decline. First two months' total for '54 was 136,500, only 5,500 behind 142,000 for the same period in '53, according to BLS estimates.

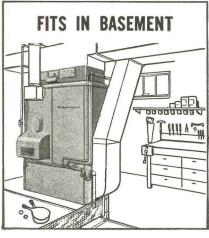
EXTRA COMPACT YEAR ROUND FRIGIDAIRE CONDITIONER

... provides both heating and cooling in a

single unit no larger than many furnaces alone!





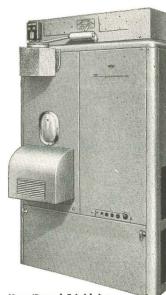


Now add "One Temperature Home" sales appeal to any building plan you have

Imagine . . . a year 'round conditioner so compactly constructed, it can be installed even in a closet! Frigidaire brings you this marvel of engineering, a low-cost packaged combination cooling-heating plant that offers you the potent selling advantage of a "One Temperature Home"! And coupled with the appeal of automatic heating and summer cooling is Frigidaire's matchless reputation for quality, performance and dependability.

The Year 'Round Frigidaire Conditioner is specially designed to fit compact present day building plans. It is so simple to install this single combination unit that installation costs are pared to a bare minimum. Further savings are made possible by its adaptability. It fits handily in a closet or utility room of the ranch-type house so popular today, eliminating the extra cost of a specially built enclosure. Even when installed in a basement, its small space requirements free a larger area for recreation or other building plans.

Available with choice of oil or gas fired heating units. Cooling power is supplied by Frigidaire's famous precision-built XD Meter-Miser Compressor, warranted for 5 years. Cushioned blower assures quiet operation. Large, efficient air filter screens out dirt, dust and pollen.



Year 'Round Frigidaire
Conditioner — 46" wide, 25" deep at
76" high. Voltage — 230, 60 cycle,
Phase; or 220, 60 cycle, Three Phase
For complete details see the Frig
catalog in Sweet's File, or call your l
aire Air Conditioning Dealer—of
Frigidaire Distributor or Factory Frigidaire Distributor or Factory Frigidaire Serves your area. Or write: Frig
Dayton 1, Ohio. In Canada, Toron
Ontario.



BUILT AND BACKED BY GENERAL MOTORS

NEWS

EOPLE: Curt Mack quits FHA to head mortgage firm; Jim Lash fired as San Francisco redevelopment chief

the replicant fle of brillians that the replicant is

nan whom the rank and file of builders from Washington often regarded as FHA" resigned last month. Curt C. 56, assistant commissioner in charge of writing since 1944 and FHA staffer for

cars before that, left ecome president of S. L. Hammerman dization, Inc., Baltimortgage and propmanagement firm correspondent for Life. Mack's dere was the top move shakeup of key executives (see) being engineered



MACK

commissioner Guy Hollyday—partly on wn motion and partly at the behest of epublican National Committee.

ck started in real estate in his home of St. Louis in 1919, operated his own any for a while and gained a variety of ience in the realty field. He was vice lent of Lawyers Title Co. of Missouri, d with the HOLC and RFC for a time, ed widely and gave realty courses. He th these hard-working, peripatetic habits IA, set a new record for getting out of ome office to meet FHA men, builders lenders in the field. He was a good talker so that he rarely said more he meant to, although his apparent ness sometimes made former HHFA and Chief Ray Foley uneasy when Mack in public. This talent enabled him to n a jovial and pithy court of appeal uilders with valuation problems while e same time he exerted a cautious (and parent) resistance against being pushed er than he wanted to go.

ck is primarily an appraiser and mortman; he felt FHA should lag a bit in ting new methods and techniques. There nose who think he went too far in fightear-guard actions and that he made FHA rigid than necessary. In any case, his nce was large, because after 1944 he FHA's technical and land planning ons under his wing in addition to underg (observers think the two divisions soon be cut apart again). Mack's ders—and there are legions of them that it took an artful dodger like him ep FHA out of hot water, that FHA d a firm underwriting hand to level off artime build-or-bust program and that had it. Without him, the 608 program well be in more trouble today than it ot even the grapevine had any reliable who his successor might be-or when.

10re Mortgage Banker James W. Rouse 4 other associates bought out Partner Hunter Moss' interest in Moss-Rouse Co., purchased the mortgage department of Piper and Hill and christened the new firm James W. Rouse & Co. Moss, retaining the appraising end of the old company, will be a director of the new firm.

As expected, Wallace Moir, vice president of the Mortgage Bankers Assn., is due for nomination this month to succeed William A. Clarke as president next year. For vice president, indications were that MBA's choice would be Lindell Peterson, president of Chicago Mortgage Investment Co. Peterson is a past president of the Chicago MBA—the largest local association of the organization—and has been an important man in the educational program on the national level. He received MBA's distinguished service award last year for his work heading up the educational program.

His political bosses finally got rid of James Lash, San Francisco's redevelopment director, on March 2. The action "set the city's redevelopment program back five years," according to one official, touched off protests from at least seven reputable civic and professional organizations, directed renewed animosity toward Mayor Elmer Robinson and brought the redevelopment agency-on the technical side -to a state near impotency. The public servants who fired Lash-he had been director of the agency since it was set up in 1948were four out of five of its members: Paul T. O'Dowd, a private detective; Lawrence Palacios, a laundry union official; Optometrist J. J. Hayes, and Attorney Fitz-Gerald Ames. James Stratten, recreation worker, voted against the ouster. He had defended Lash at name-calling meetings earlier in the year: "I think he's done a difficult job well. And how can a man do a good job when all the time he's being threatened and harassed by members of this agency?"

Aside from ordinary harassment, O'Dowd's big move was to announce that Lash had withheld a memo from FHA estimating what the agency might expect from proposed sale of land cleared for its \$50 million Western Addition Redevelopment. The estimate was \$1.8 million less than what the city's real estate department had figured. Lash said it was a tentative report and subject to change. O'Dowd, after calling him a liar at a February meeting, presented his charge to agency members at a closed-door meeting and Lash was fired, 4-to-1, in 15 minutes.

Three technical staffers of the agency—the chief planner and two assistant planners—resigned in protest. Public statements protesting the firing came from the Real Estate Board, the Chamber of Commerce, the Junior

Chamber of Commerce, the northern California chapter of AIA, the Planning and Housing Association, the board of supervisors (San Francisco's governing body) and the League of Women Voters. The supervisors invited the Redevelopment Agency to attend a meeting and explain. The agency refused and the supervisors were told by the city attorney that they did not have a legal right to pursue the matter further. But a county grand jury was considering the case. Mayor Robinson, meantime, who has repeatedly named friends and family to staff jobs in the agency, named Robert J. Dolan to fill Lash's place. Dolan, chief assistant clerk of the board of supervisors, is a trained lawyer but has no housing experience at all. The mayor also explained that the firing of Lash was really none of his affair. The San Francisco Chronicle disagreed. "The mayor," said an editorial, "has joined in a work of sabotage. . . . "

Further turnover in HHFA and FHA personnel was led by the resignation of Jacob L. Crane, assistant to the administrator in charge

of the international housing staff. Crane, who has been in federal housing jobs since 1938. will return to private engineering practice in Washington. His resignation was seen by Washington observers as indication that the international program might be in line for



CRANE

liquidation or transfer to Harold Stassen's Foreign Operations Administration in line with recommendations of the President's housing policy committee. Until a successor is named, Crane's second in command, B. Douglas Stone, was to be in charge.

Other changes: Edmund B. Chapman Jr., FHA director in Kansas, was named assistant to Commissioner Hollyday to replace Edgar McIntosh, who resigned to enter the insurance field (H&H, March, '54, News). Spencer Finney will succeed Chapman; A. Harry Kendall was named FHA director for New Hampshire, to fill a position left vacant by the death of William F. Baker; Berry Vaughan was named director of the FHA insuring office in Lubbock, Texas, succeeding J. F. Matchett; Hardy A. Sullivan was appointed director of the insuring office in Tampa while his predecessor, William F. Keehan, became assistant director of the office; Virgil P. Reimer was named director of FHA's insuring office in Juneau, Alaska.

Heartened by previous court successes (H&H, Aug. '53 News, et seq.) Los Angeles Designer Cliff May and his associate, Architect Chris Choate, filed a \$500,000 damage suit in federal district court against another group of alleged infringers. Principal defendants: Los Angeles Architect William M. Bray, AIA, Builders William Curlett and Jay C. Beesemyer



9 houses sold in 12 hours!

Opening day crowd of 10,000 swarms through Memphis' first Carrier air conditioned Weathermaker Homes

"Carrier is several years ahead in the field of residential air conditioning," Builder Kemmons Wilson says. "We know because we made a thorough investigation of seven nationally known brands before deciding on the Carrier Weathermaker. The public was enthusiastic!"

They started coming at 9 that brisk December morning; they were still coming right up to 9 that night. In the hours between, Builder Kemmons Wilson sold 9 homes at \$17,500 to \$18,600.

What did the buyers get for their money? Four bedrooms, two full baths, a separate dining room and 100% Carrier air conditioning. That's value enough, but they got more! Let the brochure tell the story:

"The Weathermaker Home is a house built around air conditioning. Because it is built around air conditioning, it has freed the architects and builders from old-fashioned barriers to good design. The Weathermaker Home is built from the inside out, a house that lets people live the way they want to, a house that begins with comfortable space and no restrictions."

That was the idea and Architects William W. Bond and Robert J. Adams really put it to work. The four floor plans they designed are actually planned around people. They have a "mother-in-law" plan with

two separate bedroom wings, a "keep room" house with a combination d dining room, a "large family" plan!

Add to the essential value of these hou the seasoned promotional touch provided by Carrier public relations experts, of you should know why Carrier air contioned houses sell! Or to put it anot way, Carrier air conditioning sells hou ... so why not let it help you sell you Mail the coupon or see Sweet's Catal Light Construction File, 7c.

air conditioning refrigeration industrial heating



CARRIER CORPORATION, 313 S. Geddes Street, Syracuse, New Y I want my next houses to be Carrier air conditioned Weathermaker Hor

Name	
Street	
City	State

l two Curlett and Beesemyer construction d sales corporations developing a project own as Bristol Manor in Santa Ana. The aplaint claimed that after Curlett and esemyer were denied a license to erect y houses last spring because the territory eady was allocated to another man, the builders "surreptitiously and systematily appropriated [May & Choate] . . . inectual productions" and retained Bray to by them. May & Choate sought temporary d permanent injunctions against use of eir ideas in Bristol Manor houses; \$250,000 ual damages; \$250,000 for exemplary and nitive damages; copyright infringement gment of not less than \$250; surrender of pied" drawings and costs.

Replied Curlett, on behalf of all defendants: . We have not reproduced in any manner ff May's so-called ranch house homes." He d the group was preparing a counter claim, ended "to carry this fight through as an lividual example so that this practice [of nging lawsuits] will not spread."

efing up its urban redevelopment division, IFA hired a new deputy director—the nan's second most important redevelopment st. He is Richard Lewis Steiner, who has been ector of the Baltimore Redevelopment Com-



gineering graduate with an MA in city planning from MIT, Steiner was a public housing project planner from 1938 until World War II, from which he emerged a Navy lieutenant commander. Some rehabilita-

mission since it was cre-

ated in 1946. A Yale en-

tion experts, remember-Steiner as a foot-dragger during the early s of the Baltimore Plan for slum repair, ped his confinement to public housing and evelopment would not obscure his broad w of urban renewal — the new antislum

in E. McGovern, director of the old-guard A office in Los Angeles—one of the three gest in the country-announced he would re, effective June 18. He had been direcsince 1943, weathered a number of things, luding an onslaught by frustrated archits three years ago declaring the Los geles office a prizewinner among stick-in--muds. No successor had yet been named.

v. Goodwin Knight of California appointed tate board of landscape architects to reguthe profession. (California is the first e to enact a law providing for licensing landscape architects; after July 1 applits will be required to take a written examtion.) Named: Raymond E. Page of Bevy Hills; George C. Huntington of South adena; Lynn M. F. Harriss of Oakland; ry W. Shepherd of Berkeley and Jack W. ns of Los Angeles.

Easier money market brings flood of funds for GI loans; premiums reappear in NY

"Last month I had to go out to the Midwest to call on my correspondents. Since 1949 they have always come to call on me." That comment, by a New York City insurance company loan officer, reflected the big change in the mortgage market as spring came.

Last April, homebuilders and lenders were beseeching the administration to ease the drought in funds for FHA and VA mortgages by raising VA 4% and FHA 41/4% interest rates. They finally were boosted to $4\frac{1}{2}\%$ on May 2. This spring, the shoe was on the other foot. Many lenders were beginning to accumulate funds faster than they could invest them, were growing concerned with the prospect of paying premiums for mortgages and the possibility the FHA and VA rates might break below 4½%. Signs of steadily easing mortgage credit:

▶ Builders in more and more areas could get 100% GI mortgages with 25 and 30 year amortization. Former MBA President Milton T. MacDonald told a New York meeting that Metropolitan Life was taking 100% 25-year

Appraisal requests to VA covering new and proposed dwelling units jumped to 34,943 in February, the highest monthly figure on record (p. 43).

From coast to coast, the prices builders received for FHA and VA mortgages were moving closer to par or better (see table). New York City lenders were wooing local Long Island builders. One lender paid a tract builder a 1% premium for his mortgages, and no commission to anyone. (In Boston, some high-grade conventional mortgage loans were bringing only $4\frac{1}{4}\%$.)

A number of insurance companies were selling government bonds to buy mortgages while they still could get them at attractive terms. Such dumping had been uncommon since the Treasury-Federal Reserve accord unpegged government bonds three years ago last month.

Minor signs: in Cleveland, Equitable Life agents were distributing letters to homeowners inviting them to refinance their mortgages on easier terms. In Wichita, Kan., the Union National Bank started a salesmen's training program so it could launch a doorbell ringing campaign to find new credit outlets

Unemployed money. What caused the rising tide of money was a drop in new capital financing requirements without any marked decrease in the rate of new savings and repayments that had to be re-invested. Although new bonds of all types offered publicly in January and February totaled \$1.4 billion, compared with \$1.3 a year earlier, new stock issues were only \$67 million, compared with \$159 million for a year ago. At the same time, assets of insurance companies rose to \$5.2 billion in January, a 7.1% gain over January 1953; deposits in mutual savings banks were \$1.7 million, or 7.7% more than a year earlier.

Under the circumstances, why did the Treasury not renew its efforts to spread the national debt over a greater maturity with a new long-term bond issue which would soak up the surplus credit? Answer: it refrained on the advice of the President's Council of Economic Advisers, which felt that as long as a recession threatened it was better to keep financing easy to stimulate job-producing investments. As money grew cheaper, mortgage yields grew more and more tempting.

Booming VA business. Around New York City and Philadelphia, mortgagemen told House & Home editors of many a VA

MORTGAGE MARKET QUOTATIONS

(Originations quoted at net cost, secondary market sales quoted with servicing by seller.)

	FHA	41/2's	VA4	1/2's	FHA 41/4's	VA 4's	
City	Originations	Secondary	Originations	Secondary	Secondary	Secondary	
Boston: local	par-101	a	par-101	a	a	a	
Out-of-state	a	97-981/2	а	97-981/2	a	95	
Chicago	96-971/2	98-99	96-971/2	98-99	а	a	
Denver	971/2-par	971/2-par	971/2-par	971/2-par	a	a	
Detroit	963/4	a	973/4	a	а	a	
Houston	98-par	98-par	97-99	97-99	a	95	
Kansas City	961/2-971/2	98-99	961/2-971/2	98-99	а	а	
New York-New Jers	sey par	99	par	99	97 ^b	94	
Philadelphia	98-par	98-par	98-par	98-par	a	a	
Portland, Ore.*	971/2-99	971/2-99	971/2-99	971/2-99	а	a	
San Francisco	par	par	98-par	98-par	98	96	

^{*} 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.; De-

J Halperin & Co.; Philadelphia, Robert Irving, exec. vice pres., W. A. Clarke Mortgage Co.; Portland, Frankin W. White, pres., Securities, Inc.; San Francisco, William Marcus, senior vice pres., American Trust Co.

b Servicing released by originator to purchasing bank.

troit, Robert H. Pease, pres., Detroit Mortgage & Realty Co.; Houston, Donald S. McGregor, exec. vice pres., T. J. Bettes Co.; Kansas City, By-ron T. Shutz, pres., Herbert V. Jones & Co.; New York, John Halperin,

4½% loan for 30 years with no cash or as little as 5% down. As the tide of funds spread south and west, Miami, Houston, Denver and Portland, Ore., also reported 25- and 30-year veterans loans without any down payments. In Chicago, Kansas City, and San Francisco 5% to 10% cash GI loans were common. Items:

Southeast Florida's first project since 1950 with 100% GI loans was Myrtle Grove, a tract of 1,100 three-bedroom houses from \$9,400 to \$11,000 started last month by the Rood Construction Corp. of Miami. Qualified vets could buy these houses, plus any or all of nine nationally-advertised electrical appliances, on 30-year, nothing-down terms.

In Portland, Ore., Builders Douglas Lowell and Ed McClellan planned to open their McKel Homes project on March 14, offering 126 three-bedroom \$10,000 houses modeled on a Stern-Price development at Cupertino, Calif. All a veteran needed, on a 30-year 100% mortgage, was \$125 for closing costs. A week before they could show the model, 110 of the houses were sold. With insurance companies rushing back into the Portland GI market, some after an absence of three years, the local VA office was having its greatest boom. Nine builders had 497 GI houses under construction last month, 11 others proposed to build another 909. GI lenders included the John Hancock, Sun, and the Penn, Pacific Mutual and Northwestern Mutual life insurance companies. Builders were paying discounts of 1%, compared with 5% last year.

As they shoveled out cash, lenders winced at the terms. At an MBA conference in Chicago, Second Vice President R. Manning Brown revealed New York Life Insurance Co.'s experience with small equity VA mortgages: "During 1953 we foreclosed 69 VA loans and 61 of these had been made with no down payment. As of January 1 this year 93% of our VA loans that were delinquent were loans made with less than 5% down payment!"

Help for small towns. Two plans were under study to help get more mortgage funds into small communities where there were no tract developments and too little business to attract big secondary lenders.

One, proposed by the President's advisory committee on housing policy, called for changes in FHA and VA rules "to permit... participations in individual mortgages" by more than one lender. Under this plan a small community bank could handle negotiations and servicing on a mortgage, but sell most of it to a larger institution that would get the full FHA or VA interest rate but save on purchasing or servicing expenses.

The other, proposed by the American Life Convention and the Life Insurance Assn. of America, would create a committee to give special aid to any person who claimed he was unable to obtain an FHA or VA mortgage from at least two local lending institutions (see p. 34).

SIDELIGHTS

Washington inside

Biggest undercover fight of the month revolved around the administration's closely held plans to reorganize HHFA. In one draft of the reorganization (which will be subject to Congressional veto but not to amendment), the Home Loan Bank Board retained its semi-autonomous status under the top housing agency, but FHA was put under command control of the HHFA boss. Upshot: seriously ruffled feelings at FHA. Knowledgeable sources are divided over whether the White House will send the HHFA reorganization to Congress before the housing bill becomes law. Delay gives the administration more leverage in persuading industry groups to agree to its propositions.

Better fix-up statistics

Plans were afoot in Washington for the Bureau of Labor Statistics and Commerce Dept. to submit a \$900,000 supplemental budget request to the Budget Bureau to let them repair weak spots in the nation's construction statistics. Commerce would get \$600,000 to better its reporting of state and local public works and hire the Census Bureau to check on the home fix-up market—a notable gap in building figures. BLS would use \$300,000 to improve its reports on industrial and commercial starts.

Half-throttle for repair loans

If revisions in Title I repair loans proposed in the 1954 Housing Bill become law, FHA intends to impose lower loan limits than the law allows. FHA Commissioner Guy Hollyday told the New York Mortgage and Real Estate Forum that the changes will not boom repair of homes "the way people think they will." Increased maximums from \$2,500 to \$3,000 are "not too important," he said, because the average loan is only about \$500 to \$600. But Hollyday said extension of the payoff period from three to five years "in some respects may be a little dangerous." Said the commissioner: "We'll have to have limits. Should we say that no loans under \$2,000 can have a five year payoff? Or should it be \$1,000?" In loans for repairing multiple family dwellings (the bill would permit \$1,500 per family for ten years with no limit on the number of families), Hollyday declared that a \$30,000 loan "ought to be as far as we should go." He also suggested a 2½% fee for appraising and originating costs.

Air-conditioned jail

It will, announced Servel air conditioning men proudly, be "cooler in the cooler" this summer at Olney, Ill. Air conditioning for the new municipal building will include the three-cell lockup.

Building code for TV

Now that the US has more television s than bathtubs, building officials are casti eyes on ways of bringing TV under their r ulation. Managing Secretary Hal Colling the Pacific Coast Building Officials Conf



ence reported an "instent demand" from members for an anten ordinance. One alreadopted by Longvie Wash.—and viewed wome favor by PCBO bigwigs—requires progrety owners to get a permit and pay an spection fee even if the put up their own wire

On top of that, there is a \$1 reinspection if the electrical inspector has to return

Government safety experts, checked House & Home, reported no record of addents arising from television antennae, exceptor a few falls from rooftops. "Unless some body can develop a background to show need for regulation," said one authority, "proposal looks needless."

Popcorn board?

First there was plywood, then bear board, gypsum board, and recently, both made from wood chips. Last month, Step F. Reed, 34, president of Reed search Inc. of Washington, D.C. polaimed the invention of a building both fashioned from wheat. To make it, said, whole wheat kernels are puffed 20 times their original size, coated ut resins and other chemicals for weath proofing and then compressed under he to various thicknesses. The process, Readmitted, is not yet fully perfected

Antitrust trial for plasterers

In a seven-to-two decision, the Supreme Coruled that monopoly charges against plaster and lathers unions and employer groups in Chicago area were subject to the Shern Antitrust Act. The decision—which did bear on whether or not the parties were gu—slapped down a dismissal ruling by a Cago district court. The Chicago court held that lathers and plasterers were not gaged in interstate commerce and theref were not under federal anti-trust law jurise tion (AF, Dec. '53, News).

The Justice Dept. accused the unions a associations of suppressing competition in Chicago area, resulting in "an unlawful a unreasonable restraint" on the flow of lath and plastering materials from other states Chicago. The effect of the Supreme Codecision will be to send the cases to tragain.



Imperial .

Twin Pedestal — Kneehole Vanity Sizes: 66", 72", 84" Sink Available: Left or Right. Also with two sinks



Special

Single Pedestal Vanity
Size: 27''
Available: Left or Right Hand

Bathroom Glamour at Builder Prices!

,..THE MOST WANTED LINE OF FORMICA VANITY-SINK CABINETS

See how much more Vanity Fair has to offer...in its gleaming, colorful beauty...in its lifetime construction...in its sensible, down-to-earth cost...in its practical, functional styles...in its ample surface room, generous storage compartments and flowing, rounded lines. Three stunning models, nine decorator colors with matching Formica mirror-front medicine chests.

Vanity Fair combines the beauty, color and utility of genuine, beauty-bonded



with desirable designs for every bathroom and every budget.

Available with or without sink and fittings.



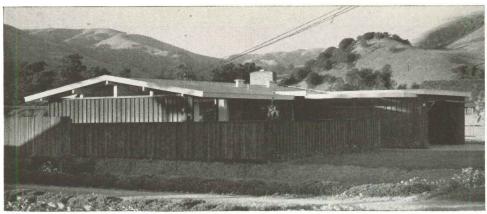
De Luxe

Single Pedestal Vanity with Drawer Sizes: 36", 42", 48", 54", 60" Available: Left or Right Hand

National VANITY CO.

(DIVISION OF NATIONAL DOOR CO.)

Write for full color brochure and prices
165 Avenue A, Bayonne, N. J. • HEmlock 6-8200





FENCES FOR PRIVACY AND AN EXTRA PATIO FOR PLAY ARE FEATURES OF BUILDER DAN BODILY'S \$12,950 THREE-BEDROOM HOUSE AT NILES, CA

BUILDERS AT WORK:

Two-patio house for \$12,950

Last summer, Builder Dan Bodily put up 18 "preplanned-for-merchandising" houses at Niles, Calif., near the fast growing commercialindustrial complex along the southeast shore of San Francisco Bay. Architect Herbert T. Johnson designed him a three-bedroom, 11/2bath house (see cut) with an open floor plan, large glass areas and clerestory windows. On 7,200 sq. ft. lots, each house had two patios, one off the living room, the other on the opposite side of the house as an extra play area. Landscape Architects Eckbo, Royston & Williams gave each house an individual garden, front lawn, at least one tree, and a rustic fence for privacy. Price, including lot, was \$12,950 -\$3,250 cash, and an FHA mortgage. All 18 were sold in two weeks, and another 100 would-be GI purchasers were turned away. With financing for 95% VA mortgages lined up for his 1954 construction, Bodily expected to start another 155 houses of similar style this month in Niles. Price: from \$12,500-15,000, including an extra family room.

New twists for Homes Parades

Milwaukee's Parade of Homes was creating an unusual cooperative by-product this year: a 200-acre master development of more than 500 houses and apartments, a shopping center and a school site. Because of high costs and scarcity of good development land, the Milwaukee Builders' Assn. bought a 160-acre tract when it selected its Parade site (later enlarged it with an adjoining 40 acres). The acreage not required for the 50 exhibit houses in the Parade was sold on a nonprofit basis to 45 different members for subdevelopments of \$13-25,000 homes and more than 200 garden apartments and duplex rental houses. Eight builders have started their individual projects, and the entire development, identified collectively as the Milwaukee Builders' Assn. Wildwood Estates, will be completed in about a year. The Parade was advanced from Sept. to Aug. 8-15, to allow a longer post-Parade selling season. A design committee will review plans for all houses and assign them to the lots they must

be built on, to avoid getting houses of incongruous style or size too near each other.

Houston's Home Builders also recognized the after-problem arising from high and low cost houses built near each other for Parade exhibition purposes, but dealt with it another way. This year they will divide their show into four separate sections, in different weeks and different locations. Tentatively, \$7-10,000 houses will be paraded the week starting Sunday, Sept. 19; the following week \$10-15,000 homes; the third week houses priced \$15-20,000, and then a fourth and final parade the following week for dwellings costing over \$20,000.

Price appeal reveals prospects

"There are simply one awful lot of buyers who are still hiding, and a really low-priced house seems to flush them out." Such was the conclusion of Fort Wayne Builder Ralph Shirmeyer, after he had advertised National Homes's \$6,000 Cadet. After his first ad he received 150 calls, and 100 prospects left their names and addresses. Of these, six promptly ordered \$7,325 Pacemaker models by National. "Instead of hurting medium-priced sales," said Shirmeyer, "the low-priced Cadet actually boosted this market."

House on stilts

In Olympia Fields, just south of Chicago, Telander Bros. Inc. was building an "upsidedown expandable" house designed by Architects George Fred Keck and his brother William (see cut). The open-plan upper level had three bedrooms in an area of 1,470 sq. ft. It was designed around a utility core consisting of a skylighted kitchen and two baths. This core was directly over a ground-level utility room housing heating plant, laundry and a third toilet.

The Kecks estimated the flat-roofed house would cost about \$28,000, excluding land, because it contained many custom features. They doubted FHA would approve it, especially with its interior kitchen, and did not plan to seek FHA or VA financing. Main advantage of the stilts, they said, was flexibility for fu-

ture expansion. By closing in the ground the owner could get a garage, recreation study or extra bedroom. In fact, the had a slightly smaller model on the di boards for a real estate man, who intenfinish the ground level for his office.

\$35 million Philadelphia jo

An 85-acre estate in fashionable Cl Hill, a northwestern Philadelphia subur sold by Temple University last mont syndicate headed by Mayer I. Blum, in ation with Peoples Bond & Mortgas The buyers planned a \$35 million resi and shopping-center development includences of large single-family houses on o and one-third acre lots, 46 two-story apartments and six high-rise apartment

San Diego keeps on growin

In San Diego, Builders Louis Burgen Carlos Tavares trimmed sail to avoid extension and to strengthen their fin position. From their big Clairemont where more than 5,600 homes have go since San Diego's 9,000-unit defense h program was launched (H&H, Nov. '52 sold 2,500 lots to the Aldon Construction Del E. Webb Construction Companies Aldon-Webb combine said it will bui million of \$13,000-\$19,000 nondefense and a 50-acre, \$5 million shopping centhe property. They were already parts building a \$20 million community for t Manuel Copper Co. near Tucson, Ariz.

Burgener and Tavares said they retain unspecified "interest" in the two Aldor Clairement projects, and also would conther operations of their own there, included the description of their own there, included the same description.

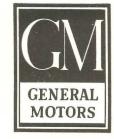
continued o

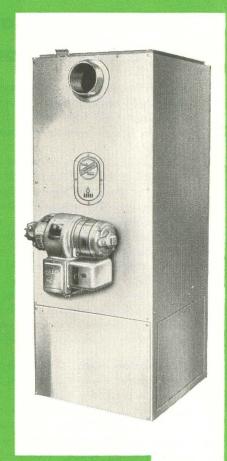


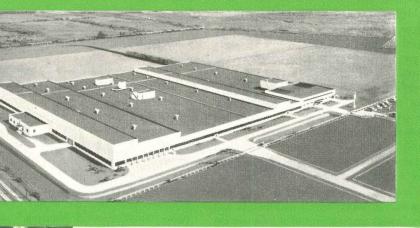
KECKS'S UPSIDE-DOWN EXPANDABLE HO

uilders eat

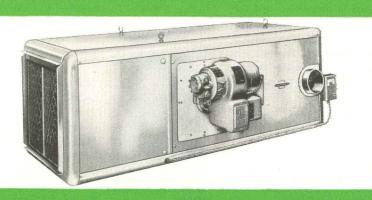
y !











ew horizontal Delco-Heat unit C 75Z—for space-saving installaad from overhead joists or support crawl space. Capacity 75,000 Btu per hour output. 72½" long by 25" square. Delco coordinated controls and stainless steel Quik-Action Heat Transmitter for better combustion and cleaner flame.

New, compact oil fired "builder model" offers new low prices for project sales! Value leader Model OBC 75H is a Conditionair package unit with 75,000 Btu output. Designed for space-saving installation. Features exclusive Delco wrap-around design, steel cabinet and Circle-Air Radiator that adds extra heating surface—improves efficiency. Other Delco features are Quik-Action stainless steel combustion chamber, Delco-Heat Pressure Oil Burner powered by vibration-free Rigidframe Motor, Centrifugal Blower and replaceable air filter. Low models, and reverse flow models for perimeter heating also available.



Sensational new 90,000 Btu addition to Delco-Heat line of gas fired Conditionairs—Model GBC 90H. Compact, only 25"x25"x67", to meet today's building needs. AGA approved for minimum clearance closet and alcove installations. Low and counterflow gas Conditionairs also available.

Delco Heat

For a good deal-deal with Delco!

Lack a complete line of automatic oil and gas fired conversion burners; Conditionair forced warm air furnaces, heating, cooling units; boilers; water heaters; electric water systems.

hold sites for apartments, a medical-dental center, a motel, eight service stations, and an area suitable for about 500 \$15,000-\$25,000 homes where they will build for individual buyers or sell sites to other builders.

Nonwhite housing started

With a pledge for financing from the Mellon Bank, the Home Builders Assn. of Metropolitan Pittsburgh launched a program to build houses for the city's nonwhite market. President A. M. Rearick and eight other HBA members formed Private Housing, Inc., a nonprofit organization, and put up \$100,000 to begin building at least 25 this year. Houses will sell for \$11-15,000 on regular FHA Sec. 203 mortgages, said Rearick, who also heads the new building organization. No specific financing amount was promised by the Mellon Bank, he added, but it was understood it would underwrite 200 or 300 houses. It may not be necessary to depend entirely on the bank for financing, said Rearick. Additional funds were provided for some of the first units by Housing Mortgage Corp. Other HBA members in the program: Theodore A. Rauch, C. F. McWilliams, Calvin D. Crawford, Roland Catarinella, Russel P. Miller, Franklin B. Wimer, Stephen E. Kovach Jr. and Harold Sampson.

In Indianapolis, Barrington Manor, a 500unit rental apartment project for Negroes, was under construction with first units scheduled for completion next month. The first section of 21 two-story frame buildings costing about \$1.2 million will contain 168 two-bedroom units averaging 673 sq. ft. each. Rent: \$64 to \$66 a month including refrigerator, water and automatic gas heat. To produce greater floor space, Engineer Paul Cripe designed the units with enclosed exterior stairs. Leo A. Lippman's L & L Building Corp. was erecting the project with permanent financing on an FHA Sec. 207 mortgage to be sold to Fanny May.

Pulse of the market

Charles Associates, Inc. of Cincinnati bought a 40-acre tract owned by Bucknell University in South Alexandria, Va., just outside Washington, and planned a group of 130 houses in the \$17-22,000 range. . . . Chicago Homebuilder Ben Sears bought a 200-acre tract in Skokie for 523 houses in the \$21-25,000 range being designed by Architect Peter Ziroli. . . . Reginald T. Watson's Gulf Construction organization was ready to start building 450 four-bedroom houses in Westwood Village, Massapequa, L.I. Watson sold the first section of 256 at \$12,490 each in one week last October, put the remaining 194 on sale in February. . . . Westchester County's Carnoy-Wolter Construction Corp. bought 150 acres in Mt. Marion, N.Y. for a shopping center and a 600-house project for workers at a new IBM plant nearby. . . . In Parma, rapidly growing Cleveland suburb, Builders H. L. Miller and T. Robert Trebbe started 25 semicustom-built contemporary houses at \$26,000 and up, de signed by Architects Robert A. Little & Associates and Clyde A. Patterson Jr.

House appropriations committee votes mo tax breaks for owners selling their homes

In 1951 Congress eased income taxes on home owners who sold their houses at a profit: it exempted the profit from taxation if it is reinvested in another house up to a year before or after the sale.

Last month, the ways and means committee, in reporting the 1954 tax revision bill to the House, recommended more tax breaks along the same line. The new proposals could help homebuilders arranging trade-in sales. They might be useful also in rehabilitation projects. The committee proposed that any profits of a home seller that were taxable could be reduced by 1) the commission paid to sell the house, and 2) fix-up expenses for making the house salable, including painting, papering and landscaping, if incurred with in 90 days before and paid within 30 days after the sale.

Subdivision rules. The committee urged two other tax changes that might help small homebuilders and some realtors. One would guarantee capital gains privileges, rather than regular income tax rates, when a tract owner, except a dealer in real estate, subdivides a tract by selling no more than five lots a year, and, unless he had acquired it by inheritance, had held the tract at least five years without making any substantial improvements on it.

The other change would let a real estate dealer pay only capital gains taxes on investment property he held for his own account, provided: 1) he listed it with Internal Revenue as an investment purchase within 30 days of taking title (within 90 days after the bill becomes law on property already held), and 2) he held it at least five years without making any major improvements. In this case, however, 5% of the profits would still be taxed at full income tax rates, on the theory the dealer would probably be his own broker and thus save about that amount of a business expense on commissions.

Setback for some areas. The change would be a boon in many Internal Revenue districts. Usually, revenue men have held that realty brokers are subject to ordinary income tax on profits from sale of properties held for their own account. Because their main business is real estate, their properties are classed as merchandise, not investments. But in more liberal districts like New York, where it was easier for a real estate man to satisfy federal agents that a genuine investment is involved and that his main business was not "trading" in real estate as a principal, the proposed change would raise havoc.

Henry Waltemade of the Bronx, chairman of the Realtors' Washington Committee-NAREB's lobbying arm-said he had no idea why the House committee added the "discriminatory" five-year holding provision (compared with six months under ordinary conditions). Another New York realtor said it was incomprehensible why the committee wanted to "put a premium on preventing construction provements, or rehabilitation," espec when so many city properties were all run down because rent control had le deferred maintenance. Waltemade ha asked Congress for a chance to testify ag the restrictions.

Paint contractors study h to fight do-it-yourself tre

How to fight the do-it-yourself movemen the main concern of 600 delegates to the national convention of the Painting & rating Contractors of America in Los An

One problem was that paint contra were caught in something of a vicious of Outgoing President Richard H. Bohl of umbus, Ohio, said the shortage of jou man painters was a big spur to the do-itself trend. Buffalo Contractor Gordon M added that do-it-yourself growth made harder and harder to recruit apprentices now replace only about 20% of retiring dying painters). Lamented McKay: ' can we get young men to spend three learning to be a painter when they read cles which claim to tell them all they no know to be experts-in not over five mi reading time?"

For antidotes PDCA: 1) issued a new sumer booklet, "Let an Expert Do It," stresses the superiority of professional and the pitfalls that may be avoided by ploying the "know how," competence ar pertness of the skilled contractor, an helped organize the Joint Paint Industr ordinating Committee to "promote the ests of PDCA, the National Paint, Varr Lacquer Assn. and the Retail Paint & paper Distributors of America." Adver by paint makers that disparaged contri is now declining, said Bohl, and the joint mittee is studying ways to boost busine all three groups without touching d among them.

Treasurer William Gelfan, head of W Gelfan & Son of Los Angeles, was elected president of PDCA. The association of

Kings Photo Service



more than 10,000 bers, most of them home painting and rating field, but ma gaged for mainte work on industria commercial struc Harry Helzer of enne was elected of the four vice presi succeeding John Burns of Portland.

who became treasurer. The three othe presidents, all re-elected, were: Geor Steinheimer, Omaha; John M. Cody, Na N.H. and Ray N. Elvart, Chicago.

house+home

April, 1954

Published by TIME Incorporated

EDITOR-IN-CHIEF PRESIDENT EDITORIAL DIRECTOR Henry R. Luce Roy E. Larsen John Shaw Billings

HOUSE & HOME

EDITOR AND PUBLISHER

P. I. Prentice

EDITORIAL CHAIRMAN

Douglas Haskell, AIA

MANAGING EDITORS

Suzanne Gleaves Joseph C. Hazen Jr.

EXECUTIVE EDITOR

Carl Norcross

ART DIRECTORS

Paul Grotz

Madelaine Thatcher

ASSOCIATES: Edward Birkner, Peter Blake, Gurney Breckenfeld, James P. Gallagher, Marilyn Grayboff, Jane Jacobs, Barney Lefferts, Mary Jane Lightbown, Walte McQuade, Vernon Read, Richard Saunders (Washington), Ogden Tanner, Stephen G. Thompson, Arthur Watkins.

ASSISTANTS: Rosalind Klein Berlin, Gwen Hodges, Henry T. Martin, Eleanor Nadler, Alice O'Connor, Dorothy Stone O'Shea, Olive F. Taylor.

ART STAFF: Associates, Nina Rittenberg, Amnon Rubinstein, Ray Komai; Assistants, Lilly H. Benedict, Martha Blake, Mary Villarejo, Charlotte Winter. (In military service: Jan V. White.)

MARKET RESEARCH DIRECTOR: Arthur S. Goldman. CONSULTANTS: Miles L. Colean, Ruth Goodhue. PRODUCTION MANAGER: Lawrence W. Mester.

> GENERAL MANAGER Robert W. Chasteney Jr.

ADVERTISING DIRECTOR

Richard N. Jones

House & Home is published monthly by Time Inc., Time & Life Building, 9 Rockefeller Plaza, New York 20, N.Y. Yearly subscription payable in advance. To individuals or firms (and their employes) engaged in building—design, construction, finance, realty; material distribution, production or manufacture; government agencies and supervisory employes; teachers and students of architecture and trade associations connected with the building industry; advertisers and publishers: U.S.A., Possessions, Canada, Pan American Union and the Philippines, \$6.00; elsewhere, \$9.50. Single copies, if available, \$1. All copies mailed flat. Copyright under International Copyright Convention. All rights reserved under the Pan American Copyright Convention, Re-entered as second class matter September 15, 1952 at the Post Office at New York, N.Y. under the Act of March 3, 1879. Copyright 1954 by Time Inc.

TIME INC. also publishes TIME, LIFE, FORTUNE and ARCHITECTURAL FORUM. Chairman, Maurice T. Moore; President, Roy E. Larsen; Executive Vice President for Publishing, Howard Black; Executive Vice President and Treasurer, Charles L. Stillman; Vice President and Secretary, D. W. Brumbaugh; Vice Presidents, Bernard Barnes, Allen Grover, Andrew Heiskell, J. Edward King, James A. Linen, Ralph D. Paine Jr., P. I. Prentice; Comptroller and Assistant Secretary, Arnold W. Carlson.



- 56 EVENTS
- 58 LETTERS
- 86 MODERN MORTGAGES

98 THREE HOUSES BY ARCHITECT JOHN YEON

The seemingly casual informality of these Oregon houses is in reality the result of painstaking care in detailing, siting, composing of roof lines and shaping of spaces.

110 WHAT'S HAPPENING IN SPLIT LEVELS

On Long Island they are outselling ranch houses four to one because they offer more space and a family room under a smaller roof.

Architects across the country are tackling the design problems of the split level. Examples by Donald Olsen at Berkeley, Calif.; Saul Smiley at Tyro Hills, Minn.; Edwin & Allen Kramer; Louis A. Huebner at Highland Park, III; and others.

125 AIR CONDITIONING

Any builder can now predict his operating costs accurately by a new method.

128 FOUR-ZONE HOUSE

For Blue Ribbon Construction Co. at Northridge, Calif.,
Architects Smith & Williams design \$16,500 house with a central family
room, separate areas for children and grownups, well-integrated
design inside and out.

134 NEWS

136 CONNECTICUT BUILDER LOSES BATTLE WITH VA

William Nathan of Norwalk has his \$18,000 to \$23,000 houses heavily penalized because they are untraditional, in spite of workable plans, straightforward design and first-rate handling of an exceptional site.

140 MILLWORK FOR TODAY'S ARCHITECTURE-PART II

Report on a HOUSE & HOME survey of architects' and builders' opinions of stock windows; a study made to uncover future opportunities for the lumber industry.

Design standards: details for modern windows, based on the survey, by Harold Sleeper, FAIA.

154 AIR-CONDITIONED PREFAB

George Nelson designs an 1,117 sq. ft. air-conditioned house for American Houses, Inc., to sell for \$15,500, keeps cooling costs to \$36 a summer by informed design. Included: special storage, built-ins, family room.

158 NEW PRODUCTS: ADHESIVES

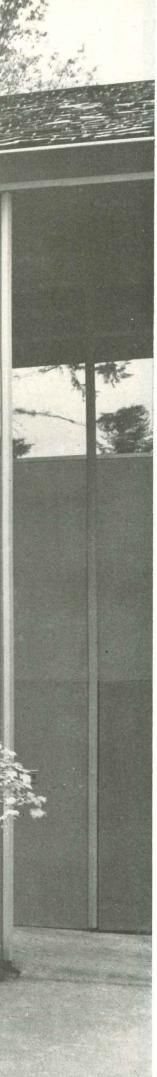
How to eliminate all nailing from installing new prefinished plywood panels; and a roundup of other new techniques and materials.

164 REVIEWS

206 TECHNICAL PUBLICATIONS







Entrance to Cottrell house showing 3' module carried through stair rail. Painted panels are a turquoise blue, dividing strips a pinkish green.

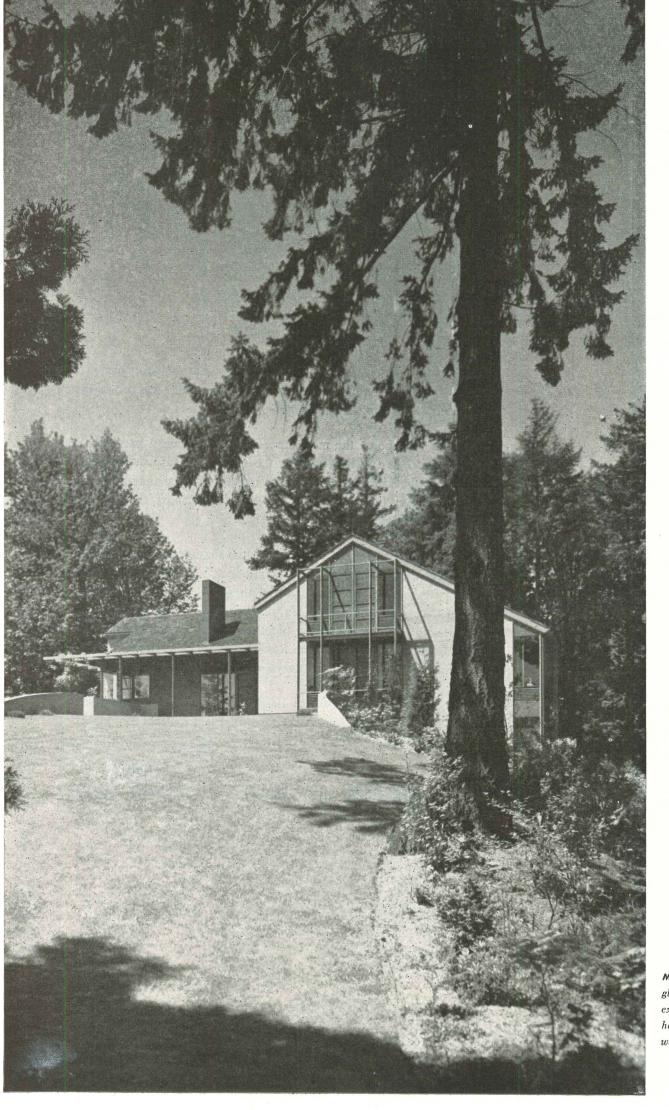
JOHN YEON is an enemy of what he calls "easy architecture." The casual forms of his houses, the clustering roofs, the relaxed interiors—all these are completely deceptive.

For here is some of the most carefully studied, most precisely controlled architecture to be found in the US. Nothing has been left to chance—yet the final impression is unaffected and sometimes almost offhand. Nothing has been forgotten—except, perhaps, the self-importance of an architect.

The happy life is the final goal—not the monument to architectural genius. Yet there is no lack of "stylishness," or of formality where you want it. There is no lack of orderliness, no absence of fine detail. Few architects can match Yeon's preoccupation with elegance. His houses are no "cottages," nailed together in hit-or-miss fashion. They are buildings of importance. He has worked so hard on each of them that he has found time, on the average, to build only one a year.

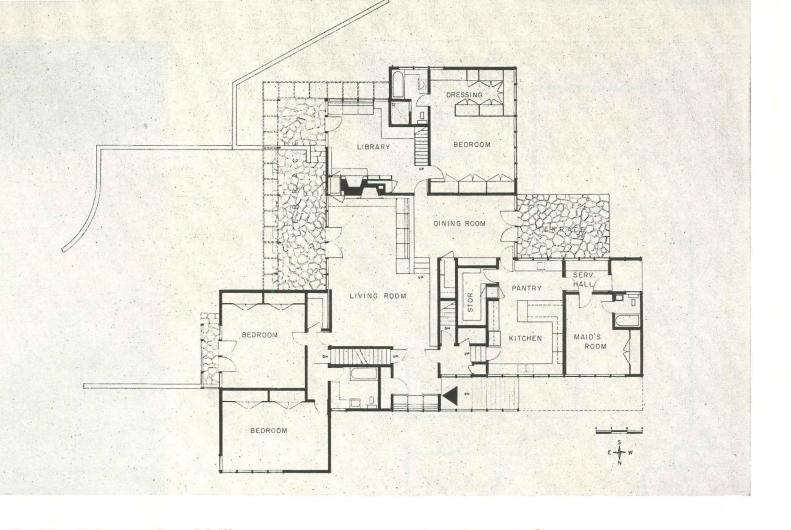
Houses designed with a lot of thought have a lot to teach. On pp. 106-109 we have listed some of Yeon's highly practical lessons. But, first, let these houses speak for themselves. Here, then, are. . .

THREE BEAUTIFUL HOUSES BY JOHN YEON



The Cottrell h

Module of 3' emerges in the glass-louver-plywood panels exterior. Blank wall surfact horizontal 1" x 6" cedar, with a bleached finish.



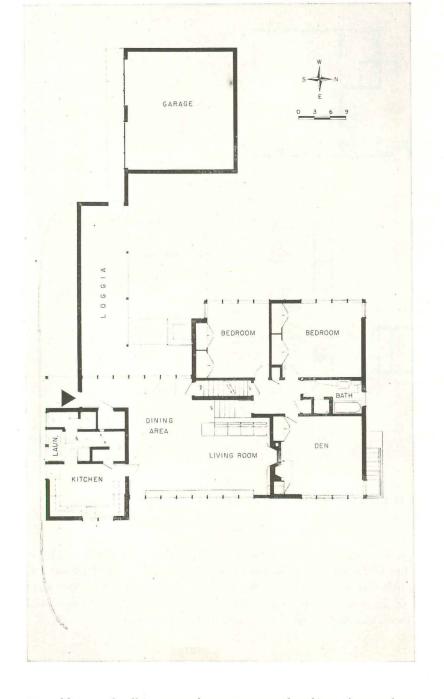
ulled back from a level hilltop to open up a spacious lawn in front

Designed on a 3′ module, this large house for a Portland doctor reveals several characteristics of Yeon's work: 1) the central, glassy and open living area is shaped between three solid blocks of secondary rooms; 2) it is full of different levels, views, changes

of light—yet remains calm and restful; 3) the entire house, in Yeon's words, is "hung back over the edge of the hilltop," thus freeing the most useful parts of the site for a generous garden. (These points are discussed in detail on p. 108.)

vated dining area (at right) serves as projection booth for home movies. Screen is rolled down over window at left



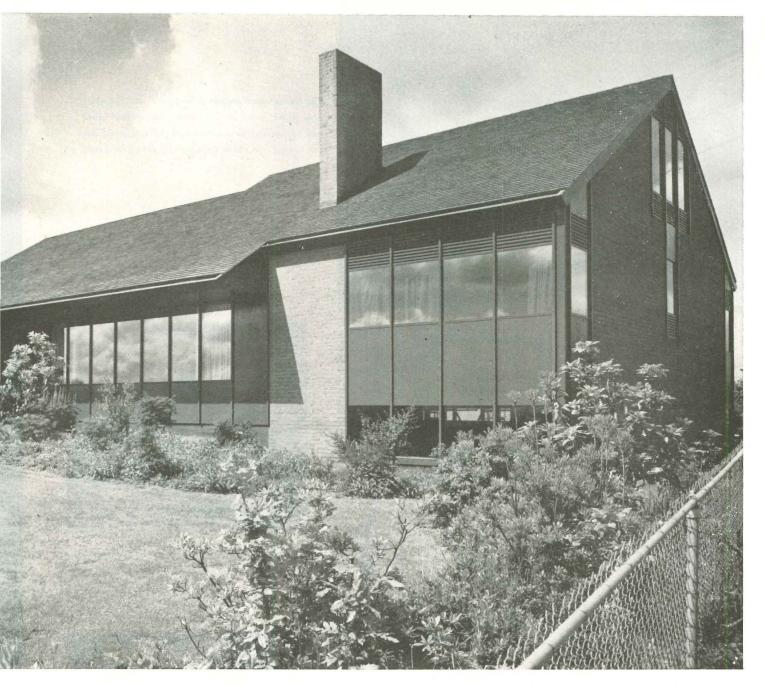




Yeon likes complex living rooms because, among other things, they can have sources of light that are partly concealed from the onlooker. The floors in this space are brown flagstone.



The Van Buren h



The modular wall panels were painted a gunmetal blue. The brick is rosy red, and the mortar has been colored to match

ity lot reflects the greater formality of urban architecture

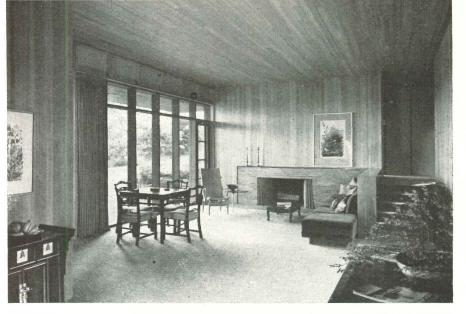
gia and garden court make for privacy on a city document Yeon's adaptability to special demands each particular site.



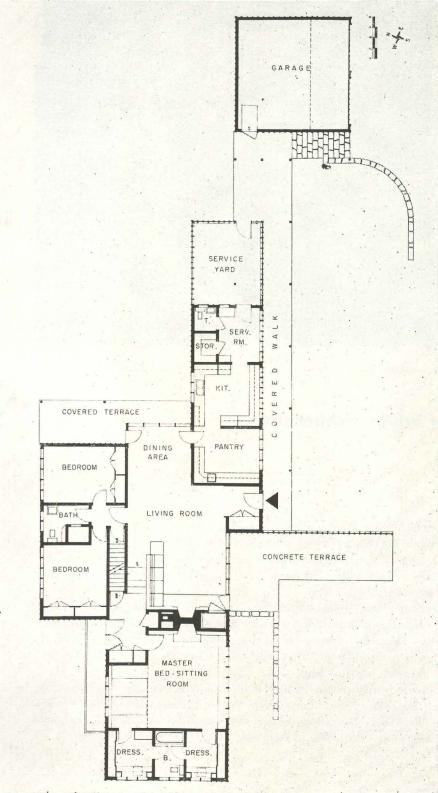
Few architects are more sensitive than John Yeon to the characteristics of a site. While his country houses seem literally to grow out of their setting and are as complex as nature itself, his city architecture (e.g. his famed Visitors' Information Center, Aug '49 issue) is often very formal, sophisticated and even monumental.

This house, on a city lot, reflects the formality of city living in its strikingly plain interiors, which include the ceiling-high door panels shown in our cover picture. "The rooms never look more complete to me, nor more beautiful," says Yeon, "than when they are empty and the space is unopposed." The picture (opposite) explains why.

In the exteriors there are even some hints of symmetry and an almost classical loggia. Yet in its major aspects this is, quite unmistakably, a Yeon house: there is the 3' module, the $1\frac{1}{2}$ -story panel, the multilevel living room formed between solid blocks of secondary rooms (see plan).



The living-room carpet is turquoise, and the glass and panel areas are accented with related blues and sea greens to contrast with natural wood finishes. This is a characteristic color range for Yeon.

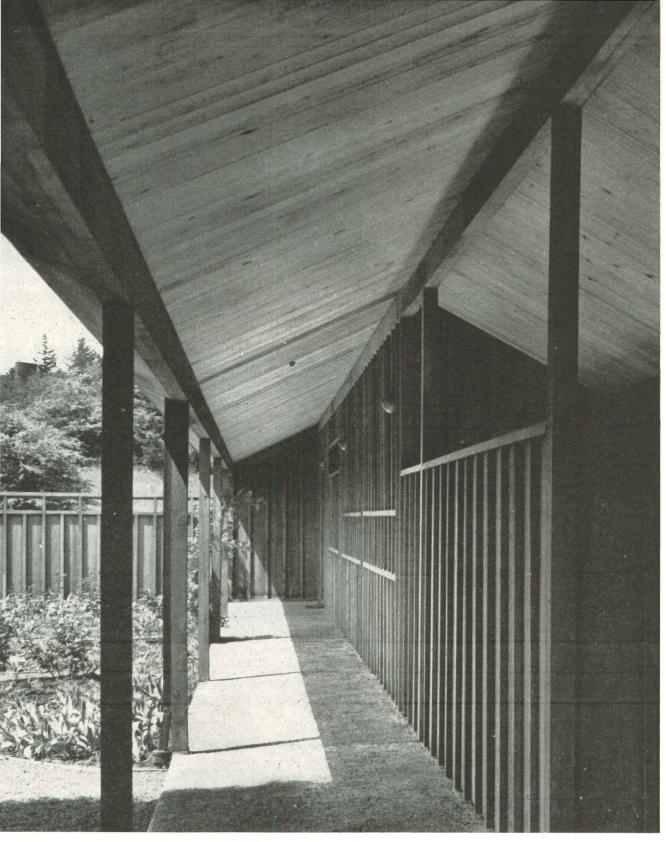




All roof ridges run parallel to the long axes of the house. Below: formal garden on approach side.



The Swan hou



The 12" board-and-batten module carries right through the kitchen fenestration (shown fore-shortened at right) to maintain the continuity of the wall. The roof is shaped to emphasize the notion of shelter.

heltered by a complex roof whose forms suggest continuous movement

"I like a northern sense of shelter," says John Yeon. He gets that sense primarily through the way he handles his roof lines. The roof, to him, is more than a "lid" that covers (and perhaps unifies) the structure below; it is, rather, a powerful sculptural medium. Just as he uses changes in level, in surface and in light to modulate interior space, so he uses changes in roof line to modulate the over-all forms of his buildings—and to give those forms the same sense of movement that he gets in his interior spaces. The two effects are, of course, inseparable,

and Yeon has often been forced to revise his roof forms to comply with changes in plan.

This house is an outstanding example of Yeon's mastery of both intangible space and tangible form. It is, also, a major success of modular planning and emphasis: it would be hard to find another complicated house that is also so coherent. The module, emphasized by board-and-batten exteriors and panels inside, is basically a 12" unit, expanded to multiples of 12" to give greater importance to major glass walls.

Yeon's modular wall panels

have pioneered curtain-wall

construction in housebuilding

The rhythmical module in John Yeon's architecture is not only an esthetic concept having to do with discipline, unity and order.

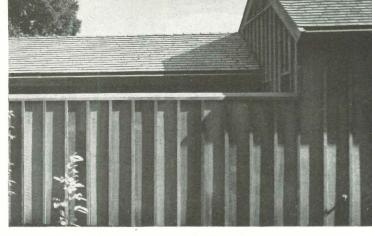
It is also an eminently practical pioneering effort to bring into housebuilding some of the facilities of mass production and prefabrication that everyone has been talking about for more than half a century.

Yeon's characteristic wall unit—logically divided into a glass vision panel, a louvered ventilation panel, and a painted plywood insulation panel (or spandrel)—is a first-rate solution for the prefabricated house wall. It is also, of course, an exquisitely beautiful solution, which should make some of his clumsy imitators bow their heads in shame.

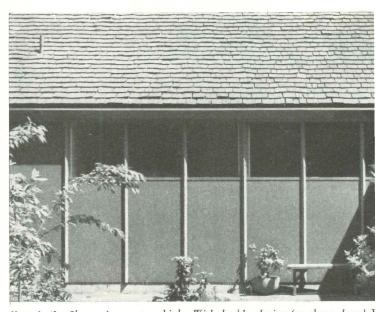
Yeon likes to accent the rhythms of his panels by painting the vertical dividing strips a putty yellow or light green, and painting the plywood spandrels a dark blue-green or gunmetal. The module, recently, has been 3′, which works well with standard door widths.

It is curious that Yeon, apparently preoccupied with poetic notions, should prove so very practical. . . .

(Question: when are the non-poets in the homebuilding industry going to get around to so practical and sense-making a solution as the floor-to-ceiling door panel shown on the cover of this issue?)

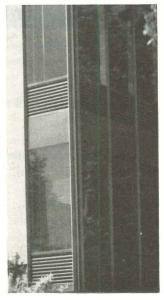


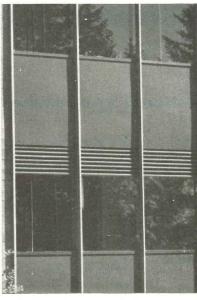
The 12" board-and-batten module in the Swan house is a rather traditional more intimate precursor of the 3' panels in the Cottrell house (below). Its cedents can be found in the barn structures throughout the US.

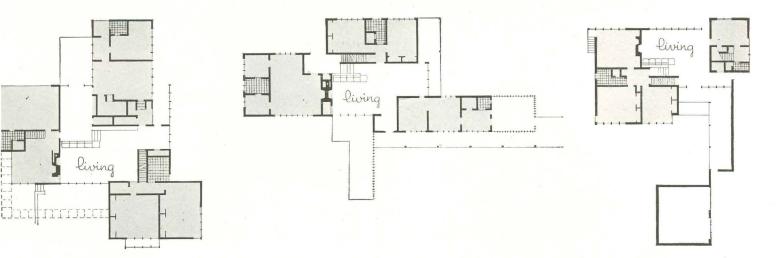


Here is the 3' panel, one story high. With double glazing (as shown here) I employs an aluminum facing strip to hold the double-glass unit in place a sill. For single-glazed units, he simply uses flashing under the glass, and p Both details are better than the usual wood stop which tends to rot away.

Elsewhere in the Cottrell house, Yeon uses a two-story wall panel reminist of the finest skyscraper curtain wall. His vertical dividing strips are milled single projecting knife-edge, produce an elegant, sharply defined shadow Below (left) is a typical corner detail from the Cottrell house.



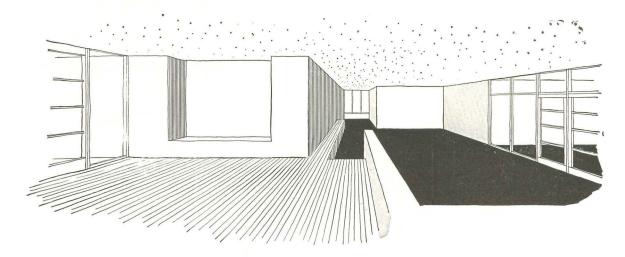




The plans of the Cottrell, Swan and Van Buren houses (shown above) demonstrate one of Yeon's favorite ways of creating a plastic, interior space. "In all three plans," Yeon explains, "the main room exists between the enclosed blocks of the other rooms (shown shaded in these diagrams), with windows occupying all of the exterior walls between those blocks. If the air were solidified and the walls stripped away, the solid would have a shape that is pleasing to me . . . an asymmetrical cubic composition

which is neither static nor restless, suggestive of movement, but in repose." One result is to make relatively small rooms seem large, for each room is full of surprise vistas, surprise sources of light on all sides. These surprises, according to Yeon, "provide ever shifting interplays of composition and effects for one moving about in the room." This space concept is, of course, very different from that of the single rectangle (which is revealed all at once, and may then hold few added surprises).

eon's living rooms are sculptured spaces of many levels



Yeon's play with changes in level is demonstrated in this diagram of the Cottrell living room, and in the small pictures showing the same room from different levels and angles. Although there are few unbroken planes, the feel-

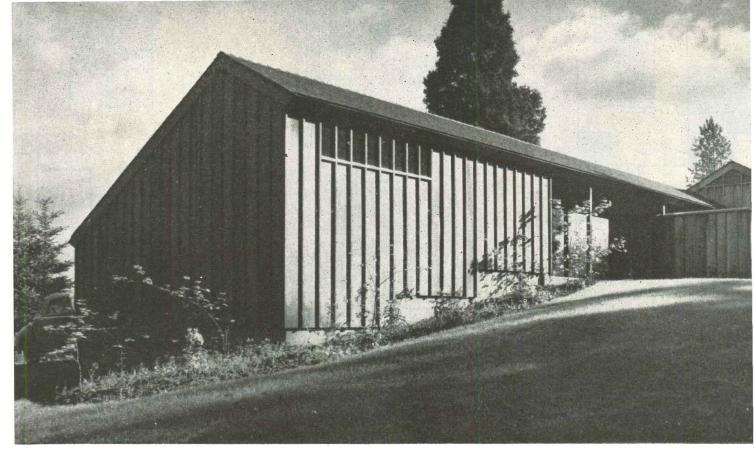
ing is one of repose. And while the room measures about 900 sq. ft., it seems infinitely larger and perhaps more interesting than a single rectangular space that might be 25' wide and 36' long.











The Swan house, in typical Yeon fashion, "hangs back over the edge" of the hilltop to free the land for a generous lawn

Yeon places his houses to emphasize the characteristics of the site

Given a flat hilltop site, most architects would place their houses where they could dominate the landscape. Yeon does the direct opposite: his houses support and subordinate themselves to the qualities of the site, rather than use the site to help dramatize themselves. In practical terms this means that Yeon considers the best possible use of the land—for a lawn, or a garden, or for a terrace—and then pushes his house back far enough from the hilltop to keep all potentially usable space intact. The most obvious application is, of course, in suburban planning, where most builders still insist upon dropping their houses smack in the center of a lot—with disastrous results to the usefulness of the outdoor space. Yeon's Van Buren house (p. 102) suggests that such suburban lots can be made highly useful with walls, screens and proper placement of the house.

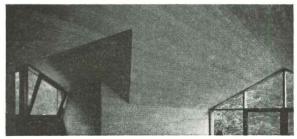
Yeon's sheltering roofs are pow

If you were to walk around the house shown in the site (opposite), you would find before you a succession of difference and roof silhouettes that suggest constant movement that are never alike from one angle to the next. And the elevation above the site plan shows how consciously Yeor developed this rhythmic succession of forms.

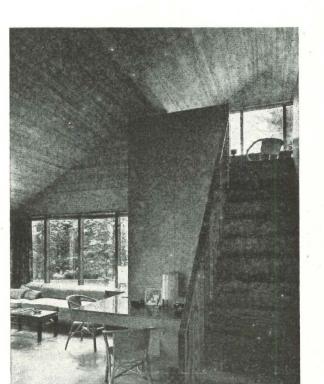
Unfortunately, this particular house will never be built. the three houses shown in our story have those same qua in their roof lines.

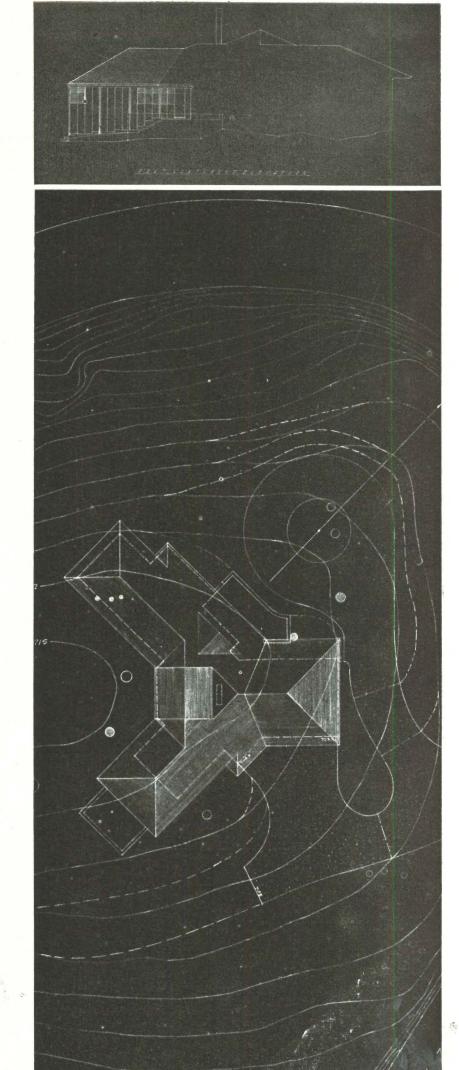
Yet the sculptural roof is not only a means of creating ching over-all forms to be seen from the outside; it also act the enveloping ceiling that modulates many interior sp. Yeon is intrigued by the play of light and shade: and these pictures, of roof ceilings in the Swan and Cottrell house spectively, suggest not only how the architect was able to shis spaces by using the expressive folds of his roofs. Suggest also an extraordinarily sensitive hand: sensitive to slightest nuances of color, texture, light and shade; as sensitive than the color of the crude and to the overstatement.





forms in constant movement









After selling 60 houses in ten days, Architect-Builders Furno & Harrison are enthusiastic over popularity of this split level which has 2,000 sq. ft. plus basement, garage, sells for \$20,000. It outsells a more expensive ranch, 4 to 1. (Floor plan is below.)

Photos: (opp.) Thomas Airview; (above) H&H Staff

On Long Island, splits outsell ranches four to one

BEDROOM

SHOWER BATH

MULTI-PURPOSE
RECREATION

SECTION A A

GEOROOM

SECTION A A

GEOROOM

SECTION A A

GEOROOM

SECTION A A

GEOROOM

SECTION A A

CELLAR

DINING

BEDROOM

SO TO KEE SECTION

CELLAR

CELLAR

CELLAR

CELLAR

CELLAR

CELLAR

CELLAR

CELLAR

CONTRICTORY

CONTRICTORY

CONTRICTORY

CONTRICTORY

CONTRICTORY

CELLAR

CELLAR

CONTRICTORY

CELLAR

CONTRICTORY

CONTRICTOR

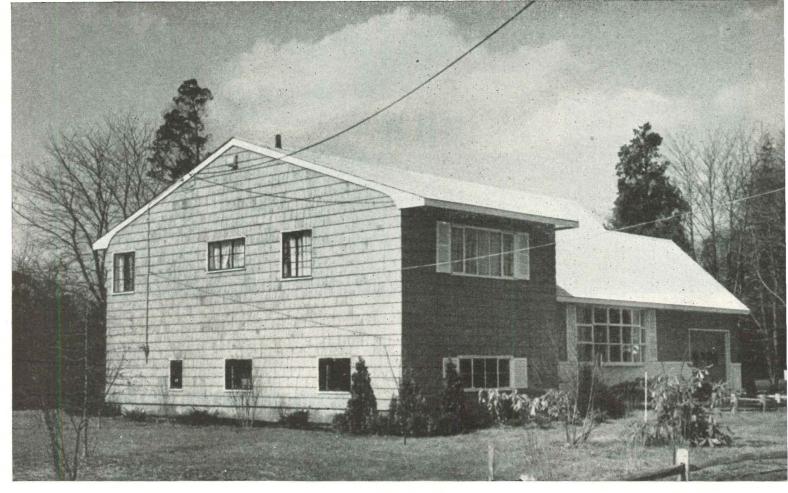
of Newell & Daniel's 400-house project at \$33,000 to \$40,000. Long Island has many ensive house developments and builders say splits these prices are increasing in sales popularity.

Because it is the most concentrated, highly competitive homebuilding area in the US, hundreds of builders tour Long Island developments each year to see the experiments and new ideas constantly being tested there.

Long Island's big news today is the split-level house. It has become a runaway favorite over all other types. No other type has ever come up so fast or been such a quick sales success. The split is not new. It is the "trilevel," built in the Midwest for years. Its eastern revival began in New Jersey several years ago, but when Long Island builders picked it up in 1952 they gave it some new twists and pushed it hard. Originally a house that architects fitted nicely onto sloping ground, splits are now crowded together on flat land and bear little resemblance to the original hillside split level.

The sales success of the split is already influencing builders in other areas who are impressed by its popularity. The lessons of the split level are clearly these: people are tired of the same old thing. They want more space, a recreation room, more bathrooms, bedrooms separated from the living area, a house that looks large and impressive. In the split level they find all of these features.

In these 15 pages House & Home's editors appraise the split, show its liabilities as well as its assets, and suggest ways to utilize its good points and improve its bad ones.



At \$22,990 the public decided this 1,950 sq. ft. split was most house for money

BEDROOM 9'.8"X II'.4" BEDROOM 13'.0"X I4'.8" DINETTE DINING ROOM 12'.2"X 10'.0" WITCHEN 17'.0"X 13'.4" DINING ROOM 13'.0"X II'.4" DROPPED LIVING ROOM 19'.7"X 12'.6" BEDROOM 16'.0" X 12'.0" GROUND LEVEL

UTIL. RM

RECREATION

20'-3" X 15'-0'

LOWER LEVEL

The "York" varies from most splits because its four bedrooms are on two different levels at side and back. Its large recreation room is above grade, as seen at lower left in photo (above). Interior gives impression of tremendous space. House has no basement.

Split level crowds other designs

off market at Bar Harbour

What is happening at Bar Harbour is typical of the popular appeal of the split level. With 500 fine lots at Massapequa Park, Builders Siegel & Chess have done one of the best merchandising jobs on the Island. They opened 16 months ago with two ranch models and two 1½-story houses at \$24,000 to \$27,500. These big, luxury houses had plenty of space and eye appeal; 80 sold the first year.

Then Siegel & Chess introduced their first split level. In four months 40 splits were sold and sales of the other houses stopped immediately! The new split began selling at a rate of 120 per year in contrast with the earlier rate of 20 per year for each of the others.

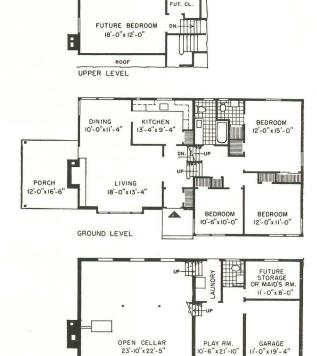
"It's just more house for the money," explains Architect Herman York, who designed them all. "It has two rooms more than the ranches and sells for \$1,000 to \$4,600 less. The recreation room is free space in a sense—you pay only for finishing it. You also get good, usable space high up in the shed dormer for two top bedrooms. I've designed a new front-to-back split for them which sells for \$28,000. Are splits just a fad? No, they're too good a house to fade out of the market."

Said a Bar Harbour salesman: "The more a prospect asks, 'Why don't you have . . .?' the fewer sales you make. This house has everything and people can't think of anything else to ask for. No wonder it sells."

\$21,500, Holiday Hill has a big,

impressive package for buyers

great popularity of the split level is explained by the photo w and the plans at right. Compared with a ranch house to same price on Long Island, this looks like a large, luxurious to. And it is. It has three bedrooms, $2\frac{1}{2}$ baths, an above-grade room, provision for two more bedrooms, a cellar for storage a porch. There is a lavatory off the playroom, which is content for children entering from the grade door in the laundry. There are many extras to snare the prospects from New York apartments: a 16' ceiling in the center hall, a 9' raised-hearth place with built-in bookcases, playroom paneled in knotty pine, but-to-back living and dining room with big windows at each a private bath with shower for the master bedroom, oil-fired, water heat. Not all lots have such fine trees, however.



LOWER LEVEL

sloping gound this split level fits well on its site



Photos: H&H staff



The lead is 30-to-0 at "Morewood Oaks" for this \$25,500, 1,600 sq. ft. split over \$22,250, 1,300 sq. ft. ranch (right). Split costs \$16 per sq. ft., ranch \$17.11, including same size



lot. Buyers preferred to pay \$1,600 more for the large with larger lot, all brick veneer, built-in oven, extras, for a cheaper split built last year but now discontinued



Split at \$22,690 (above) outsells ranch (right) priced \$19,500, 7 to 1 at "Marble Hills." This is a front-to-back split with three bedrooms running across back of house on upper



level. Downstairs recreation room, 30' x 14', extends a rear, opens to paved terrace. Ranch house is good bu most families will pay more for the larger split.



A 3-to-1 favorite over ranch at "Sweet Hollow" this split draws \$3,000 more from buyers who get an extra 238 sq. ft., plus a recreation room, laundry and hobby room all above



grade, and $1\frac{1}{2}$ more baths. Children can enter grade use lavatory next to recreation room. Split has $2\frac{1}{2}$ l 1,480 sq. ft. (plus laundry, garage), is \$16.950 on half-



But ranches are not dead at "Midwood Park," where ranch (at right) at \$13,990 sells even with split (above) at \$14,990. A Cape Cod (not shown) at \$13,590 sells 20% behind. Split



has 1,433 sq. ft. including finished playroom but not law boiler room, garage. Half of house has crawl space. R has 900 sq. ft. plus that much basement, but no ga



512,990 this 1,360 sq. ft. front-to-back split includes Y x 20' recreation room, larger than the living room. aplecrest" has sold 105 since October.



tis, \$13,990, looks big, has three bedrooms, 1½ hs, 26' recreation room, a popular bay window, hoter heat. In first three months 60 were sold.



Alt Park" is \$13,990, has sold over 100 since October.
eature is its 11' bath plus two other half-baths. Front
groom takes the space of half of two-car garage.



own Village" has sold nearly 600 houses: 50% are its like this one at \$16,590; 40% are Cape Cods at 1,990, 10% are "the forgotten ranches" at \$15,750.

tos H&H staff & Richard A. Smith

Sales figures tell

the split-level story

on Long Island

Sales figures for the houses shown here are a fair cross-section of what is happening on Long Island. They are borne out by the sales of many other builders. Last summer, for example, when Stackler & Frank opened three new houses with a big fanfare, newspaper men were guessing that a new ranch house would sell even with a split level. But of the first 200 sales, 152 were splits at \$15,990 and \$13,990, 28 were Cape Cods at \$12,990 and 20 were the \$15,490 ranch. At "Sherwood Gardens" splits are outselling ranches and Cape Cods 72 to 1 and 72 to 2. At "Westbrook" the ratio in favor of splits is 20 to 1 and at "Birch Knolls" it was 180 to 2 and 0. In nearly all cases, the splits are from \$1,000 to \$3,000 more expensive than other types.

In fairness it must be said the odds are not always this great nor are they always in favor of the split. At "Smithtown Estates" the split is a two-to-one favorite. At "Connelly Homes" a poorly designed split did so badly against a Cape Cod it was discontinued. At "Miller Homes," "Eastwood" and "Clearmeadow" the split had either a very slight edge over other designs or ran even.

Many builders believe the split is not a practical house type below \$12,000 or above around \$30,000. Because of its stairways and complicated framing, it cannot be compressed into too small a space. Above \$30,000 a ranch house, with its one-floor-living advantages, can include a recreation or family room. Builders Guterman & Welling find their ranches at \$30,000 are outselling their splits at \$28,500-32,950.

People like splits because:

1. They look big from the outside

When "Cadillac Homes" began selling this house (right) at \$17,990, it was an immediate success and most of the 115 houses were sold in two months. Although not so long as a ranch at the same price, a split has more bulk, looks bigger. Sales asset: it is something new and different.



2. They look big inside

Many buyers are sold on splits when they step inside front door. There is a big-house feeling because the live room often has a high ceiling, is open to a bedroom of gallery and sometimes the view is open through to the receition room below. Adding to the feeling of spaciousness a large bay window. The photo at left and those on opposite page are of "Suburban Greens," where a 1,740 sq split on a 70' lot sells for \$17,890.

3. There is more space to do more thin

House (at left) is typical of many splits. It is all things all families. Its eight rooms include three bedrooms, baths, 29' playroom, laundry room above grade, paved a patio, storage attic, and for \$600 more the entire basem is excavated. Many splits have four bedrooms. Thus a famican use the space to suit its own personalities. To family who have been living in apartments or small ranch how these splits look enormous.



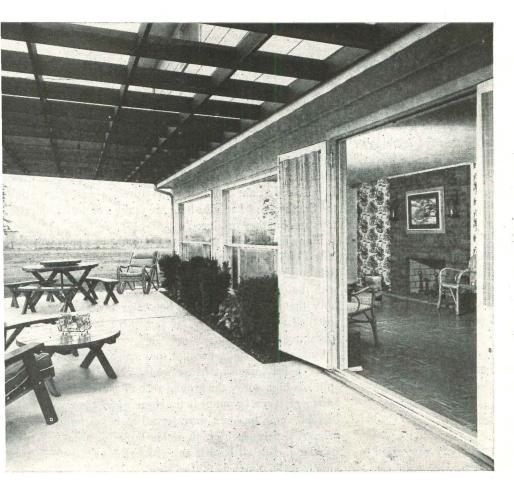
4. Bedrooms are more private

The "upstairs" bedrooms are a popular asset. They are separated by both height and distance from the living room. Bedroom windows are high above the ground and give more privacy. Families do not seem to mind climbing five or six steps.



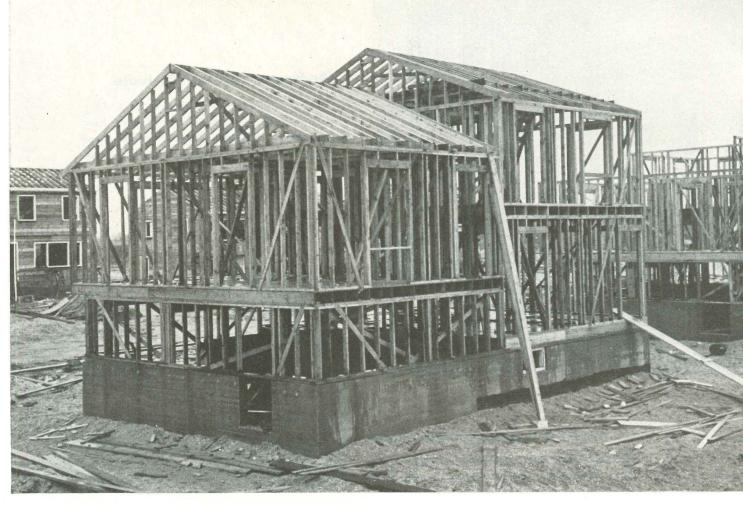
5. There is a second living room

Greatest single sales feature is the recreation room. It is above grade, has no feeling of being in the basement. A big room like this at the rear with a terrace is the Long Island equivalent of what every Texas house of over \$25,000 has: a rear family or clubroom where the people really live.



6. Outdoor living is easy

This terrace opens from the recreation room (above). Many splits are less pretentious but most have a grade door through which children can come and go to the recreation room without being on the living-room floor. Many builders with one-story, basement houses where rear basement wall sticks up out of ground could turn their basements into this same kind of sales asset.



Complex framing on four levels is shown in photo. House has subbasement (lower right), garage and playroom at grade level (lower left). Living wing is middle right, two bedroom floors are higher. Only slight grading is done at sides and back.

Construction raises some problems

Compared with a one-story ranch with basement, a split level has less roof and less foundation, but needs more lumber for framing and floors, more sheathing, siding, insulation, there is more work on scaffolding, heating costs more. There may be more grading.

Long Island builders believe that costs for framing a split are from 5% to 15% more than for a ranch. With its several levels and many rooms, a split is the exact opposite of the "one-big-room" theory of construction suggested by the Small Homes Council and promoted by H&H (Jan. '53). Many splits are built on five different levels (including basement) and the framing is a forest of studs.

Some builders pooh-pooh the idea that a split is harder to frame. "You do it in two separate operations," they explain. "You frame half as a two-story house, half as a ranch. Framing crews learn on one or two houses, then have no trouble."

When a builder offers a ranch, a Cape Cod and a split level the split is usually the most expensive. But in nearly every case the price per square foot of comparable finished floor area is cheapest.

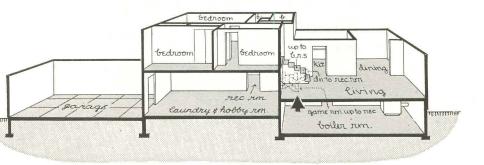
The most house for the money in the US?

Long Island probably offers more for the money in fully winterized houses on expensive land than does any other area. One reason is

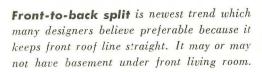
competition, another is that subcontractors want work, and a important reason is that mechanics know their work and are specialized. Nearly every builder subs all his operations. level framing is so familiar that carpentry crews could almost blindfolded. Said a builder who returned recently after build the Southwest: "The subs here are really wonderful. Mechantop rates but they produce."

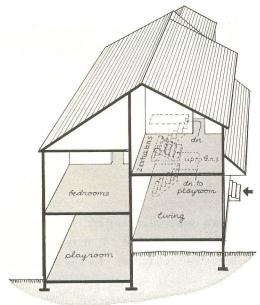
Many builders are providing $2\frac{1}{2}$ baths in a split when the only 1 or $1\frac{1}{2}$ in a ranch. Plumbing and fixtures cost more, be than might be imagined because bathrooms are put back to with the downstairs lavatory directly below. Long Island is ably the biggest center for hot-water heat in the US and installed by the plumber. He is content with one profit for plumbing and heating.

Builders like splits because they can be put on marginal where a full-basement house would not be practical. Because split sits high out of the ground with no basement or a shallow basement, it can be put near the shore where the water table is In fact, some builders were forced to begin building split primarily because of high water tables or what was pracmashland. But all land is expensive, the average price now ning from \$6,000 to \$7,000 an acre.



cical side-by-side split with garage at side rather a under house (shown above). Some plans have been room in grade-level laundry, do not excavate basement (as at lower right). This has rear recreation and a separate hobby and laundry room.





hat's wrong with splits?

Many are ugly. To blend the two halves is more difficult than lesign either a one-story or a two-story house. If fronts look ward in these photos, the drab sides, backs and roof lines look a worse. On flat-treeless farmland a row of typical spits sticks of the ground like sore thumbs.

Some are a fake. They pretend to be hillside houses, which are not. They force the natural grading to conform to the se, rather than making the house conform to the site.

The "six easy steps" up and down are a delusion. Despite the onal trend to one-floor living, some of these houses have five sets tairs, including those up to the front door. Many salesmen who e worked in splits a year are tired of them, predict the public turn against them because of the stairs. In many houses, the s are too steep for elderly people.

There are heating problems. The slab floor of the recreation is cold (Long Island builders used hot-water heat, with radiator convectors in the recreation room) and the many levels that the temperature differentials which require a more exact balanction in a one-floor house. One or two bedrooms are over the age, which means floors are cold unless well-insulated.

Compared with a ranch design, the split is difficult to build.

Chief attraction of the split may be its novelty. "It has only features a ranch doesn't have," said one salesman. "It has bed-ms separated from the living room, and it has a recreation room. In these features can be designed into a one-floor house, especial-house with a basement."

What are the lessons?

- 1. The split can be designed to look better (see the next pages).
- 2. Its best ideas can be used in one- or two-story houses.
- **3.** The above-grade recreation room (finished, heated, well-decorated, big windows) can be used in thousands of houses now built with basement walls that project four to six feet out of the ground. These dark holes can be turned into big, light rooms.
- **4.** If it is legitimate and economic to grade up to a split level which sits several feet out of the ground, then it is also legitimate to scoop out some earth to permit big "daylight windows" in a basement recreation room and make it seem above grade.
- **5.** The stairway down to a recreation room should not look like basement stairs. It should be bright and well-lighted, preferably paneled, and should not lead out of the kitchen.
- **6.** Many a three-bedroom house can find space under the roof for a fourth bedroom, common practice in split levels. In a model house it should be finished to show how well it can look.
- 7. Bedrooms must be farther from the living room.
- **8.** People want more bathrooms and ingenious builders can find a way to add them at not too much extra cost.
- **9.** Perhaps the most significant lesson for many builders is that people will pay more to get a "deluxe model" with extras.

For solutions to the many design problems of split levels and suggestions for ways in which architects in other areas have treated this type of house, see the next pages.





YOU SURE NEED A GOOD ARCHITECT!

We were going to start this little story with a learned discussion the origins, purposes, functions and meaning of split-level house whether they made more sense on a hillside or on level ground; a whether their prevalence would enhance the Republic or destroy

In other words, we were going to ask:

when do splits make sense?

Then we suddenly realized that *anything* makes sense as long as people want to buy it. It may be that people are being sold a bill of goods, or it may not. In any event, they are buying splits the way they used to buy yo-yos, and so we are going to revise our question, retreat to prepared positions, and ask:

given a split, what can you do about it?

The answer to that one is: **plenty!** To start with, you can read next four pages. After that, if you have any feelings about the you would like our country to look, then the sooner you get yours a good architect, the better for you, your community and the national content of the plenty is the plenty! To start with, you can read next four pages.

For-let us face it:

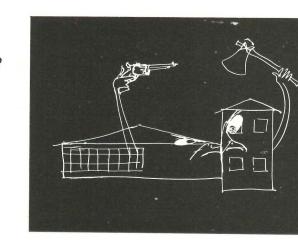
the average split is the worst thing that has happen to the American home since Mrs. Potter Palmer

As one lady split-dweller said recently: "I'm always halfway up or halfway down, but never anywhere in particular." That could be fixed. The worst thing is the way they look on the outside, the way a string of them looks on a street, and the way they look from the back. How are you going to fix that? Well, let's see:

To start with-

what is a split?

Anyone who has recently been out on Long Island might answer: "A one-story ranch house and a two-story Cape Codder locked in mortal combat." The description is fairly apt.



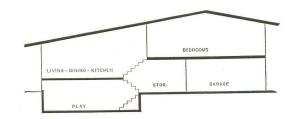


Technically, however, a split is a house with at least three separate levels, two of which are located one above the other, and all of which are one half-level apart in elevation.

The most common way of arranging these three levels is to put a garage, playroom, utility room and storage on the lowest one; to put the living room, kitchen and dining room on the middle level; and to put the bedrooms over the garage level, on the highest floor. The main entrance to this type of split is generally on the middle level—but it sometimes works better to have it on the lowest level (as we shall see in a moment).

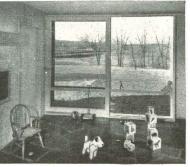
ometimes it is possible to tuck a fourth level in under the living area, and us to get a second living room or playroom, with high windows all around.

s these photographs show, such high windows can be very nice. With a little tra excavation, you can have a terrace outside that bottom-level playroom.





There are plenty of other variations on the split-level theme, but the type explained above is the prinicpal split used by builders today—the only variation being that they sometimes run the splits parallel to the street, and sometimes front to back.



o: Architect John C. Johansen. ow: Architect Marcel Breuer.

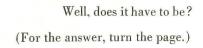
What is so tough about designing splits?

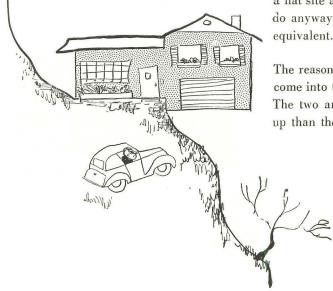
Three things, primarily: first, how to place them on a site. Second, how to make the split-up facades look relaxed. Third, how to get a good-looking street. Let's take these points up, one by one:

Site planning presents some knotty problems . . .

Although splits were originally meant to be on hillsides (see p. 124), a lot of people now feel that they are easier to build on level ground. The reason: on a hillside, the basement walls need to resist a lot of soil pressure, but on a flat site all you have to do is excavate below the frost line (which you must do anyway) and line your excavation with an 8" concrete block wall or the equivalent. But the trouble is—how do you grade around a split?

The reason that it is so difficult is that, on the main split facade, you want to come into the garage with your car, and also come into the front door by foot. The two are probably next to one another—but the front door is 5' higher up than the garage door.









Take a look at these two split facades. At left, we have Builder A. and his Split Ranchburger. On the right we have Architect Charles Smiley, from Minnesota. A. has the dickens of a time getting from his garage level to his front-door level without the use of heavy climbing gear; Architect S. put his entrance lobby on the *lowest* floor, right off the garage, and he just comes into both doors on the same level. His living area, half a level up, is on grade also—and a little retaining wall next to the front door makes sure that it will *stay* on grade, even after the next rainstorm.



Retaining walls outside are an absolute must if you want to make sense of your split. And since retaining walls mean changes in grade, you had better get a landscape architect to tell you how to grade your lots—or else you may find that the rain draining off lot No. 10 has washed away your customer on lot No. 11.





Hedrich-Blessing; Courtesy: Woman's Home Companion



How to unsplit a split facade . . .

The split facade needs unsplitting, and there are at least three good wardoing it.

1. Panelize the facade. Builder B.'s split (drawing, left) is almost identify plan to Architect Louis H. Huebner's below it. But look at the dence: B. has go so many different lines, features, openings, materials sizes crammed into a single facade that it looks as if he had used up a lot of overs from previous houses. As we leave the site of this accident and tu Architect H.'s neat little house, we find that he has superimposed a stregular (and, incidentally, structural) grid All the rectangles belong tog—and they are all alike. Yet each contains some other material—glas stucco, or plywood, or a door, so that there is plenty of variety.

2. Simplify your roof. Most split-builders like to put one kind of roof on the two-story part of their houses, and another kind of roof on the one-story part. Nothing does quite so much to cut up the facade.

At right is Builder C.'s split with its double-decker roof. Not only does it not look very pretty, but it also costs Mr. C. a lot of extra flashing.

Now take a look at The Architects Collaborative's split in Lexington, Mass. (below it). The roof runs the other way—pulls the whole house together. It requires no extra flashing. It makes the living room about 1½ stories high (which is a first-rate sales point). And we think it looks very handsome.





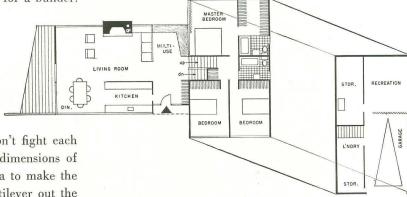


There are other roof ideas that somebody ought to try: for one, a single roof, with its high point over the bedrooms and slanting downward to the far living-room wall, has yet to be tried in a small builder house. custom-designed house, by Architects Brown & Wright (left), shows how stroof might work out.



3. Offset your wings. One of the chief troubles with split facades is that all the splitting generally happens in a single plane. Now if builders like to build the two major parts of their splits separately (as we discovered on p. 118), then there is no reason why they couldn't offset them a little, the way Architect Smiley did it here (see also picture, opposite),

as Architect Sidney Shelov is about to do it in this design for a builder.



antages? Plenty—1) the two halves of the split facade don't fight each r; 2) you are not limited in your bedroom floor by the dimensions of garage floor underneath. In fact, it would be a good idea to make the ge floor smaller, recess it a little under the bedrooms, cantilever out the r and get a covered walk from garage to front door.

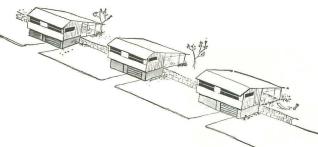
and how to unscramble the streetscape



Lots of streets look like something out of a shooting gallery, but a street of splits really looks like a procession of sitting ducks.

think there are two obvious ways of avoiding that Coney Island look. for a start: first, how about concentrating on front-to-back splits? They you a street facade of two-story houses, and they simplify your grading olem on that street—because you can run a continuous, retained terrace

llel to the sidewalk. Here is what we mean:



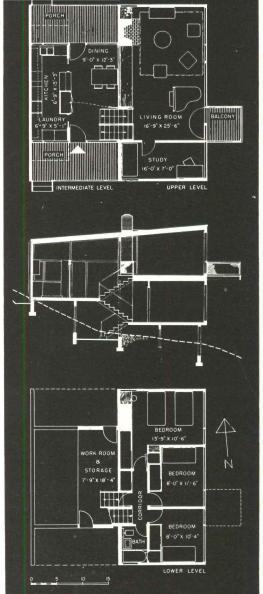
other way might be to run your roof the way the TAC house (opposite) t, (see right):

of course, there are ways of getting variety with different materials—please, not all in the same house! And there are ways of getting interest nixing two or three different splits along one street—but, please, try to p your types together, two or four in a bunch, so that each stretch of the tretains some sort of unity! For the successful street is like a single, outdoor room: its walls are the facades of your houses (and you would ly use a dozen different kinds of wallpaper in a single room).



m here on, you and your architect are on your own.
as know how you make out—THE EDITORS

P.S. You will probably also be interested in the hillside split on the next page.





Photos: Rondal Par

This hillside split level has an unusual plan



Entrance porch on uphill side is reached by a small bridge. Exterior of house is painted vertical siding, with bright color accents in underwindow panels. Right: open stair to living room.

Split-level houses were originally developed for hillsides, and this neat l 1,500 sq. ft. design for Berkeley, Calif., by Architect Donald Olsen, sh how well they fit that type of site: the main entrance is from uphill into intermediate level; the living room is half a flight up (for a better view actreetops); and the bedrooms are half a flight down. Kitchen, laundry dining space are located on the entrance level, so that the housewife can conthe entire house while at work. The two upper levels open into each other a greater sense of spaciousness.





tinuous, exposed ceiling helps unify spaces, meach seem larger than it is. Only downs bedrooms are closed off from major living a

Air-conditioning operating costs

an now be predicted by a new forecasting method

new way to predict the electrical operating cost of esidential air-conditioning units in virtually any house any location has just been announced. This is highly gnificant news for architects, builders and dealers. Coreover it gives FHA-VA an accurate yardstick for seting up financing terms for air-conditioned houses (some 20,000 to be built this year, say experts).

The technique, just developed by Carrier Corp. research engineers, "will ordinarily predict summer operating cost to within plus or minus 8% or \$10, whichever is greater." That it works was confirmed during the hot summers of 1952 and '53 in a variety of conventional houses used as guinea pigs. Examples:

▶ In Atlanta, power bills to cool a 3,000 sq. ft. house were predicted at \$155; the actual cost at summer's end: \$151.

In Dallas, cost to cool a 3,200 sq. ft. house was predicted at \$177; the actual cost was \$167.

▶ In Washington D.C., cost to cool a 2,100 sq. ft. house was predicted at \$58; the actual cost was \$53.

The key factor. Basic discovery that led engineers to this new forecasting method came when they uncovered this important fact: the amount of work put in by the compressor is directly proportional to the number of "degreedays"* per summer above 70° (the same way heating is related to degreedays under 65° in winter). The higher the mercury rises above 70° the longer the cooling unit must work. And although 70° may be delightful outdoors it is really the starting point for cooling indoors, chiefly because of heat created by lights, people, cooking, etc. The total number of degree-days per summer is thus the tip-off to the total amount of cooling performed by the cooling unit.

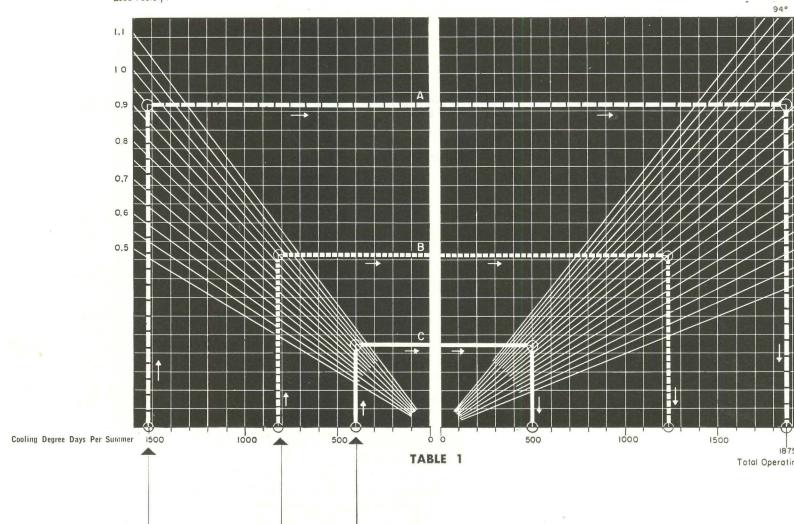
New York City, for example, averages 400 degree-days per summer, Nash-ville 746, and Houston 1,483. By equating these data with such facts as size of the cooling unit, local power cost and the calculated cooling load for a house, operating cost can be predicted with the impressive accuracy shown above.

Cooling load prescription. In using this prediction method, engineers emphasize that the house cooling load must be based on the average 24-hour estimating system. Many manufacturers already supply forms for computing the cooling load this way. Or builders and architects can figure the cooling load of their houses by using the 24-hour method published by Carrier. In addition, predicted operating cost is based on the thermostat being kept at a reading between 72° and 75°—most popular thermostat settings in air-conditioned houses.

Obviously, even the most foolproof method of prediction cannot be guaranteed to hit the bull's-eye every time. Some allowance must be made for such unusual conditions as families taking extended vacations, or a houseful of kids running in and out all day. And certainly actual cost will vary somewhat with summers that are much hotter or cooler than the norm. A really hot summer will naturally boost actual costs over predicted costs. But over a several-year period the actual cost for a house will still average close to the cost predicted (which obviously can be based in advance only on an "average" summer). Or a combination of such conditions can easily cancel each other out and predicted costs will be amazingly accurate every summer.

Calculated by subtracting 70° from the average monthly emperature and multiplying by number of days in the nonth. Doing this for each month of an average summer rives total degree-days for any location (listed for 15 cities in the next page).

Note: this article is based on a new report just written by Carrier Engineers S. F. Gilman, L. A. Hall, and Director of Research E. P. Palmatier, for presentation in June to the Imerican Society of Heating & Ventilating Engineers.



Photos: Frank L. Miller; Ben Schnall



Architects: Curtis & Davis for New Orleans Builder F. C. Loucks



Architects: George Nelson & Associates for American Houses Inc.

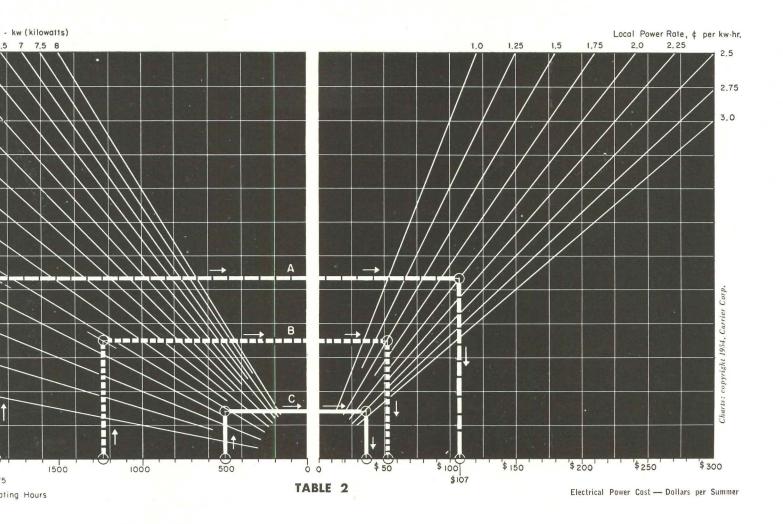
How the new prediction system works is illustrated by using this 1, sq. ft. house in New Orleans as a test case. It is well-shaded by trees umbrella-like overhangs. Air conditioning is by means of a 2-hp air-cod unit with a capacity of 21,600 Btu's and an average electrical input of 2.7 These figures are necessary for the calculations and are supplied by the matacturer. Other data needed to predict operating costs in New Orleans taken from the profile chart on this page:

Total degree-days per summer: 1,519 Mean outdoor design temperature, Tm: 88.5° Local power rate for cooling: 2¢ per kw-h

As degree-day data are not now available for all cities, architects and build can substitute a figure given in the profile chart corresponding to the nea city. A more accurate number can be obtained from local Weather Burdata (see bottom of p. 125). Meanwhile engineers hope that architects builders will urge the Weather Bureau to compute degree-day data for all cities.

Mean outdoor design temperature, given for 15 cities in the profile che can be secured for other cities from data in the ASHVE guide. It is the side design dry-bulb temperature minus half the daily temperature range, the case of New Orleans the outside design dry bulb temperature is 95 the daily range is 13. So: 95–6.5 equals 88.5°.

Another basic figure to the predictions is the calculated cooling load in B for the house, based on the 24-hour method discussed on the preceding part for this house in New Orleans the calculated cooling load is 20,500 Btu's hour, or 1.72 tons.



- **p 1.** Determine the load factor F. This is the nour cooling load of the house (20,500) divided the capacity of the unit (21,600) or .95.
- p 2. Find the total operating hours per sumfrom chart 1. From a point on the base line ,519 (which is the degree-day mark applicable New Orleans, secured from the profile chart) a ical line is traced up to the F diagonal for .95 ich is the load factor worked out in Step 1), and orizontal line is followed to the right to the Tm gonal for 88.5° (the mean outdoor design temture for New Orleans). From that point a verline is traced down to the base line which ends ,875; this is the total number of operating hours.
- ting at lower left with 1,875 hours, follow dotted A vertically to the power input diagonal for kw (electrical input to the cooling unit), go t to the power rate line for 2¢, and drop verly to total power cost: \$107 a summer. In this this is total operating cost since an air-cooled lenser is used and there are no water charges. a house is not outfitted with a water saver the a cost for city water is easily estimated from operating hours, the local rate and manufacr's data on water usage for a particular size unit. cooling tower is used the extra cost for make-up r is negligible—no more than about \$4 a sumfor the average house even in Texas.

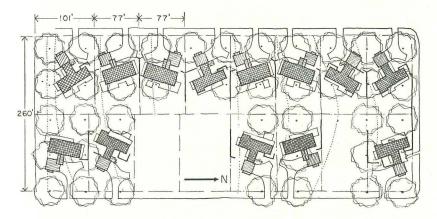
For check purposes, another example is shown by dotted line B, which predicts the operating cost if this house were in St. Louis—a city of less prolonged hot weather than New Orleans. This assumes the same 20,500-Btu 24-hour cooling load and the same 21,600 Btu capacity air-cooled unit. The method used is exactly the same as in example A (above). Because St. Louis suffers fewer degree-days (813) than New Orleans, has a lower mean design temperature, and has a 1.5ϕ power rate, operating cost comes to \$52.

Finally, example C shows how operating cost is predicted to be \$36 a summer for the \$15,500 New Jersey house shown on p. 154.

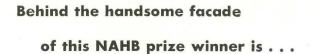
Cooling profile of 15 cities

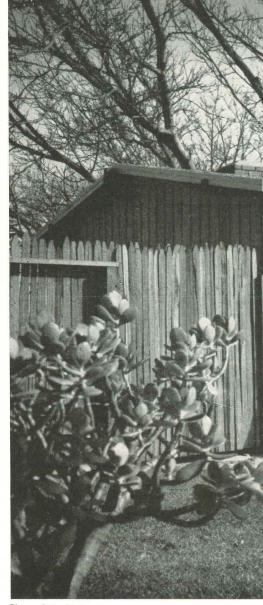
City	Degree days	Outdoor design	Mean outdoor design	Power rate cents/kw-h
Atlanta	924	95°.		1.3¢
Charlotte	544	95		2.0
Dallas	1,711	100	89.5	1 . 65
Detroit	430	95		2.25
Houston	1,483	95		1.5
Jacksonville	1 , 483	95		1.5
Little Rock	996	95		1.5
Nashville				
New Orleans				
New York City				
Oklahoma City .	894	101	90.5	2.0
			87	
St. Louis				
Syracuse	304	93		2.0
Washington				

Power rates given cover electricity only, exclude "demand" charge tacked on in some cities just for air conditioning. This charge varies with the size of the cooling unit and must be added to predicted cost in cities where it is levied.



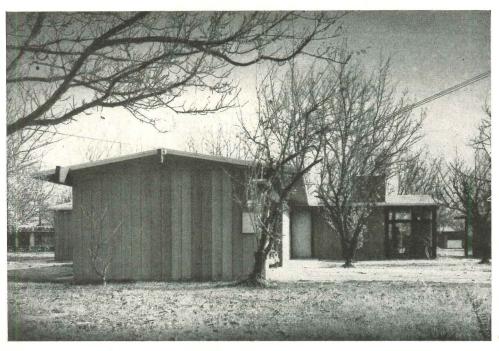
Staggered siting gives variation, saves trees. Seven houses are like the model at right; the other six have a rectangular plan, at same price.





Photos: Julius Shulman

A four-zone pl



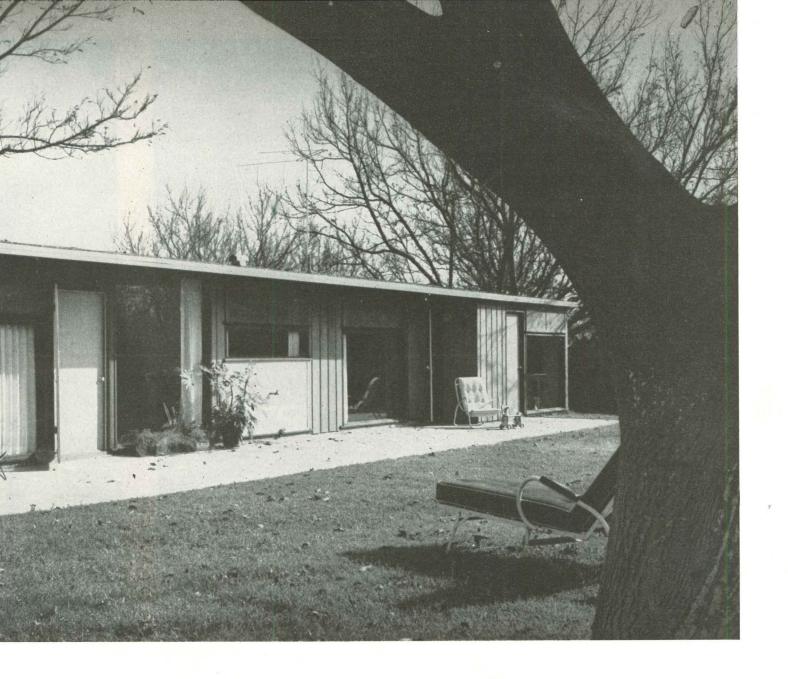
LOCATION: Northridge, Calif. BLUE RIBBON CONSTRUCTION CO., buil SMITH & WILLIAMS, architects

GIBRALTAR SAVINGS & LOAN, financing

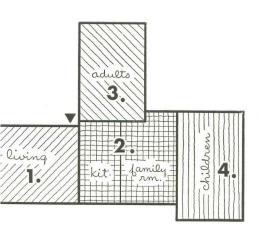
SIZE: 1,400 sq. ft. PRICE: \$16,500

Consumers will see this house in an autumn issue of Today's Woman

Walnut grove surrounding the houses pro summer shade and privacy, adds beauty t neighborhood. Lots are 77' x 135'. This solid is the end of the parents' bedroom; the wing at is the living room. Vertical siding is Cali, redwood, nailed over 15-lb. felt to studs. interior walls are plastered.



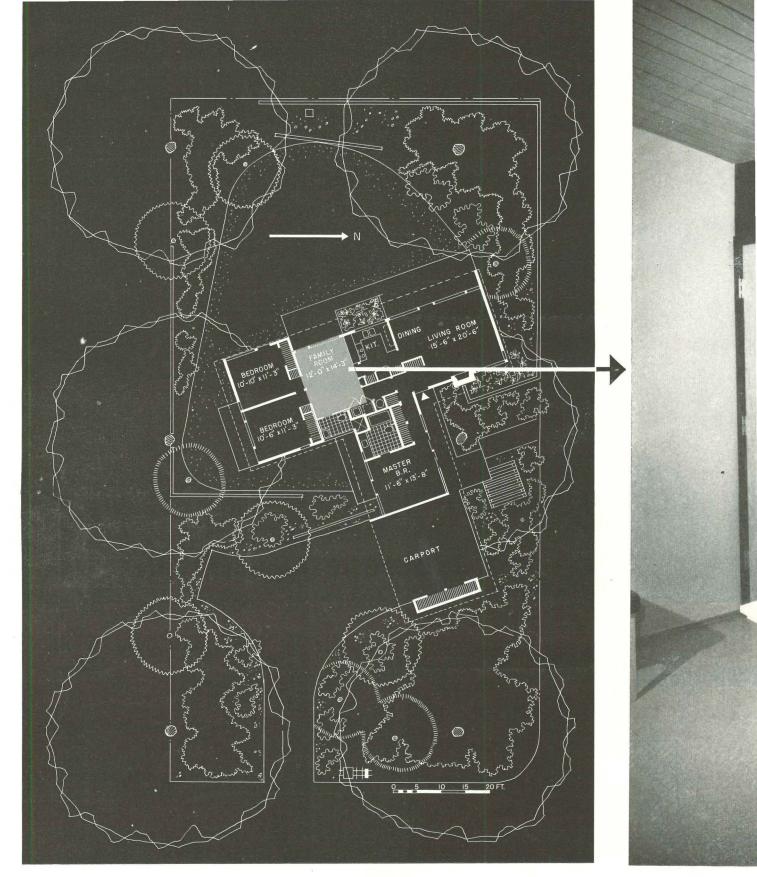
at makes family living easy



Because of its four-zone plan, this 1,400 sq. ft. house has what people pay more money to get: peace and privacy for each member of the family. Its separate areas are arranged so that the family living here will not feel crowded together.

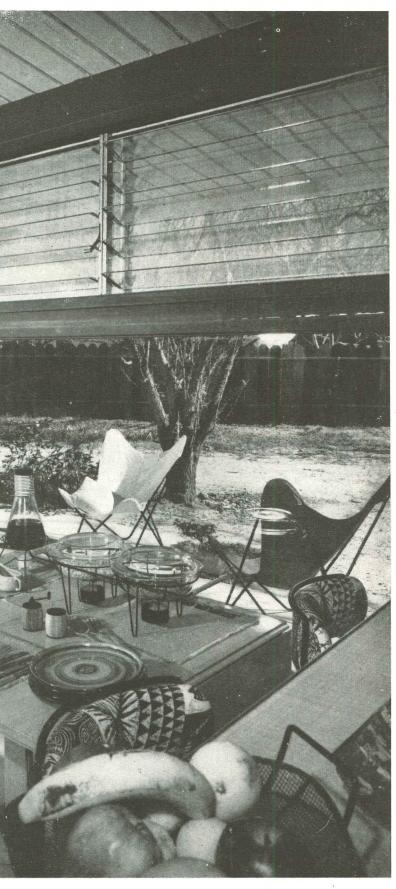
The kitchen-family room zone separates the living room at one end from children's bedrooms and bath at the other. The parents' bedroom is a separate wing with its own bath. So this is a house which respects the children as well as the adults, gives the children two bedrooms that open up to the family room or playroom where they can carry on their own activities without bothering their parents.

Blue Ribbon Construction Co. of Hollywood built these 13 houses as their first project and had the good judgment to get designs from Architects Smith & Williams. The builders still have five houses unsold, entirely because of financing. Sales price is \$16,500; the FHA mortgage is only \$11,200. Conventional mortgages are \$10,500 with a second mortgage of \$3,500 running for three years.



"The family room makes this house really livable," says Architect Whitney Smith. It can be used for dining, play space, adult game room, laundry, study, TV or hobbies. Equivalent space is normally given over to laundry, breakfast room or to a bedroom hall.

Heart of this plan

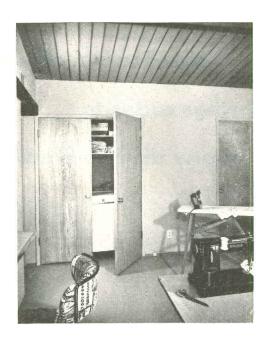


ally located family room

Flexible space in family room is an outstanding feature. Window louvers are high to put screens above eye level and to take warm air away at ceiling. Background fence is needed to create privacy from the neighbors because of the large windows in the house.



Children's bedrooms open off family room. Their bathroom is out of photo (at left). No space is wasted on the usual bedroom hall.



Washer and drier are in compartment behind these doors in family room and back up to bath. Thus family room becomes temporary laundry. Flexible space is an asset.



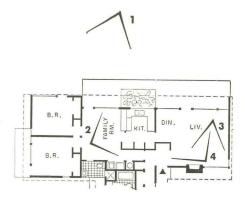


1. Post-and-beam facade is divided into a succession of almost square panels. Each panel is strongly outlined, so that it doesn't matter if adjoining panels contain different materials: the dominant, square outline makes them all look like members of one family, gives the complete facade coherence and unity.

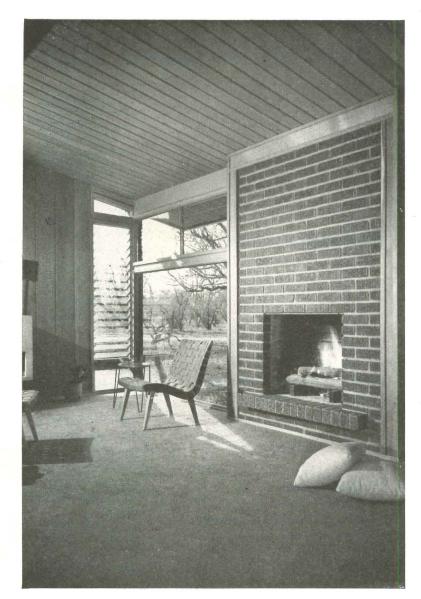
2. Inside the same technique was used: dark posts and beams throw a strong frame around each interior element. Just as they frame glass, jalousies, doors, painted panels or siding on the exterior (and pull them all together), so also they frame kitchen counters and storage walls, fit them neatly into a basic grid.

Panelization of walls brings order to many diverse elements









3. Even the fireplace is framed and made to look like another panel. This system makes as much construction sense as it makes design sense: with panelization of houses on the increase, the "panel look" is sure to become more and more prominent in the next few years. The Japanese have produced houses with the "panel look" for centuries—and have done it with a great deal of beauty, too.

4. The living room fits into the grid as grace-fully as the rest of the house. Builders who want to give their houses a wealth of different materials should study this house carefully: a jumble of surfaces, textures and colors doesn't make for richness—it leads only to "Banana Splits." But if you organize this jumble by superimposing a panel grid, you can get neatness as well as variety.

Will government displace the mortgage banker

- Wallace Moir, vice president of the Mortgage Banke Assn., forecasts it will—unless today's trends are revers
- To save private lending, Moir urges modernization of ste laws on foreclosures and loan-to-value ratios

IN THIS MONTH'S NEWS

(see pp. 33 through 54)

Rising restrictions on small homes and subdividing worry builders so much that NAHB asks FHA insurance for schools

Housing bill hearings reveal builders closer to labor views than to lenders; nearly everybody finds fault with FHA Sec. 221

Homebuilding picks up spring momentum and heads for a big 1.2 million house year

Mortgage money gets so plentiful that lenders begin scouting the nation for good loans again

Curt Mack quits as assistant FHA commissioner in charge of underwriting to head Baltimore firm Is the government now so far into the home mortgage finance field that private mortg bankers stand in peril of becoming extinct? If private lenders vanish, will private buil perish, too?

One man who thinks so is white-haired Wallace Moir (rhymes with lawyer), 53-year Beverly Hills, Calif. mortgage broker who is vice president of the Mortgage Bankers A of America and its nominee for president next year (see p. 47). In a logically reason speech that managed to avoid the tiresome clichés of viewing with alarm, Moir set f his opinion last month before MBA's southern mortgage clinic at New Orleans. Because of Wally Moir's prestige within and without the mortgage business, his convictions of mark a milestone in policy-shaping not only for MBA but for other housing indu groups as well. Said Moir:

"Every year the scope of government's responsibility and the range of its activity in the home mortgage business increases. We came to expect this under a Democratic administration. We are now learning that the

same thing is to be true under a Republican administration. . . . The FHA of 1934 was merely an auxiliary instrument of the private mortgage market designed to aid in spreading the risk and restoring the confidence of a demoralized industry to make its own decisions. The FHA of 1954 MOIR



is an instrument of government policy. . . . There is a steady drift away from concepts of sound credit as determined in the market to concepts of credit based on the borrower's inability to measure up to the standards of the market. The provisions of the pending legislation which create both a special class of FHA loans for families unable to borrow otherwise and a government facility to make funds available [for them] are another long and very ominous advancement of this tendency. Never before, outside the realm of public housing, has a welfare criterion for credit been made so explicit in government."

Euthanasia and suicide? As Moir saw it, this "drift toward a welfare basis for credit" means the government must constantly take over more details of mortgage financing and, eventually, of homebuilding itself. First, because it insures the lending risk, government decrees what risks to take. Then, because government holds the bag, it will impose its judgment on who gets the money and what kind of property. Even now, warned Moir, if it decides some people need homes more than others (as implied in the proposed FHA Sec. 221), "it can and will turn its powers" to forcing private industry to build them.

Charged Moir: mortgage bankers in operating with FHA and VA programs r a mistake if they surrender their res sibility for mortgage underwriting, lea government the judge of value, credit risk. "In so doing," he said, "the mort banker may be practicing on himself a of euthanasia, a gradual and not unplea method of self-extinguishment. With primary function of responsibility taken him, he falls into the roll of an agen securities salesman. This is a tenuous tion, because it is one that may also exercised by an employe [of governme

Look at the record. Were such fears fetched? Moir pointed to farm mort lending. After the government "carved a substantial domain in farm mortgage ing through the National Farm Loan and Land Bank System," he noted, "it only by a phenomenal feat of adaptation a changed environment that mortgage bar were able to find survival in the urban fi

No less than mortgage bankers who for the lure of easy FHA-VA profits, said I do "homebuilders seem also determined self-extinction." He continued: "To a h builder, easy credit has an almost irresis appeal, and, no matter at what cost obta he is likely to be for it. Full guarantees, tracted amortization, low interest rates, ernment credit supports all look good to ... But the cost ... may be greater that counts. He should realize that, as govern displaces the function of the private lend forward its objectives, it will also move the private builder." The method: more trol over design and construction sys prices, warranties. "In the end," said "the government may find this a compliway of doing business and resort to hirir own contractors, after the manner of British and nearly all continental home h ing today. Private building cannot long except on private credit."

How to save private lending. Moir conceded that FHA came to life because "our conventional loan system is not too well adapted" to modern housing needs. Moreover, he said, FHA has demonstrated that with loans amortized faster than homes depreciate, it is safe to lend more money on a house than most state laws will permit. FHA has shown, too, that mortgage money must "flow readily" to capital-shy areas to sustain a big volume of homebuilding.

Yet-perhaps because FHA for 20 years has provided a crutch to permit capital flow and high loans—the conventional mortgage lending system across the nation is as archaic today as it was in 1930. Cried Moir: "Over half our states maintain foreclosure laws that add both to the expense and the uncertainties of realizing upon the security of a loan, while some have gone even to the extent of making a deficiency judgment actually unobtainable, or practically unenforceable." Leading campaigns to modernize state foreclosure and raise limits on the ratio loans-to-value is "probably the most important job mortgage men can do" to keep mortgage lending from becoming more and more under government domination, said Moir.

Forward into the past? Moir philosophized: "Because our social problems in housing are not yet fully solved, we are inclined to ignore how surely, if gradually, they are being solved. . . . Instead, with our eyes fixed only on the remaining problem, we rush heedlessly to take measures that offer the illusion of the quick result. We plunge into the demolition of acres of deteriorated houses in the midst of the worst housing shortage in our history. . . . We build new public housing at \$10,000 a unit for the least competent while ambitious and self-reliant people, taxed for this purpose, are forced to be content with much less, often built with their own labor."

All this, Wally Moir is convinced, means "we drop our dependence on a free market economy, which has pretty effectively demonstrated its ability to raise living standards, and adopt measures that at best may only slow up its progress or at worst may destroy both it and its fruits...."

Amateur magician. Moir's views—broad, philosophical and forceful—reflect the deep convictions of a man who sums up the role of a mortgage banker this way: "We have the obligation to translate the earnings of the country into the most useful building projects in the public welfare."

Wisconsin-born Moir started to follow his father's career in life insurance, but confesses "I had no natural inclination toward it." Soon after graduating from Stanford University, ne met a friend who was an appraiser for Metropolitan Life, watched him appraise some nomes, liked the work and, taking advantage of engineering training, soon became an appraiser himself. By 1930, he was vice president of Pacific Mutual Mortgage Guaranty Co. and when the firm was liquidated four years later, Moir bought its mortgage business with

John Hancock Insurance Co. and founded the company that now bears his own name. In 20 years, Moir's portfolio of loans has swelled from \$4 million to between \$85 and \$90 million. Last year the firm handled new loans at a \$1 to $1\frac{1}{2}$ million a month clip for John Hancock, American National Insurance Co. of Galveston and Great Western Life Assurance Co. of Winnipeg. Only half his business is residential; Moir also arranged the \$13 million mortgage for Los Angeles' new Statler Hotel. Although his wife, Phyllis, is the daughter of A. N. Kemp, president of Pacific Mutual Life Insurance Co., Wally Moir notes quietly that "we have never done a penny's worth of business with them.'

From college baseball (third base), Moir has now switched to paddle tennis at the

Bellaire Bay Club and golf (14 handicap) at the Los Angeles Country Club. He is a devout Christian Scientist, served three years as a reader—the maximum the church allows.

As a boy, his ambition was to be a professional magician. "I don't think I ever really lost the idea," he recalls, "until I had to foreclose on one of the world's greatest magicians. There he was, seated across the desk from me, completely helpless. And in a situation like that, he couldn't produce anything."

Wally Moir has settled for becoming a skilled amateur magician—much in demand at parties both for his legerdemain and for his wit and charm.

If mortgage bankers are headed down as perilous a road as Moir believes having a magician leading them seems like a fair idea.

Chicago public housers develop FHA-blessed plan to mix public housing, rehabilitation

Chicago public housers came up with a scheme that blended the public housing that builders and realtors hate with the rehabilitation they love.

Instead of blasting entire slum neighborhoods off the map as New York and most other cities now do, Chicago's "Rockwell neighborhood plan" would demolish only the worst blight and let private operators repair the rest. The plan, 18 months in preparation, would mingle high-rise, public-owned apartments with remodeled two- and threestory buildings. The small buildings would remain under private ownership if the owners agreed to fix them to standards public housers set. If they refuse, the Chicago Housing Authority would condemn their property, remodel it and either operate the units directly as public housing or resell to private operators. The entire area would be re-landscaped, with more parks and playgrounds. Through streets would be turned back to provide quiet, traffic-free loops.

The 26 acre neighborhood involved—bounded by Monroe St., Western Ave., Van Buren St., and Rockwell Ave.—is one that the Chicago city council approved for total razing and redevelopment in 1950. Under the new plan, some 150 buildings would be torn down to make room for 1,055 public housing

units. But 135 buildings with 300 units would be left as is in private hands or rehabilitated.

All in all, the Rockwell plan was loaded with political sex appeal. It dovetailed with the Eisenhower emphasis on a broad approach to urban renewal. It would (said proponents) reduce the fearful cost of slum surgery. It cleverly put public housing in a pump-priming role in fighting blight.

PHA officials in Washington, with their usual turtle-pace, had not yet approved the plan - or allocated Chicago enough public housing units to carry it out. But John Nystul, technical assistant to FHA Commissioner Guy Hollyday, flew out from Washington to see it and called it "a national pattern for urban renewal." He predicted such combination public and private efforts could so bolster the value of property in the neighborhood that owners of the old buildings would have no trouble in getting FHA remodeling loans—presumably under the proposed Sec. 220. Said Nystul: "This looks to me the best example of how the various government agencies can work for a common goal. And if it works ... it may well provide the example for similar developments."

Commented one NAHB leader in rehabilitation: "This is doing rehabilitation the easy way. We're trying to do it the hard way."

ROCKWELL PROJECT WOULD COST \$15 MILLION, END SLUMS NOW HOUSING 700 FAMILIES





Photo: Patry Carr Studios

Handsome project gets ax from Connecticut VA: "Go to California if you want such houses"

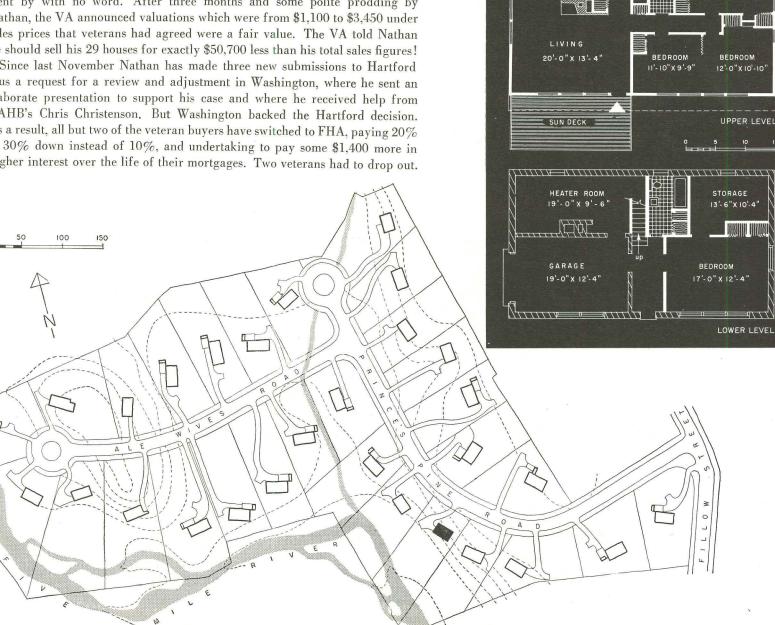
say appraisers, devaluating houses as much as \$3,450

st July Builder William Nathan finished his model house in Norwalk, Conn., miles north of New York City, sent news releases and a modest advertiseent to the newspapers and was pleasantly surprised to sell 20 of his 29 houses the first ten days. Prices were \$18,000 to \$23,000.

yers obviously liked his uncrowded, contemporary houses and his g hillside lots, a third of which bordered a pleasant stream where there could swimming holes. As most of his buyers were veterans, Nathan asked the artford VA office for a certificate of reasonable value and prepared to do siness with VA.

of the VA did not want to do business with Nathan. Week after week ent by with no word. After three months and some polite prodding by athan, the VA announced valuations which were from \$1,100 to \$3,450 under les prices that veterans had agreed were a fair value. The VA told Nathan should sell his 29 houses for exactly \$50,700 less than his total sales figures! Since last November Nathan has made three new submissions to Hartford us a request for a review and adjustment in Washington, where he sent an aborate presentation to support his case and where he received help from AHB's Chris Christenson. But Washington backed the Hartford decision. s a result, all but two of the veteran buyers have switched to FHA, paying 20%30% down instead of 10%, and undertaking to pay some \$1,400 more in

Hillside house plan (below) one of two offered by Nathan cant levers a big sun deck toward the view. Two one-story plans matc this with paved terraces. All houses have fireplaces, living-dinin areas ranging from 296 to 342 sq. ft. Activities room and bath o lower level are extras. Selling prices: \$18,000 to \$23,000.



Should VA be allowed to have a design dictatorship? No builder wants to be told by the government that he must or must not build a certain style of house. Yet in effect the Connecticut VA has told Nathan and his buyers that they cannot expect VA financing on these contemporary houses.

Nathan is sure his low valuations are due to his designs. VA has accepted his lot prices. There has been no serious effort to disprove his cost figures, which he prepared with great care and had certified by a public accountant. In fact on about half his cost items which a VA inspector went over, the VA had given him a higher allowance than his own figures.

But about his designs the VA grumbled that people who want houses like that should go to California. "In New England we should have Cape Cods, colonials and split levels."

One specific complaint voiced to Nathan was that his houses would have poor resale value because they appealed to too few people. Yet neither the mortgage broker nor the bank handling the financing is worried about resale. Said Lester C. Persson of Lomas & Nettleton in Stamford, who handled the brokerage and who finance more new construction in that area than any other firm: "When a project like this sells out in two weeks and a half we don't worry about resale. We thought this was a good buy or we would not have financed construction."

Two impartial appraisers valued Nathan's houses at more than his selling price and one flatly said he was selling them too cheap. To the credit of FHA, it valued his houses at the sales price.

On the subject of resale values, the members of H&H's October Round Table said: "Ten years from now the market acceptance of houses whose plan and design were 20 years out of date when they were built will surely be much lower than the market acceptance of houses up-to-date when put on sale."

Houses fitted to their sites. Nathan sold 15 of his one-story designs and 14 two-story houses on hillsides. Designs and siting are by his wife who studied architecture at the University of Michigan and who has been a designer in architects' offices.

"We try to get three things," said Nathan, "view, exposure and privacy. We attempt to place each house so that it gets the maximum of all three. That implies staggering the setback, considerably rearranging and in some cases changing window locations.

Because of our panel system we're able to interchange panel that the high windows are on the north or where they are new for privacy, and the big fixed glass areas to the south or the volume We always preserve the trees, spending two or three hours site maneuvering to save a particular tree or clump of birches still get the three things we are after."

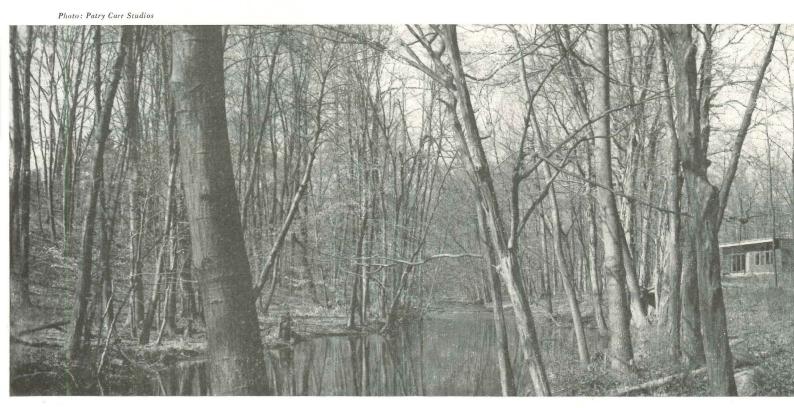
Panel system works well. "The panel system is admiral Nathan feels. "It lets us do all our cutting and prefabbing at site. We then move the panels to the job and it takes about an hour to erect all the walls. Because we've been operating post-and-beam system we've combined a trim with a struct member to give us a 4' x 4' column under the beam. It elimin a lot of the interior trim that has to go on in a house after sheet rock is installed. The whole window is framed in a comb tion of structural and trim members. We use a jalousie win that gives 100% visibility and opening and gives a great deafteribility. All our windows fit the 4' module.

"The only complication is that we have to cut about 3/16' the glass. We buy the hardware and our glass man supplied glass. By buying only the hardware we eliminate a storage plem, as we can keep material for windows for 10 to 12 hous the space we used to need for windows for three houses. Bu question of a window for a modular system has me complibated. If you change the house module to fit some existing dow you find nothing else is modular."

Houses have many variations. Because he had four differences and tried to fit each house to its own site, plus the dividual desires of his buyers, Nathan found he was often turn out what amounted to a custom house. The most elaborate has 9½ rooms, air conditioning and about \$2,000 worth of pliances. Buyers found the lower floor in the hillside houses them great flexibility. The development should be finished in other month; then Nathan will move on to a somewhat leading group of houses nearby.

Nathan's difficulties with VA cost him a great deal of time money, kept his 21 veteran buyers stirred up and delayed his struction.

"The VA was set up to protect the veterans but in this callets them down. I'm doing more for these veterans than VA



138

buyers say: "For two years we have looked at names all over Long Island, Westchester, New Jersey connecticut. We were delighted to locate Mr. Nas development because it is exactly the kind of we would like to build ourselves. It offers many stages not available today in mass-produced homes."

ave spent five years looking at houses and we can fully say that these are closest to the type of home ave always wanted. We think the asking price is and equitable when compared with other houses had GI financing."

the project is completed the majority of houses e close to what is commonly known as custom-built. tainly won't look like many of the developments we been through where a single type of outdated, afortable house stretches on mile after mile without gle tree to break the landscape."

vere extremely pleased to find a house in which body apparently cared about the workmanship."

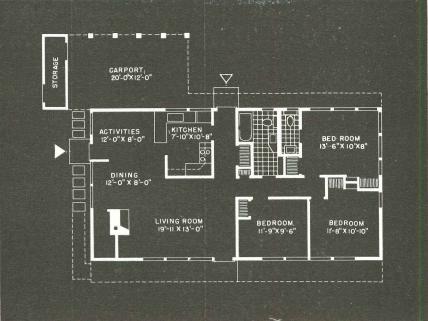
elieved we had found the home we wanted, but no to be cautious in an almost once-in-a-lifetime re we brought in an engineer to inspect the house. und it superiorly constructed. We sent the floor plan father, an architect and builder of \$40,000 houses. as enthusiastic. The strongest sales talk came from liter of "Interiors" magazine."

hecked the house against the New York Archial League's book and check list, Before You Buy a e (H&H, Aug. '53). The house bats a thousand."

ratched the model house grow out of the ground, by day. What we saw certainly helped us to make ecision. Later we liked the thought and care that into placing our own house on the plot we chose, onsideration for land and trees, the variation in defor privacy and to adapt our house to its particular onment. In the light of today's market and prices, eve your house carries a fair price. It is more than walls and an overhead: it is a way of living."







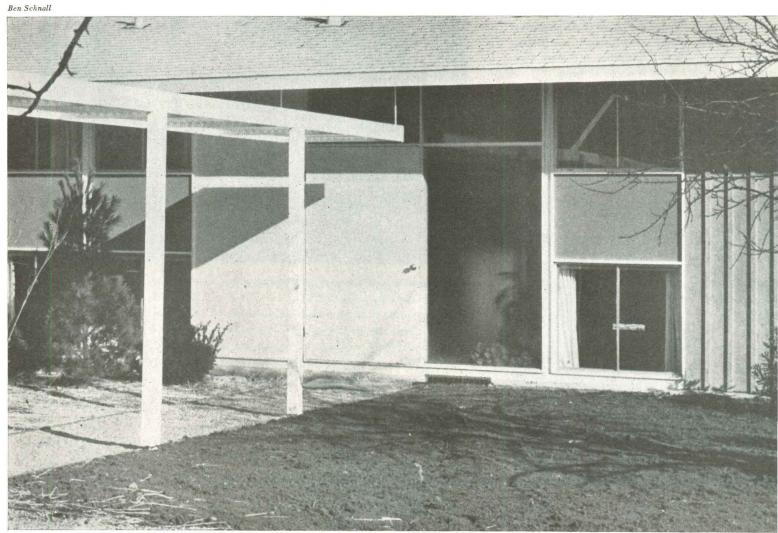


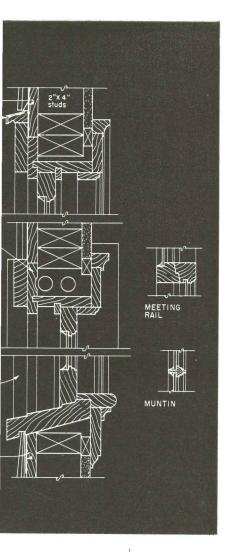
How to give a slab house a basement equivalent is nicely demonstrated by the plan of this 1,200 sq. ft. house: 356 sq. ft. living dining area is supplemented by a small playroom; there is bulk storage space in the carport; special storage in the bathroom. Exterior is unpretentious, comfortable in its setting, with cedar shingles, louvered windows, low-pitched roof. Exposed beams and carefully shaded floor-to-ceiling windows add style to living area.



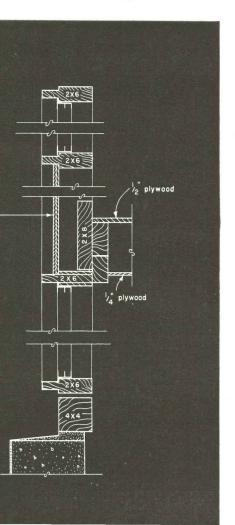
Damora

Today's millwork ... this way





r that ...?



A 14-page report on House & Home's survey of the millwork industry its present production and its future opportunities Hundreds of architects, builders, p

Hundreds of architects, builders, millwork manufacturers, jobbers and dealers wrote to us to comment on the original article in the Sept. '53 issue of House & Home. It has been impossible to thank all of them individually, but without their help this article could never have been written.

Among those who were particularly helpful to the editors, and spent considerable time assisting us in the preparation of the present article, were: the Small Homes Council of the University of Illinois; representatives of the redwood, ponderosa pine and other trade associations; a number of leading millwork manufacturers; and many other manufacturers, jobbers and dealers throughout the country. Needless to say, they are not responsible for any of the conclusions presented on the following pages.

THE EDITORS.

Last September, House & Home reported that many US house architects were using *special* window and door millwork rather than less-expensive stock units, because, they said, they could not find any stock millwork that suited their particular needs. Even for volume-built houses, these architects were reported designing special millwork profiles and special frames instead of going to local lumberyards for stock materials.

In documenting this report, House & Home published the special millwork details used by several dozen of the best known house architects. These details revealed a second interesting point: whether designed for Florida or for Maine, for Illinois or California, the details were all startlingly similar.

And this suggested a third thought: it might be easy to develop a very profitable new line of stock millwork from a composite of these details.

Some millwork manufacturers indicated immediate interest in producing such new profiles—as soon as architects and builders could agree on just what they would like.

Other millwork manufacturers were skeptical. They suggested that only a small minority of avant-garde architects might be interested in such a line, pointed out that their mills were very busy satisfying a wide demand for current stock items.

For the past six months, therefore, the editors of House & Home have gone out to find the answers to these two questions:

- 1. Can architects and builders agree on what type of new millwork they want? and . . .
- 2. Is there really a volume demand for such new millwork?

To answer the first question, House & Home subjected many of these new details (including a tentative composite of them) to the criticism of scores of architects, builders, millwork manufacturers and lumber dealers. The results of that investigation will be found on pp. 150-153.

To answer the second question—is there a volume demand?—House & Home polled a *random* sample of 1,000 house architects and 500 volume builders. The results of that poll are documented on the next four pages. Here are the most important:

When asked if they would use the kind of millwork illustrated in the Sept. '53 issue of HOUSE & HOME, in the event that it was made available as a stock item, architects and builders said "yes"—by almost five to one.

When asked whether they thought there was a "real market" for this type of modern millwork, about 76% said "yes"—only 13% said "no."

And when asked what type of millwork they themselves were using today —mostly stock or mostly special—fully one half replied that they used mostly special millwork.

These figures suggest that there is a very great, new opportunity for the stock millwork industry. We hope the industry will grasp it.

There are hopeful indications that it will. During the past few months (in some instances since our first story appeared) a number of important millwork manufacturers have introduced stock units that should go a long way toward meeting the objections of some modern architects and builders. We have shown these stock units on pp. 146-149. They seem to represent an important step forward in the development of this industry—a step that should have the support of thousands of US builders and architects.

In designing or building your houses, do you use mostly stock window and door millwork, or mostly special millwork?

ANSWERS:

mostly stock-42%

Note: a breakdown of answers received from volume builders only shows that they use stock millwork two to one.

Some notes on this survey

Questionnaires went out to 1,000 house architects and 500 volume builders, selected entirely at random

Architects and builders on the East and West Coasts, and in the South, agreed more frequently with HOUSE & HOME's millwork proposals than those in the Middle West

Among the most enthusiastic supporters of the House & Home proposals were leading lumber dealers, who are, of course, in close touch with the market. Many agreed that contemporary design is beginning to sweep the country

Structural use of millwork (or the elimination of window and door millwork altogether) was most frequently advocated by architects and builders on the West Coast

Many architects and builders suggested that stock units should be more closely integrated with commonly accepted systems of modular house framing—e.g., 16" o.c. stud framing, 4'-0" panelization, 8'-0 %" ceiling heights, etc.

> Several complained that some standard double glass units are not dimensioned to fit into commonly used modular framing systems

There were indications that some of the critical comments made by architects and builders did not take into account the considerable recent design advances made by the millwork industry (see pp. 146-147)

▶ Even the most critical architects and builders praised the high standards of workmanship and engineering maintained by leading millwork manufacturers. All they criticized—often vehemently—was appearance "I use about 90% stock millwork. Occasionally a combination of glazed door and window wall requires special min work. Your general arrangement is good but you would a quire at least modular variations in width and height. think the market for the type of millwork you proposed would be limited."

Brooks Cavin, AlA, St. Paul, Minn.

"This region of the US is not yet very enthusiastic about modern houses. There is some demand but it is definite in the minority. We ourselves use 90% stock millwork. Special millwork is difficult to get—as desired. Stock of signs have better details and greater accuracy."

Richard E. Bishop, architect, Indianapolis, Ind.

"Not over 25% of our work is contemporary. The balar is conventional enough so that stock mill patterns a frames have been satisfactory. This percentage is shifti more in the direction of contemporary."

J. C. Nichols Co., builders, Kansas City, Mo.

"The average millwork manufacturer is not willing to sume, as you implied, that stock millwork is old-fashion and out of date. I am sure that the millwork industry a the millwork jobbers, the retail lumber dealers and great majority of the builders in this country would agree with that premise."

Robert H. Morris, general manager Ponderosa Pine Woodwork Assn., Chicago, Ill.

"If the low-slung, rectangular-lines, large-glass-area type architecture is going to supersede the heretofore conviously tional type of dwelling, the transition will be very graduconfined largely to families able to buy a large lot site a desirous of having the 'new.' . . . The overwhelming majity of dwellings [today] are built from stock plans."

Adolph Pfund, secretary

Woodwork Jobbers Service Bureau, Chicago, Ill.

"We try to use stock window and door millwork. It wo out nicely 80% of the time. Your houses generally located in warm and mild climates. They are not suital for a cold climate. Why don't you explain that Californ homes are not suitable in other places?"

James S. Frankel, AIA, Lexington, Ky.

"I use stock millwork only because I want to utilize stothermal glass sizes, which are sized to fit obsolete sash a frames. We frequently detail special millwork in this off to 'circumvent' such inept sizing by the glass companies John Vincent Anderson, AIA, Woodstock, Ill.

Photos: G. M. Ryan Studios, courtesy Andersen Corp. and R. C. Lautman

e use no stock window and door millwork. Since our ness are of contemporary design, most of our window its are structural and as such require special design to our particular needs. . . . House & Home's millwork uld require the education of builders to show them its ue in their production. Certainly its use by us would immediate if the cost is right. Your proposal seems to a step forward. . . ."

arles M. Searle, Searle Homes, Inc. Lorado Springs. Col.

ave not used a stock window in five years. I use window enings and frames as part of the house frame."

leb Hornbostel, architect, New York City

e mill our own special sections. They are similar to see shown in your article. We have been using them the past two years."

hn J. Heltzel, designer

ghes Development Co. Inc., Pampa, Tex.

r work is entirely with contemporary design and very le stock millwork is suitable."

de J. Verkerke, builders. Falls Church, Va.

e do not use stock millwork. We have been using tails similar to those suggested in House & Home ce stock millwork . . . will not permit that contempary look."

L. Bartling Jr., builders, Knoxville, Tenn.

e use stock trim and millwork in about 0% of our houses. ecial millwork is simpler and conforms to contemporary sign. Stock millwork has been obsolete for years."

tz & Bankemper, architects, Covington, Ky.

e never use stock-always special."

pert LaPierre, builder, Seattle, Wash.

e use stock door millwork but very little (20%) stock adow millwork. We use what is currently considered ecial' because no mill stocks proper patterns for 'modern' 'contemporary' houses."

C. Hyde, builders, Peoria Heights, Ill.

e use special millwork 90% of the time because most ck millwork is antiquated. . . ."

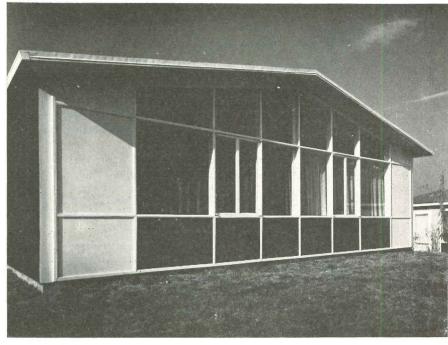
arles W. Cunningham, architect, Atlanta, Ga.

ock millwork rarely is in keeping with contemporary sign and is composed of too many parts, has little versaty and is expensive to put together."

Robert Bence, architect, Casper, Wyo.



STOCK: Architects Humphrey & Hardenberg used stock units in this glassed-in Minnesota living room.



SPECIAL: Architect Charles M. Goodman used special moldings in this panelized builder house in Wheaton, Md.

Would you use the profiles suggested by HOUSE & HOME Sept., '53 issue, and pp. 150-153, this i if they were available as inexpensive stock items?

ANSWERS:

yes-70%

no-15% no opinion-15%

Note: a breakdown of answers received from volume builders only shows that they would use the House & Home profiles by more than two to one.

> "If I were able to get any of the House & Home profiles I would be delighted. We have just completed a residence in one of the smaller towns near Minneapolis for which the millwork bid comprised 50% of the total cost of the building. As in the past we spent much time trying to find, and then educating, a builder to the same simple sections which you have shown."

Norman C. Nagle, AIA, Minneapolis, Minn.

"Each of our four local architectural offices is using designs similar to the ones shown, and it has been necessary for us to make them in our workshop. If you could get architects to standardize on certain designs, we are sure that through our dealer organizations we could get the manufacturers to introduce these in their regular lines."

Robert A. Dean, president Red Mill Lumber Co., Traverse City, Mich.

"I cannot say enough for your idea of bringing into this world a good, standard, up-to-date millwork detail."

George R. Munkwitz, draftsman Brunsell Bros., Lumber, Millwork & Precutting Madison, Wis.

"As an architect, I strongly endorse your recommendations and sincerely hope you will carry on to a successful conclusion. As manufacturers of contemporary millwork, we appreciate your efforts in aiding our company and others who are perhaps contemplating entering the contemporary millwork business."

L. S. Emert, vice president Solar Air-Flo Inc., Goshen, Ind.

"There would be many advantages if your suggested millwork profiles were manufactured out of redwood, with its durability and dimensional stability."

Kenneth O. Smith Jr., production manager Warm Springs Redwood Co., Willits, Calif.

"We think that if stock milled pieces, especially rabetted structural members, were readily available, they would be very useful to architects and builders, particularly in relation to the housebuilding industry where the highest standardization of parts is most likely to occur. . . ." Keyes, Smith & Satterlee, architects, Washington D.C.

"As far as we are concerned, you are covering a very 1 usual type of house which is either designed for use in big development or an individual home by an archite In a big development, the millwork is made in quantit and run in long runs on molders, etc. . . . Thus it g down to a very reasonable price. If the house is a or time design by an architect, there would be so few them in this area that it would not pay to carry stock m work to meet their specifications. Of the 500 to 700 hous we sell a year, I think there are less than 50 that are signed individually by architects. The rest are taken fro plan books or are built in large developments. . . .

"What you say about the merchant builder is pertine We have been trying very hard to adjust our thinki and operation to this type of builder. However, there a still many small contractors and builders in this coun who are building thousands of houses and who must considered and catered to."

Elias W. Nuttle, president The Nuttle Lumber & Coal Co., Denton, Md.

"Naturally, for millwork manufacturers to produce new signs, either in component parts or in unit openings at lowest price, there must be sufficient volume. The par wall type of modern house, as of now, is in the minorit

Colman Dever, vice president Ideal Co., Waco, Tex.

"I like my own designs best."

A. S. Higgins, architect, Bangor, Me.

"If a builder in our area wished to use shapes similar those proposed by House & Home he would have to only a nominal 'extra' to have them run off to orderhe would then have any other features he wanted."

Bettenburg, Townsend & Stolte, AIA, St. Paul, Minn.

"I don't think you will-and I hope you won't-ever the architects to agree on which detail should be sta ardized. There is little enough difference as it is. . Van Evera Bailey, AIA, Oswego, Ore.

"The cost of changing patterns to those you suggest negligible. Any millwork plant can change its patterns conform to a customer's wishes in a matter of minutes they are glad to do so. There is no extra cost for this an order of about 5,000 lin. ft. or more in most plants. .

Carl Peterson, Clear Pine Moldings, Princeville, Ore.

Do you think there is a real market for the type of millwork proposed by HOUSE & HOME?

ANSWERS:

yes-76%

no-13% no opinion-11%

Note: a breakdown of answers received from volume builders only shows that five out of seven feel there is a real market for this type of millwork.

"We have seen the new type of architecture take hold like nothing else that has ever happened in the past 40 or 50 years, until now we seem to be selling fully 50% of this type of home as against the other 50% assorted old-style houses. . . . We have had to buy clear and shop-grade redwood dimension stock and have it run off locally at considerable extra expense to us and to our customers. . . . We would like to give the mills quite a hard time about their reluctance to change to a modern stock design setup."

R. N. Marling, secretary

Marling Lumber Co., Madison, Wis.

"You are perfectly right: lumber dealers are behind on new profiles. We, for one, would like to do something about it."

W. Boyd Tyler Jr., president W. J. Tyler & Son Lumber Co., Inc. Cape May Court House, N.J.

"Speaking only for the Thompson Lumber Co., we do approve and endorse your new suggestions on the mill profiles. However, one of our staff does criticize the use of framing members as finish members. He recognizes that this is a tendency but points out that much more care needs to be given to material during construction than is usual, and in addition, the member usually has to be specially treated to make it acceptable on the finished job.

"I congratulate you on accepting the responsibility of aiming to get agreement from this diversified industry."

C. A. Thompson, chairman

Lumber Dealer's Research Council, Champaign, Ill.

"We can see how your campaign, if successful, could reduce the cost to the ultimate user. In fact in our own custom operation it would be less costly to use a generally accepted detail than to work out a new one each time."

Charles E. Wagner, vice president
Burnet-Binford Lumber Co., Indianapolis, Ind.

"There is no question that [we need] simplification in the many items of lumber and millwork that go into the building of homes. . . . The public certainly has a right to expect the building and lumber industry to move forward."

Paul V. DeVille, president-treasurer DeVille Lumber Co., Canton, Ohio "Your article is timely, accurate, sensible, challenging. As you know, my personal philosophy is that wood should be used with reason and care, not merely to increase its sale. Your article should forward this approach.

"In my area, where the predominating architecture is still conventional, builders prefer to have their millwork prefabricated and assembled in units for easy and inexpensive site utilization. Stock millwork for the older types of architecture is not made from clear grades of lumber, but from 'shop' or 'cutting' grades which contain short pieces of clear lumber between . . . imperfections.

"One of the very real services that House & Home can perform would be to help popularize other than clear grades of lumber for the moldings and millwork in houses of contemporary design. If it were possible to incorporate the trend toward textured materials and rougher surfaces into modern architecture, then the lumber industry could make a real contribution to lowering costs of construction."

Norman P. Mason, trustee

Lumber Dealer's Research Council, North Chelmsford, Mass.

"We operate a line of lumberyards in rural communities—the largest being in the 20 to 30,000 population bracket. A great many of the homes in this market are not individually designed by an architect, but come out of homeplan books such as those furnished by the National Plan Service and similar organizations. In most instances, the type of millwork we furnish is determined by these plan books. Of course, we would have to carry moldings that fulfill the specifications of such houses.

"We are very mindful of the lack of coordination within the lumber industry, however, and would be interested in any efforts that are put forth to standardize on certain basic items. There is, of course, a sizable demand for the older type moldings in remodeling so that it would not be possible, obviously, to eliminate all the old patterns and still handle this type of business."

R. M. Dobson, vice president

J. F. Anderson Lumber Co., Minneapolis, Minn.

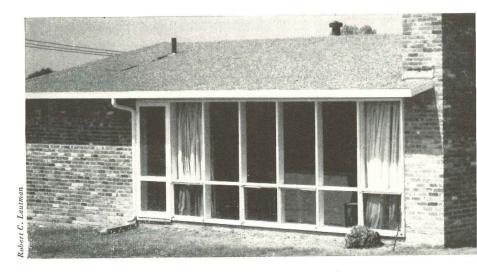
Is there anything new in STOCK millwork?

A lot of modern architects and builders seem to think the answer is "no." That, at le is what House & Home's survey indicated. Perhaps these architects and builders veright a few months ago—but as of Apr. '54 anyone who says that he cannot find semillwork for modern houses is in for a few big surprises.

These surprises are both welcome and long overdue. The drawings on the next : pages explain why.

To find out what was new in stock millwork,

HOUSE & HOME asked nine manufacturers a simple question:

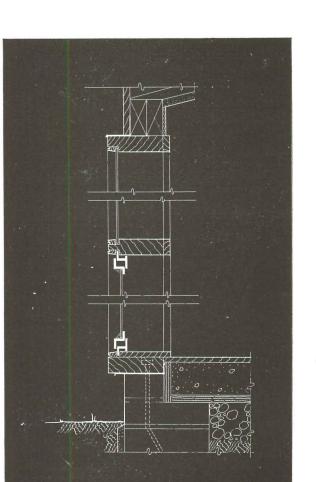


"Can you duplicate this modern, special-millwork window wall

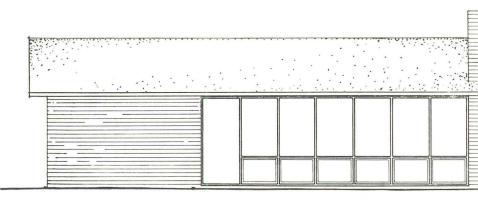
using only stock units available today?

And if so, how would you do it?"

We think that the answers deserve careful study by all architects and builders who have felt that special millwork was the only solution for them.

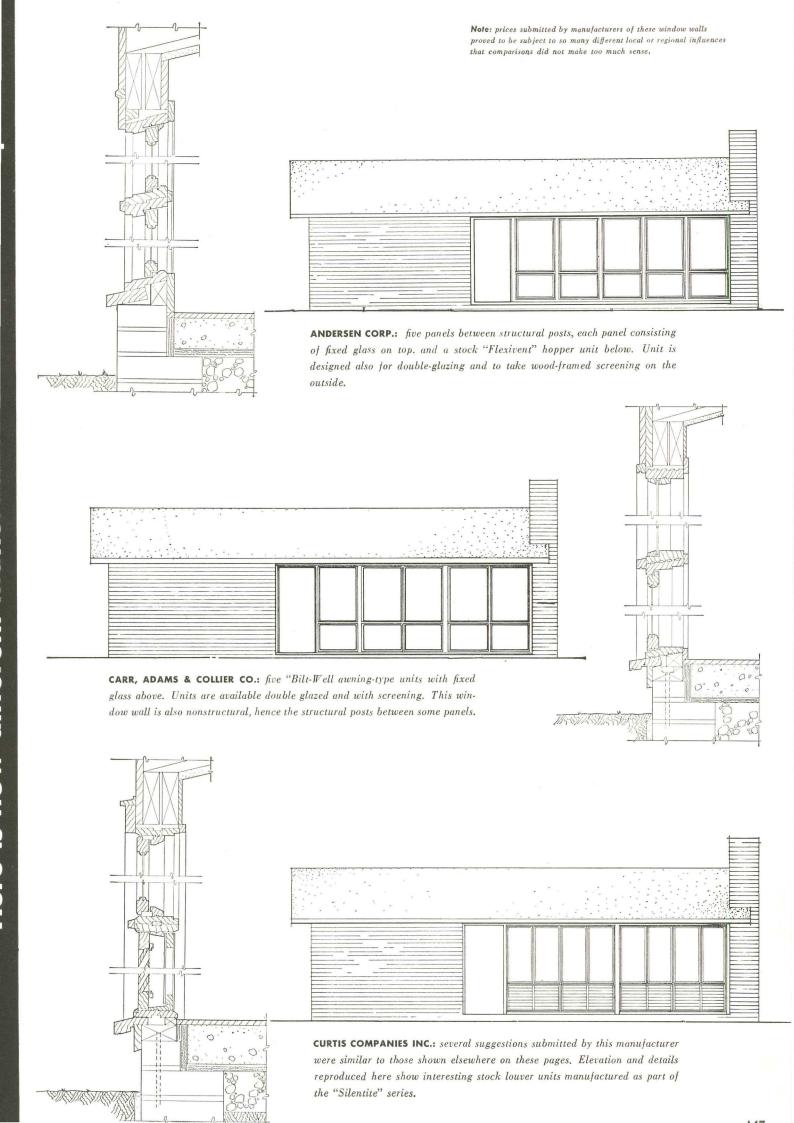


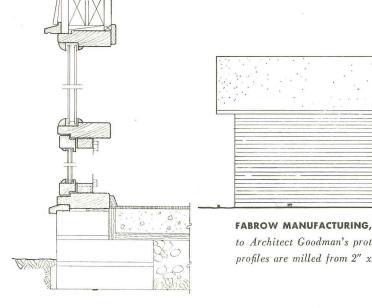
Here are typical details and an elevation of Architect Charles M. Goodman's win wall for a builder development in Hammond Hills, Va. Over-all height is 7'-4". T is a 3' x 7' stock door at left, and six fixed-glass panels over hoppers to its right.

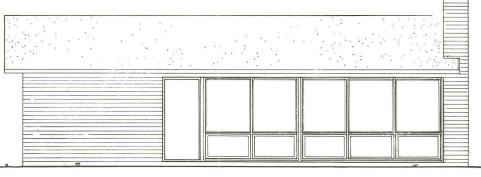


This is the modern, special-millwork window wall we showed to nine leading millwork manufacturers.

The next three pages show how they would duplicate it, using only stock units available today

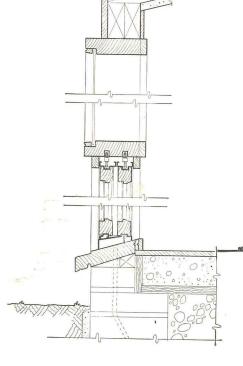


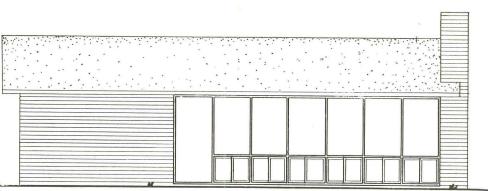




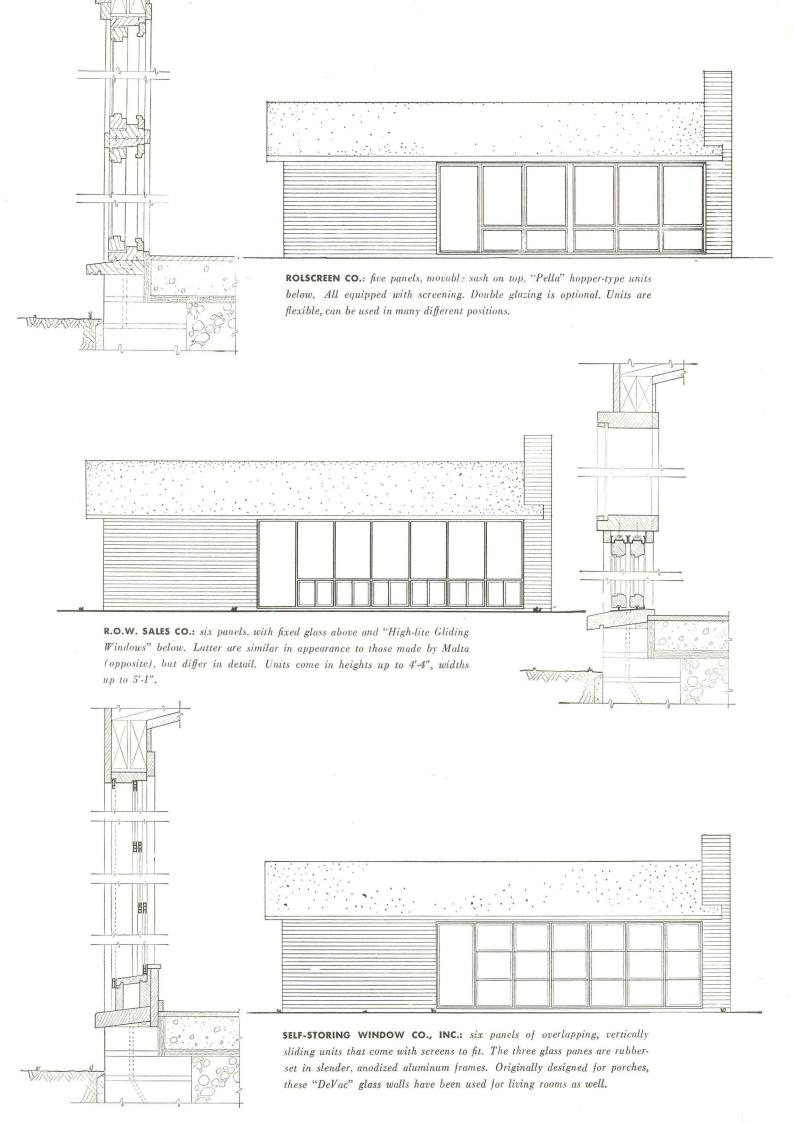
FABROW MANUFACTURING, INC.: the "Fabrorama" units are closer in detail to Architect Goodman's prototype than most other stock window walls. Most profiles are milled from 2" x 6" stock. Note unusual sill detail.







MALTA MANUFACTURING CO.: six panels, with fixed glass above and "Malt-a-Glide" sliding units below. The sliding windows come in various sizes, up to 4'-0" in height.



the coming look in millwork?

The millwork details by Harold R. Sleeper, FAIA, shown on the next three page the result of an extensive survey of manufacturers, builders and architects. The s was undertaken to find some common denominator on which most modern arch and builders could agree, and which could thus be adopted by millwork manufact interested in a new and expanding market.

> The suggestion of a single, simple profile, milled out of nominal 2" stock, was originally made by Glen M. Drew, architect, of Poplar Bluff who has used this profile successfully in his residential work for some Mr. Sleeper's research indicated that the profile seemed to satisfy the ma of window and door conditions encountered in today's residential bu

> In the vertical members, however, the profile appeared somewhat wa For that reason Mr. Sleeper has included an alternate profile that con used for all vertical elements. Further research may determine whet makes better sense to standardize on one simple profile, or to cut and a series of different but related profiles.

> In some parts of the country it may seem advisable to use a steeply p sill in place of the level profile (shown here). Any number of simple sills would fit in with the detailing system proposed here. However, a many architects and builders are beginning to find dead-level sills er acceptable, especially when the wood has been properly treated in the

Two possible approaches now seem to suggest themselves for future development:

1. It may seem advantageous, in the light of House & Home's survey, for a mill manufacturer to produce these profiles as lineal stock to be assembled into the requ frames in local mills, according to the builder's and architect's specifications. lineal footage should be produced in larger mills because proper preservative treat of most woods is absolutely essential to the success of this type of detailing. Gene speaking, only the larger mills are equipped to apply such treatment. "Proper" ment means using oil preservatives that will not affect the dimensional stability of wood. Water-borne preservatives will swell the wood—and since such swelling cha its dimensions, further kiln drying is required after treatment.

Whenever possible, pressure or similar treatments rather than the so-called " process should be used to treat this lineal stock, for pressure or similar treatments easily penetrate the entire thickness of these simple profiles. This is important, an reason is obvious: Mr. Sleeper's details show certain conditions under which the profile might be trimmed off by the local mill (especially on the inside, in conne with a plaster wall finish), and such trimming would expose the core of the mole Second, lineal stock will undoubtedly be cut off in different lengths by the local and the end grain, being most vulnerable, must be protected. The only way to prot is by "treatment in depth." Yet such treatment requires an elaborate installation few small mills could afford its cost.

2. It may well prove possible for some millwork manufacturers to produce a lin stock frames, using the simple profile shown on these pages. Such stock frames sh be dimensioned to fit into a 4" modular system. Both the Small Homes Council a University of Illinois, and the Construction Department & Research Institute of NAHB are well-equipped to suggest what standard frame sizes would make most s in today's houses.

Manufacturers are unanimous in their opposition to the structural use of millwork. Mr. Sleeper's details assume that all from will be prefabricated in a mill and inserted into the rough structure on the job. opposition to structural millwork is based on two objections: first, the millmen be

that millwork used structurally tends to arrive on the job too early, and is therefore ject to serious damage in the course of house construction. Second, millmen poin that the whole trend in building has been toward greater prefabrication in the fac and less field labor. Hence, they feel that the window that is made on the job is a backward: it is likely to be poorly assembled, poorly engineered and poorly tre-Any builders and architects who remain unconvinced and still prefer to use their work structurally will also find our suggested profile suitable for such a system.

sappeal. Designed by Architects George Nelson and Thadwick, for American Houses, Inc., the \$15,500 probove) was put up in Mahwah, N.J. by Builder Dave In land worth \$2,200. Selling price will naturally vary to geographical location and local conditions—from \$5,19,000\$, says American. Main feature of plan (right) ategic location of the kitchen which gives a woman: It over formal entrance; 2) control over terrace and its 3) control over family room; and 4) control over liv—all at one time and place.

Three good planning ideas

make three good selling points

1. furniture built into every room

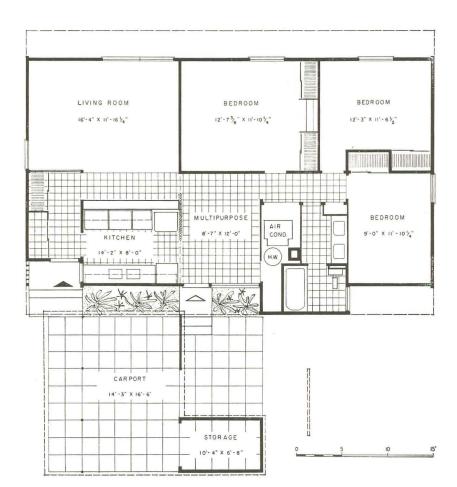
Storage-wall pioneer George Nelson includes ideas that are practical for all houses: a divider storage wall with drop-leaf desk, toy closet in the room where children play, extra drawers and special-purpose built-ins—all of which cut down the amount of furniture a family needs.

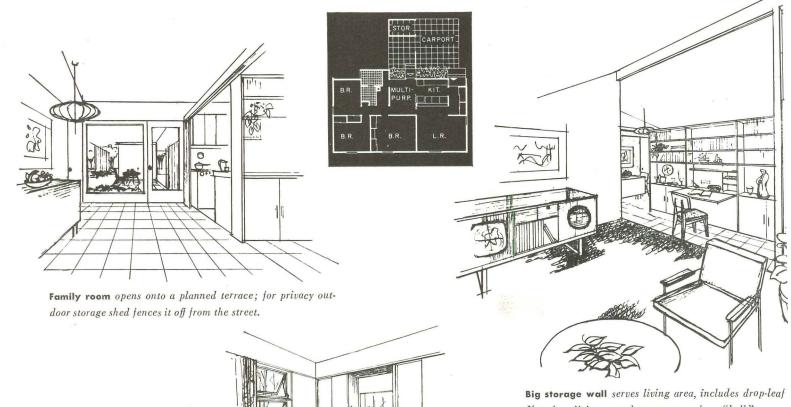
2. a versatile family room, first-rate for many uses

Next to the kitchen, this open area is strategically placed for informal meals, hobbies or housework. Furthermore, children can play here under the eye but not under the foot of their mother. And this room opens onto an outdoor terrace.

3. central air conditioning for \$36 a summer

This low operating rate—no more than the operating cost of two 3/4-hp window units—is the result of tight house design for air conditioning (p. 125). A brand-new design feature: the air-cooled condenser on the roof, inside a dual-purpose chimney.





Dressing table in bedroom between closets is built in to save space, boost living efficiency.

Painstaking design cuts air-conditioning operating cost to \$36 a summer, strikingly low because America's designers followed through on all "Five top priorities for designing an air-conditioned house" (H&H, Aug. '53):

- 1. Roof heat load is cut sharply by a 35%" blanket of foil-backed insulation over the ceiling (U=.07) and by a 4" screened vent for attic ventilation which runs the length of front and rear overhangs.
- **2. Windows** are shielded from sun by 36" overhangs, and they are fully weatherstripped. Since the house is designed to face north or south, window area was minimized on the hot east and west ends.
- **3. Moisture** from humid outside air will be kept from infiltrating the house by the foil vapor seal on the insulation. Effect of the major source of indoor moisture, the clothes drier, is neutralized by a special built-in vent running up from the drier and out the roof. If a crawl space is used, the earth is covered by heavy 55-lb. roll roofing which serves as a lid over ground moisture.
- 4. Walls are lined with 2" foil-backed insulation (U=.09).
- **5. Heat created indoors,** largely by the range, is blown out from its source by a kitchen exhaust fan right overhead.

By whittling away at each of these major heat sources American cut the overall heat gain to 20,000 Btu's an hour, based on 75° inside, 95° outside. A 2-hp air-cooled unit (21,300 Btu capacity) can be used instead of the more expensive 3 hp, normally needed in a house this size. Money spent on bolstering the house for cooling is clearly paid back by the savings on the smaller unit. Total builder cost for the cooling system is about \$1,000 over the cost of heating alone.

Average operating cost in the North is estimated accurately at \$36 a summer, \$9 monthly during a four-month season, all for electricity as no water is used. This is based on the new method engineers have worked out for figuring costs (p. 126). Even in Houston cooling would average a reasonable \$49 a summer.

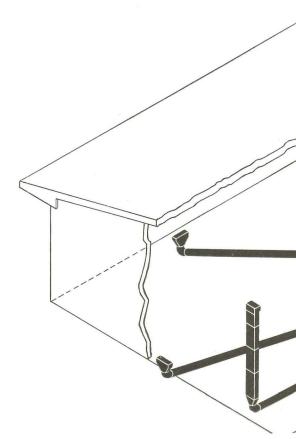
Note how living room borrows space from "hall."

The sketches on this page clearly show how Arch Nelson divides his storage plan into three categoric guideposts that every builder can use:

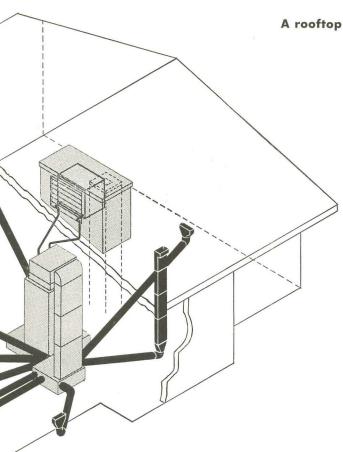
Bulk-storage space: "everything from lawn mowe bicycle, and old bureaus" handled by the outdoor. Other bulk items can go in a special attic over the rooms with access through a ceiling trap door.

Conventional storage space, mostly for clothes, is squ met by the use of seven big closets.

Shallow storage space that "can handle virtually ething else to be stored" is provided almost at one swoothe 8' storage wall between kitchen and living with this kind of planning is a basement necessary?







A rooftop water saver is camouflaged inside the dual-purpose chimney

On top of this house is Architect Nelson's deceptively neat answer to one of the thorniest problems in home cooling: where do you put the air-cooled condenser or cooling tower, neither of which is very good looking to start with?

In this case an auxiliary air-cooled condenser is used and Nelson spotted it on the roof *inside* the chimney. Thus the problem of unsightliness is attractively licked.

It works this way. The main year-round unit is in a central utility room. Heat-laden refrigerant from the compressor is piped to the roof and passes through metal tubes of the condenser. A ½-hp condenser fan draws in outside air to cool the tubes and the air is blown out through louvers in the other side of the chimney housing. The cooled Freon is then piped back to the main unit. In effect, the same method of heat disposal is used as in window units.

This kind of installation is cheap because of short pipe runs from the main unit to the roof overhead. Noise is no longer a nuisance because the attic serves as a buffer between the condenser and the people in the house. And although air-cooled condensers may be less efficient than cooling towers, in small houses like this that are properly designed for cooling the difference is too small to matter.

NEW PRODUCTS





Adhesive is brushed on panel back to fit spacing, then let dry until it is no longer t Studs get same treatment as panel.

Instant grab of adhesive eliminates need bracing. Hammering on wooden block along length insures constant contact with plystantic products and the state of the s

1. Adhesive is buttered onto anchor plate (below) which has protruding nail in center.



Furring strips are hammered onto nails (below) without damaging masonry wall.



Two photos top of page, courtesy of US Plywood; others, Miracle Adhesive, Inc.

2.Anchors are fastened to wall (below), usually 12" o.c., and left to dry overnight.



Other new products

A roofing system that permits shingles on low-pitched roofs \dots , p. 176.

An imported plastic door knob that automatically locks and unlocks itself \dots p. 182

A furnace that uses the chimney as a heat chamber \dots p. 194

An adjustable lally column that eliminates shimming \ldots , p, 194

Between-the-studs venting for wall furnaces p, 200

Adhesives vs. na

Builders find new uses for new adhesi

Face nailing has always restricted the unquality plywood paneling, because dent quire staining and puttying. Now prefining panels can be installed without damage a single operation. The secret is a new tact cement being marketed that inst bonds 4′ x 8′ panels to study or furring swhich require no support while the bond developing full strength. There are three to installation:

- 1. Brush cement onto studs and panels.
- 2. Let cement dry (20 to 30 minutes).
- **3.** Press panel into place.

No clamping is needed—the adhesive chemically. Originally developed for bonding of plastic laminates to counter the resins-and-neoprene-rubber compound vides a permanent bond for all porous rials (except fiberboards which are subjected amination). One gallon costs \$7 and c 80 to 100 sq. ft.

New adhesives, new uses

Builders are solving many fastening probwith adhesives. The thin bed setting me for tile is an old story (AF, Nov. '50) as as the use of adhesives for insulation acoustical tile. But Builder Andy Plac South Bend, is now putting up dry wall both nails and adhesives. When the adh has set, Place drives the nails through the

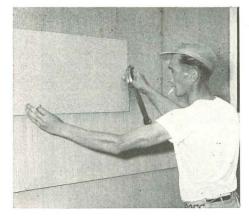
continued on p

uilder-partners* vith Insulite!



Shadowbrook Homes Saved \$150 per home with the Bildrite (left) and Shingle-Backer (below) combination. With Bildrite, one man can sheath 1,000 sq. ft. in 8 hours or less. Cuts application time as much as 43%. 4' Bildrite eliminates the need for corner-bracing and building paper. Since Bildrite is waterproofed throughout with asphalt, it can be stored outdoors, left exposed to the weather indefinitely.

Shingle-Backer Cuts Application Time in Half. Four-foot panels produce deep, modern shadow line. Practically eliminate waste. Can be used or stored anywhere in any weather because Shingle-Backer is waterproofed throughout with asphalt. Approved for application directly over Bildrite sheathing.





Primed Graylite for Soffits and Porch Ceilings Saved \$25 per job on the Shadowbrook Homes project. Made of the same material as tough, weather-resistant Bildrite, Primed Graylite is primed at the factory for easy painting. Ends delamination problem. Available in ½" and ¾" thicknesses, 4-foot widths, 6 to 12-foot lengths.

INSULITE, BILDRITE AND GRAYLITE ARE REGISTERED TRADE MARKS

quality homes like this in the 0,000 to \$30,000 range make up the adowbrook Homes project. The splitel homes feature walkout basements, hedral type center hall. Architect: n Wade, Forest Hills, N. Y.

Build and insulate with double-duty

INSULITE

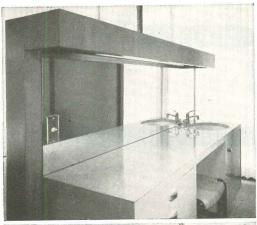
Made of hardy Northern wood

• how you can build more house for less money! Write today for alite's new package of well-illustrated and documented case histories, nnical information, product and application data prepared by Insulite tineers. Drop a card or letter to Insulite, Minneapolis 2, Minnesota.



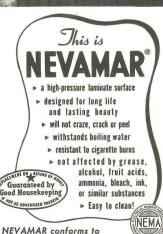
INSULITE DIVISION
Minnesota and Ontario Paper Company
Minneapolis 2, Minnesota

HOW TO CREATE ROOMS THAT SELL HOMES FASTER









NEMA specifications

On new building or remodeling, build in the carefree features of



Home buyers are learning more and more about the carefree living they can enjoy with NEVAMAR surfaces. National magazines have been featuring NEVAMAR installations in stories and pictures, pointing out the beauty, durability and freedom from care that they offer.

You'll appreciate the innumerable advantages of working with NEVAMAR. It can be installed right on the job. Its many colors and patterns, including authentic wood-grains, lend themselves to any interior—kitchens, bathrooms, rumpus rooms, clubrooms—to name just a few.

NEVAMAR has an amazing resistance to wear and never needs painting or refinishing. It definitely increases the value of any home you build or remodel.

GET ALL THE FACTS NOW . . .

You can have all the information you need about NEVAMAR, plus a complete set of samples. Write today.

In New York: See the NEVAMAR exhibit at Architects' Samples, 101 Park Ave., New York City.

DISTRIBUTOR: THE NEVAMAR COMPANY, ODENTON, MARYLAND -



Manufacturers of Neyamar High-Pressure Laminates • SARAN FILAMENTS • Wynene Molded Products

ODENTON, MARYLAND • NEW YORK: EMPIRE STATE BUILDING • LOS ANGELES: 5025 HAMPTON STREET

In Canada: Richmond Plastics, Limited • Richmond, P.Q.

REVIEWS

WOODWORKING FOR THE HOME CRA By Emanuele Stieri. Barnes & Noble, Fifth Ave., New York 3, N.Y. 376 pp. \$1

Builders who complain about the of "old-time" mechanics—those le handymen who could do all jobs well consider the idea of "growing their This complete handbook of hand and tools, of solutions to common build repair problems, is basic enough to the rawest hammer-and-saw recruit, yet sional enough to be useful to even a mechanic. Presented to a new working with his time card, it might easily renominal cost by cutting short his period on the job.

Because it is a simple guide to a their uses and their care, this h would also be an excellent present builder to the home buyer, both as a g builder, and as a way of reducing e service calls to fix tiny flaws that the owner might repair himself if he on what to do-and how to do it. Serv are an important and continuing exp the conscientious builder, and this bound book in the hands of the hon might eliminate some of the less in among them. Few husbands can r chance to show off their ability to "f around the house" and every job don home buyer during the break-in per new house is real money in the pock builder.

The book is illustrated with hun clear and explanatory drawings and graphs and is well-indexed. "How-to rarely have interest for the professicause of their amateur approach, volume is equally valuable to teach unknowing apartment dweller and to the skills of the young professional.

FINANCING THE CONSTRUCTION OF RICATED HOUSES. HHFA Housing Paper No. 27. US Government Printi Washington 25, D.C. 40¢

Though prefab manufacturers have oped inclusive plans for financing ac struction costs of their dealers (inclument for the housing package), lit tion has been given to a more fun barrier—acquisition and developmen This HHFA booklet explains the plans of many of the leading prefak is forced to conclude that "no man studied has any plan for advancing its dealers for this purpose."

All preconstruction credit facilities plored, and found wanting, and the lacludes that if prefabricated house reach their full potential, a vehicle financing will have to be developed industry.