

# NORTHWEST ARCHITECT

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METAL WINDOWS

STEEL ROOF DECK

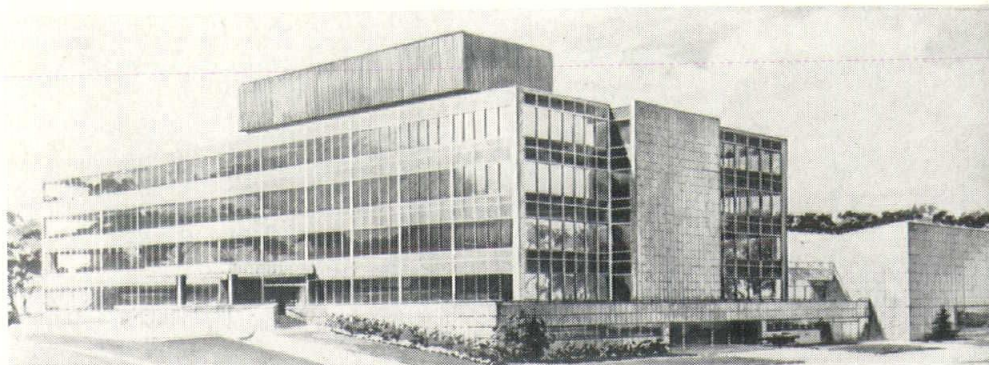
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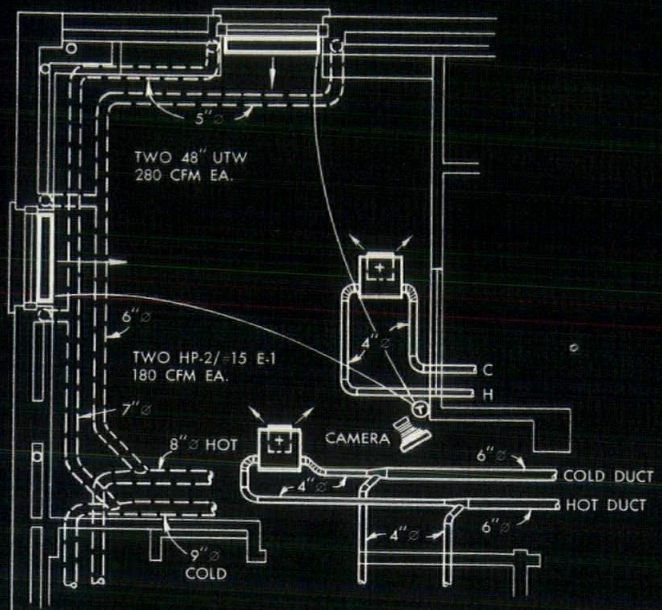
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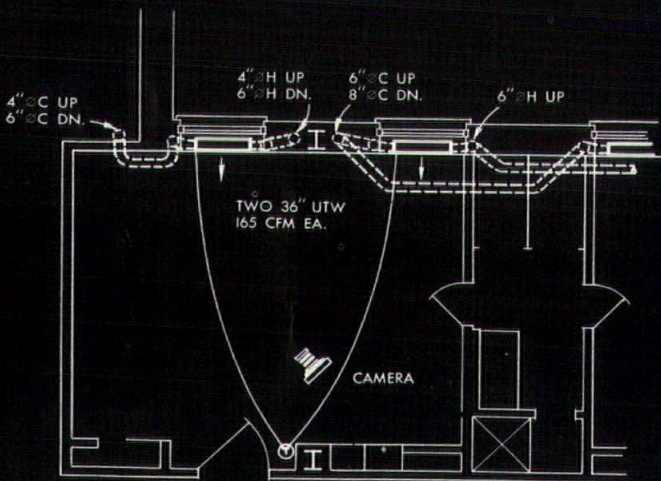


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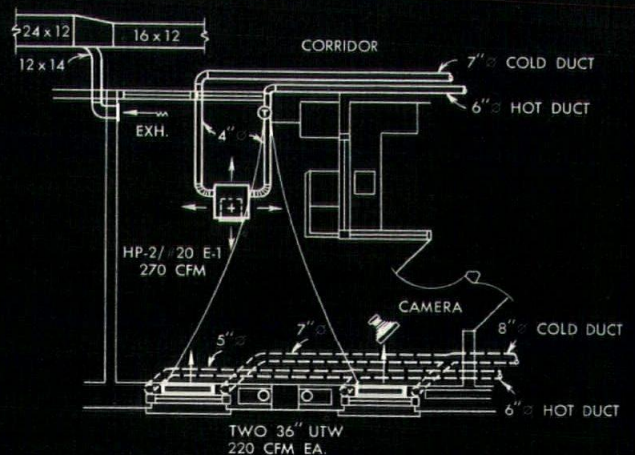
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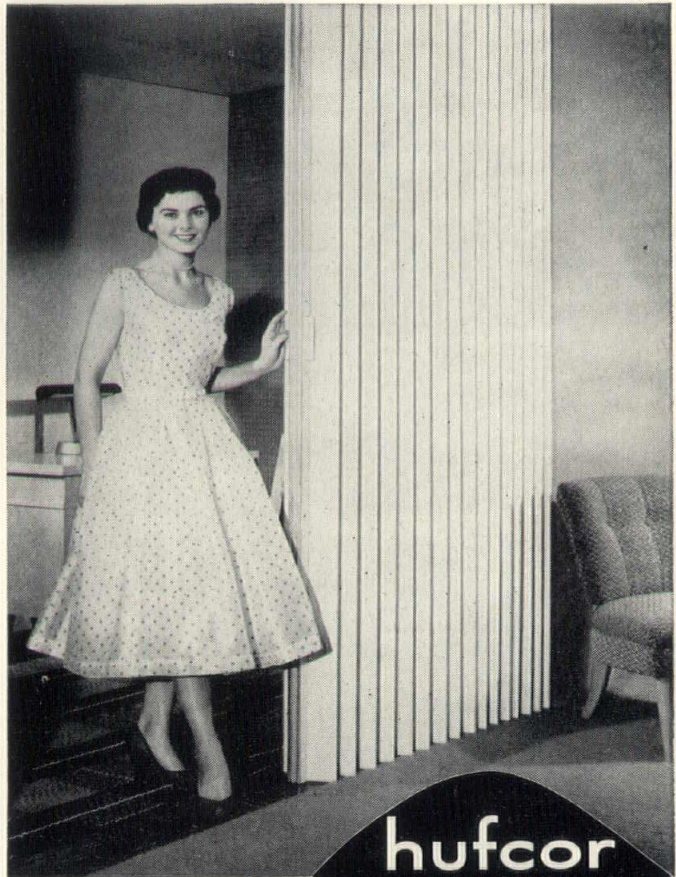
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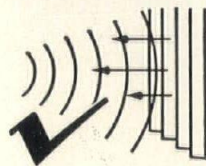
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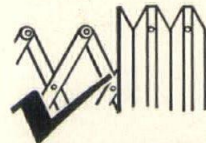
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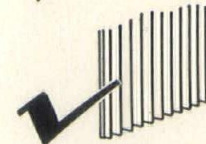
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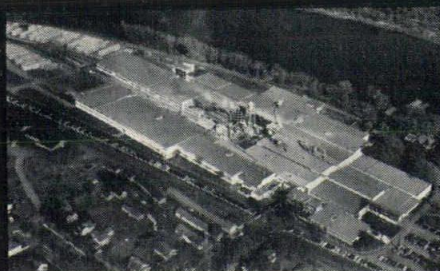
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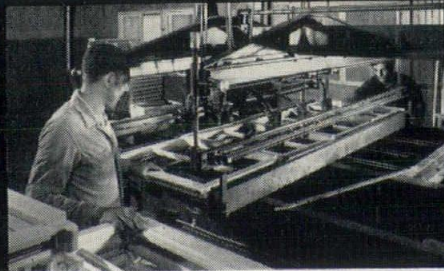
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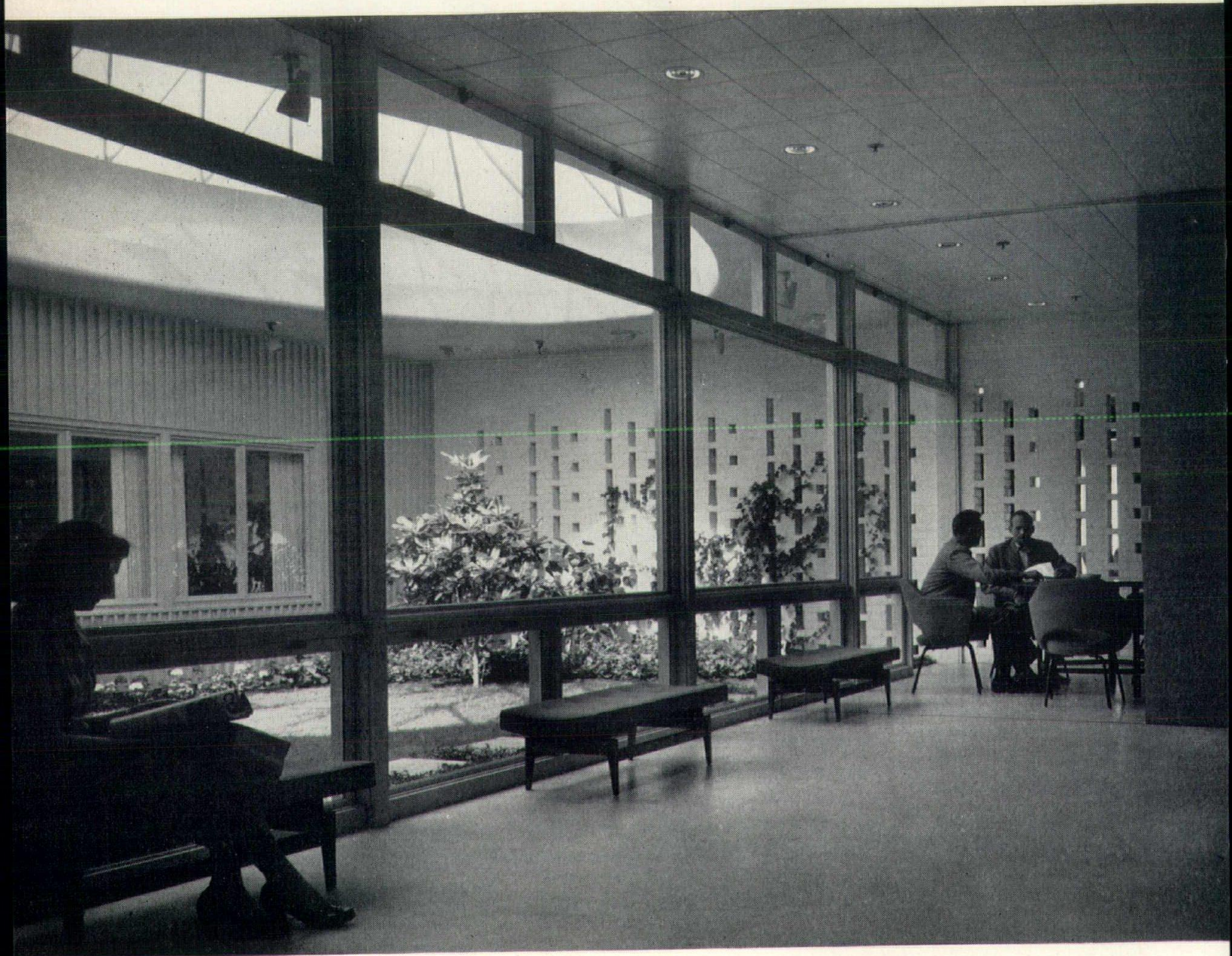
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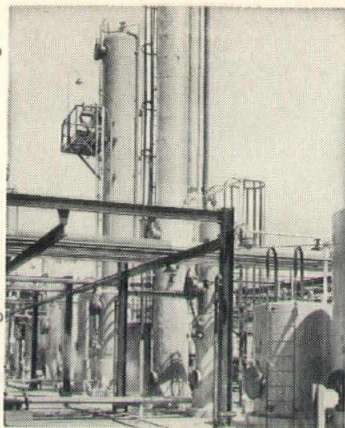
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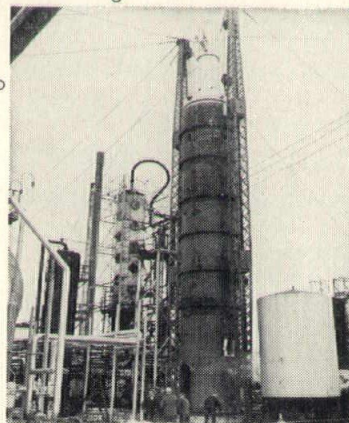
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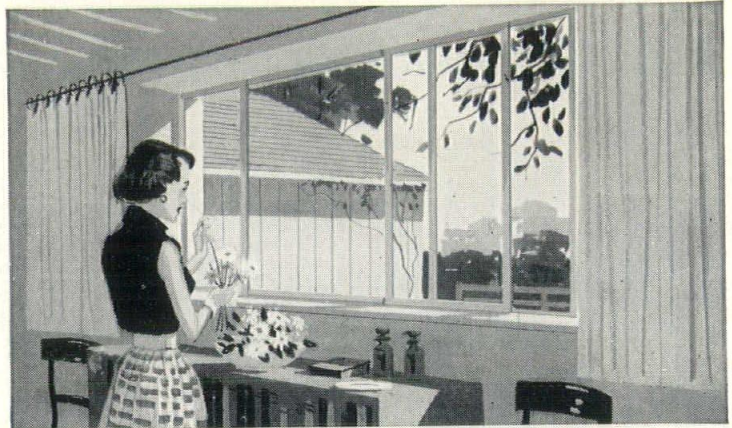
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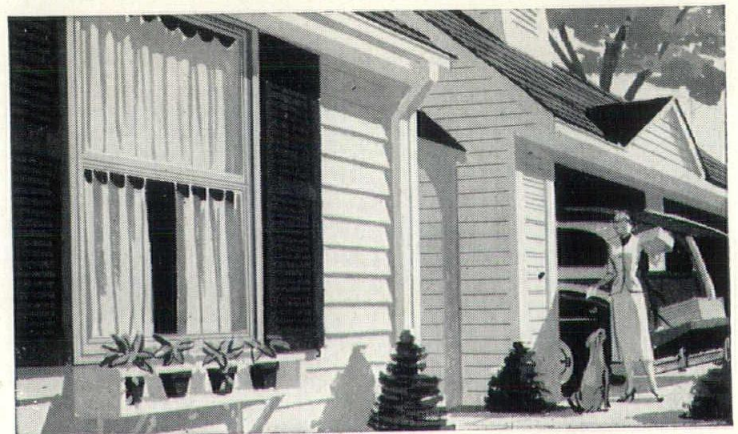
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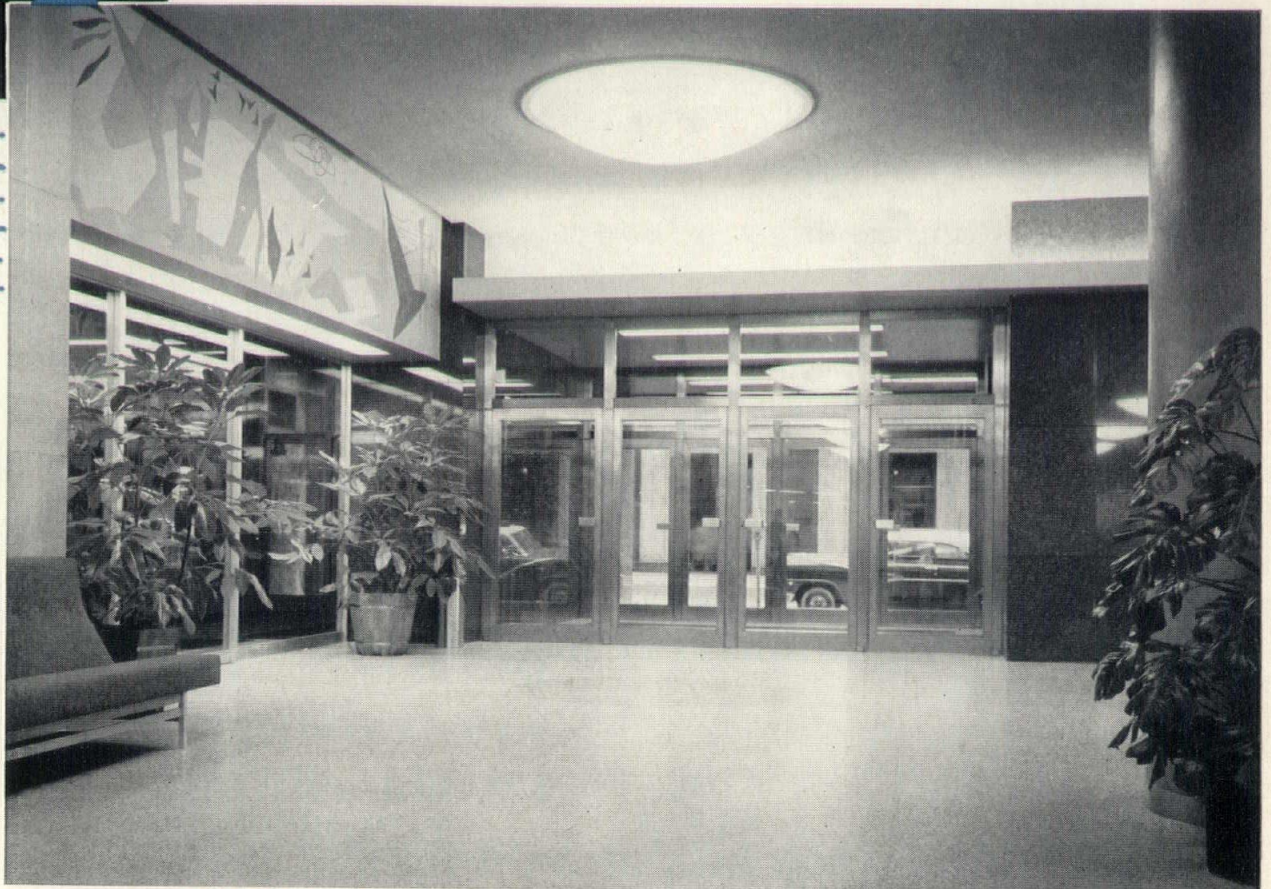
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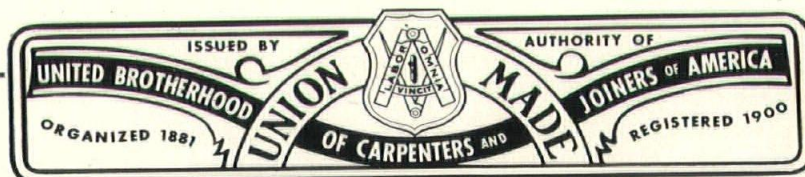
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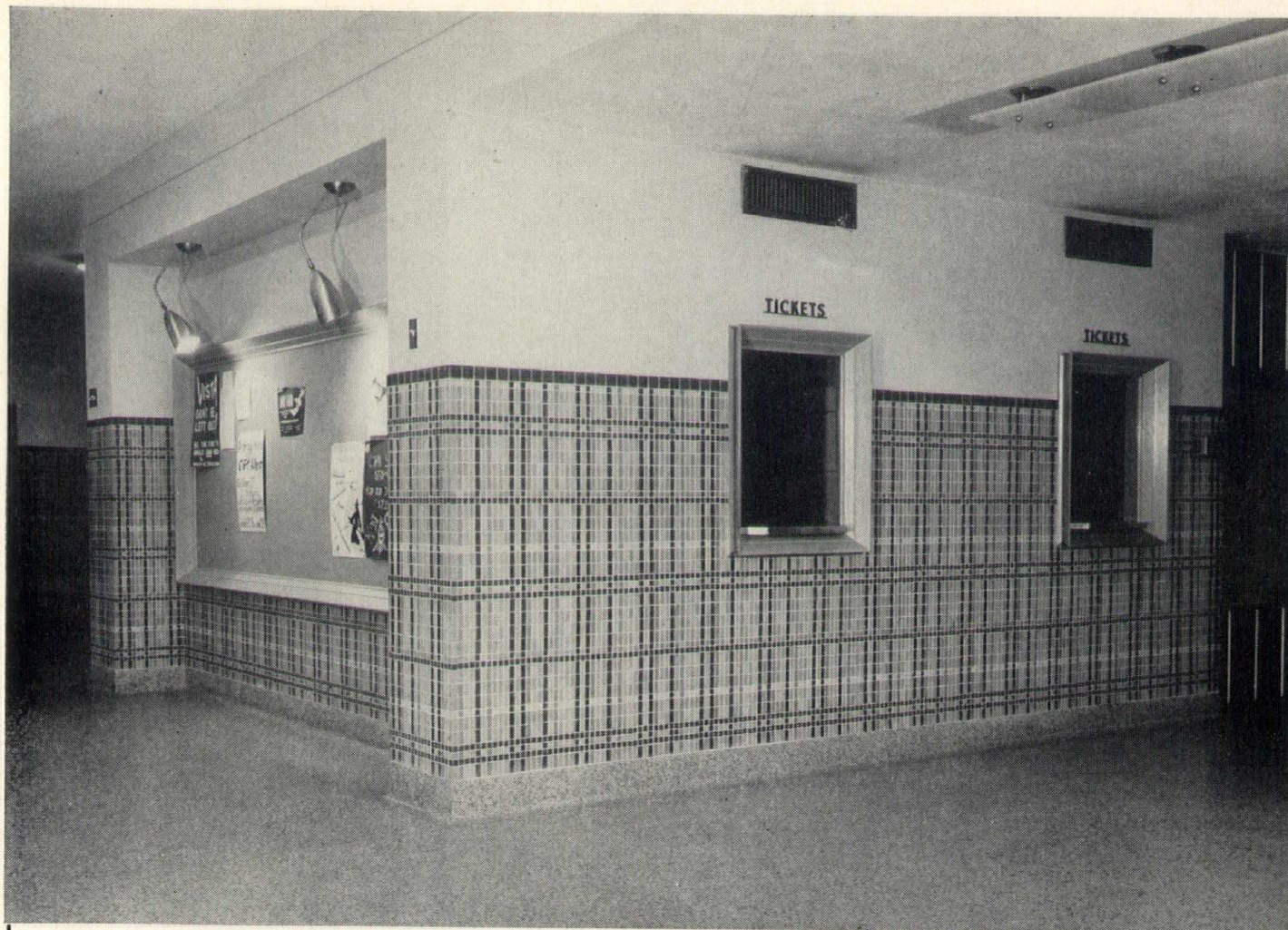
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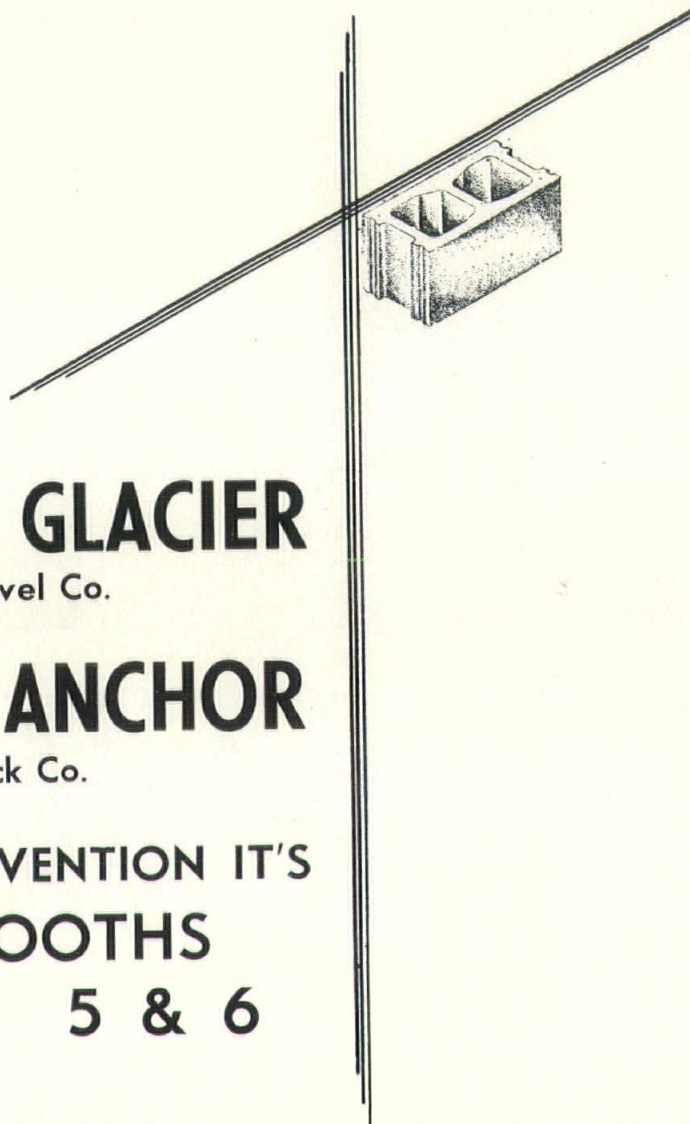


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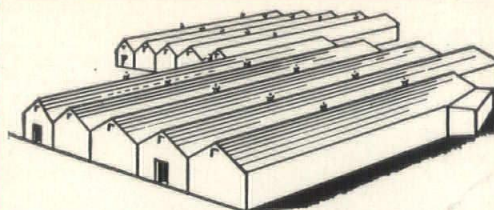


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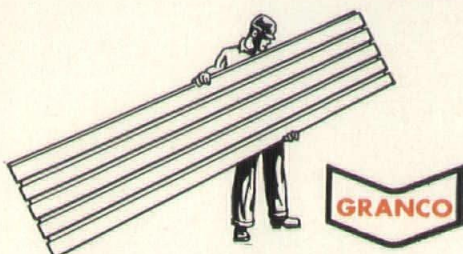


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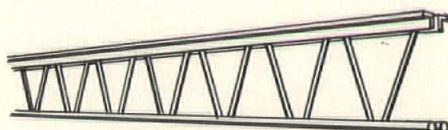
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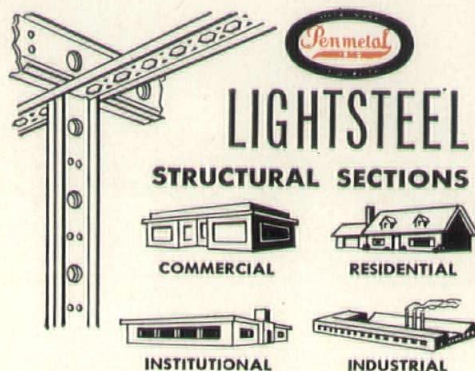
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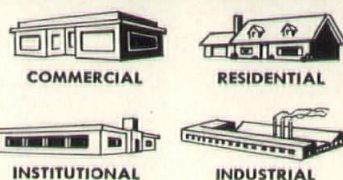


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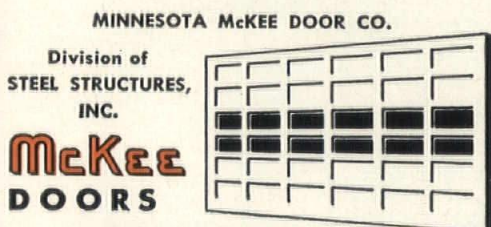


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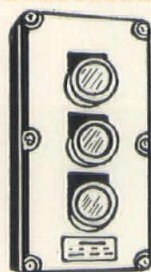
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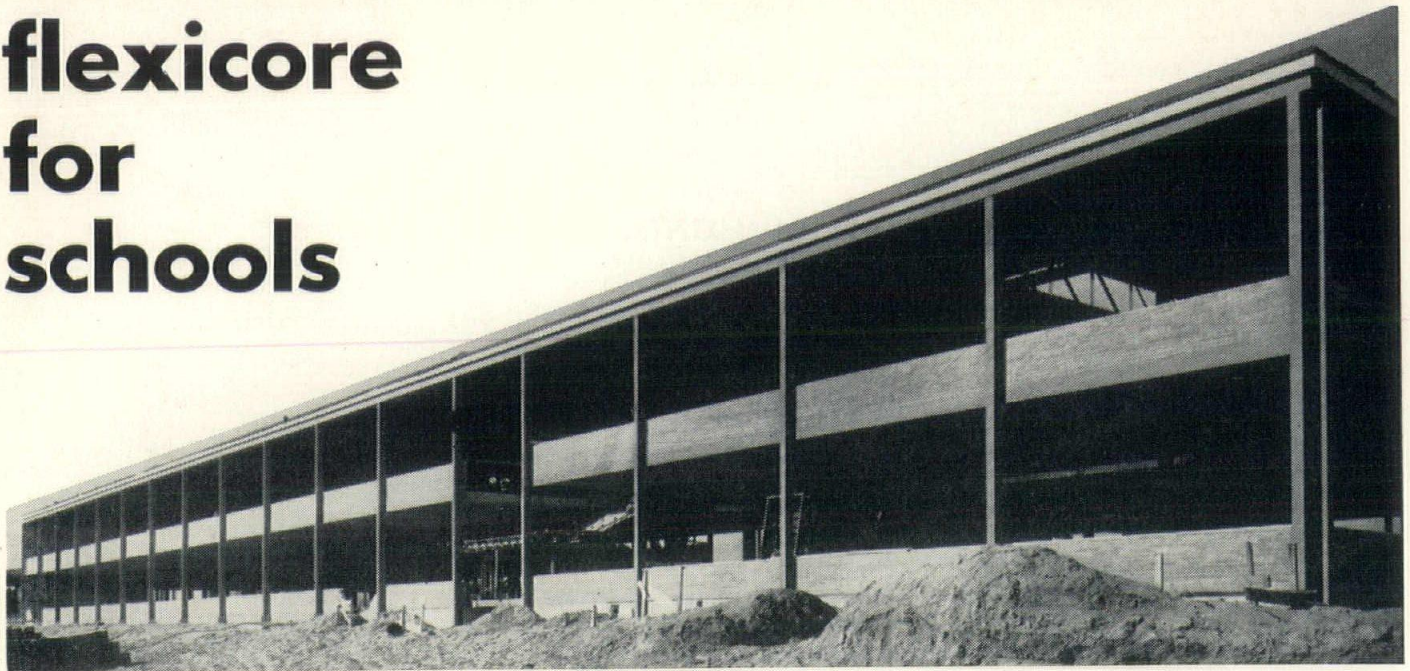
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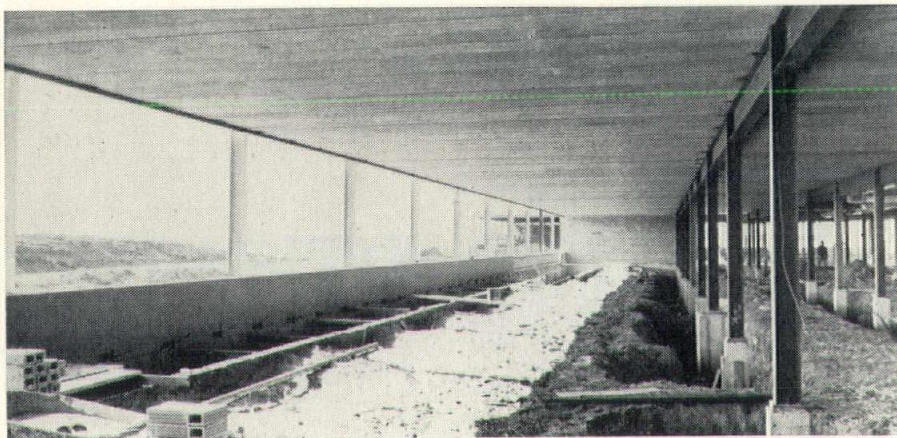
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Note the smooth ceiling ready for use as a finished surface at a substantial saving. Through the use of tee inserts precast in the Flexicore, the architects were able to use the floor system as a means of lateral stability, reducing the costs of structural framing.

The amount of duct work has been reduced considerably by using the cores of the Flexicore slab as a means of moving the forced warm air from a suspended duct in the corridor to the outside wall.

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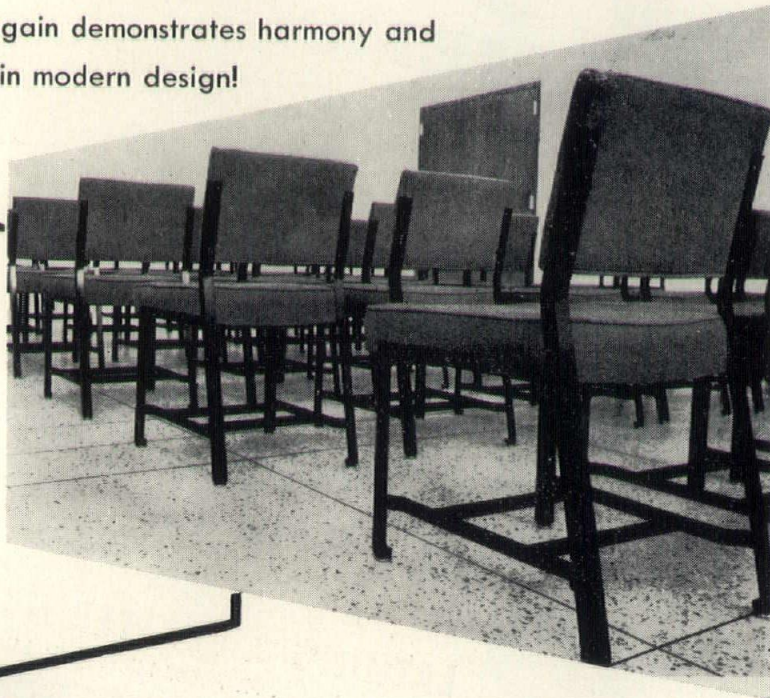


**COMPATIBLE INTERIORS IN...**

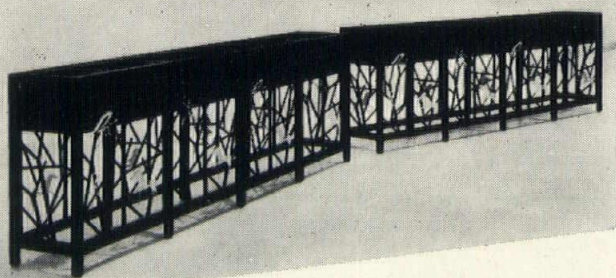
# *Architectural* **METALS**

Minnesota Fence and Iron Works again demonstrates harmony and practicality of architectural metals in modern design!

Complementing the interior of the new Veterans' Service Building are these custom made chairs, planters and harmonizing desk. These and other fixtures by Minnesota Fence demonstrate how overall beauty can be further enhanced through coordinated efforts of the architect and metal fabricator. All metal work is fashioned to conform with the interior and exterior decor. Even the surrounding area was considered in achieving the final effect. Minnesota Fence is proud to have contributed toward the realization of the architect's specifications of the Veterans' Service Building.



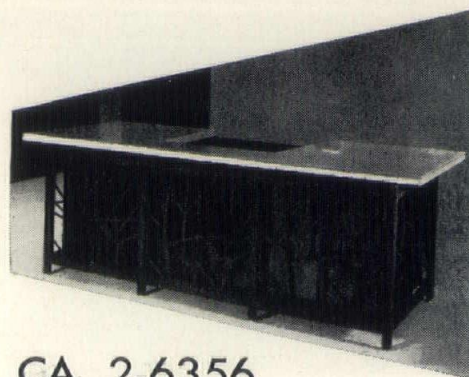
Architectural metal work to custom specifications is a specialty of Minnesota Fence. The expert craftsmanship of their fabricators and erectors is evidenced by the interior fixtures pictured. These metal experts also constructed such exterior features as aluminum screed for the colonnade, and outside railings with woven wire mesh. Such woven wire mesh comes in stainless steel, copper, bronze and aluminum. Wire partitions with swing or sliding doors are made to order, as are window guards, folding gates, etc. Complete information available on request.



Architect: Brooks Cavin  
Contractor: Hagstrum Const.

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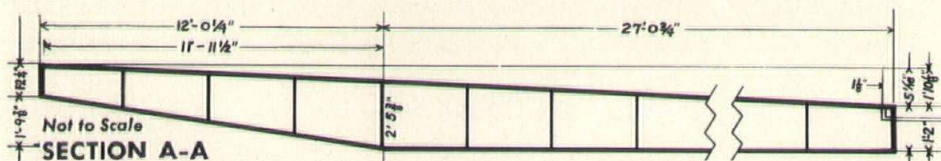
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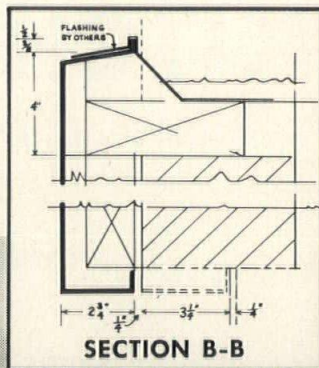
# New perspectives in school design gain practical utility with modern **Davidson** ARCHITECTURAL PORCELAIN

Here, in striking combination with buff field stone, orange Davidson Architectural Porcelain Enamel points up the soaring lines of a cantilevered canopy. A distinctive accent, yet in full keeping with good taste, this application reminds again that there is virtually no restriction on the use of Davidson Architectural Porcelain. To keynote, as here, or to achieve complete curtain wall or window wall treatments, you'll find no more adaptable material.

Davidson Architectural Porcelain Panels are made to your specification—size, shape and color just as you need them—and you can select from four basic types of panels, according to type of construction planned. Write for file folder of installations and ideas.



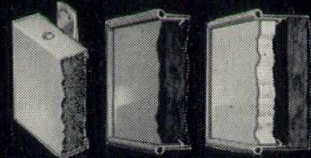
An interesting aspect of this use of Davidson Panels is illustrated in the drawing above. Note the successive changes of panel dimension and shape, accentuating the cantilevered design. Each panel was supplied exactly as specified, ready for installation.



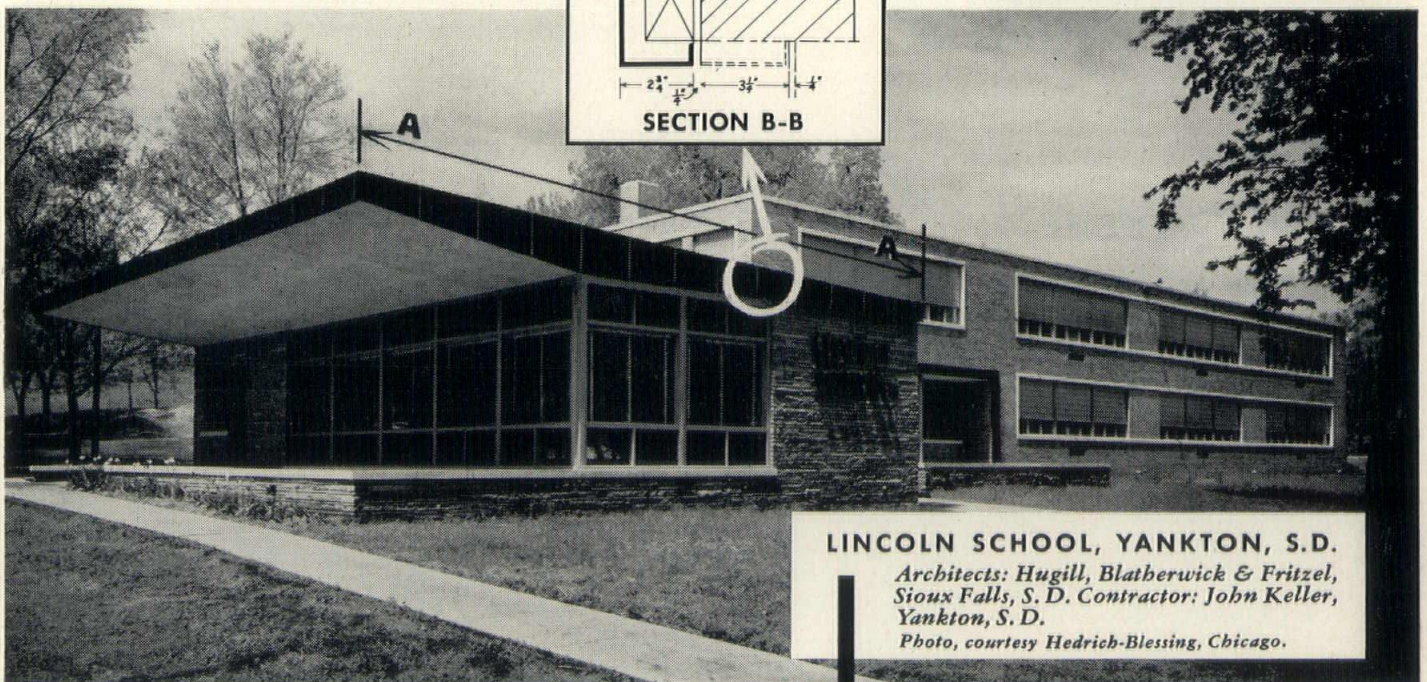
**Type 1 Facia Panel,  
Used Here**



Porcelain enamel fused to  
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Facia and Double-Wall Panels for  
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ernizing . . . interior or exterior.



**LINCOLN SCHOOL, YANKTON, S.D.**

Architects: Hugill, Blatherwick & Fritzel,  
Sioux Falls, S. D. Contractor: John Keller,  
Yankton, S. D.

Photo, courtesy Hedrich-Blessing, Chicago.

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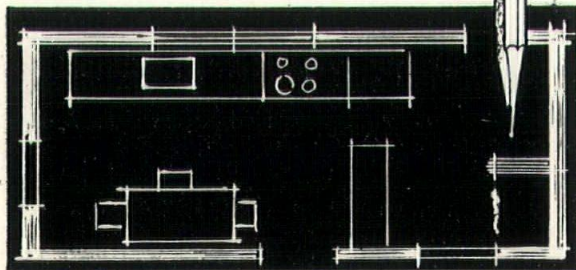
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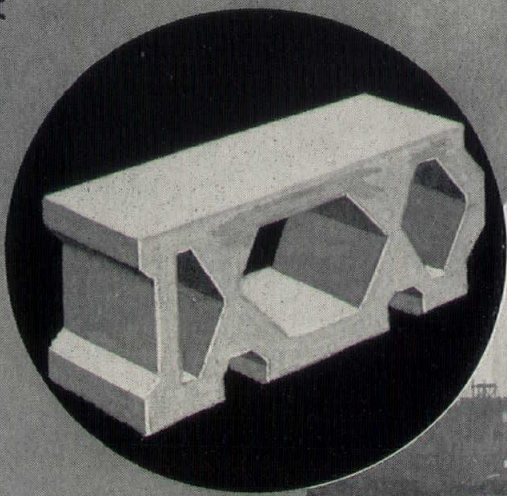
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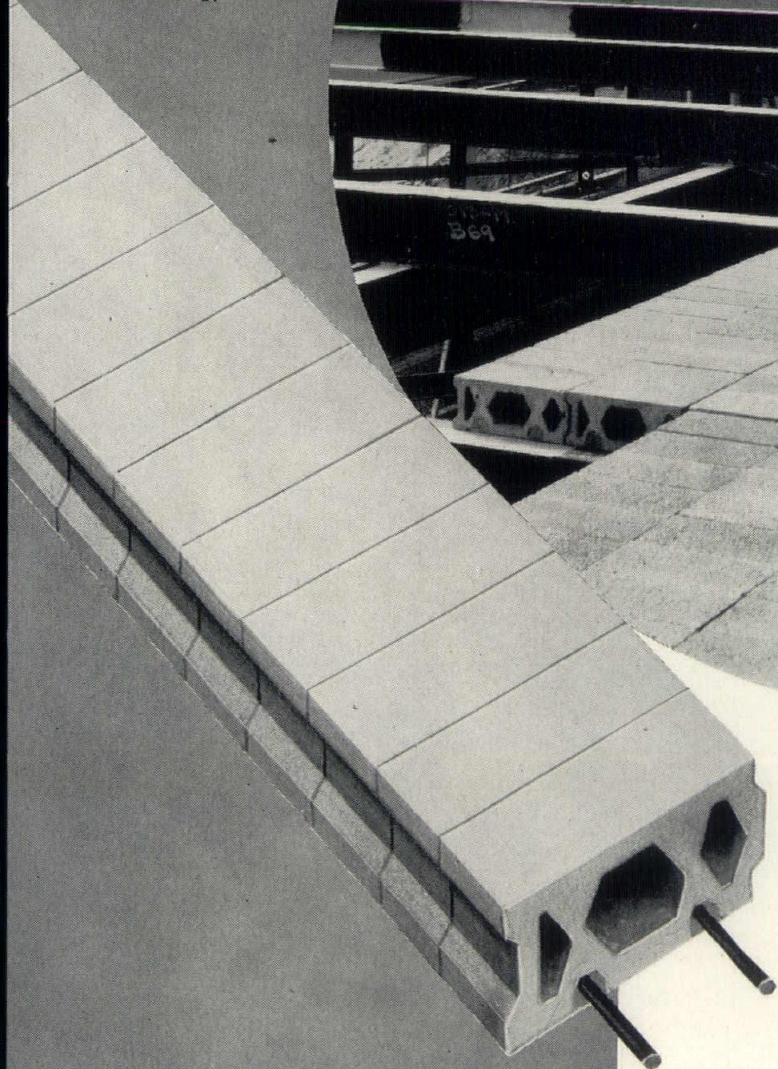
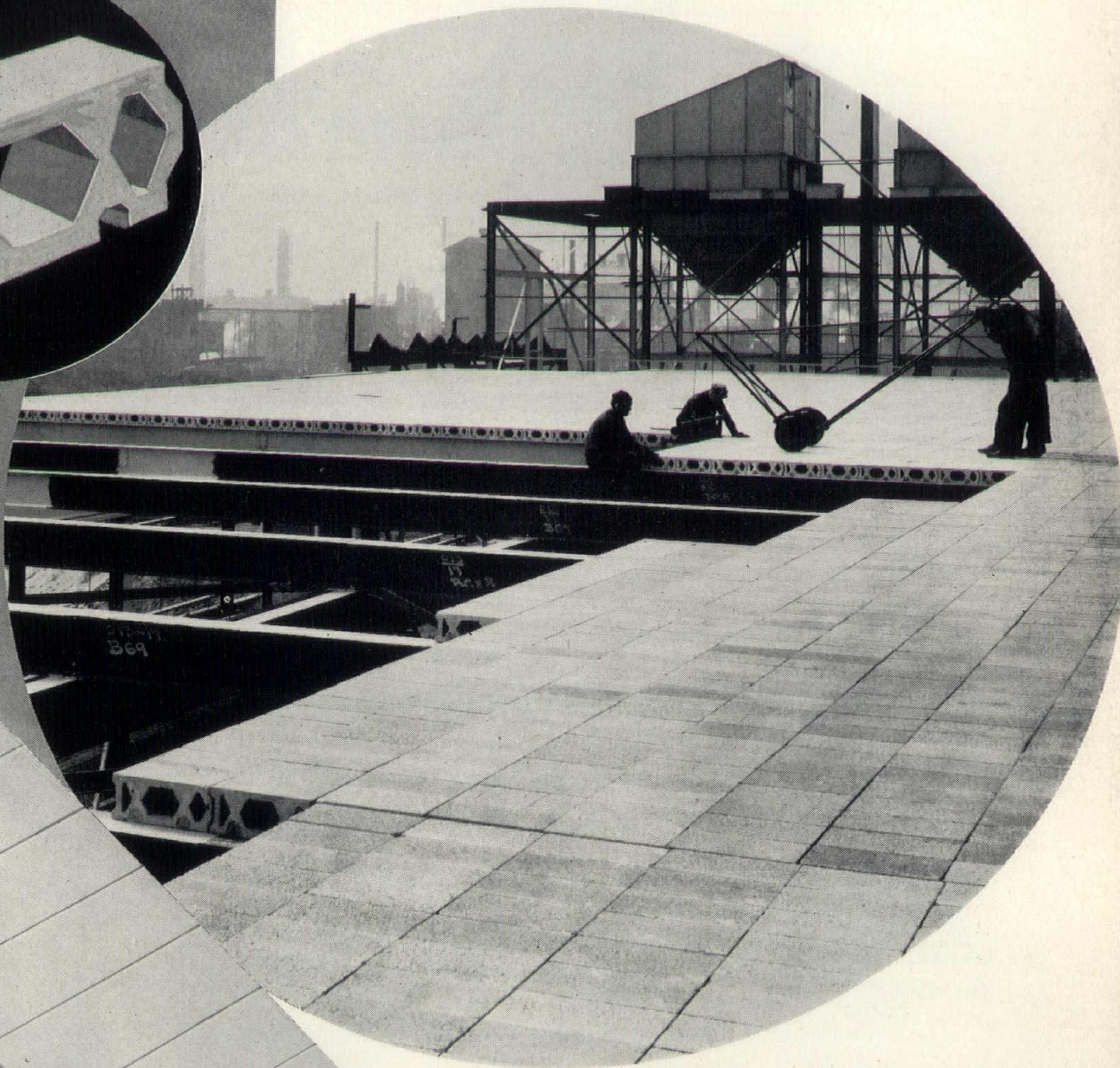
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(Patent Pending)

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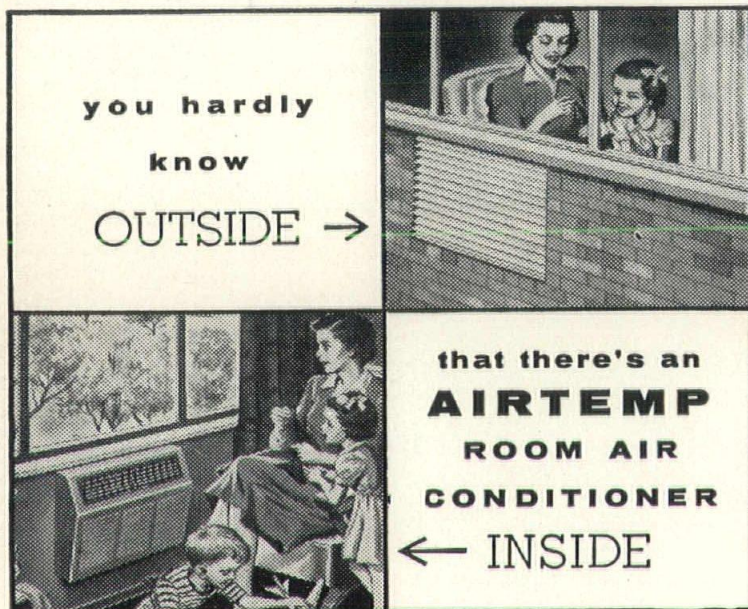


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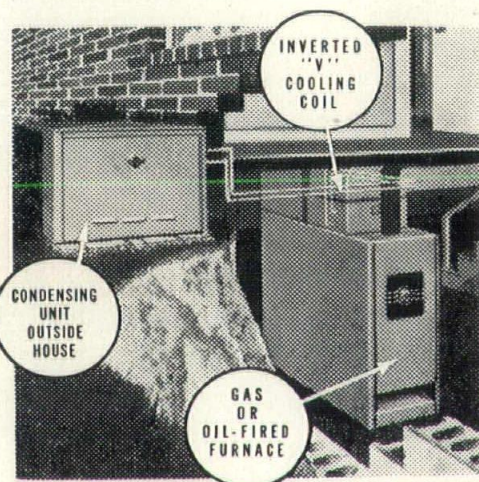
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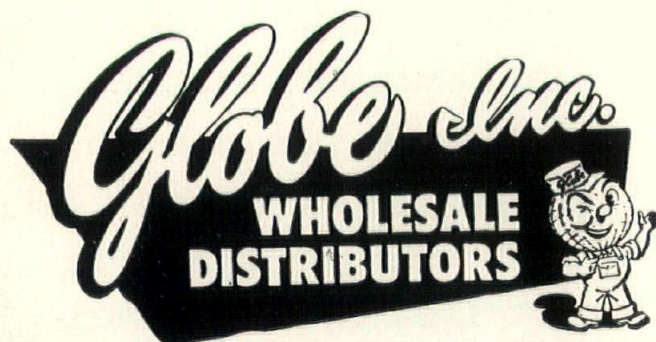


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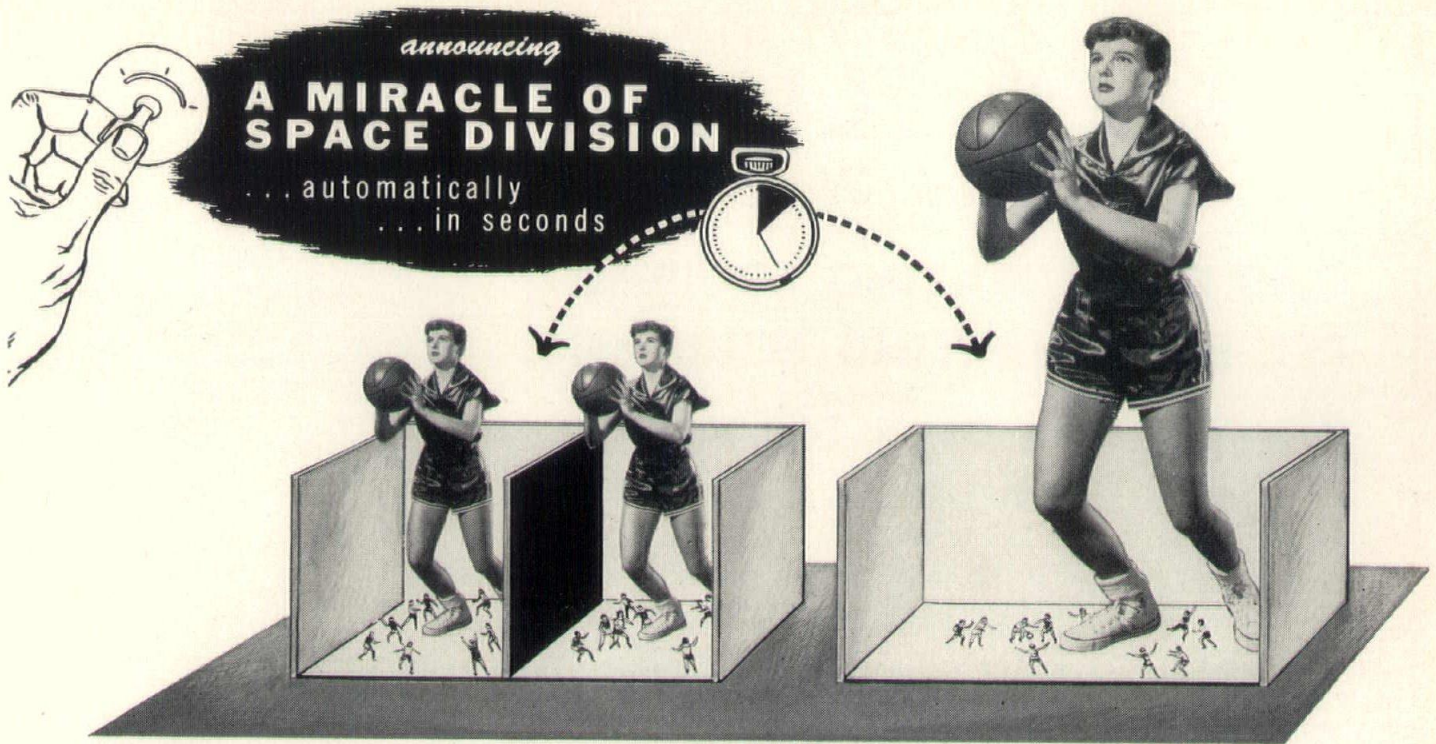


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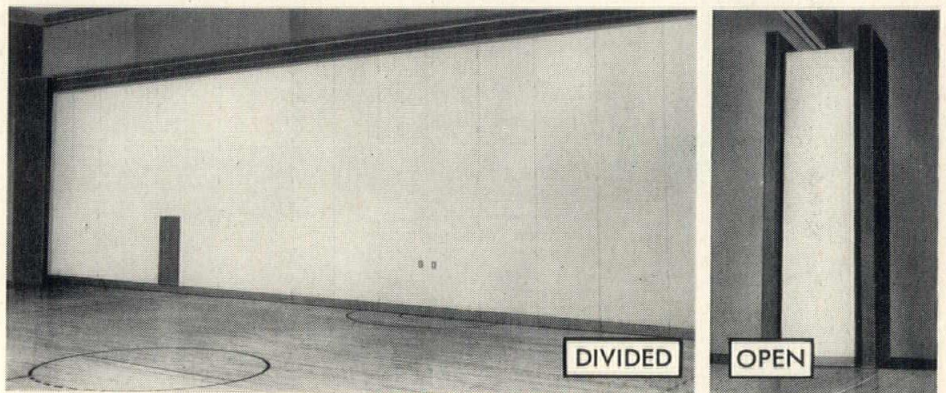
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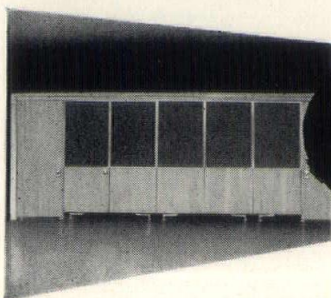
When fully extended, "Powermaster" Electric Folding Partitions approximate a solid wall capable of absorbing normal shock and wear. And resilient rubber strips automatically pressure-seal against the floor forming a light-proof, sound-resistant unit. No floor tracks or guides are necessary. Every installation is guaranteed, **in writing**.

Whether you're planning new construction or remodeling, we invite you to find out **how to perform a miracle of space division** with the EMCO "Powermaster." Mail coupon today for free catalog: no obligation, of course.



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1. Easy-to-Reach **CLUTCH RELEASE** . . . easily accessible without entering pocket.
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3. Smooth-Motion **HYDRAULIC CYLINDER** . . . partitions open, close without bumps, jerks. Eliminates heavy spring jamb.
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5. Positive **DOOR SEAL** . . . permanently bonded along partition door edges. Light-proof, sound-resistant.
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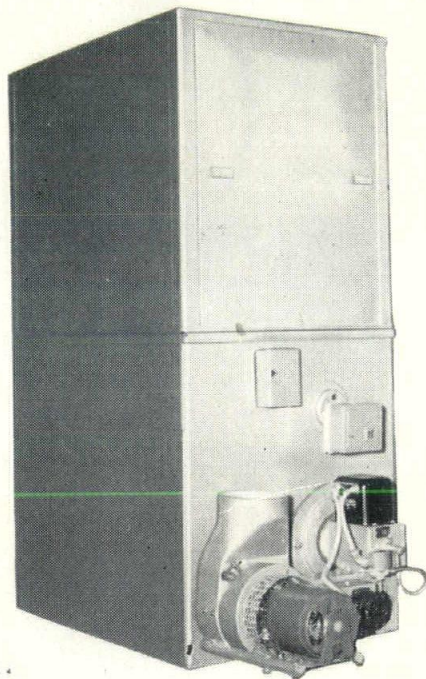
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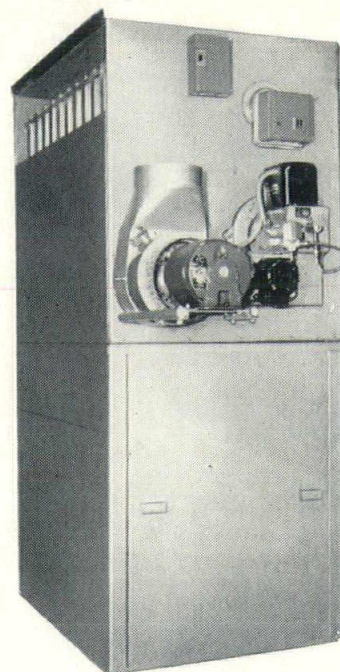
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**Heavy Duty Units—Output To 3,000,000 B.T.U.**



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**INDUSTRIAL  
COMMERCIAL  
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**STYLE "H"  
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## Gas Fired Units

Feature power type gas burner. Models 150, 220, 280 equipped with integral draft inducing mechanism, pre-purge timing, electronic controls and electric ignition.

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Feature integral draft inducing oil burner with positive draft displacement during firing cycle.

## ENGINEERING DATA

Model	BTU Output	CFM 3/8" S.P.	Input Nat		Blower Phase			No. Wheels	Wheel Size	Filters		Approx. Ship Wt.
			Oil GPH	Gas CFH	H. P.	Volt	RPM			Quan.	Size	
35	134,000	1600	1:20	160	1/4	1/110	680	1	12x12	2	16x25	350
50	184,000	2300	1:65	230	1/3	1/110	560	1	14x14	4	16x20	400
70	224,000	2800	2:00	280	1/2	1/110	600	1	14x14	4	20x20	500
100	336,000	4200	3:00	400	3/4	1/220	520	1	16x16	4	20x25	650
150	500,000	6300	4:50	600	1	3/220	500	2	16x14	6	20x25	950
200	670,000	8400	6:00	800	1 1/2	3/220	450	2	18x16	8	16x25	1200
280	896,000	10000	8:00	1000	2	3/220	480	2	18x18	8	20x25	1500

*For CFM and SP Other Than Stated In Engineering Data  
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Whenever flooring is needed to meet heavy usage combined with resiliency, beauty, smoothness, cleanliness and low maintenance . . . architects and school authorities approve Northern Hardwood Continuous Strip Maple, second grade and better. It matches M F M A first grade in every performance attribute YET COSTS LESS.

Illustrated are progress views of more Gerrard's installation using both 25/32 flat grain regular strip flooring and 33/32 edge-grained second grade and better. Edge-grained laid in a full bed of cold troweled mastic directly over a slab. Flat-grain nailed in place using screw-shank nails over sub-floor. Floor was sanded and finished with two coats of Gerrard's No. 30 penetrating floor sealer and steel wool machine buffed while still wet.

For a durable, hard playing surface Gerrard's No. 40 gymnasium finish was applied.

Specify second and better the ideal "gymnasium" grade with fullest confidence. It makes a splendid floor of enduring beauty.

You'll Save Money Wisely!

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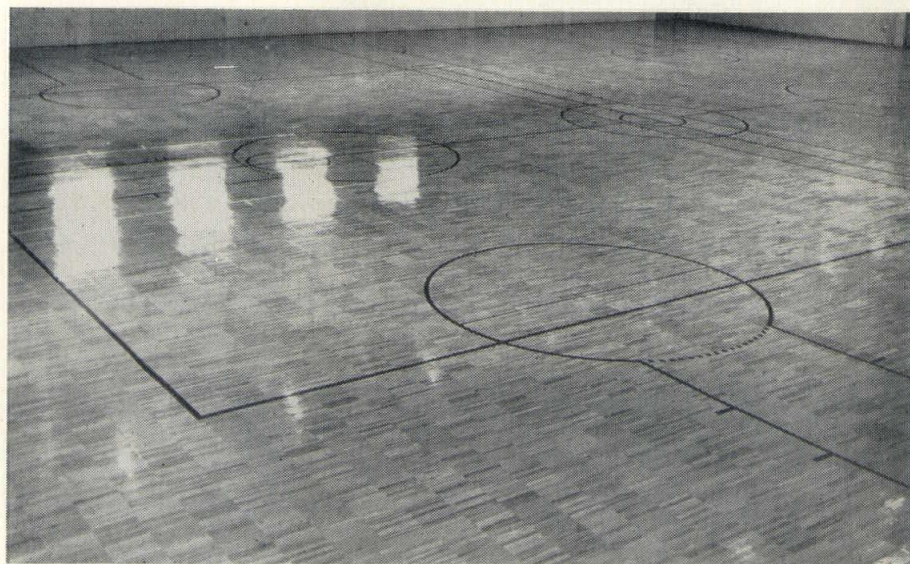
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**A NEW SERVICE MANUAL for  
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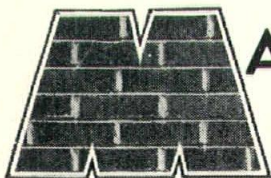
**THE MOST COMPLETE  
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## MANUAL



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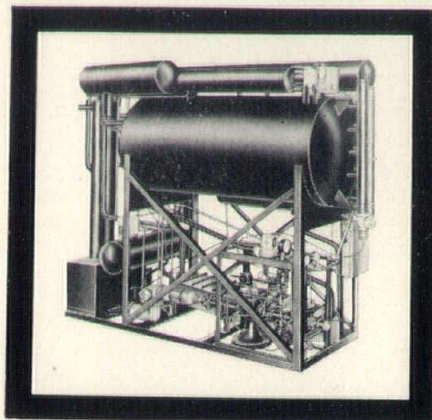
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# MINNESOTA SOCIETY of ARCHITECTS

## Annual Convention Promises Insight Into Many Current Problems

### Theme: Architecture for Better Living

With several unusual features of special interest to entice members and associates to the convention, the annual meeting and convention of the Minnesota Society of Architects scheduled for June 7 and 8 promises to be another stand-out event on the year's calendar. The program is filled with sessions conducted by experts in the building industry, featuring panel discussions and seminars on some of the problems of present-day construction.

President Glynne W. Shifflet of the Minnesota Society of Architects will officiate at the two days of meetings which are scheduled to get under way shortly after the opening at 9:00 a.m., Thursday, June 7. The first session is scheduled for 10:00 a.m. After presentation of the opening remarks President Shifflet will welcome the conventioners and their guests and keynote the sessions.

The first seminar of the convention will be on the problems of "Curtain Wall Construction." The seminar will be conducted by Marvin V. Brooks, architectural consultant for the Reynolds Metal Company. Mr. Brooks is a graduate of the architectural and engineer-

ing school of the University of Texas and is registered as both an architect and a civil engineer. For the last several years he has headed a department with the Reynolds Metal Company, working with architects and engineers on the problems of curtain wall construction.

There are breaks in the convention to allow visitors to view the booth exhibits of the latest in products equipment, methods and services in the building industry. Exhibits are featuring materials produced in the region and those specifically designed for use in this area.

The Thursday luncheon speaker will be Frank J. Rooney, Miami, Florida, contractor and builder, who is the current president of the Associated General Contractors of America. The luncheon will be held in the Terrace Room of the Hotel Nicollet.

Following the luncheon the first of two business sessions, making up the annual meeting of the society, will be held. The board of directors of the Society has proposed changes in the article and by-laws which have been distributed among the members of the society and will be voted on at this session. The most important



The 1955-56 executive staff of the Minnesota Society is shown at left. Standing, left to right, are Ralph T. Keyes, executive director; Otto M. Olsen, Duluth, director; Richard F. Hamel, St. Paul, director; S. L. Stolte, St. Paul, director; F. D. Clark, St. Paul, secretary; Arthur C. Lucas, Jr., Duluth, treasurer. Seated, left to right, are George C. Darrell, St. Paul, past president; Glynne W. Shifflet, Minneapolis, president; and Reinhold A. Melander, Duluth, director. R. V. McCann, Minneapolis, vice president, was absent when the picture was taken.



# President Shifflet's Convention Message



President Shifflet

Greetings,

To all members of the Minnesota Society of Architects, the Ladies' Auxiliary, architectural students, professional engineering societies, the American Institute of Interior Decorators, Associated General Contractors, Producers Council and exhibitors of building materials and equipment:

The 1956 state society's convention has as its theme "Architecture for Better Living." It was planned with the objective of helping our members to plan buildings and structures that will not only function for a designated purpose and be structurally sound but which will also present a pleasing and harmonious appearance worthy of recognition as good architecture. The accomplishment of this high purpose requires the efforts, direction and co-ordination of many arts, professions, trades and devices—which gives the term "Architect" a new and broader meaning.

Technical seminars, an architectural exhibit and an increased number of exhibits of building materials should make attendance at the convention both interesting and informative. The ladies should find the seminar on interior decorating of interest to them.

The business sessions are important and many matters relating to our future practices are on the agenda. Every member should be present to express his opinion.

On the lighter side there will be luncheons and a dinner dance with the usual refreshment hours—all for good fellowship and relaxation—to which our members and guests from the building industry are invited.

*Glynne W. Shifflet*



## SPECIAL CONVENTION EVENT FOR ARCHITECTS' WIVES ONLY

The Ladies Auxiliary of the Minnesota Chapter, AIA, which is the organization for wives of AIA members, is planning to have its own special event during the convention of the Minnesota Society of Architects. The annual luncheon of the Auxiliary will be held Thursday, June 7, at 12:30 p.m., in the polynesian atmosphere of Hotel Nicollet's Waikiki Room. Following the luncheon there will be a short business meeting with election of new officers, then fun and prizes for all. Architects' wives who are not members of the auxiliary are cordially invited to attend the luncheon.

Mrs. Glynne W. Shifflet is acting as chairman of the luncheon and is being assisted by Mrs. James Brunet, Mrs. Cecil Tammen and Mrs. Hubert Swanson. Mrs. Donald Parsons is in charge of publicity and Mrs. George Carter is nominating committee chairman.

Present officers of the Auxiliary are Mrs. A. H. Lange, president; Mrs. Frank Mikutowski, vice-president, and Mrs. O. T. Lang, secretary-treasurer.



Minnesota Society Auxiliary officers are shown above. Mrs. Austin Lange, president, is in the center with Mrs. Oscar T. Lange, treasurer, and Mrs. E. H. Lundie, retiring president. Mrs. Frank Mikutowski, secretary, was not present when this picture was taken and she is shown in her home at the right.



change proposed by the board of directors is a change in the method of election of officers of the society. Other changes are generally regarding procedure which should be changed because of the establishment of the central office of the society.

Following a recess there will be a panel discussion on the use of furniture and fabrics in interior decorating. Architects have shown an increasing interest in this field of their design work and the convention committee has arranged a panel discussion which should be of more than usual interest to the architects and also the members of the ladies auxiliary, who are specifically invited to this seminar.

The Friday session will open with a seminar on acoustics. This seminar will be led by Robert Newman of Boston, Massachusetts. Mr. Newman is head of the acoustical department of Massachusetts Institute of Technology and is a member of the engineering firm of Bolt, Beranek and Newman of Boston. In addition to being a recognized authority in the field of acoustics, Mr. Newman is an interesting and entertaining speaker and this seminar should be one of the highlights of the convention.

The principal business session of the convention will be held Friday afternoon beginning at 2:00 p.m. The board of directors of the society is proposing to the membership a revised recommended minimum fee schedule. This subject should provoke some lively discussion.

Another subject that will be discussed at the business session is the legislative program of the society for the 1957 session of the legislature. Should the proposed changes to the articles and by-laws be acted upon favorably by the membership at the first session of the annual

meeting, the annual election of officers will be conducted during the Friday afternoon business session. This would be the first time that officers are elected at large from the membership of the society. On adjournment of the business session the board of directors will meet for a brief organizational meeting.

Friday evening is being set aside for a strictly fun evening for the convention-goers. The festivities will begin with a cocktail hour at 6:30 p.m., followed by dinner at 7:30 and dancing from 9 to midnight to the music of the popular Hal Garvin and his orchestra.

The ladies are not being left out of the planning for the convention. Several events are being scheduled for their enjoyment. The plans made for the ladies events are given in another story in this issue.

The business sessions of the convention have more than usual importance because the main subjects on the agenda are carried over from previous years when the annual meeting issued a mandate that the issues were to come before the 1956 convention. A great deal of work has been done on each of the items by the committees charged with the preliminary work of investigation. The co-operation of every society member is needed, officials pointed out, to make the decisions on these items truly representative of the thinking of the full membership.

The seminars scheduled are of wide interest. During the past several years seminars and panel discussions have become an increasingly popular item on the convention agendas, as they present many facets of the problems under consideration and give a good opportunity for an exchange of ideas. Many architects particularly enjoy the sessions because they have a chance to

(Continued on Page 49)

NORTHWEST



# Minnesota Society of Architects Annual Convention

June 7 and 8, 1956

Nicollet Hotel — Minneapolis

## *Tentative Program*

### THURSDAY, JUNE 7

- 9:00 a.m.—Registration  
Products Exhibits Open
- 10:00 a.m.—Call Convention to Order  
Presentation of Convention to the President  
Acceptance and Welcome by the President
- 10:15 a.m.—Seminar "Curtain Wall Construction"  
Speaker: Marvin V. Brooks, Architectural Consultant, Reynolds Metal Company
- 11:15 a.m.—Recess and View Products Exhibits
- 12:00 noon—Lunch—Terrace Room  
Speaker: Frank J. Rooney, President of Associated General Contractors of America
- 12:30 p.m.—Ladies Auxiliary Luncheon—Waikiki Room
- 1:45 p.m.—Opening Business Session
- 2:45 p.m.—View Products Exhibits
- 3:30 p.m.—Panel Discussion "Furniture and Fabrics in Interior Decorating"
- 4:30 p.m.—View Products Exhibits

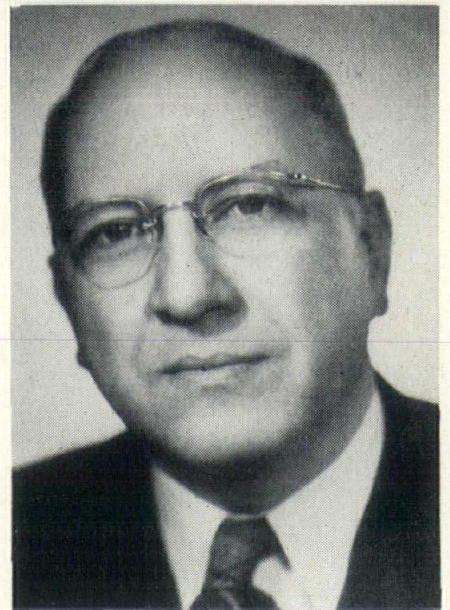
### FRIDAY, JUNE 8

- 9:00 a.m.—Products Exhibits Open
- 9:30 a.m.—Seminar "Acoustics"  
Speaker: Robert Newman, Acoustical Consultant of the Firm of Bolt, Beranek and Newman, Boston, Massachusetts
- 10:30 a.m.—View Products Exhibits
- 12:00 noon—Luncheon
- 2:00 p.m.—Business Session  
Reports of Committees  
Resolutions  
Discussion of Proposed New Recommended Fee Schedule  
General Business of the Society  
Election of Officers  
Presentation of New Officers  
Adjournment
- 6:30 p.m.—Dinner Dance—Terrace Room, Hotel Nicollet
- 9:30 p.m.—Dancing Until Midnight. Music by the Orchestra of Hal Garvin.

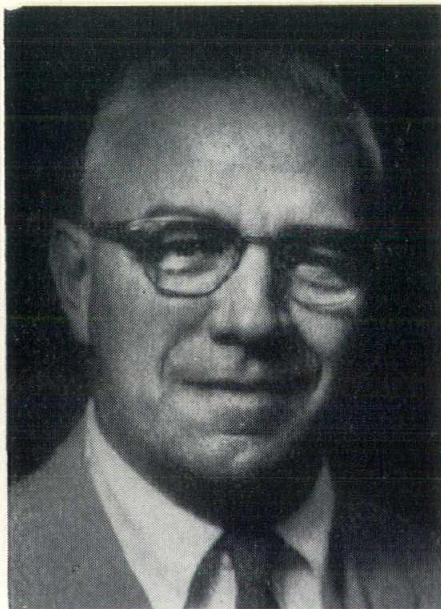
Because this is a tentative program, later developments may require it to be changed after we have gone to press.

See list of exhibitors on Page 59.





Mr. McEnary



Mr. Krafft

**RECENT WORK**  
OF  
**McENARY and KRAFFT**  
*Architects*

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**MERRILL A. BIRCH – AIA**

Department Heads

Albert N. Dobbins – David N. McEnary – Robert Van Hoe



Mr. Birch

This presentation is made in ten pages to form a professional monograph.





General Exterior

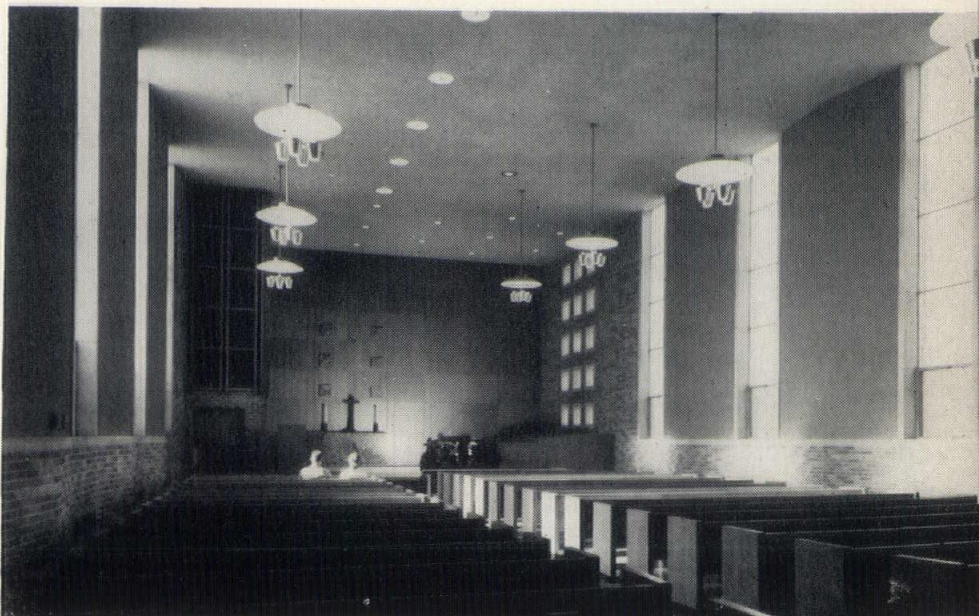
# FIRST METHODIST CHURCH and WESLEY FOUNDATION

University of Minnesota in Minneapolis, Minnesota

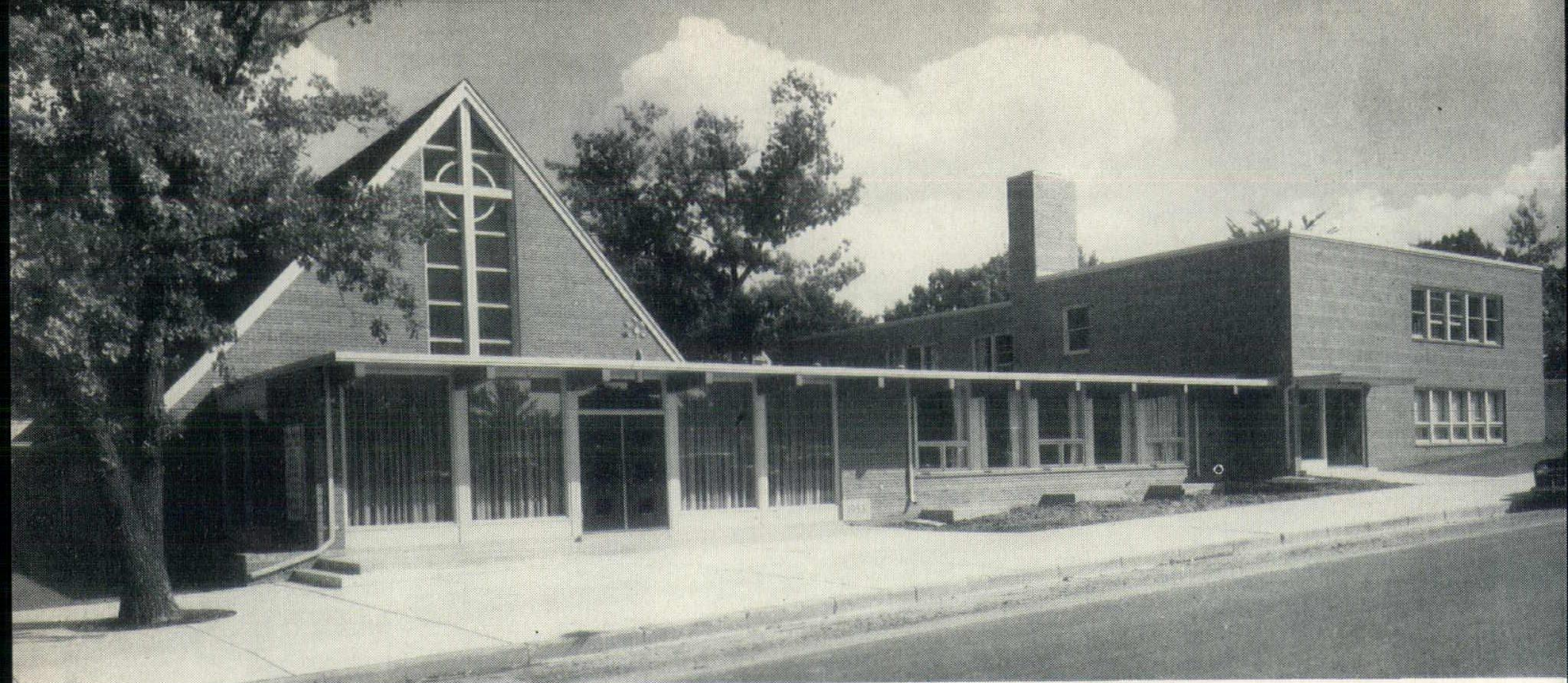
Detail of Altar



General Interior







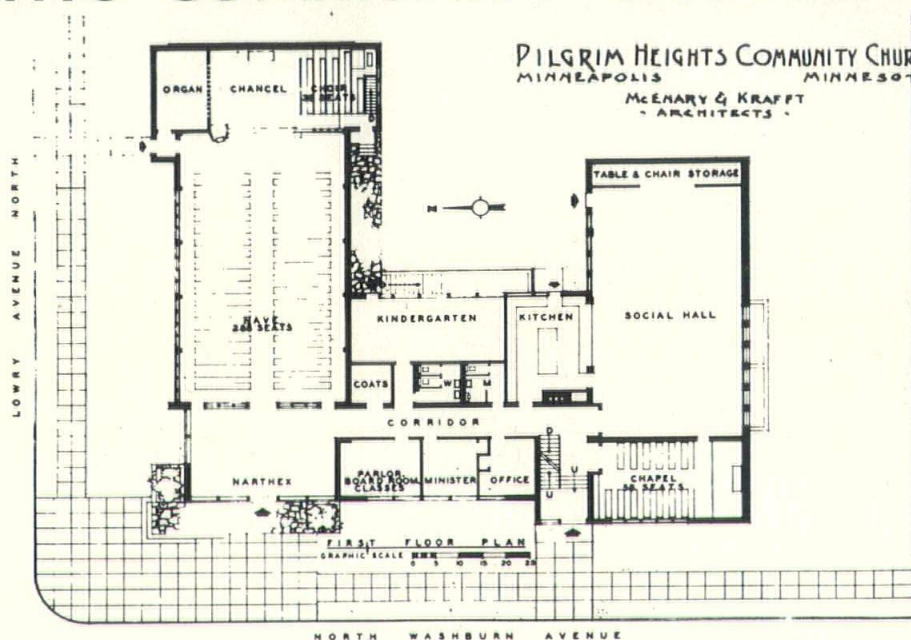
# PILGRIM HEIGHTS COMMUNITY CHURCH

Minneapolis  
Minnesota

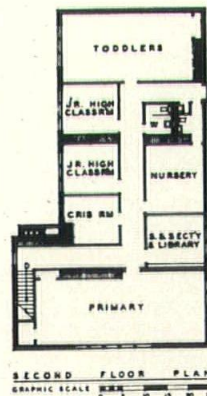
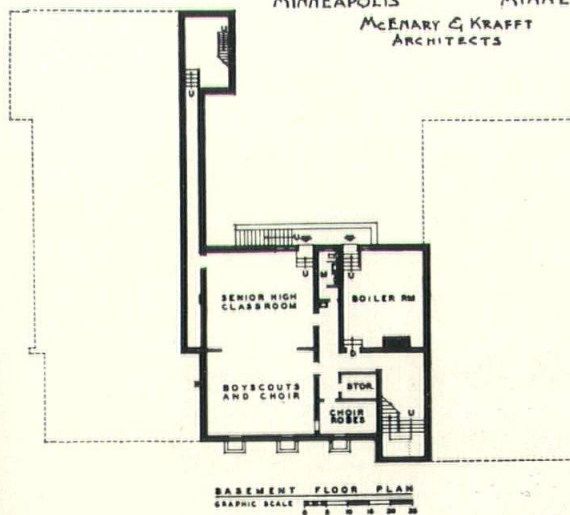
PILGRIM HEIGHTS COMMUNITY CHURCH  
MINNEAPOLIS MINNESOTA  
McENARY & KRAFT  
ARCHITECTS

## ALDERSGATE METHODIST CHURCH

St. Louis Park  
Minnesota



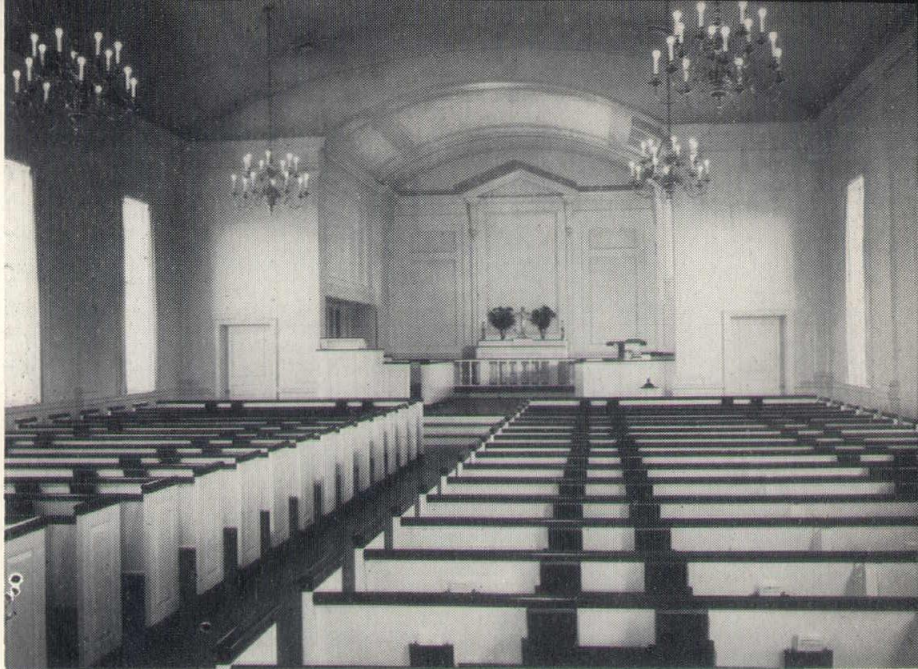
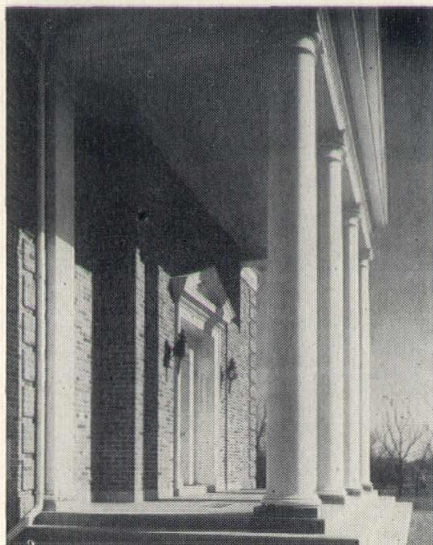
PILGRIM HEIGHTS COMMUNITY CHURCH  
MINNEAPOLIS MINNESOTA  
McENARY & KRAFT  
ARCHITECTS





# WAYZATA COMMUNITY CHURCH

Wayzata, Minnesota



# *Chapel of* PLYMOUTH CONGREGATIONAL CHURCH

Minneapolis, Minnesota

# *Chapel of* HENNEPIN AVENUE METHODIST CHURCH

Minneapolis, Minnesota

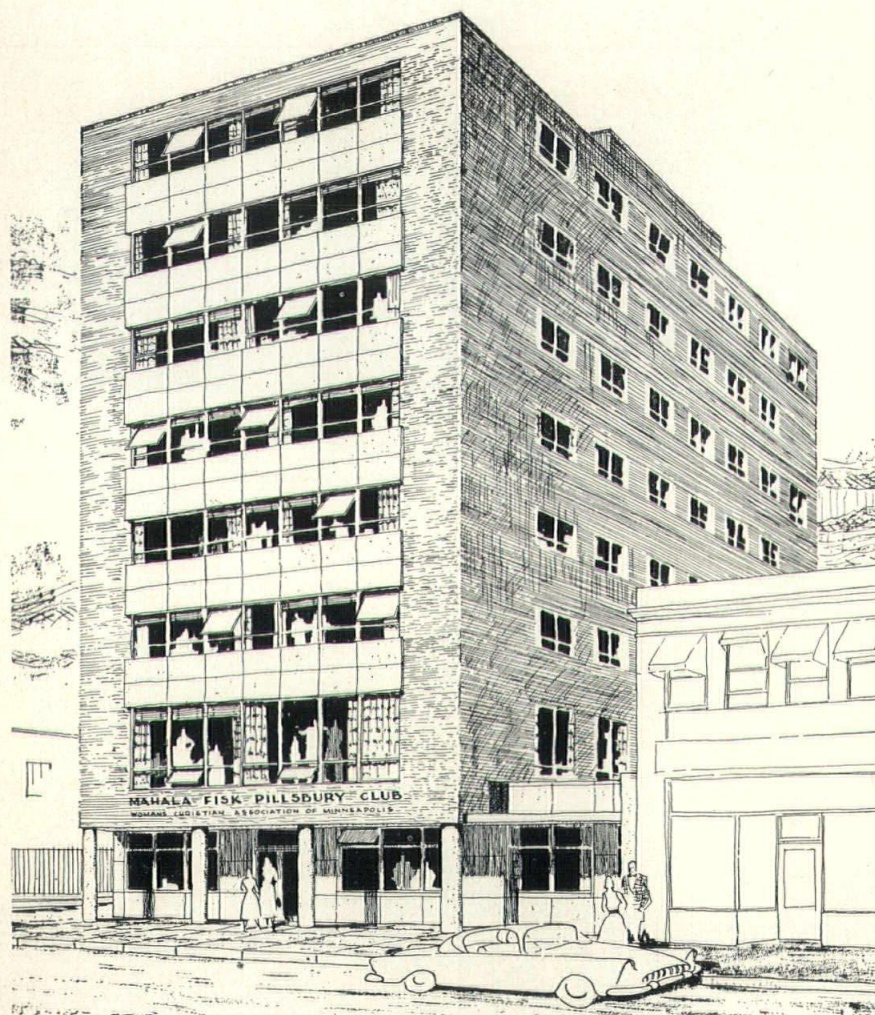






## FIRST EDINA STATE BANK

Edina, Minnesota



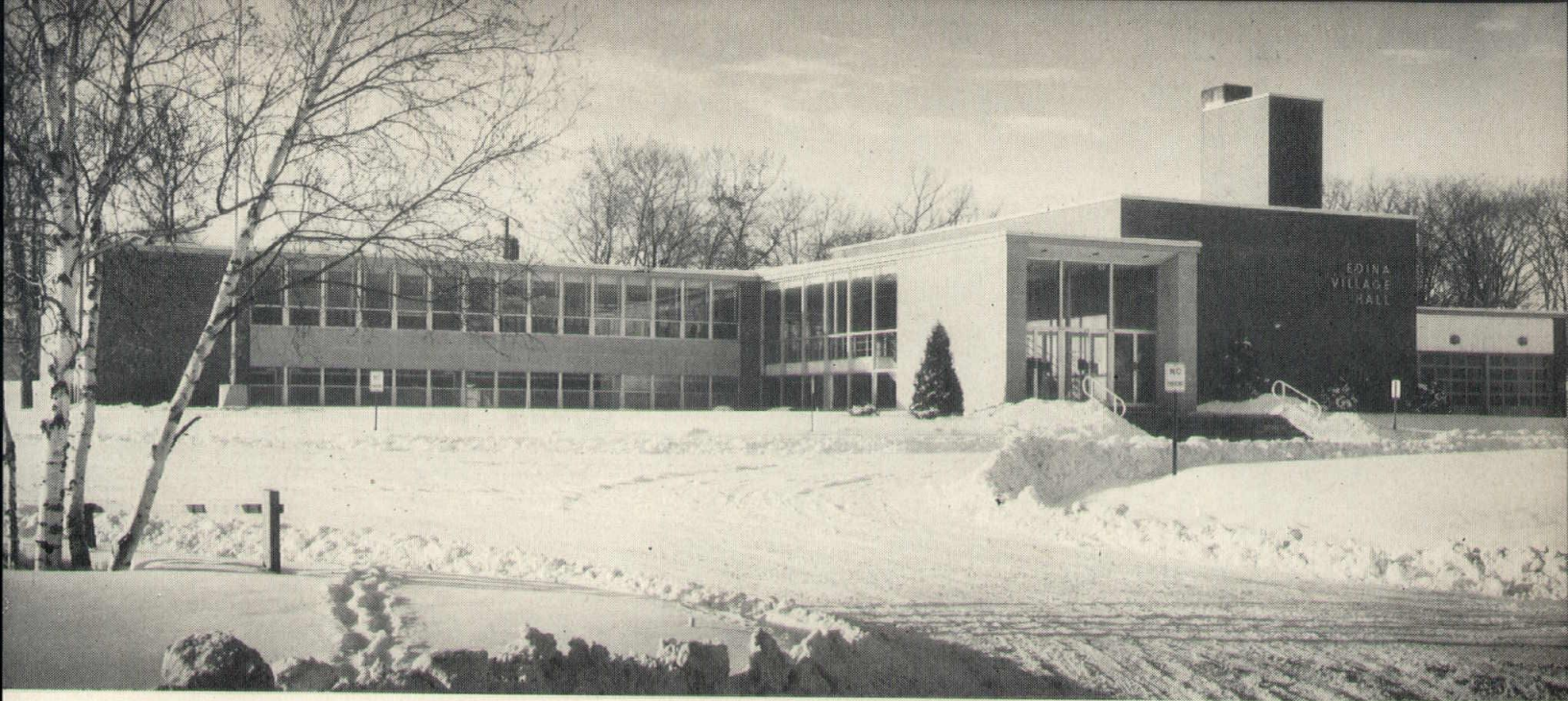
## MAHALA FISK PILLSBURY CLUB

WOMAN'S CHRISTIAN  
ASSOCIATION OF  
MINNEAPOLIS

*Residential Club for  
Employed Girls*

Minneapolis, Minnesota



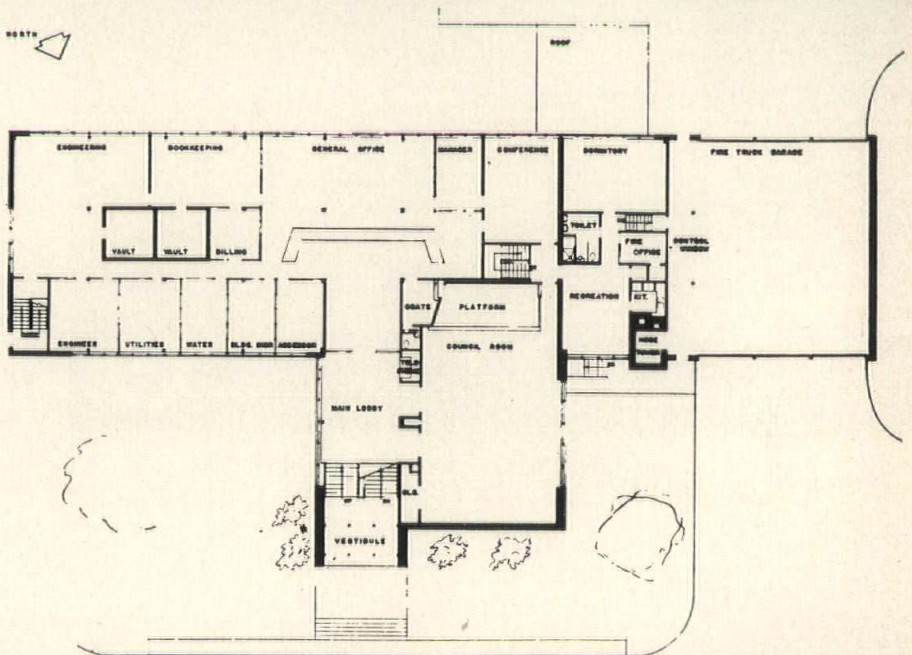


# EDINA VILLAGE HALL

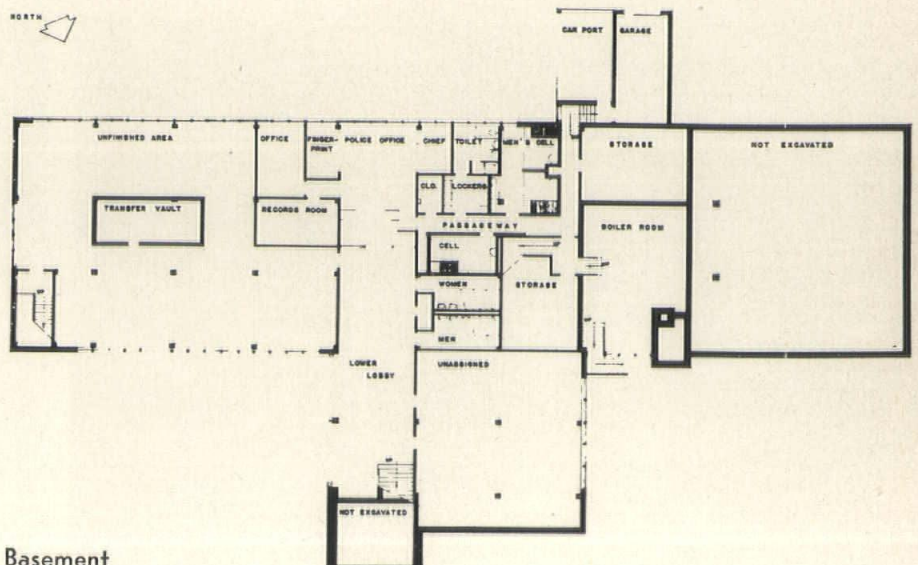
Edina, Minnesota

McEnary & Krafft  
Lang & Raugland

Associated  
Architects  
& Engineers



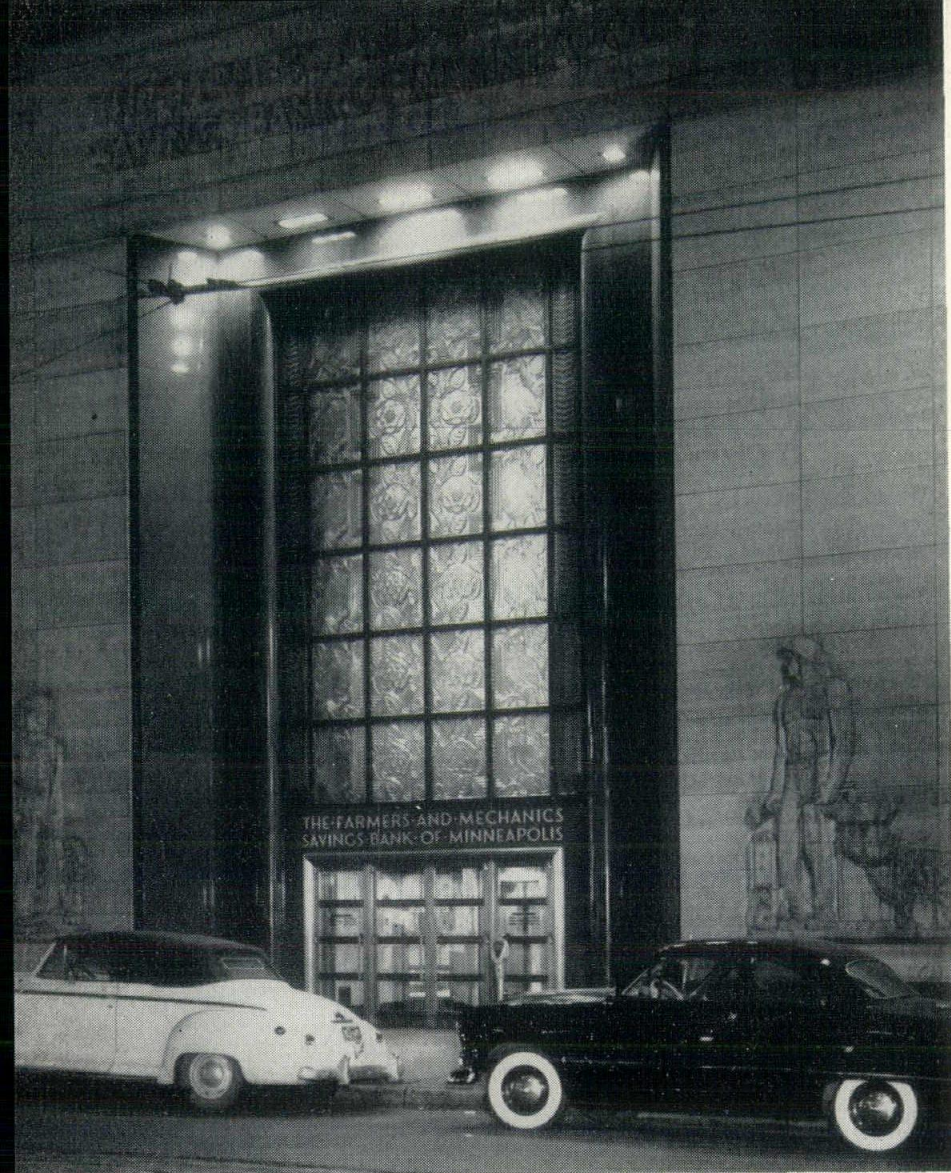
Main Floor



Basement



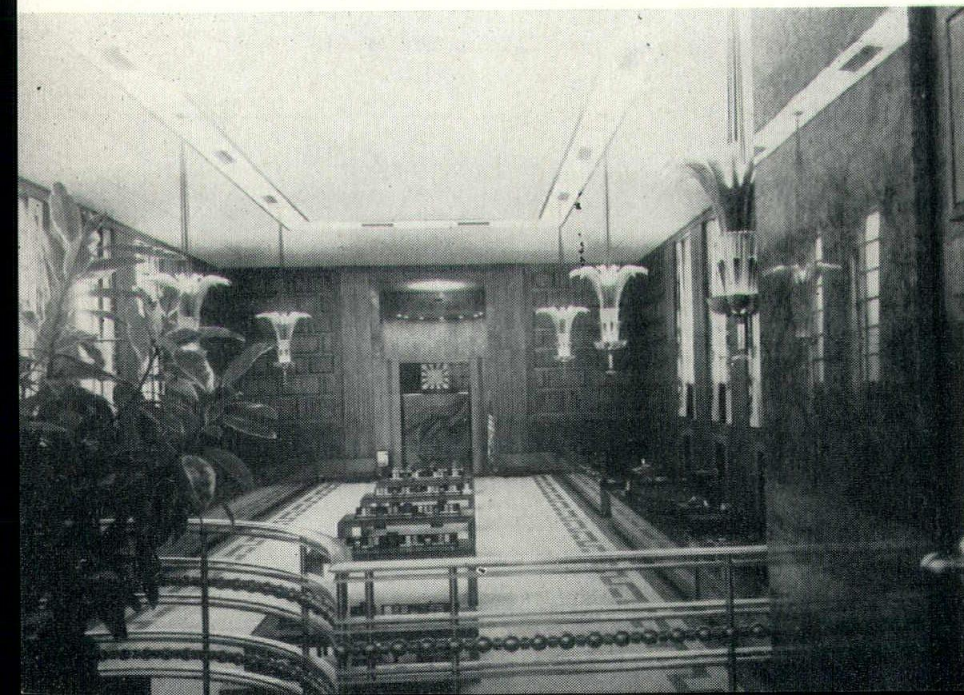
THE FARMERS *and*  
MECHANICS  
SAVINGS BANK  
*of* MINNEAPOLIS



Main Entrance at Night

Warren Mosman—Sculptor  
Furniture and Decorations  
by the Architects

General Interior



Exterior Detail





*Executive Offices for*  
**CARGILL  
INCORPORATED**

This building was originally constructed by the architects as a private residence and recently was converted into executive offices for Cargill, Incorporated.



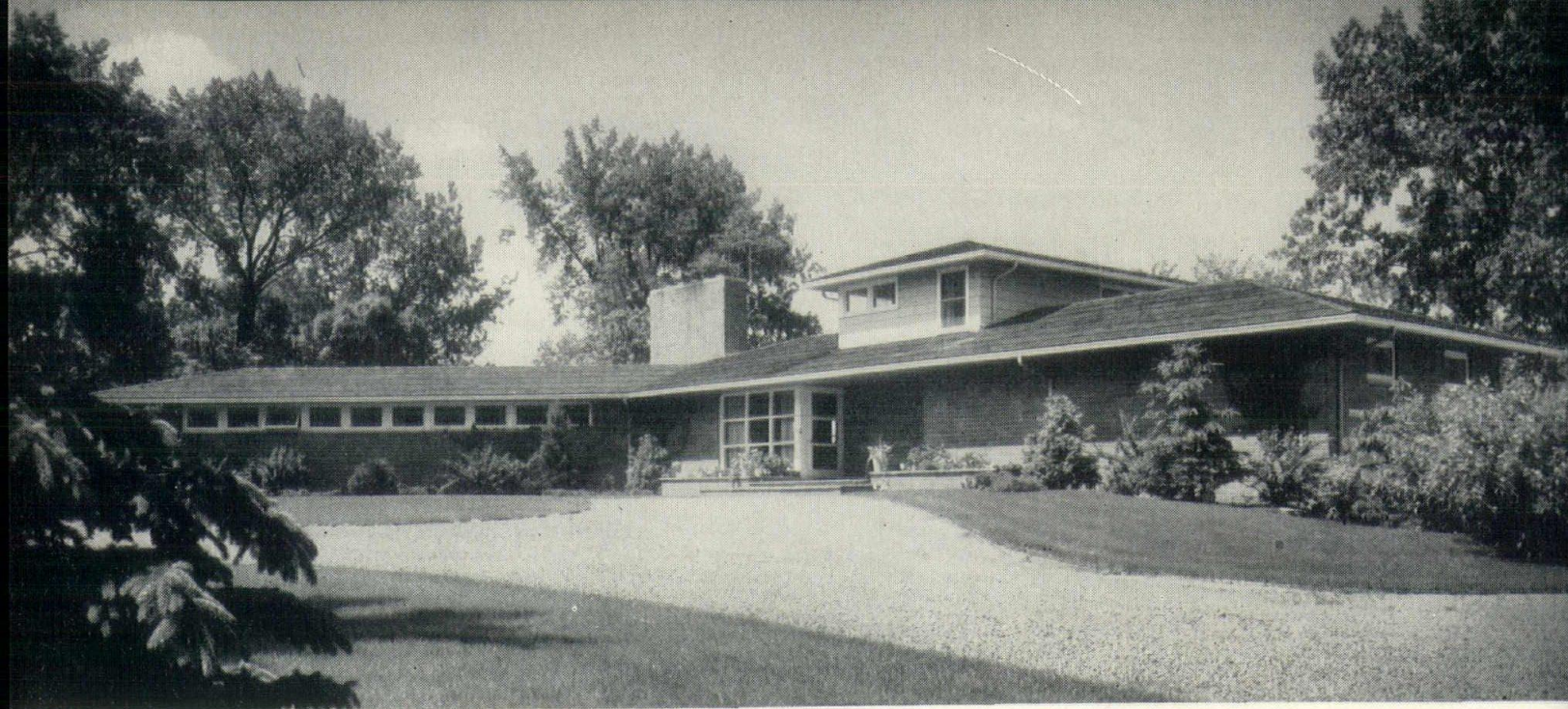
The Farmers and Mechanics Savings Bank  
Directors' Room  
Furniture and Decorations by the Architects

**GENERAL MILLS, INC.**

Directors' Room—Furniture and Decorations by the Architects

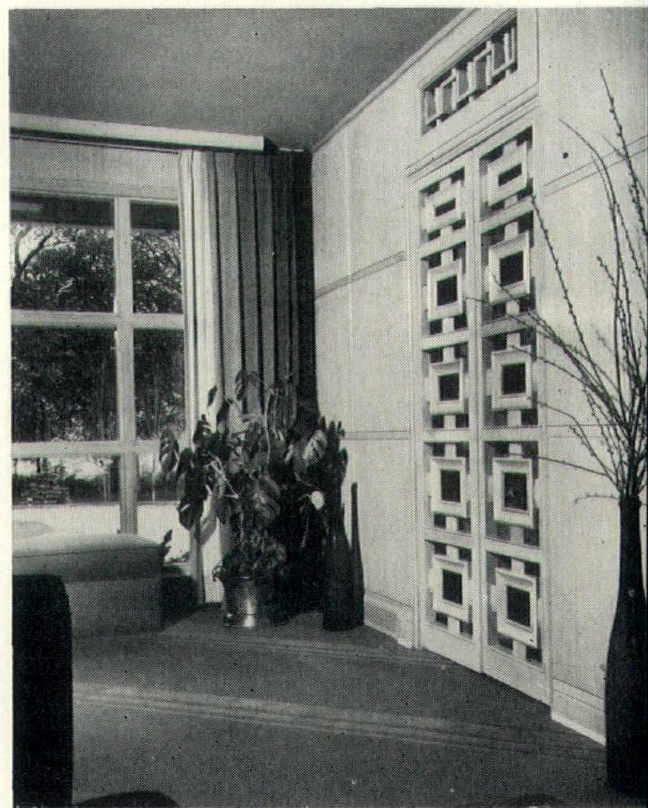




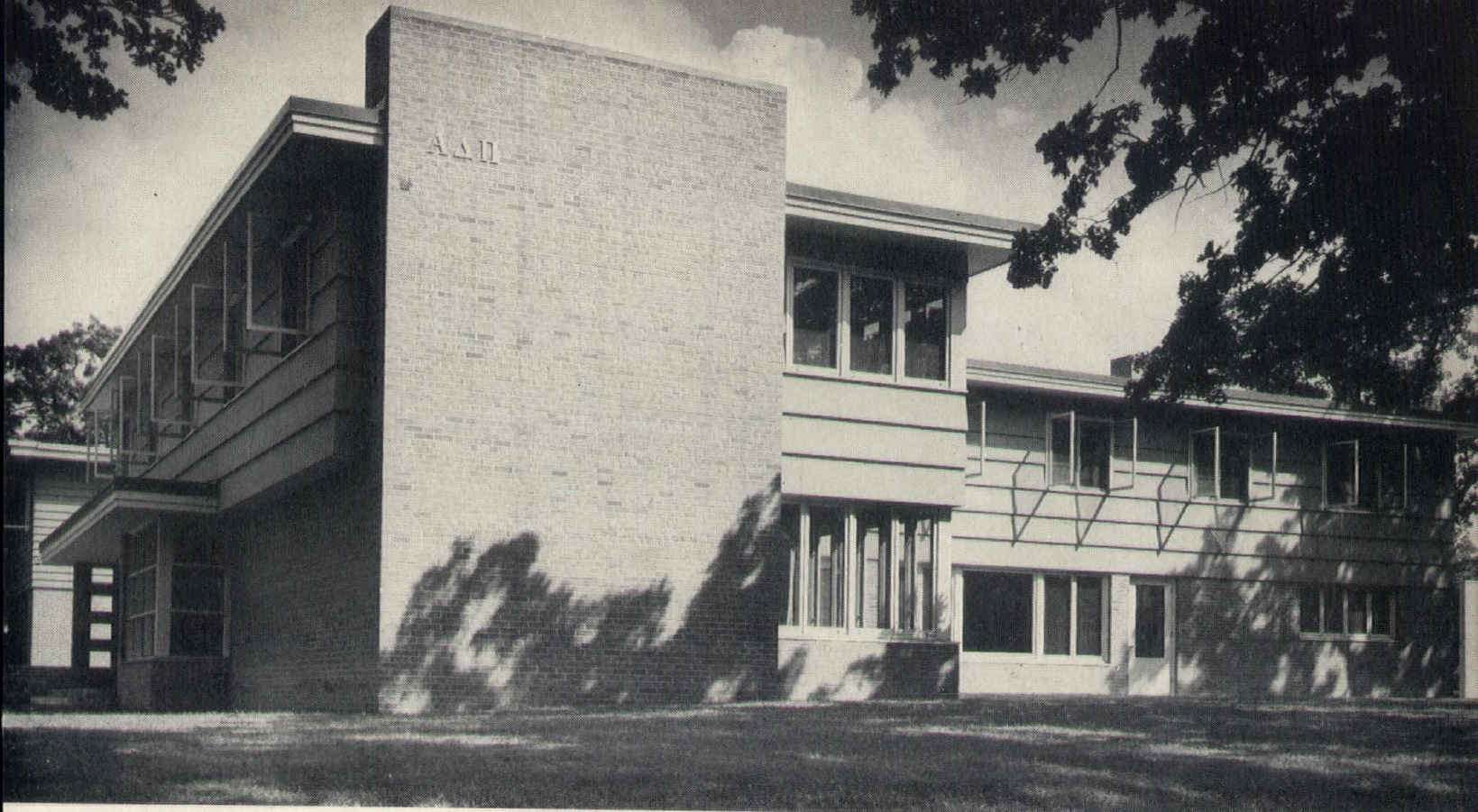


**COUNTRY HOUSE**  
*at* **BRACKETT'S POINT**  
 Lake Minnetonka, Minnesota

Interior Detail







# ALPHA DELTA PI SORORITY HOUSE

University of Minnesota

Alpha Delta Pi Living Room



# KAPPA ALPHA THETA SORORITY HOUSE

University of Minnesota



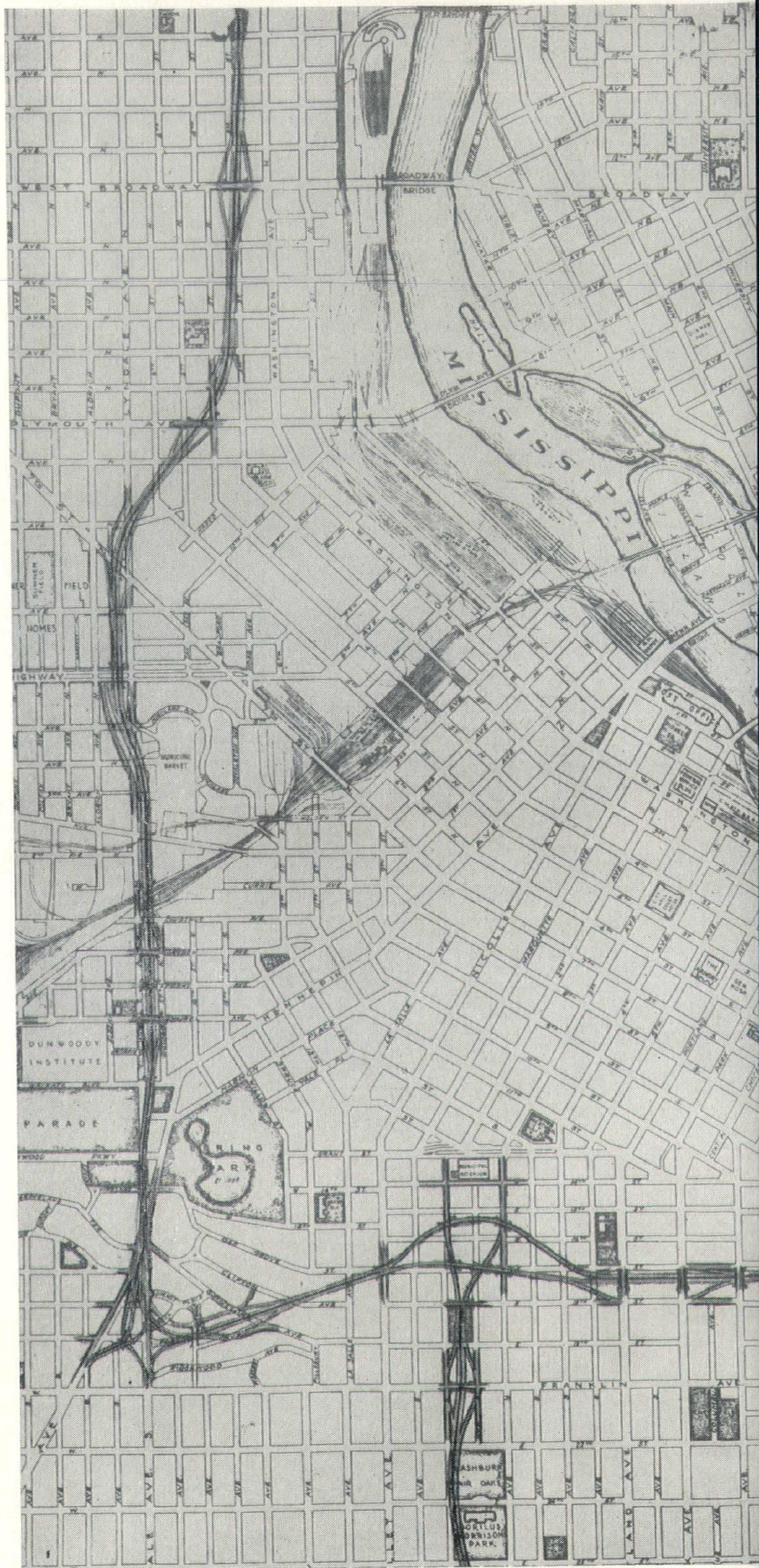


# What Do You Think?

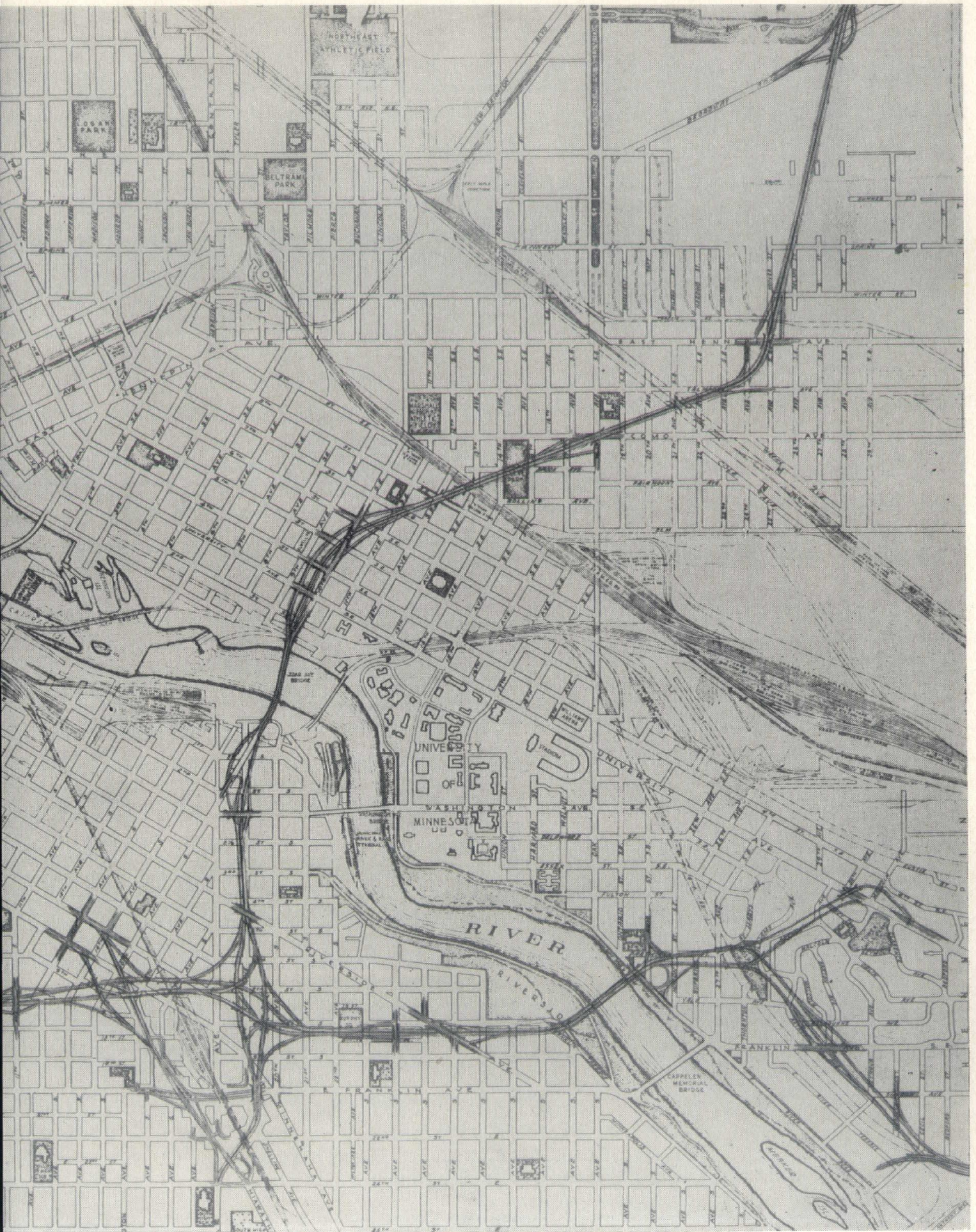


Announcement of the proposed Minneapolis and St. Paul Freeway, a super-highway within the Twin Cities to connect with the evolving U. S. system, raised a lot of controversy over its effects on areas traversed. We make no comment but publish on these and the following pages the plans supplied through the courtesy of the Minnesota Highway Department. What do you, as an architect, think? We'd like some readers' comments!

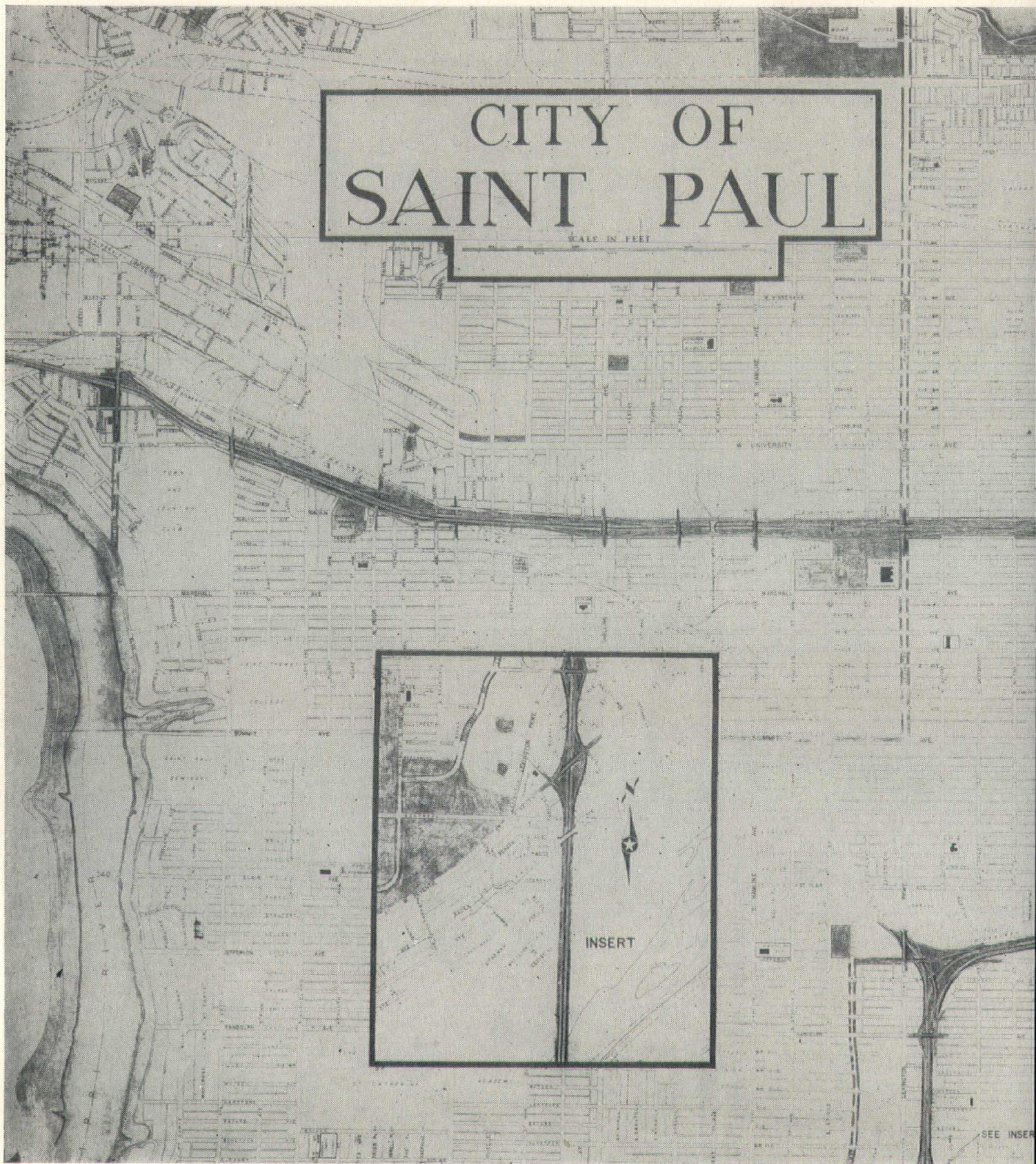
The Minneapolis Freeway shown here would connect with U. S. system to Fargo and Albert Lea.











The St. Paul Freeway, shown on these two pages, would connect with U. S. roads to Duluth, Hudson and Albert Lea.





Send us a comment!



# This Architect's **Concrete** Roof Deck Went On In A Few Hours . . . At **ZERO** Degrees

A concrete roof deck placed quickly in mid-winter and no moisture problems? Yes, it's not only possible but easy and at low cost, too, with ZONATILE!

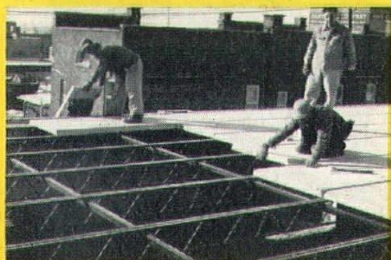
This supermarket roof in Mankato, Minnesota, went on in January at zero degrees in one day and a half with a five man crew. The ZONATILE roof of the building, designed by architects, Wick & Stansfield, Mankato, was ready for built-up roofing immediately after placement of the tile and grouting of the joints.



The tile are elevated directly from trailer to roof by means of a powered conveyor as fast as the men can receive them.



The lightweight (50 lb.) tile, easily handled by one man, is laid directly on the bar joists spaced 36" O.C. forming safe walking surface for workmen.



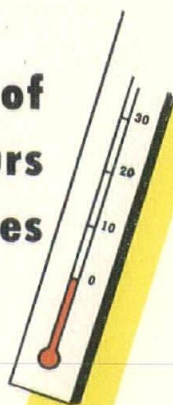
Roof is closed in rapidly by small crew butting tile against tile in tight, uniform rows across the entire deck.

For Full Details—Call or Write

## WESTERN MINERAL PRODUCTS COMPANY

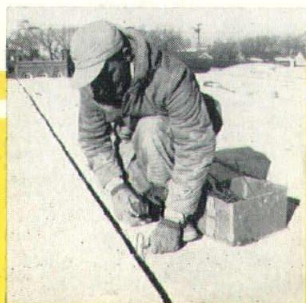
ZONATILE DIVISION • STERLING 9-8845

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### *Zonatile* short span CONCRETE ROOF TILE

ZONATILE SHORT SPAN CONCRETE ROOF TILE forms the deck and provides adequate insulation in one material—one operation. The lightweight, reinforced vermiculite concrete tile cannot rot or decompose and is completely incombustible. It is easily cut to any necessary odd shape. Cost of Zonatile deck is low because of fast erection, using minimum equipment and labor.

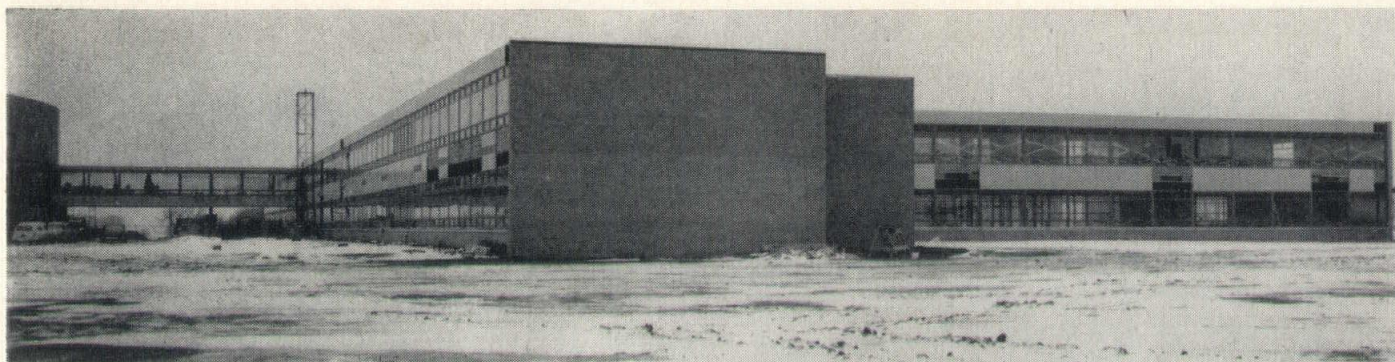


To provide positive anchorage, quarter-inch pencil rods are supported in V joint formed by beveled ends of the tile. Large wire "hairpins" are placed around rod and through top flange on joists and crimped around flange.

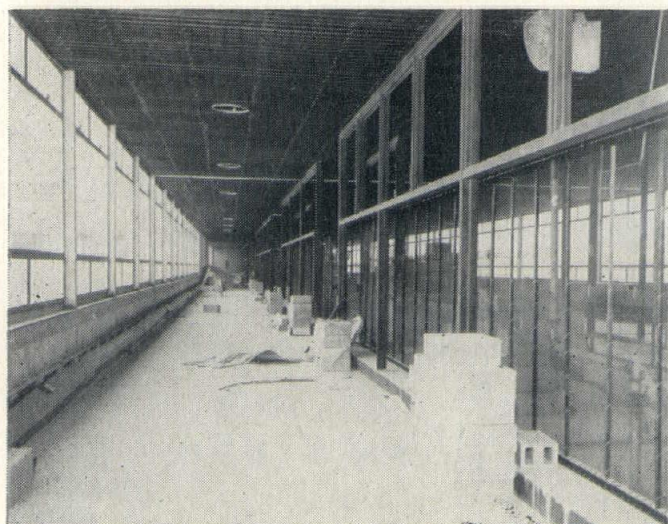


Joints are filled with a quick setting, pre-mixed grout, troweled smooth to provide level surface for roofing. Built-up roof can be applied immediately.





# HASTINGS HIGH SCHOOL HAS MANY UNUSUAL FEATURES



Corridor partitions act as a backup for student lockers and were treated on the corridor side with a half-inch of vermiculite acoustical plastic to prevent metallic noises from entering classrooms.

The \$2,000,000 Hastings Senior High School recently completed in Hastings, Neb., and designed by Clark & Enersen, AIA of Lincoln, has a number of interesting features. The main structure consists of a two-story classroom spine, 35 feet wide and 560 feet long, running east and west. Several wings separated by landscaped areas project on the north side of the spine. On the south side is a single floor (no balcony) auditorium seating 1,400 persons. The latter is connected with the second floor of the main building by a glass-enclosed bridge, 25 feet wide and 60 feet long, that commands a spectacular view over the countryside and doubles as a students' lounge. At its opposite end the bridge connects with the main stairway.

Other provisions include an indoor rifle range, a swimming pool, a two-story shop wing with ramped approaches to provide delivery to both floors, a cafeteria seating 500 and a gymnasium that can seat about 3,500 basketball fans. This gym is actually two units, one for boys and the other for girls, but can be opened up for a major event.

The school will eventually accommodate 1,200 students and covers about half of a site comprising 40 acres. The frame is structural steel. Walls are light pink brick veneer with a backup of lightweight block and porcelain enamel spandrels with a backup of block. The block partition walls are non-load-bearing so they can be moved at any future time.

Ceilings are sound-conditioned and fireproofed with vermiculite acoustical plastic, machine-applied over a lightweight plaster base coat on metal lath. With a ceiling height of 10 feet, it was possible to spray the acoustic directly from the floor.

Vermiculite acoustic was also used on the partitions that act as a backup for student lockers in the single-loaded corridors. This was done to prevent metallic noises from entering classroom. A half-inch of acoustic was applied over a  $\frac{3}{4}$  inch plaster base coat on the corridor side. The classroom side was finished with hardwall plaster. Partitions have hollow frames 8 inches wide and 5 feet high, with glass from the mullion to the ceiling line to provide bilateral lighting in classrooms.

The unusual auditorium ceiling is suspended about 20 feet from roof joists and was laid out on a radius with curvature in the rear of the auditorium. The first radius, near the stage, was laid out on about 36 feet. The next one is 63 feet, the next 71 feet and the last more than 100 feet. The panels are 18 feet wide and each is at a different angle to the floor. Ceiling height



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runs from 22 feet near the stage to 9 feet at the front entrance corridor. A light trough extends all the way around the sides and rear. Under the auditorium are band rooms and ramps so the entire band can assemble, line up and march out.

The ventilating system carried in the spandrel walls supplies fresh air individually to each room. The heating system is steam, also with individual controls. Ample parking facilities are provided at the northwest and southeast ends and near the shop wing. Bicycles are parked in a covered court.

## Minnesota Convention

*(Continued from Page 30)*

hear new ideas and to pose questions on their problems to the experts and obtain definite answers to use in their future work.

An interesting display of architectural work recently completed by members of the profession will be on exhibition. Architects' drawings and specifications as well as models and exhibits will make up the architectural display.

The program, though necessarily tentative and subject to last minute change, is printed elsewhere in this issue of the NORTHWEST ARCHITECT.

## FEDERAL PUBLIC BUILDINGS SERVICE TO USE MODULAR TROFFERS

The Public Buildings Service of the federal government has recently taken action toward obtaining light troffers which will fit into modular dimensions, according to a report from AIA's modular officials. The government statement on the revision of troffer spex indicates possible future trends in this direction.

"It is our aim to see to it that illumination of federal buildings will be as adequate and modern as it is practical to make it," T. F. Coughlan, agency's electrical engineer, said. "We do not intend to lag behind the private engineer in taking advantage of new and worthwhile developments. Neither do we propose to spend taxpayer's money on new and untried gadgets or ideas that are questionable or impractical from the government's standpoint. . . .

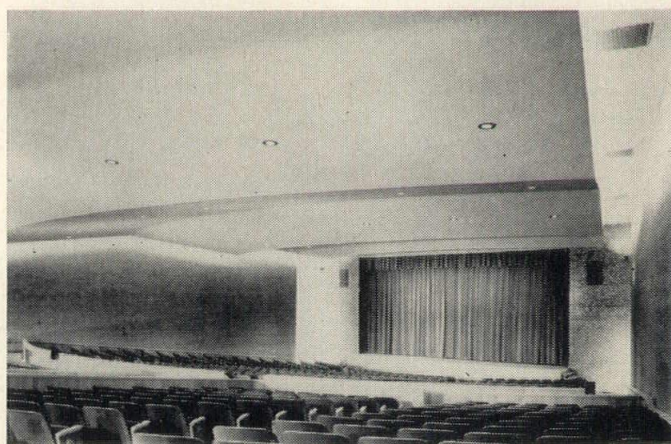
"The PBS's standard suspended types of fluorescent lighting fixtures have always been made up on even dimensions, strictly in line with principles of Modular Measure, but recessed types had been  $\frac{1}{8}$ " over on each basic unit so that, in multiple-unit installation, this  $\frac{1}{8}$ " kept adding up and did not work out so well architecturally—especially when installed in a 12" or other tile ceiling that is in line with modular principle.

"To overcome this undesirable feature PBS fixtures were revised, making troffer an open-end trough, except for a narrow cross-supporting piece on open bottom at each end of each basic unit, where it does not interfere with lampholders. By adding very simple end-piece and joining piece, length of basic units is now same as nominal lamp lengths over lampholders, i.e., 24" — 36" — 48", etc.

"Frames made  $\frac{3}{8}$ " overlap over adjoining tile, which evenly covers mitered edge of tile at sides and ends of



The curved front of the auditorium and the bridge are shown in this picture.



Interior of auditorium showing unusual offset ceiling of machine-applied vermiculite acoustical plastic.

fixture, whether singly installed unit or several units installed end-to-end to form continuous multiple-unit fixtures. Where end-plate adds thickness of plate at extreme ends of complete fixtures, that slight additional length over even dimensions occurs above ceiling construction—does not affect fitting within tile dimensions nor does it prevent 4" module planning.

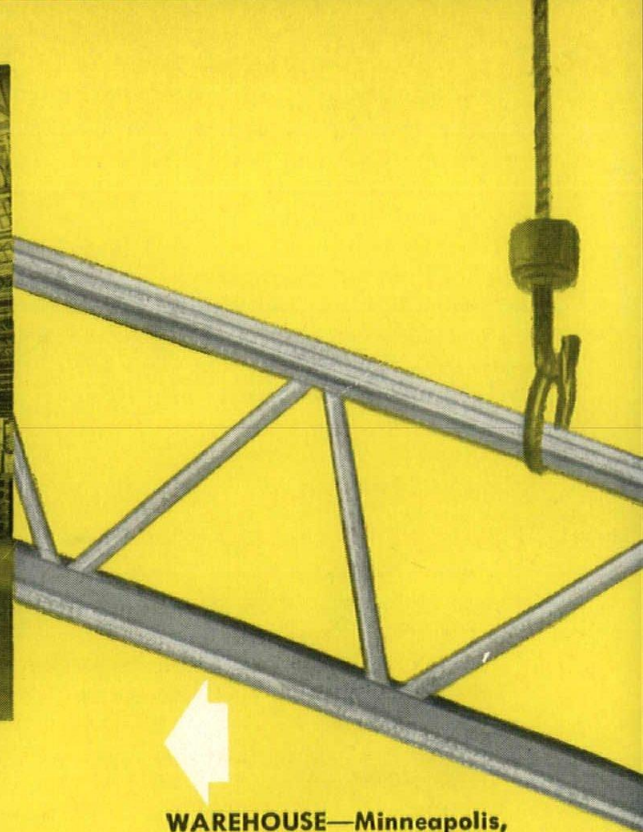
"I hope that this development may be of some value to the lighting industry, since PBS standard designs are not restricted by patents and are available for use by any who may wish to take advantage of them."

## MINNESOTAN PLACES FOURTH IN NATIONAL BRICKLAYER CONTEST

An apprentice bricklayer from Appleton, Minnesota, Warren Moen, placed fourth in the 1956 bricklayer apprentice championships in Seattle recently. His prize was \$200.

The contest is supported by the Structural Clay Products Institute, Mason Contractors' Association of America and similar groups. First prize went to Robert G. Neasham, Santa Clara, Cal., who won out over 37 other apprentices.





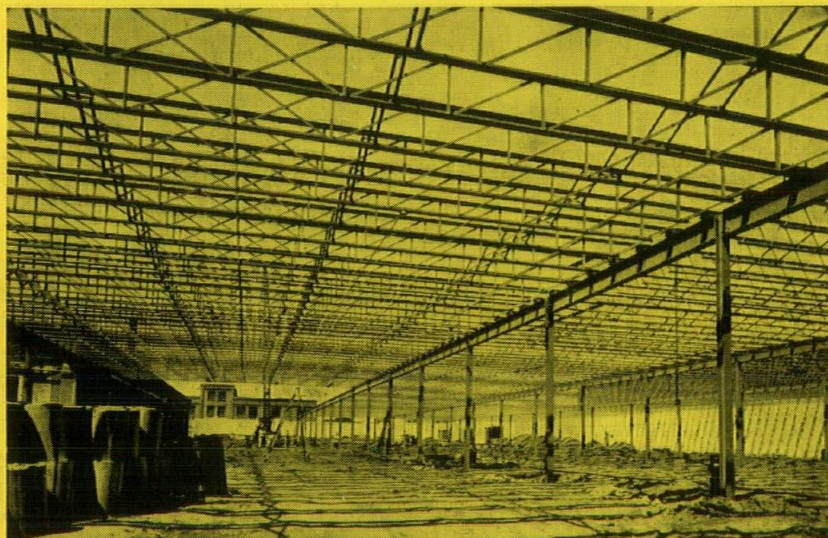
**WAREHOUSE—Minneapolis,  
for Old Peoria Company**

*contractor:* Adolfson & Peterson

*architect:* Saul C. Smiley

*erector:* Waylander & Peterson

*Pacal supplied:* standard and  
longspan open web joists, struc-  
tural and reinforcing steel, steel  
roof deck.



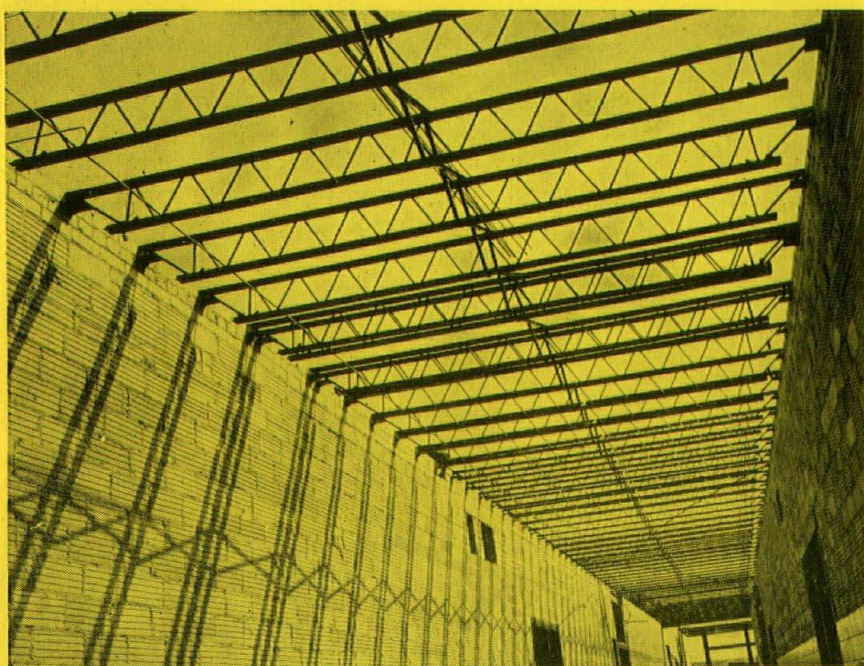
**BUS GARAGE—St. Paul  
for Twin City Rapid Transit Co.**

*contractor:* Ring Construction  
Corp.

*architect:* Loren B. Abbett

*erector:* Waylander & Peterson

*Pacal supplied:* longspan and  
standard joists.



**SCHOOL—Kenyon, Minnesota**

*contractor:* Dean Contracting  
Company

*architect:* E. D. Corwin & Associates

*erector:* Holman Erection Company

*Pacal supplied:* standard and  
longspan open web joists, struc-  
tural and reinforcing steel.



## JUST OFF THE PRESS...

A brand new 36-page brochure on "Pacal Open Web Steel Joists". It describes Pacal's complete line of open web joists and contains helpful information for architects and contractors. Includes standard practices and specifications, loading tables for Pacal standard and longspan open web joists and a complete description of Pacal Joist accessories.

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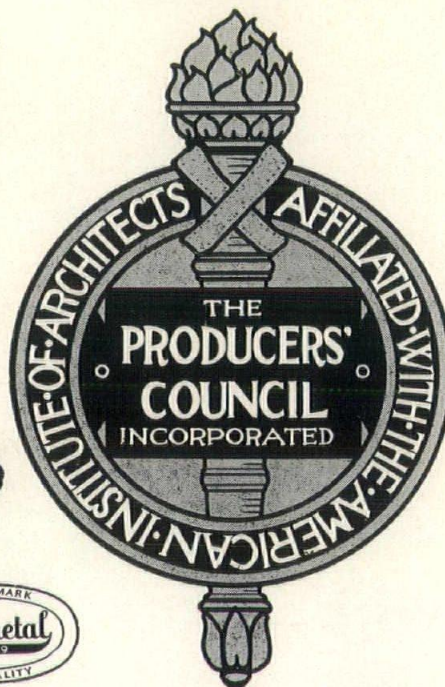
Hamilton



Frank Adam Electric Co.



Keeler Steel, Inc.



Fenestra



Roddiscraft



Carey

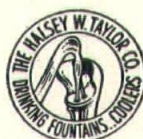


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Bricklayers No. 2

Cabinet Makers and Millmen No. 1865

Carpenters No. 7

Carpenters and Floor Layers No. 1644

Carpenters No. 851  
Anoka, Minn.

Carpenters No. 889  
Hopkins, Minn.

Carpenters No. 1171  
Shakopee, Minn.

Cement Finishers No. 557

City & County Laborers No. 363

Construction and General Laborers  
No. 563

Dock Builders and Pile Drivers No. 1847

Drivers No. 221

Electrical Workers No. 292

Elevator Constructors No. 9

Glaziers No. 1324

Iron Workers No. 512

Lathers No. 190

Linoleum Layers No. 596

Marble and Stone Shopmen No. 91

Millwrights No. 548

Operating Engineers No. 49

Painters No. 386

Pipe Fitters No. 539

Plasterers No. 65

Plaster Tenders No. 111

Plumbers No. 15

Roofers No. 96

Sheet Metal Workers No. 34

Sign Hangers No. 34

Sign Painters No. 880

Stone Cutters No. 8

Terrazzo Helpers No. 107

Terrazzo Workers No. 5

Tile and Marble Helpers No. 34

Tile Setters No. 18



# AIA Considers "Good Life" at Los Angeles Convention

The relationship of the architect's work to today's living got a full investigation during the May 15-18 annual convention of the American Institute of Architects in Los Angeles. Theme of the four-day meetings, which lapped over into associated meetings of related groups, was "Architecture for the Good Life."

The theme allowed for many expansions of what is meant by "the good life." Seminars and speeches before regular and subordinate meetings covered aspects of safety, the arts, homes, public buildings, industrial structures and many other things.

On May 15 participants in the safety seminar discussed protection of lives and property against such hazards as hurricanes, fires, floods and earthquakes, through planning

and the incorporation of proper safeguards in the basic design of homes, schools and other buildings.

Participants in a panel discussion, May 16, on aesthetic satisfaction through collaborative design included leaders of modern art thought. The third seminar, scheduled for May 17, took up the architect's big new challenge—better design for a million new homes each year. Moderated by AIA President Cummings, this discussion also headed editors of leading home-planning magazines.

In addition to the three major seminars several AIA national committees held round table discussions. A member of the Committee on the Preservation of Historic Buildings, Lulah Maria Riggs of Santa Barbara, acted as moderator for a round table that included talks on Early Southern California Architect-

ture and on "Progress's Dilemma." John Lyon Reid of San Francisco conducted the round table on school building trends. Walter R. Hagedohm moderated a round table on architectural specifications and round tables also were held by the AIA committees on education and office practice. The Southern California Chapter conducted a series of seminar tours in the Los Angeles area, visiting schools, tract housing, churches and hospitals.

Clarence S. Stein of New York, recipient of AIA's 1956 Gold Medal, was the principal speaker at the banquet of the American Institute of Architects. Other speakers during the convention were John E. Burchard, dean of Massachusetts Institute of Technology's School of Humanities and Social Studies, who made the keynote address on the convention theme "Architecture for the Good Life" at the opening session on May 15.

At luncheon on the opening day Mayor Norris Poulson of Los Angeles welcomed the visiting architects and the retiring president, George Bain Cummings of Binghamton, New York, reported on the state of the institute.

During the morning session on May 16, Justin Herman of San Francisco, Housing and Home Finance Agency's regional administrator, spoke on government housing programs. The Mexican architect and planner, Carlos Contreras, gave the final convention address on May 18.

Mr. Stein, 73-year-old architect whose pioneering work in civic design long ago gained him international recognition, was the twenty-first recipient of the AIA's medal, conferred by the 11,000-member professional organization of architects in the 50 years since the award was created in 1906. It is the AIA's highest professional honor.

Among those receiving it in recent years were William A. Delano and Frank Lloyd Wright, each of whose periods of architectural practice spanned over half a century, Sir Patrick Abercrombie, the noted British architect and city planner, and the distinguished French architect, August Perret.

Mr. Stein has been a Fellow of the AIA since 1934.

## Rubber Locker Trays—

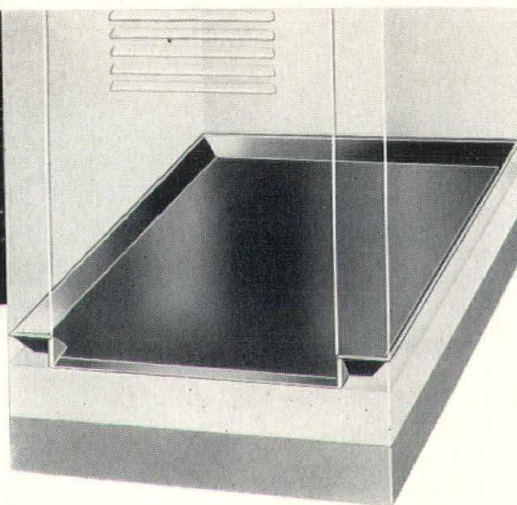
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Academy Rubber Locker Trays extend the life of lockers by preventing rusted bottom seams, cushioning against impact of hard objects, ending chipped and scaling bottoms. . . . Standard sizes are molded to fit standard locker sizes. . . . Just press them into place. No installation equipment needed.

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Molded of durable rubber compound with snug fitting lip, beveled front for door, Academy Rubber Locker Trays seal out damaging moisture from sweaty apparel—rubbers, towels, socks, slickers, etc.—getting into bottom seams to start rust and destruction of locker. Protects clothing from rust stains. Tray easily removed for cleaning. They save their slight first cost many times over in locker installations. Write for prices, sizes and colors available.



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The distinguished architectural achievements of this year's Gold Medal winner are most brilliantly shown in his contributions to an understanding of the social functions of architecture, especially through his innovations in the field of site planning and the design of entire communities.

Mr. Stein leaped to national attention with his design, over a quarter of a century ago, of the 1200-unit Sunnyside Gardens community housing development in Long Island City, N. Y., and of Radburn, N. J., a completely new town in which the modern scheme of safety streets and super blocks was developed.

With these pioneering contribu-

tions, Mr. Stein made clear that the architectural problem of providing esthetically successful housing could be solved best by treating the whole community as a unit of design. An advanced concept at the time, this approach was widely influential upon architectural thought and has had an increasing effect upon the planning of new communities all over the world.

Of Mr. Stein's work, Lewis Mumford, the distinguished architectural commentator, recently wrote:

"There are architects of great distinction whose value for future generations would disappear if their buildings were destroyed. But Clarence Stein's actual buildings might all vanish and yet his genius as a

planner and his insight as a human being who always seeks to put the formal problem within its human setting would still happily continue to influence the thinking and planning of his successors.

"He has plowed the field and planted the seed; others will harvest the crop for many generations to come."

Latest of Mr. Stein's achievements is direction of planning for the celebrated new town of Kitimat, in British Columbia, now partially completed on a former wilderness site for the Aluminum Company of Canada. It is planned for an ultimate population of 50,000 in connection with this firm's new aluminum smelter.

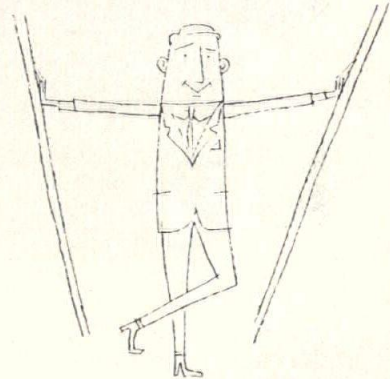
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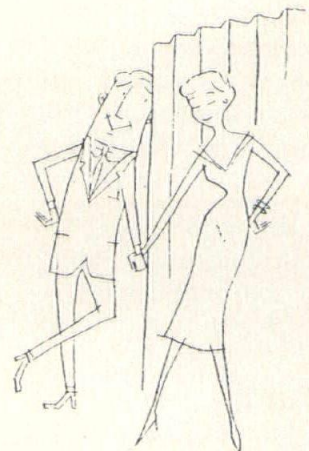
Modernfold doors give architects the perfect solution to the problem of maximum space use in schools, hotels, factories, homes, and all types of institutions. Architects in increasing numbers are finding Modernfold doors a valuable and flexible building product.



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Modernfold doors function as ingenious room dividers. No other product can compare with Modernfold's effortless, trouble-free operation, and commanding beauty. Modernfold is a high quality "movable wall" that makes rooms do "double duty" to meet your client's requirements.

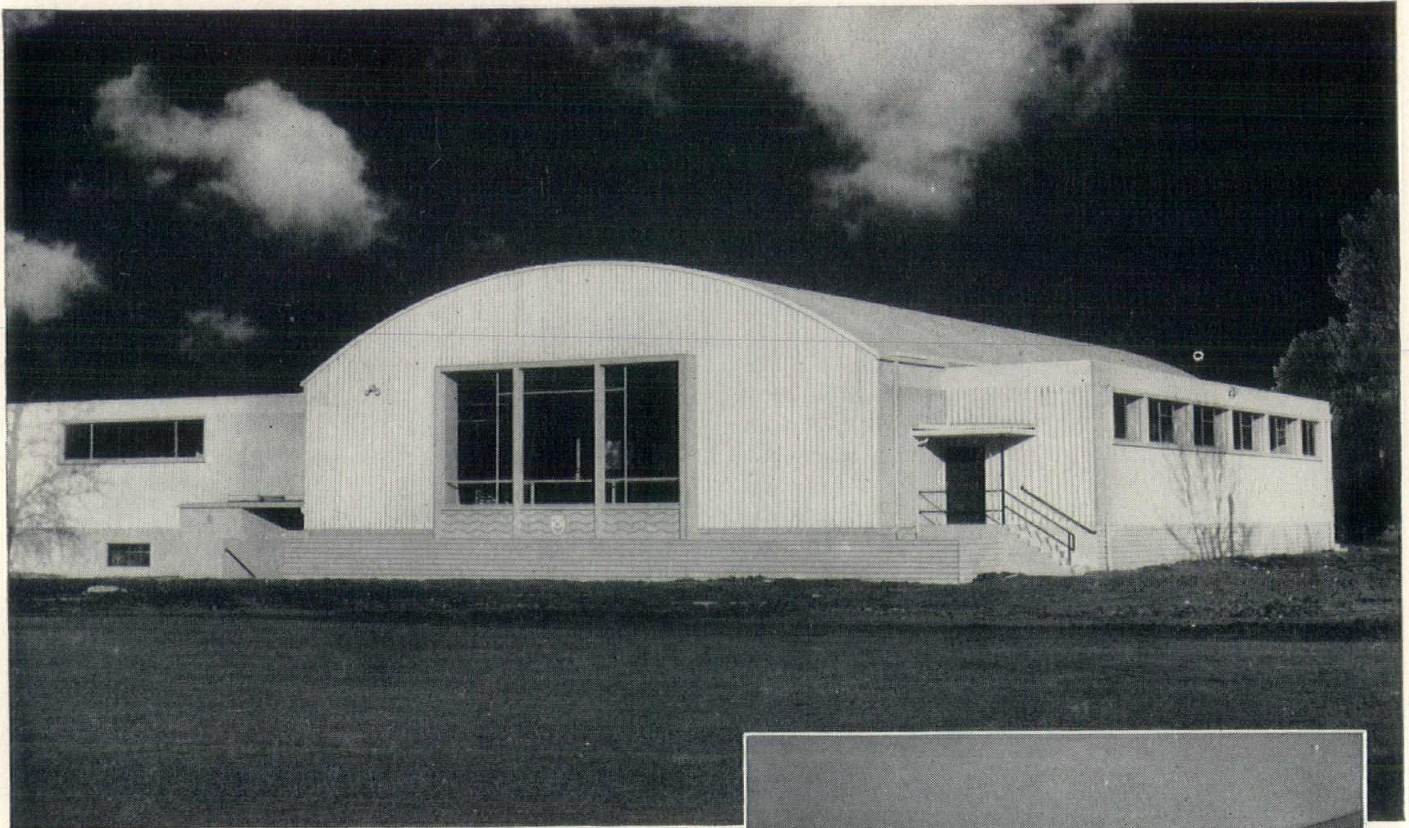
*When you have a space problem, consult the Northwest's largest Modernfold door distributor.*



**INSULATION SALES COMPANY**

20 Lakeside Ave. • Minneapolis, Minnesota





**CONCRETE**  
Shell Roof Provides  
Distinctive, Economical Pool  
in Seattle

Economical construction and unobstructed inside space were main reasons for choosing a concrete shell roof for the Seattle park department's swimming pool at Green Lake. The 64' x 110' roof is supported only at the end walls. It forms a curve with a 54' radius and arches to 25' above the normal pool water level. The concrete in the roof tapers from 6" thick at the end walls to 3 1/4" in a distance of 4'.

Concrete shell roofs can span up to 300' and more without supporting columns. That's an important consideration in auditoriums, garages, warehouses, hangars, gymnasiums, exhibition buildings and train sheds and repair shops.

Concrete shell roofs are low-annual-cost investments. They are economical to build, need little or no maintenance, have long life and low insurance rates. Write for free literature. It is distributed only in the United States and Canada.

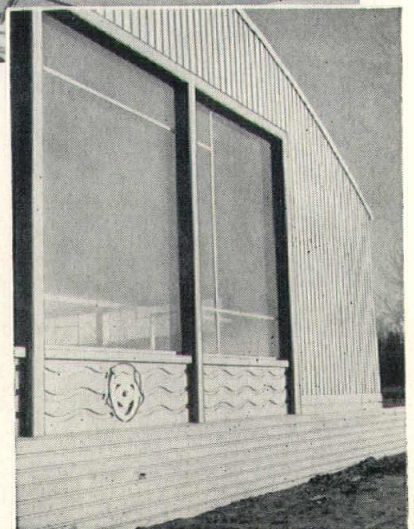


Top: Attractive exterior of the Green Lake swimming pool building of the Seattle, Wash. park department.

Center: In the interior of the building the concrete shell roof made possible a large unobstructed area.

Right: Interesting decorative touches were cast in the exterior architectural concrete wall surfaces.

Architects and engineers: Lamont & Fey. General contractor: Cawdry & Vemo. Both firms are from Seattle.



**PORTLAND CEMENT ASSOCIATION** 1490 Northwestern Bank Building, Minneapolis 2, Minn.

A national organization to improve and extend the uses of portland cement and concrete through scientific research and engineering field work

NORTHWEST



Theodore I. Coe, FAIA of Washington, D. C., received the Edward C. Kemper Award. This award is given annually for outstanding contributions to the architectural profession or the Institute.

A member of the Institute's staff for more than twenty years, Mr. Coe serves as technical secretary in the Washington headquarters. As technical secretary he handles requests for technical information, edits the AIA Filing System and Alphabetical Index, represents the institute on technical committees of other organizations in the building industry and prepares the Technical News and Technical Bibliography for the quarterly *Bulletin* of the AIA. He acts as liaison between the Institute and the Producers' Council, which in 1955 presented him with the Producers' Council Award of Recognition.

Hildreath Meiere, noted American mural painter and designer, won the 1956 Fine Arts Medal of the A.I.A. In the 35 years Mrs. Meiere has maintained her own studio in New York City, she has completed more than 100 major commissions of great variety here and abroad, among them decorations for the dome of the National Academy of Sciences in Washington, seven separate commissions for ornamentation of the Nebraska State Capitol and

commissions for Rockefeller Center in New York.

Harry Bertoia, 41-year-old sculptor, designer and painter whose abstract sculpture has gained him a national reputation in recent years, was recipient of the Craftsmanship Medal, which was established in 1915 and is the highest honor the institute can give for craftsmanship in metals, wood, masonry, pottery, glass and allied arts.

The vice-chairman of F. W. Dodge Corporation, Thomas S. Holden of New York, was elected to honorary membership in the institute. Others so honored this year are Brigadier General Thomas North of Washington, D. C., secretary of the American Battle Monuments Commission; Leon Zach, Washington, D. C., president of the American Society of Landscape Architects; and John F. Lewis, Jr., Philadelphia, a civic and cultural leader in his community who is president of the Pennsylvania Academy of the Fine Arts.

Honorary Membership in the national professional architectural society is conferred upon persons otherwise ineligible for corporate membership, who have rendered distinguished service to the architectural profession or to any of its allied arts or sciences.

## THERMO-SASH VALUABLE AID IN DOUBLE GLAZING

Thermo-Sash, "the ideal companion for any double glazed installation," according to its makers, was developed about 10 years ago and since that time its acceptance in the Midwest has enabled Kesko to expand its facilities from an original 3200 square feet of manufacturing space to a completely new and modern factory of 35,000 square feet. Facilities now available to the architectural field consist of an architectural service department for contact work and a modern and competently staffed design and engineering department to work with the architect in the design and layout of his fenestration.

"Thermo-Sash, through its unique design, completely eliminates all frost and condensation due to the high conductivity of aluminum and at the same time lends a pleasing and functional design to all of its installations," Kesko officials said.

Thermo-Sash has been widely accepted for use in laboratories, libraries and other structures where humidity must be closely controlled as well as in areas of high humidity which tend to accentuate the problem of frost and condensation. With the use of a large number of special extruded shapes, Kesko is able to meet all design and application problems.

The unique construction of Thermo-Sash stems from a basic core material of plastic bonded laminated wood, onto which is journaled an interior and exterior basic frame section. Over this is applied the glazing stops which are removable for either interior or exterior glazing. The laminated core serves a two-fold purpose, in that it is used to divorce the interior and exterior metal and also add a great amount of stability to the unit. This makes possible large units to be shop fabricated and shipped completely assembled, ready for installation into prepared openings, thus eliminating costly field assembly.

The strength of an assembled Thermo-Sash mullion allows for a minimum of deflection when subjected to extreme wind loadings and this same strength can also be used for load bearings and borrowed lite partitions.

## VRY NAMED LAYNE-MINNESOTA CHIEF ENGINEER

D. C. "Don" Vry, formerly of Billings, Montana, has been named chief engineer of Layne-Minnesota well-drilling, turbine pumps and water treating concern, according to Lee Rogers, president.

Mr. Vry is a veteran in the "water" business, joining the Layne-Minnesota organization in 1946 after serving with General Filter Company, an affiliate concern in Ames, Iowa. He received his B.S. degree in mechanical engineering from Iowa State College and during World War II served in the Navy air corps.

As manager of the Montana division of the Layne Company, he played a major role in construction of wells and water treating for Anaconda Copper in Montana and the

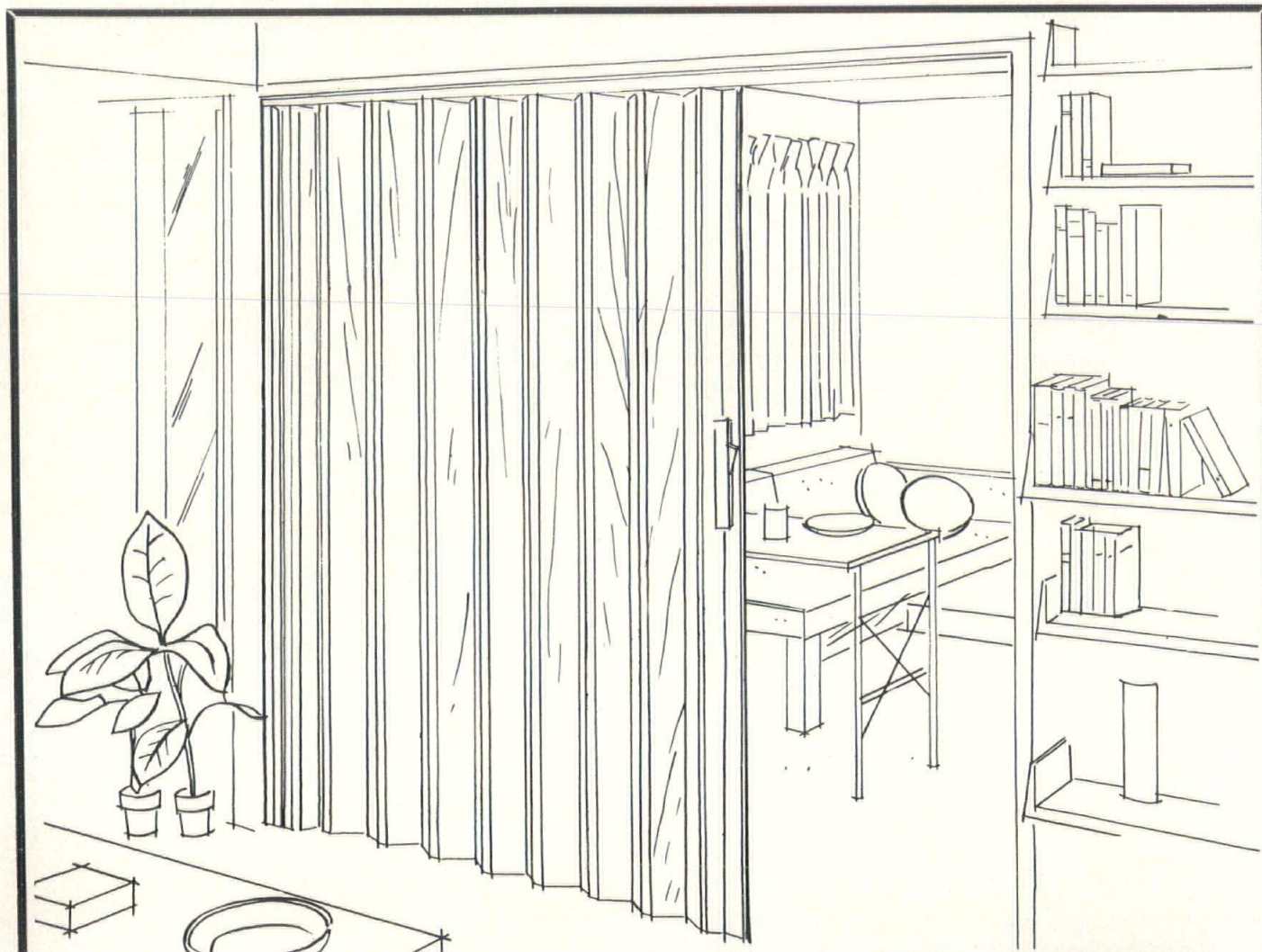
Garrison Dam in North Dakota. He was transferred to Minnesota headquarters in April, 1955.

## FORM FOOD SERVICE EQUIPMENT ASSOCIATION

A group of Twin City dealers and a St. Cloud supply company recently formed a food service equipment trade association with headquarters in St. Paul. Committees have been organized and will periodically meet to solve various mutual problems and to further promote higher business standards among participating members.

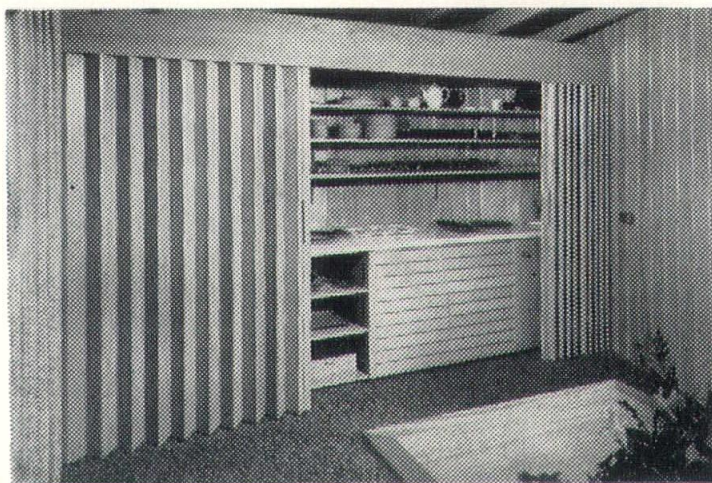
D. E. Claesgens of Joesting & Schilling Co., was chosen as the association's first president. Walter Randt of Aslesen Co., vice-president and treasurer, and Marshall E. Sherman of Oken's, Inc., secretary.



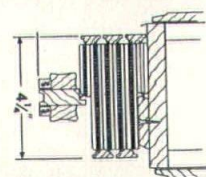


## Wood Folding Doors now "Whisper Quiet"

Pella . . . Makers of the Folding Door that combines the natural beauty of wood with the convenience of a folding door now offers you new advantages. The  $\frac{3}{8}$ "x $3\frac{5}{8}$ " laminated panels fold flat to decrease the stacking dimension. Nylon Rollers eliminate any metal to metal contact and contribute to quiet, trouble free operation. Separate spring-hinges allow the door to remain open in any position. See all of these features in the Pella Door for 1956 on display in our show rooms.



New stacking dimension for 30" door— $\frac{5}{8}$ "



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# Chapter, Club and other news . . .

## BOARD ENDORSES GROUP INSURANCE PLAN

At its April meeting the board of directors of the Minnesota Society of Architects endorsed the group sickness and accident loss of income insurance plan underwritten by the Washington National Insurance Company of Evanston, Illinois, according to Executive Secretary Ralph Keyes.

The group insurance plan, similar to the plan now in force with several professional societies in this area, features an individual non-cancellable contract providing lifetime accident benefits and five-year sickness benefits. The board of directors endorsed the submission of the plan to the members after giving it careful study.

If the plan were adopted, representatives of the insuring company, one of the four leading companies in the field of health and accident insurance, would contact each member of the society. The member could sub-

scribe for any amount of insurance he desired under the plan. It would be necessary, however, that 25 per cent of the membership subscribe to the policy to make the group benefits available.

The plan is not in competition with the one sponsored by the American Institute of Architects but is supplemental to that plan and has a wider possibility of coverage among all members of the Minnesota Society of Architects, it was pointed out. The proposed plan has been adopted by the Oklahoma, Nebraska, Iowa and California chapters of the AIA.

The Washington National Company will have a display in the Nicollet Hotel during the convention with a qualified representative present to answer any inquiries regarding the group plan or individual coverage.

## SOCIETY MEMBERS ATTEND AIA CONVENTION IN LOS ANGELES

A large delegation of architects from Minnesota attended the annual AIA convention, May 15 through 18, in Los Angeles. Arthur C. Lucas, treasurer of the Minnesota Society of Architects, was the delegate representing the society. Delegates from the St. Paul Chapter included Donald Haarstick, Louis R. Lundgren, Rob-

## Minnesota Convention Exhibitors

Aslesen Company  
Anchor Block Company  
Northern States Power Company  
Farnham Stationery and School Supply Company  
Cold Spring Granite Company  
Western Mineral Products Co.  
Pittsburgh Plate Glass Co.  
Haldeman-Homme, Inc.  
Northwest Terrazzo Association  
Insulation Engineers, Inc.  
Kesko Products, Inc.  
Rollin B. Child  
Mankato Stone  
Designware Industries, Inc.  
Oscar Roberts Co., Inc.  
T. W. Sommer Sales Company  
DuKane Corporation  
W. E. Neal Slate Co.  
North Central Supply Co.  
Gopher Stone & Brick Co.  
and Knoxville Building Stone Co., Inc.  
General Electric Supply Company  
Mason City Brick and Tile Company

Roddiscraft Plywood Corporation  
St. Paul Book and Stationery Company  
Minnesota Lathing & Plastering  
Public Relations Bureau  
Gardner Hardware  
Molin Concrete Products Company  
Warner Hardware Company  
Entrances, Inc.  
Twin City Brick Company  
G. M. Stewart Lumber Company  
Minnesota Perlite Corporation  
Inland Steel Products  
Pella Products  
Dox Block System  
Hunter Douglas Aluminum Corporation  
Producers' Council, Inc.  
Steel Structures, Inc.  
Theo. Johnson Carpet Company  
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Cook Paint and Varnish Company  
Flour City Ornamental Iron Company  
Physicians and Hospitals Supply Co.  
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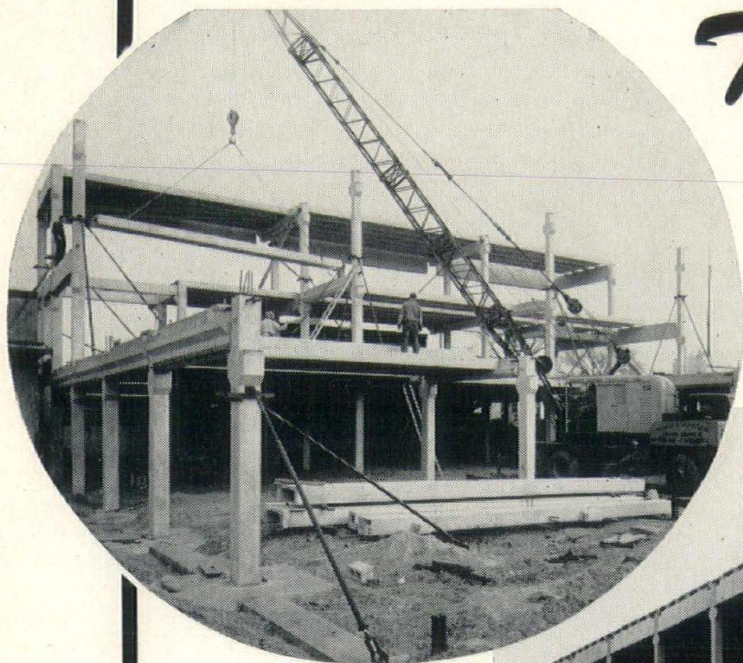
# SAVES

## *Time & Money*

for

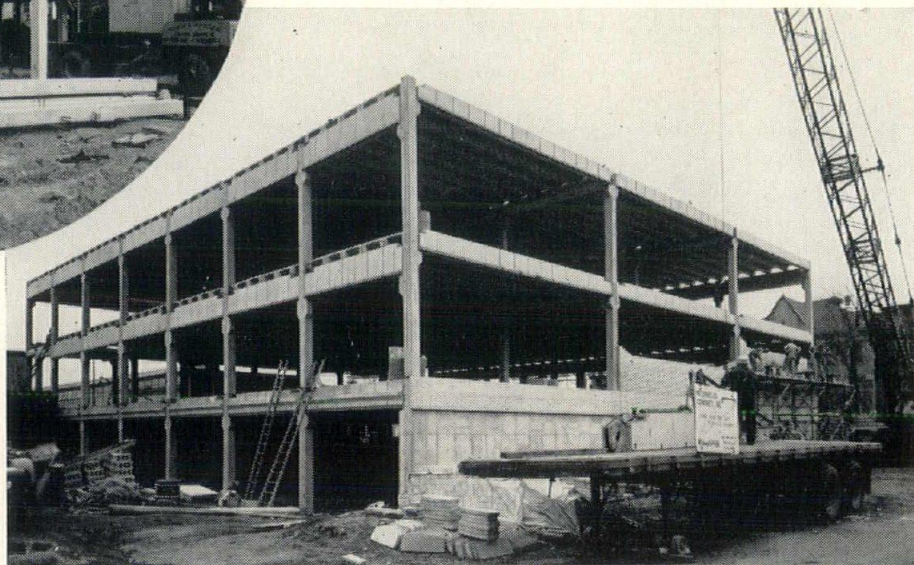
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St. Louis Park, Minnesota



Magney, Tusler & Setter

Architects & Engineers



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- Columns

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ert E. Howe, George Townsend, Edwin Lundie and James Voight.

The delegation from the Minneapolis Chapter, headed by the chapter president, R. V. McCann, included Gordon A. Schlichting, Kenneth Backstrom, Harley H. Johnson, Stowell D. Leach, John L. Lindstrom, Raymond T. Hermanson, John Magney and Oscar Lang.

A. Reinhold Melander, Frank Jackson and Thomas Ellerbe, architect members of the Minnesota Board of Registration for architects, engineers, and land surveyors, attended the meeting of the National Council of Architectural Registration Boards which immediately preceded the AIA convention in Los Angeles.

### **SKOLD BECOMES ARMSTRONG AND SCHLICHTING ASSOCIATE**

Kenneth L. Skold has been made an associate of the Minneapolis firm of Armstrong and Schlichting, Inc.,



**Mr. Skold**

according to Messrs. Armstrong and Schlichting. Mr. Skold has been with the firm since 1955.

He will have active charge of many of the firm's projects which consist largely of institutional work, including schools, churches, and hospitals. He is a graduate of the University of Minnesota School of Architecture and received his architectural training in Minneapolis architectural offices. He is married, the father of three sons and lives at 4228 Oakdrive Lane, Hopkins, Minnesota.

### **SOVIK AND MATHRE REORGANIZE NORTHFIELD FIRM**

Sovik, Mathre & Associates is the name of a newly organized firm of architects in Northfield, Minn., which grew out of the former firm of E. A. Sovik and Associates. Principals in the new firm are Edward A. Sovik and Sewell J. Mathre.

### **MALEITZKE JOINS FASTH, HILLSTROM & HORTY**

E. A. Maleitzke has joined the St. Paul firm of Fasth, Hillstrom & Horty, Inc., as an associate. Mr. Maleitzke's new position was effective the first of April.

### **McENARY AND KRAFFT WIN CHURCH AWARD**

An honorable mention was recently awarded to McEnary and Krafft, Minneapolis architects, whose work is featured in this issue of NORTHWEST ARCHITECT, for major additions or alterations to church buildings by the Church Architectural Guild of America, a national organization.

The guild cited the alteration work done to the First Methodist Church and the Wesley Foundation Building in Minneapolis. The church and the foundation are adjoining buildings near the University of Minnesota campus. The First Methodist Church serves one of the oldest Methodist congregations in Minneapolis and the Wesley Foundation ministers to Methodist youths attending the university.

The award was made in April during the Guild's annual convention in Atlanta. The convention featured an exhibit of church work with examples from all over the country.

### **PROFESSION LOSES LEADER IN DEATH OF LOREN ABBETT**

One of the outstanding younger members of the architectural profession was lost recently in the death of Loren Abbett on April 26. Mr. Abbett was the current treasurer of the Minneapolis AIA Chapter and an active member of the Minnesota Society of Architects, serving on the AIA-AGC Joint Co-operative Committee.

Mr. Abbett was engaged in the practice of architecture in Minneapolis for the last 13 years, operating his own architectural office since 1950. He formed a partnership with David Griswold in April, 1956, and changed the name of the firm to Abbett and Griswold. Mr. Griswold will continue the business of the firm.

Born and reared in Duluth, Mr. Abbett attended the University of Minnesota School of Architecture, where he was a member of Alpha Rho Chi, professional architectural fraternity. After his graduation he worked for architectural firms in Minneapolis, Des Moines, Iowa, and Seattle, Washington. He did a considerable amount of industrial building design work including warehouses, factories and dock work at the port of embarkation of Prince Rupert, British Columbia.

In 1943 Mr. Abbett returned to Minneapolis and was employed as an associate by Magney, Tusler and Setter until he established his own office. He has done work in the Pacific Northwest and Canada from his Minneapolis location. Among his architectural projects in the Twin Cities are the warehouses for Marshall-Wells in St. Paul, a wholesale hardware firm and the May Brothers warehouses. He also designed the Lake Harriet Methodist Church and the Minneapolis Memorial Blood Bank Building. A food processing plant and a Minnesota Highway Department building in Golden Valley are in the planning stage at his firm.

Besides his wife, the former Bernice La Liberte of Duluth, Mr. Abbett is survived by three sons.

Death of Mr. Abbett did not effect a delay of projects currently under the supervision and design of Abbett and Griswold according to Mr. Griswold, surviving partner, who said the office would continue to function

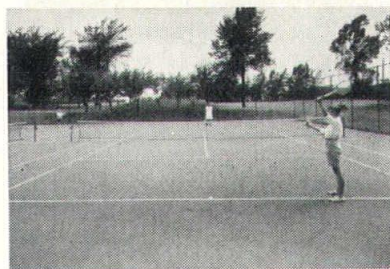




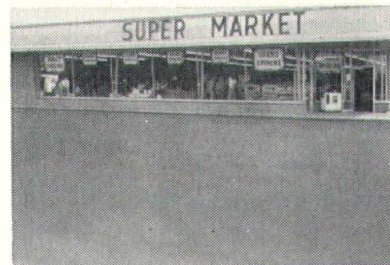
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NORTHWEST



under the terms of the partnership and the present staff of eight will remain intact.

### SMILEY & ASSOCIATES MOVE

S. C. Smiley & Associates, Architects, have moved their offices into the North American Life & Casualty Building in Minneapolis, it has been announced by Mr. Smiley.

The move was necessitated by a need for enlarged quarters as well as parking facilities for clients and employees. The new office doubles previous space, is air conditioned and provides many added conveniences. They can now comfortably accommodate the design and drafting personnel necessary to handle their work load, Mr. Smiley said.

Current projects under construction or in various stages of design consist of churches, office buildings, schools, warehouses, hospitals, clinics, industrial centers and shopping centers in Minnesota, North Dakota, Kansas, Texas, Wisconsin, Pennsylvania, Illinois, Michigan and Canada.

### E. S. NELSON DIES

Edward S. Nelson, a former partner of C. H. Johnston in the St. Paul firm of architects and engineers, died in his home in St. Paul early in April. He was 70 years of age at the time of his death.

Mr. Nelson had retired from active practice in 1952. He first became associated with the Johnston firm in 1909 and was instrumental in the design of many buildings at the university and elsewhere in the area.

A University of Minnesota graduate, Mr. Nelson was a member of the Gargoyle Club in St. Paul, the American Society of Civil Engineers and the Engineers Society of St. Paul.

### BJORKLUND NAMED WESTERN MINERAL AD MANAGER

Truman A. Bjorklund has been named advertising manager of Western Mineral Products Co., Minneapolis vermiculite processors, according to an announcement by Vice-president Harvey W. Steiff.



Mr. Bjorklund

ARCHITECT

After graduating in business administration from the University of Minnesota in 1948, Mr. Bjorklund was advertising manager of Farmers Union Central Exchange in South St. Paul, and served two years in Korea when recalled to military service. He is also a veteran of World War II.

For the past four years he was director of production for Empire Photosound of Minneapolis and had charge of a number of color-sound films recently completed for Western Mineral and the vermiculite industry. Mr. Bjorklund is married, has two daughters, and makes his home in Minneapolis.

### FILM "ARCHITECTURE, U.S.A." IS POPULAR

The educational film produced under the direction of the Public Relations Committee of the AIA is proving to be very popular with audiences of all kinds, according to Ralph Keyes, executive director of the Minnesota Society of Architects.

More than forty audiences have seen the film since its purchase last February. It was particularly applauded by students in the art education classes at the University of Minnesota and at several company sales meetings where the film was shown to building material salesmen.

The film will be shown at frequent intervals during the society's convention on June 7 and 8.

Anyone who wishes to show the film may borrow it without charge by contacting Ralph Keyes, 3416 University Avenue, S.E., Minneapolis.

### SEVERUD SPEAKS TO MINNEAPOLIS CHAPTER

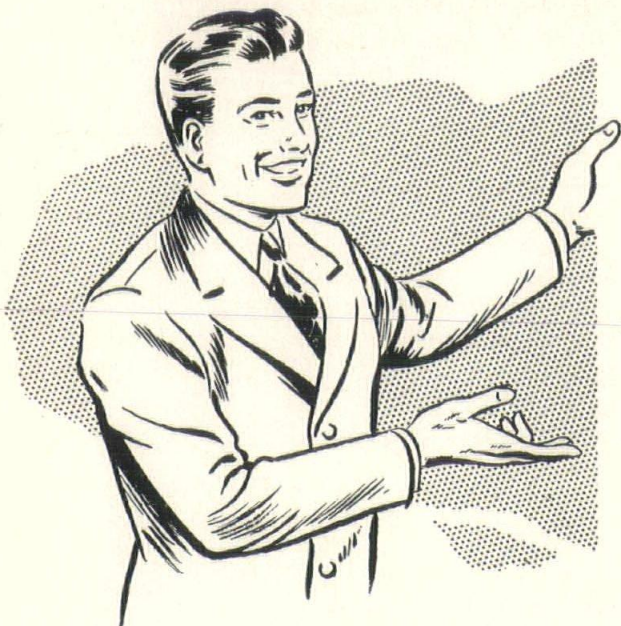
Fred N. Severud, world renowned structural engineer, told the members of the Minneapolis Chapter, AIA, about several of his hanging roof projects at their April meeting. Severud spoke of construction problems he had encountered in the design and plan of the structural aspects of some of the most prominent buildings in modern architecture.

Among the buildings he discussed were the thin-shelled dome auditorium at the Massachusetts Institute of Technology, on which he worked with architect Eero Saarinen; the Rawleigh pavilion, which was done in collaboration with architect Matthew Nowicky; the Berlin Freedom Hall on which Hugh Stubbins is the architect; the Zechendorf spiral apartments with architect I. M. Pei; and the new Philadelphia municipal stadium.

Mr. Severud was born in Bergen, Norway, and received his technical training at the National Institute of Technology in Trondheim. He came to the United States in 1923. At the present time he is the senior partner in the firm of Severud, Elstad and Kruger. In addition to his general engineering practice, Mr. Severud has served as consultant or technical adviser to the governments of Puerto Rico, India and Norway.

The vivacity of Mr. Severud's personality sparked his 40-minute talk to the Minneapolis architects, who listened with enjoyment. He mentioned that he is a self-taught musician and has played in the violin section of the symphony orchestra of Trondheim.





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## AGC SUPPORTS MODULAR MEASURE

The campaign for the general use of modular measure in building took an important step forward with the announcement recently that the Associated General Contractors of America now officially sponsors this simplified dimensioning method. In an announcement through the Modular Co-ordination Office of the American Institute of Architects the enthusiastic acceptance of modular measure by practical construction men was emphasized by spokesmen for the sponsors—AGC, AIA, National Association of Home Builders and The Producers' Council.

"The Associated General Contractors of America is in a better position to further the more widespread use of modular measure in the design of structures and the manufacture of building materials now that it has accepted the invitation of the American Standards Association to become one of the official sponsors of the ASA modular measure project," stated AGC Executive Director James D. Marshall. "The AGC for several years has been actively supporting the project. The association will work vigorously for the extension of this method which helps to reduce building costs."

AIA President George B. Cummings commented that "the use of modular measure, promoted by the American Institute of Architects since 1939, has now been backed by the men in the field, the contractors who are actually concerned with building from drawings produced under this system. This is another example of the growing co-operation between the components of the construction industry."

In addition to the four sponsors, modular measure has the endorsement of many leading building-industry organizations including the Mason Contractors Association of America, the Bricklayers, Masons & Plasterers International Union, the Building Research Institute of the National Academy of Sciences, the Association of Collegiate Schools of Architecture and the Chamber of Commerce of the U. S.

## NEW MODULAR MEASURE GROUP FORMED

A new phase in the building industry's conversion to modular dimensioning was launched with the announcement May 14 in Los Angeles of plans for a Modular Building Council by William Gillett, president of The Producers' Council, at the council spring luncheon held in conjunction with the American Institute of Architects' convention.

The Modular Building Council will make it possible for individuals who are enthusiastic about the improved system of dimensioning to take an active part in its promotion, Gillett said. He predicted that individual memberships will encourage architects, contractors and other people in building to join the manufacturers and associations now engaged in the growing effort to speed industry-wide adoption of modular measure, based upon the American Standard 4-inch Module.

The other announced purpose of the council will be to broaden the financial support of the present program by inviting small, as well as large, subscriptions to this work. It is expected that the additional funds obtained will make possible establishment of a technical staff to

work with the American Standards Association in further developing modular measure and extending its applications.

## AUSTIN OF CROWN AND OLSON OF OLSON MFG. NAMED NATIONAL METAL DIRECTORS

Frank A. Austin of Crown Iron Works, Minneapolis, and S. M. Olson of the C. W. Olson Mfg. Co., Minne-



Mr. Austin



Mr. Olson

apolis, were elected directors of the National Association of Architectural Metal Manufacturers during the group's 18th annual convention in Belleair, Florida, recently. Both men are well known in this area's building circles.

The association elected L. F. Fontana of the Irving Subway Grating Co., Long Island City, N. Y., as its 1956 president.

## PAULET WILL HANDLE LABOR PROBLEMS FOR AGC MINNESOTA

Harry E. Paulet has been named to the staff of the Associated General Contractors of Minnesota as an administrative assistant and will be principally concerned with construction labor relations, according to a recent announcement from AGC headquarters. Mr. Paulet was formerly with Mutual Service Insurance Company.

A graduate of the St. Paul College of Law, he was admitted to the state bar in 1953. Married and the father of three children, he resides in St. Paul. He is a captain in the army reserve with special work in military government.





## Producers' Council Caravan "Pitched Tents" In Minneapolis

Displaying the latest material and equipment developments of members of the Producers' Council, the PC Caravan camped in the Calhoun Beach Club for the benefit of Northwest architects and others in the building industry during April. Some 50 booths showed the products of as many manufacturers and associations.

The caravan was sponsored here by the Minn-Dak Chapter of the Producers' Council. Arrangements were made under the direction of chapter President Joe Jester, with the arrangements committee made up of Ray Bush, Curt Johnson, Jim Coulter, Carl Fogelberg, Jack Hustad and Larry Reak.


The exhibits, second in an annual series, visited 38 cities during their tour. They are packed into a huge van which acts as their packing crate and no other packing is necessary. A special maintenance man travels with the exhibits and keeps them in top demonstration condition.

While the caravan was in Minneapolis our staff photographer snapped the pictures shown here and on a following page. On the page opposite are shown, left to right, in the numbered photographs:

1—President Joe Jester of Minn-Dak Producers' Council and Jim Coulter of Granco. . . . 2—The PC Caravan's local committee of Ray Bush of Westinghouse, Curt Johnson of Pella Products, Jim Coulter of Granco, Joe Jester of Minneapolis Honeywell, Carl Fogelberg of Reynolds Aluminum, Jack Hustad of Sanymetal Products and Larry Reak of Natco Corp'n. . . . 3—Loren Abbett and Clair Armstrong, architects, Bob Henderschott of AGC and Sid Stolte, architect. . . . 4—Orrin Field, Ben Pollack, George Gohlke, Ralph Keyes, Gerald Buetow (in back), Andy Michels, Clint Watson and John Baker. . . . 5—Ted Stolte of Thorshov & Cerny, H. J. MacPherson of Levelor and Tom Kimetch of Warren Venetian Blinds. . . . 6—Gordon Matson of Magney, Tusler & Setter, J. E. Neviller of Structural Clay Products and R. A. Wilson of Ellerbe & Co. . . . 7—Ken Peterson of Kerr Associates and Gene Flynn, St. Paul city architect. . . .

8—John Rauma, Shel Anonsen of Thorshov & Cerny and Bert Powers of Pittsburgh Plate Class. . . . 9—Earl Bartholome, Bob Nahin of New Castle Products, Harold Flowers and George Mastney of W. H. Fridlund Co. . . . 10—Fred Bentz, Cec Tammen, Bob Feltault, Mac Matsumoto and C. L. Wetzler with J. E. Neville of Structural Clay Products. . . . 11—Larry Ward of Hufcor and J. K. Daniels, sculptor. . . . 12—John Cowan of B. F. Goodrich Co., and Al Larson of Larson & McLaren. . . . 13—Jim Coulter, W. J. Lundstrom of Dunwoody Institute and R. A. Alm of First Service Corp'n. . . . 14—Jack Loveless, Charles Wahlberg and Clayt Fitzpatrick of Kentile. . . .

15—Loren Abbett, Architect, and John Barr of American Standard. . . . 16—Vern Larson of Kimble Glass, John Whitlock of N. P. Ry., Jack Hustad, A. A. Melius of N. P. and Gene Ammerman of C. L. Ammerman Co. . . . 17—W. A. Jacus, Tom Roche of MACE, Minneapolis, and Royce Hansen of Toltz, King & Day. . . . 18—Charles Magney of Magney, Tusler & Setter and Paul Liebelt, architect. . . .



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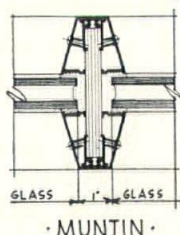
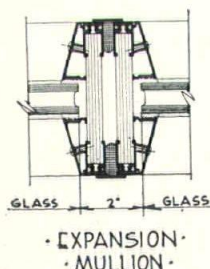
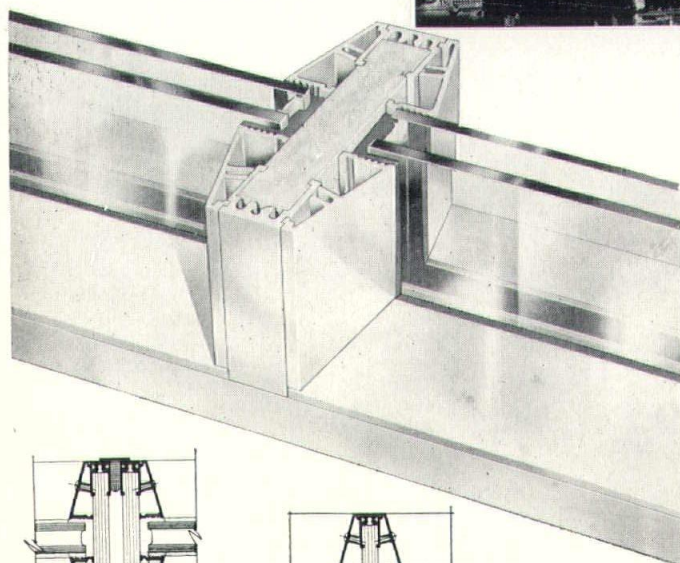
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# More Caravansers . . .



More of the groups at the caravan are shown here. . . . 1—R. L. Michaud, Sher Cooley, Jack Hansen and Fred Stockberger. . . . 2—A. W. Sittig of Levolor-Lorenzen, Tom Kimetch and H. J. MacPherson. . . . 3—Jack Olson of Armstrong Cork and Mr. and Mrs. R. L. Bliss, architects. . . . 4—John Healy of Gardner Hardware, Sax Benson of U. S. Plywood and Sid Stolte, architect. . . . 5—Joe Hartman, Ken Gerber of Brandhorst & Leadholm and Ray Bush of Westinghouse. . . . 6—Red Homuth of Zonolite, Bob McLeod of MacArthur Co. and Jim Coulter. . . .

7—Harold Westen of Bergsted & Hirsch, E. B. Sterrett of Armstrong Cork and Bill Miller of Thorshov & Cerny. . . . 8—Vic Peter of *St. Paul Dispatch*, Mrs. Peter, Florence Glindmier and Carl Buetow, architects. . . . 9—Larry Reak and Hal DeLay of Bartley Sales Co. . . . 10—Bob McLeod, R. G. Hauenstein of Penn Metal, and Lawrence Healy of Gardner Hardware. . . . 11—Vic Gilbertson and Clair Armstrong, architects. . . . 12—Duff Longtin of Celotex, C. L. Bell of Fenestra and Bert Flick, architect. . . .

ARCHITECT

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## Keelor Steel Shows How Metal Is Made

The making of the steel which is the backbone of so many modern buildings was shown in detail by Keelor Steel Company recently to architects and others in the construction business. The film shown was one prepared by Granite City Steel Company and those who attended were also given a cocktail hour and a smorgasbord dinner.

Granite City is Keelor's supplier and the firm also buys Corruform, Tufcor and Cofar from Granco, Granite City subsidiary. Present for the showing of the pic-

ture were those shown in the illustrations on the opposite page, identified left to right in the numbered pictures.

1—"Swede" Holm of St. Paul Structural Steel, Gerald Buetow, architect, Hal Fridlund, architect, and Jim Coulter of Keelor Steel. . . . 2—Vern Soper, Lowell Campbell and unidentified gentleman of Electric Service System. . . . 3—Bob Tjernlund and Ed Olson of Tjernlund Mfg. Co. . . . 4—Bill Keelor, Harold Cragg and Art Helde of Keelor Steel. . . . 5—Stan Partyka of Keelor, Bill Fudge of Neubauer Mfg. Co., Ralph Lott of Keelor and Lowell Campbell. . . . 6—Bob Anderson of Keelor, Bob Huett and Wally Anderson of Ceco Steel and Warren Thurson of Despatch Oven. . . .

7—Chuck Johnson, Carl Larson and Harold Carlson of Kol, Inc. . . . 8—C. R. Zimmerschild of Machine Specialties, Lloyd Johnson of Despatch Oven, and Ralph Lindholm of Ibberson Co. . . . 9—Alton Bohn and Bill Morris of Crown Iron Works. . . . 10—George Lessard of Keelor, E. F. Livingston and Al Kafstad of Kolstad Co. and Carl Dahlstrom of Central Body Co. . . . 11—Chuck Johnson, Karl Larson and Harold Carlson of Kol, Inc. . . . 12—Dale Deschane, Olie Ness, Bert Vick of D & O Does Metal Stampings, with Gene Flick of Keelor (second from left). . . . 13—Walt Larsen of Larsen Mfg., Art Bettiger of Granite City, and Len Holscher of Keelor. . . . 14—Bud Lenzmeier and Ray Kraus of General Sheet Metal, and Leonard McLaughlin of Kraus-Anderson. . . .

15—Ole Rood and Jack Hustad with Stan Beckstrom of Keelor and George Quist of Jacobson & Quist Construction Co. . . . 16—Howard Baylor and Bob Loffel of Sheehy Construction, Jerry Halseth of Keelor, Bob Nord of St. Paul Foundry and Gil Malm of St. Paul Structural Steel. . . . 17—George Townsend and Gene Flynn, architects. . . . 18—Howard Baylor of St. Paul Foundry, Bill Keelor, E. F. Marton of Lund-Marton Construction, Gerald Beutow, architect, Art Bettiger and H. Neubauer. . . . 19—Karl Leufvenius of Jari Products, George Rapp of Numac Mfg., Kenneth Vegner, Frank Vinella of Terrazzo Machine, Bill Fudge, H. Neubauer of Neubauer Mfg., and Chet Fiske of Jari. . . . 20—Roy Champlin of Main Tool, Marvin Cramer and Dale Lundgren of Ling-Belt Co., E. F. Martin, Magnus Lund of Lund Martin Co., Abraham Zimmerhagl of Goldberg Plastic Co., and Ralph Gutzmer of Main Tool.

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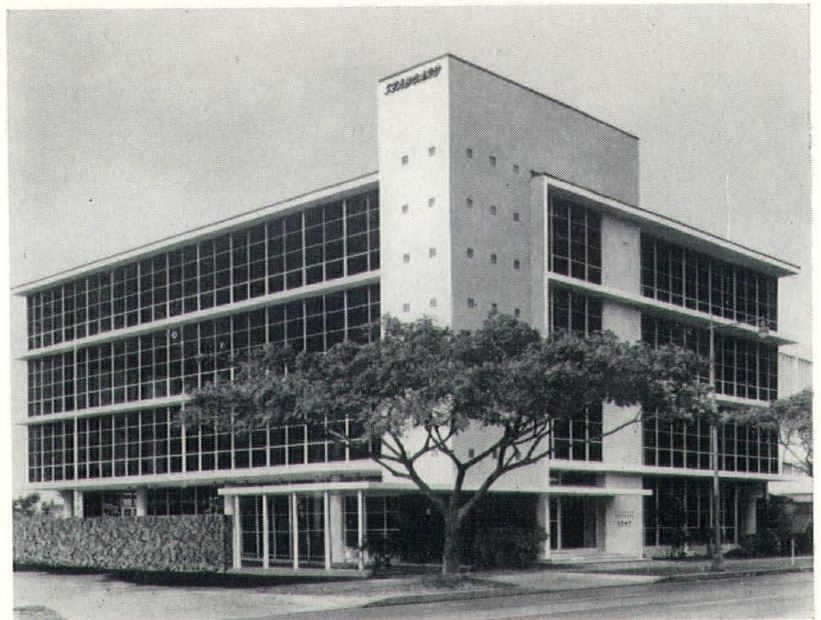
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## INSULATION SALES SENDS DISPLAYS AROUND NORTHWEST LOOP

A traveling show of leading architectural products handled by Insulation Sales Company of Minneapolis as distributor was sent to a group of Northwest cities during the past several months to give architects and their staffs first-hand information on what the company has available, according to Doug Dunsheath, president.

Nothing was sold at the show, which included a chance to check technical details of products with Insulation Sales and direct factory representatives, the aim being purely educational. Purpose was to acquaint everyone in the architects' offices with the materials shown.

The show ended its current tour in early May in St. Paul with a four-night stand after showing in Minneapolis, Duluth, Hibbing, La Crosse, Winona, Eau Claire, Rochester, Sioux Falls, Mankato, Aberdeen, Grand Forks and Fargo. The evening's events started with refreshments served while architects and staff members studied the displays and was followed by a dinner. A specially invited group attended each of the shows.

The show is to be revamped and redesigned and then will go out for another year's tour of the area, according to S. M. Hochman, who handled the tour for Insulation Sales.

Our pictures show, top down, left to right in each—Brooks Cavin, St. Paul architect, in the Modern-fold door exhibit with Phil Blood, Insulation Sales representative, Bob Mahin, district sales manager for Modernfold, and S. M. Hochman, traveling display manager—Bob Feltault of Haarstick, Lundgren & Associates, St. Paul, Louis Chaput of Johns Manville and L. R. Lundgren, J. M. Quealey and Don Haarstick, all of Haarstick, Lundgren & Associates—Bill Harper and Ken Miller of Al Plagens Company, and Howard F. Haug, Reynolds Aluminum Company acoustical specialist—Rudolph Knoll, son of the originator of Opalite, new masonry protective coating, John Dolan of Opalite, M. D. Williams and R. A. Anderson of St. Paul—P. Sprangers, Keasley & Mattison Company sales engineer, and Bob Maloney, W. Olson and Leo Freese of Toltz, King & Day, St. Paul—Greg Molitor, Bob Snow and Bob Jackels of Haarstick, Lundgren & Associates, St. Paul, with Joe Pohlman, factory representative of F. E. Schueller & Co.

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# Helpful Hints for the Architect's Inspector

By C. W. BRITZIUS

Twin City Testing & Engineering Laboratory

*This information was prepared as a guide to the architect's and/or engineer's inspector and covers materials inspection primarily. We print here because we feel it is of interest to all our readers.—Editor.*

## 1. CONCRETE:

The inspection and testing of concrete is a major item. The first step when a job starts is to obtain information on the aggregates and the concrete mixes to be used. If a preliminary testing of aggregate is required, see that a copy of the report is obtained and that the aggregates meet the specifications. If no laboratory test is required, see that the supplier, ready mix plant or the contractor provides at least general information as to pit location. The mix proportions for the various parts of the work should be known. See the latest ASTM Specification 033-52T. If a laboratory mix design is required, get a copy of the report. If not required, have the contractor supply a certified letter giving mix proportions information. Study the mix and see that it meets the specifications in regard to strength, water-cement ratio, cement content, slump and size of coarse aggregate.

When the concrete is first poured check to see that the aggregate being used is from the same source as was said to be used from the preliminary reports. See that the maximum sizes of the coarse aggregate for the different parts of the work are all right. If the aggregate appears questionable, call for a test. Also see that the mix design weights are being corrected for the moisture in the aggregate. Of primary importance is an inspection to see that the required slump is being maintained.

See the ASTM Specification C 94-55T covering ready-mix concrete which will cover other items to be considered in inspecting concrete.

Attention should be paid to the type and brand of cement being used. If laboratory inspection is required, see that the laboratory is informed. If not, require mill copies of the cars used. Look for types other than Type I, which is the standard type. Hot cement may not be bad in itself but is a warning of possible setting and strength difficulties. If air entraining cement is used to replace Type I cement the mix design should be altered by the reduction of about 100 lb./yard of sand to maintain yield and workability. Air content should be checked using an air meter.

The next inspection item concerns the taking of compression cylinders. . . . Of utmost importance is the selection of the batch from which the tests are to be taken. One should not select the wettest or the driest batch, nor one that appears to be bad unless one also takes a test from an average representative load. Take the 2 or 3 cylinders comprising a set from the same batch. Cast the cylinders in a warm place and hold them 2 or 3 days before sending them to the laboratory. The frequency of taking tests is controversial but usually is covered in the job specifications. In general the question arises as to the yardage that can be poured without taking a test. A reasonable frequency is to take a test for each new mix, or portion of the work, and on all pours over 25 yards. On large pours it is advisable to take at least one set of cylinders for each 100 yards of concrete placed.

## 2. REINFORCING STEEL:

Reinforcing steel should be inspected. Mill test results are available and should be requested. See that



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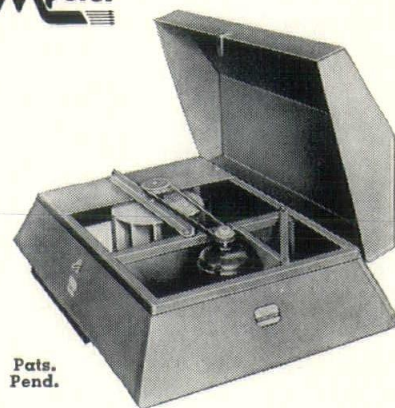


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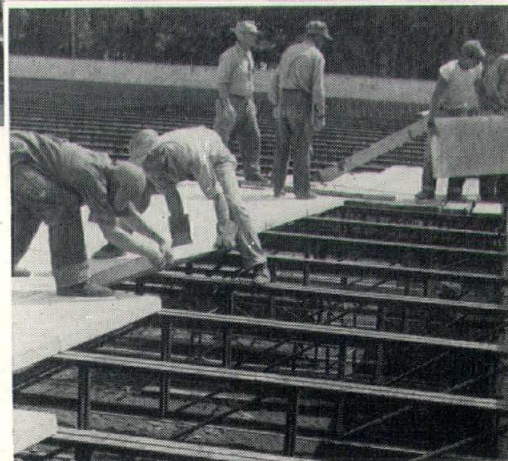
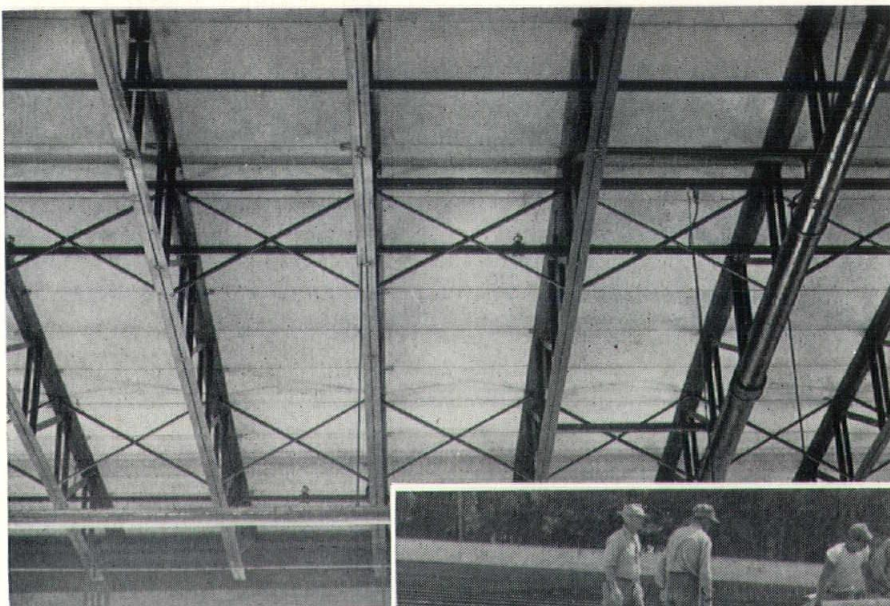
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the steel is of the grade specified, whether it be new billet, rail or rerolled axel. Excess rusting should be noted. If the new high bond A-305 deformations are specified see that the steel has them. If laboratory inspection is required see that the laboratory is notified so the inspection can be made at the fabrication plant and then see that copies of the test and shipping reports are supplied.

### 3. MASONRY MATERIALS:

Inspection of masonry materials is a must if good masonry work is to be obtained. The quality of concrete block should be checked first on the basis of a preliminary laboratory test report submitted by the manufacturer. Most producers have them. As the blocks are delivered to the job, the source should be checked and, if there is doubt as to the quality, a set of five selected at random can be taken for laboratory tests. Of importance equal to quality is the curing and moisture content of the blocks as they are laid. The extent of the curing can be judged on a strength basis but the moisture content must be determined by a laboratory test. If the laboratory is distant from the job the block may be weighed to the nearest ounce on a hardware store or similar scale, the weight recorded, and the drying accomplished in the laboratory. The field moisture content is compared with the total absorption of the block. It is this ratio that is limited to 30 or 40 per cent.

Brick and clay tile should be inspected on the basis of preliminary reports subject to test at the job, the same as concrete block.

Masonry mortar is not inspected as often as is necessary to insure good work. Mill test results covering the masonry cement, lime and Portland cement, or white Portland cement, should be required. A spot laboratory recheck taken of materials delivered to the job is often required in the specification and is recommended. The gradation of masonry sand is important and it should be inspected on the basis of a preliminary test submitted by the producer. The proportions of masonry mortar should be inspected. It is the usual practice to allow the mason to adjust the mix to obtain the proper workability. This procedure is all right if the ratio of the cementitious material to sand lies between a ratio of 1 to  $2\frac{1}{4}$  to 3. Lean mixes are weak and low in plasticity. Rich mixes result in high shrinkage and excess strength. The proportions of masonry mortar should be determined and recorded by weighing a shovel or two of sand and on the basis of 80 lbs. of dry sand being 1 cubic foot, the volumetric proportions can be calculated.

### 4. STRUCTURAL STEEL:

The structural steel of a building should also be inspected. The different types of inspection are mill, shop and field. Mill inspections cover the properties of the basic structural shapes, shop inspections are made in the shop where the steel is fabricated and field inspections are made on the job when the steel is erected. Certified analyses from the steel companies are available

ARCHITECT



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and take the place of laboratory mill inspection. Shop inspections are frequently made by a laboratory to insure satisfactory riveting, welding, milling and painting. Field inspections are usually made by the architect's or engineer's inspectors. If welded connections or high tensile bolts are being used instead of rivets the inspection is more difficult. If welding is specified the first part of the inspection is to see that certified welders are employed on the work. The certification of welders should be on the basis of a laboratory report. Thereafter the inspection is visual. Plugs can be cut from welds or X-raying may be used for better inspection. The inspection of high tensile bolted connections involves the calibration of torque wrenches and the inspection of occasional bolts by marking a tightened nut, by loosening it and then determining its previous tension by drawing it up to the same mark. The independent laboratory can help the job inspector at the start of a job or can offer full time inspection of the field erection.

#### 5. PLASTER:

The materials and proportions used in the various grades of plasters should be checked and recorded. The proportions of the sand and the various cementitious materials, unlike those of mortar, should be exactly as specified. The proportions should be checked by weighing the various ingredients making up a batch.

The rate of drying of plaster is very important and too slow or too rapid drying can cause considerable trouble. Special attention must be given to areas near heaters or near windows.

#### 6. SOIL COMPACTION:

The compaction of fill that is to carry a floor is an operation that requires inspection. One experienced in soils compaction can tell fairly well if a soil is being well compacted but it is best to judge compaction by means of tests. In its essentials the method consists of determining the in-place dry density as measured by weighing the soil taken from a hole of measured size and comparing that in place weight with that obtained when the same soil is compacted in a standard manner in a proctor mold.

The job specifications generally require that 90 to 98 per cent of the proctor density be obtained in the field. If no specific required compaction is required, the per cent compaction necessary must be judged on the type soil and the type structure the soil must support. A testing laboratory with trained soils technicians should be consulted to determine the degree of compaction obtained and to recommend the per cent compaction that should be required.

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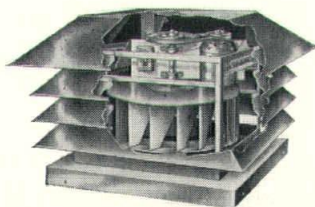
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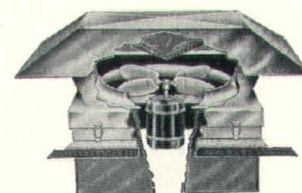
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# Training the Architect for Planning

By G. Holmes Perkins, FAIA

*Dean, College of Architecture, University of Pennsylvania*

Our program today suggests that the architect is not ipso facto a city planner. This becoming professional modesty is by no means universal for in large portions of the world the architect and planner are one. Yet in the United States we are now in broad agreement that this difficult, time oriented, and frustrating task of urban redevelopment is one for a team whose members are aware of the goal and the general means of reaching it and can each contribute some special skill to that end.

The polite deference which we as a profession have

shown the specialists has obscured the vital contribution which the architect is uniquely capable of making. Our modesty should have its limits.

Mr. Howard has already noted a number of roles open to the architect. He may serve the community as a specialist on building codes and standards; this vital service, however, requires only those skills normally expected of all architects. A second role is that of the informed layman who as a citizen shares civic responsibilities with lawyers, builders, businessmen, teachers, labor, realtors, clergymen, and engineers. In this role

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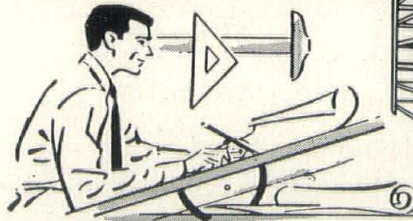
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he is both expert and amateur. The wide range of service open to him as a member of a citizens' association or as a planning or zoning commission deserves attention early in his education. For such a purpose new Wacker manuals for both the schoolbody and college student are urgently needed. The architectural student in particular would benefit from an increased awareness of the problems of city planning, of the vital contributions he can make and also of the limitations of his training. This added knowledge will help the architect become a better citizen and more actively participate in the daily task of redevelopment but will not make him a city planner.

If we agreed that the architect is not ipso facto a city planner, it clearly follows that more training and experience are needed if he is to become one. The school is not the only road through which to gain the needed skills, but by intent at least is designed to provide an environment where men through the exchange of views can most effectively learn. Graduate work in planning in spite of the multiplicity causes in the social, economic, administrative and engineering aspects of the subject is not designed to make the architect over into a social scientist, but rather to give him a core of understanding which will make his designs more serviceable, more real, and more imaginative. As a city planner, the architect becomes a generalist whose special talents are in civic design. Yet within this area also the architect is unprepared by his normal education. Nothing he has learned or experienced has prepared him to cope with the prob-

lems of urban renewal at a new and unfamiliar scale with terrifying complications which never fail to pose far-reaching questions of social justice and of public policy.

Plans without budgets, pictures without people, and family life sacrificed on the altar of aesthetics are symptomatic of a low level of imagination. It is the architect's first duty to put people back into the picture. This is not to be done through imposing the will of the planner for that only results in the city modelled on the Procrustian bed. Indeed in a democratic society dedicated to freedom of choice the role of designer is far more challenging; one answer will not do.

It is obvious that new needs breed new solutions, new wealth offers more alternatives, new inventions stimulate unprecedented forms for the city of the future. The shapes the community will take depend on public preference but without the architect's imagination the citizen will be denied his rightful freedom of choice. In competitive private enterprise these choices become multiplied with only broad limits set by the necessity to safeguard the public interest.

Many prototypes of portions of the future city are all around us today; these are now being tested by people. Tomorrow when we will need more, the competitive urge will produce even greater variety. Here is the architect's challenge and this is his primary responsibility. The greater vision needed as we tackle urban renewal must be buttressed by the knowledge and imagination to use and to create simultaneously the

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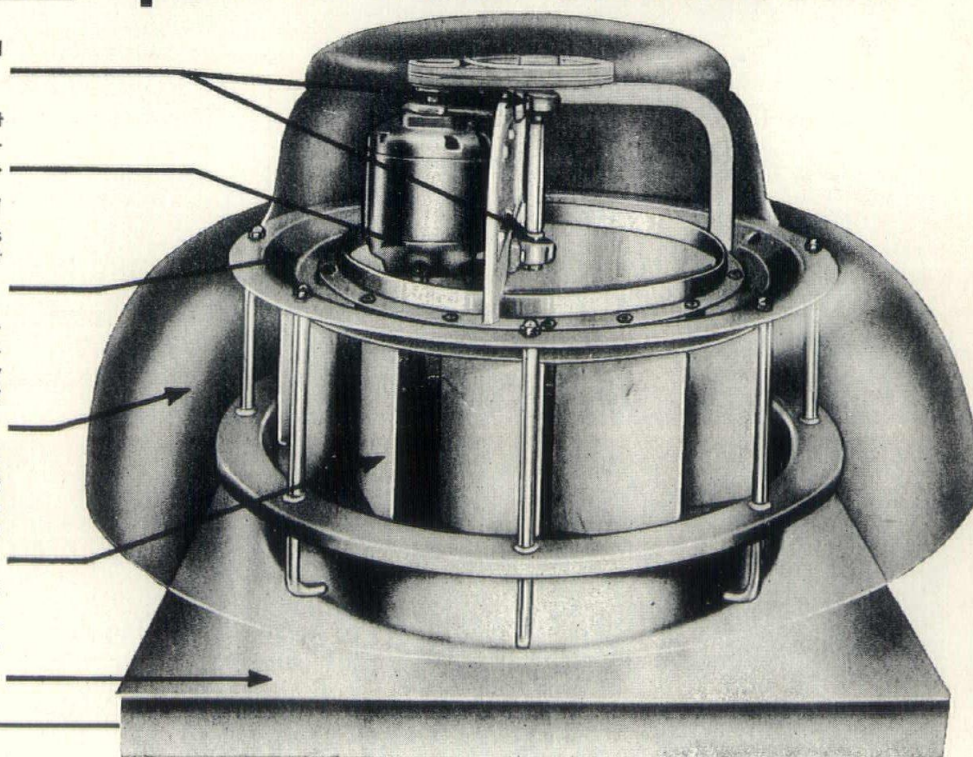
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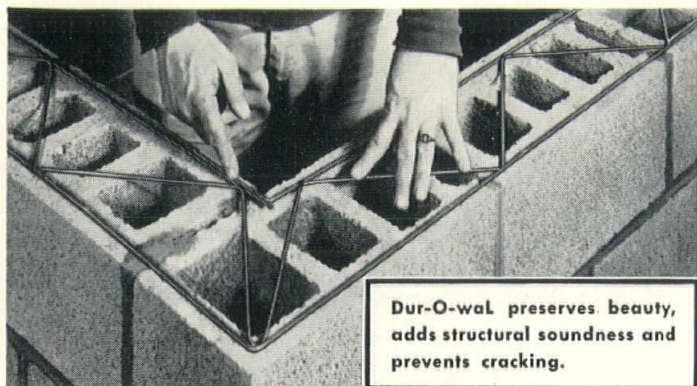
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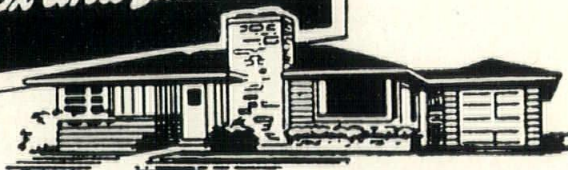
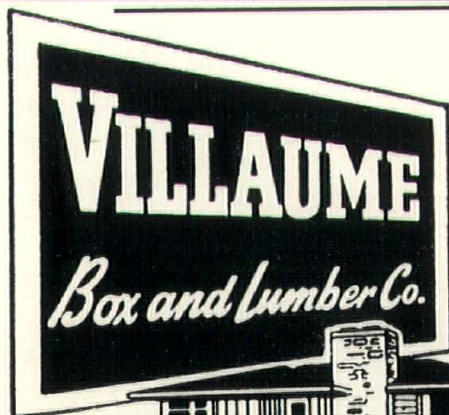
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legal, financial and administrative tools; the architect cannot shirk his share of responsibility here either.

Our basic task in the school therefore is to encourage by precept and by demonstration the development of a way of working in this new field which is built upon his previous experience as an architect, but which enlarges his breadth of social understanding, his feeling for the scale of cities and an awareness of the critical influence which the element of time and the uncertainty as to the action of future developers may have upon his design. Secondly, because his client in the future is the community he must learn to know people, to honor their skills and their intelligence and perhaps to look kindly upon their curious choices. Even though he is to become a planner he should in that field consciously remain a generalist on all matters except civic design where he must train himself to be the expert on the team. The cultivation of a special and unique expertness in civic design will allow him to stimulate the imagination of citizens through which alone freedom can be fostered in the development of the form of our future cities. The complex fabric of the city both physically, socially and economically, requires him to develop a depth of understanding far beyond that required of the normal architect. Our future cities will be the product of many visions and the composite choices of many families. But if the architects have offered good choices which offer beauty, efficiency and the opportunity for happiness, the somewhat capricious choice of citizens would only result in a variety where all men may find satisfaction. This democratic city is the future Utopia.

#### HONEYWELL NAMES RANDALL AS MINNEAPOLIS DIVISIONS ADVERTISING MANAGER

The promotion of Dean Randall to the position of advertising manager for Minneapolis-Honeywell Regulator Company's various Minneapolis divisions was announced recently by Eldon E. Fox, director of advertising and sales promotion.

Mr. Randall, who has been assistant advertising manager for the past two years, will have responsibility for advertising for the firm's residential and commercial heating and air conditioning divisions, as well as the company's aircraft, ordnance and transistor operations. He is a graduate of the University of Minnesota and has been with Honeywell since 1951.

#### WATER RETENTION STUDIED

*"Plasticity and Water Retention of Hydrated Limes for Structural Purposes,"* by Ernest M. Levin, Walter F. Clarke and Lansing S. Wells, has been issued by the National Bureau of Standards Building Materials and Structures as Report 146.

This publication reports an investigation of the plasticity and water retentivity of 65 structural hydrated limes from several production centers in widely separated sections of the country.

Masonry mortars, including portland-cement mortars, in general are difficult to work. On actual construction projects, hydrated lime is often added to improve the plasticity and water-retaining capacity of

plasters and mortars. The workability of such materials when hydrated limes are added is therefore very important to industry. Measurement of workability is complicated by the fact that, in most cases, the wet mix is applied to an absorbent base and the continuous removal of water by these bases stiffens the mix.


Studies were made to determine the relative plasticities and water retentivities of different types of commercial lime and of the relation between plasticities of lime putties and water retentivities of lime-sand mortars. These properties were considered relative to plastering and construction and the results were related to possible specification improvement.

#### SMALL VOLUME HOME BUILDERS ENCOURAGED TO USE BETTER DESIGNS

Of interest to architects because it indicates a trend toward more individuality in volume house building among the smaller operators is a design contest announced by the National Association of Home Builders and Household Magazine of Topeka, Kans.

The contest is for small volume builders, those who start 50 or fewer homes a year. Size of the house is limited to 1,200 square feet in a one-story structure or maximum living area of 1,000 square feet on main level of a two-story or split-level dwelling.

The contest is to encourage originality of design, the sponsors said. It is limited to NAHB members, to structures started or completed in 1956 and to original designs.



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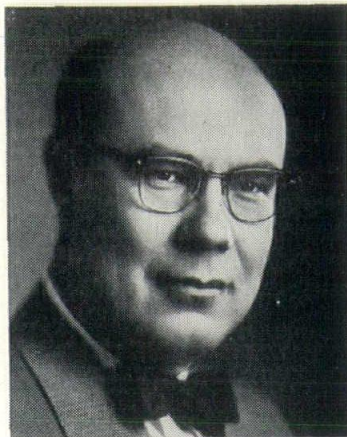
**Cross Section  
of What's  
NEW**

## STEIFF ELECTED VERMICULITE PRESIDENT

Harvey W. Steiff, vice-president of Western Mineral Products Co., Minneapolis, Minn., was elected president of Vermiculite Institute of Chicago at the group's 15th annual convention, succeeding Dayton L. Prouty of Dearborn, Mich.

J. Brooks Robinson of Great Falls, Mont., and J. A. Kelley of Travelers Rest, S. C., were named to the board of directors. W. J. Bein, vice-president of Zonolite Co., Chicago, was re-elected treasurer. Edward R. Murphy of Chicago was returned as managing director.

Some 90 members and guests attended the convention. Guest speakers included Gilbert E. Morris, superintendent of building for the City of Los Angeles; Donald R. Wadle, managing director of the Metal Lath Manufacturers Association; Dr. W. D. Pew of Mesa, Ariz.; Clifford Warren, vice-president of



**Mr. Steiff**

Black & Ryan Air-Conditioning Co. in Phoenix; and Earl F. Bennett, manager of road and building materials sales for Koppers Co., Inc., in Pittsburgh, Pa. Mr. Bennett is also chairman of the Built-up Roofing Committee of the Asphalt Roofing Industry Bureau.

A four-hour fire rating recently awarded to vermiculite acoustical

plastic machine-applied directly to the under side of a steel floor or roof deck was described as a big step forward in economical sound conditioning and fireproofing by M. G. Quayle of Chicago, Zonolite Co. engineer.

"This system shows promise of becoming one of the most outstanding ever developed," he stated. "As a concealed acoustical element, it allows the architect unlimited opportunities in design and unique lighting effects. It means more efficient and noiseless air conditioning, closer floor levels with prevailing ceiling heights, lighter steel design and lower costs for the owner."

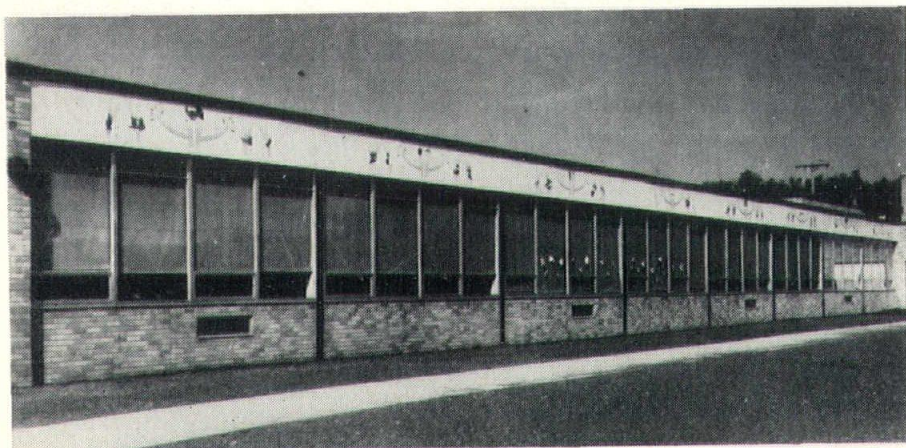
Of interest to home builders is a new, light gage steel-frame house construction with machine-applied vermiculite concrete walls, also discussed by Mr. Quayle. On-the-job data show that such walls are very economical, can be erected quickly and afford all the advantages of fire-proof construction, he said. Interior finish is machine-applied vermiculite plaster. Exterior finish may be brick veneer, stucco or metal or wood siding.

J. C. Spence, institute engineer, reported that a test program was conducted which demonstrated the adequacy of vermiculite concrete roof decks as horizontal diaphragms with a high factor of safety in resisting earthquake loads.

## PORCELAIN PANELS ADD DECORATIVE APPEAL TO NEW SCHOOL

Parents, teachers and pupils alike are pointing with pride to their new artist-decorated school in River Falls, Wisconsin, shown here. Por-

The Davidson panels in place are shown in the top picture, their application in the lower one.





celain enamel panels by Davidson Enamel Products, Inc., Lima, Ohio, make this pleasing effect possible and practical.

Renderings of the design are permanently fired into the porcelain-enamel-over-steel panels and will never fade or weather. Panels, both decorated ones and those under the canopy, are furnished in numbered sequence, in exactly specified sizes, ready to install. Architects for the school were Ellerbe & Company, St. Paul, Minnesota.

### DOX-BLOCK REPORTS INCREASING DEMAND FOR PRECASTS

An increasing demand for its precast floor system units is sighted for this year by Dox-Block System, St. Paul Park, Minn., as it reported that approximately 1,000,000 square feet of the precast units were used in Northwest construction during 1955.

"Of the 3,500,000 square feet of Dox-Block precast floor and roof slabs produced by Dox manufacturers throughout the country last year," the company reported, "close

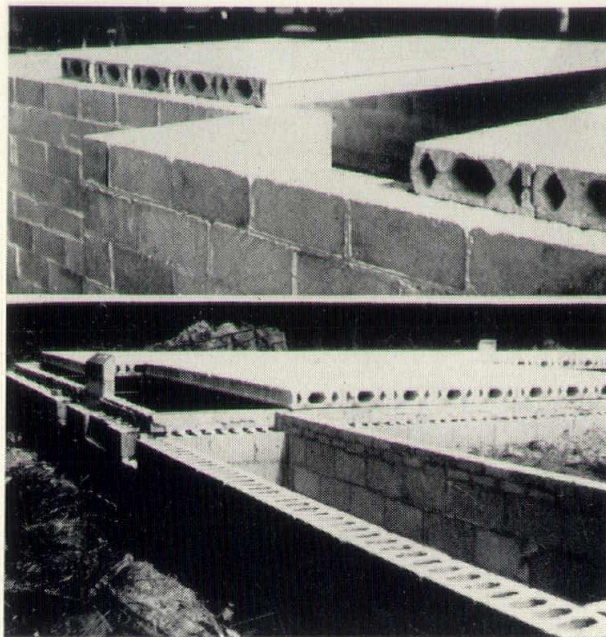
to 1,000,000 square feet went into the Minnesota-Wisconsin area out of the St. Paul Park and Milwaukee plants. That is an indication that architects and builders are becoming more and more precast conscious."

The blocks were used in every type of construction from public buildings to homes, company offi-

cials said. The company features safety from fire in its advertising and makes this also a selling point for use of the slab units in home construction.

"The use of Dox floor for the first floor (in a home) is an effective barrier against the upward spread of basement fires," a company ad said.

**Dox-Block job  
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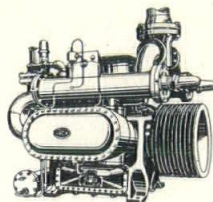
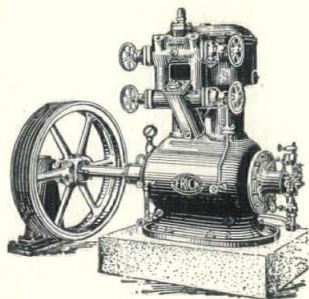
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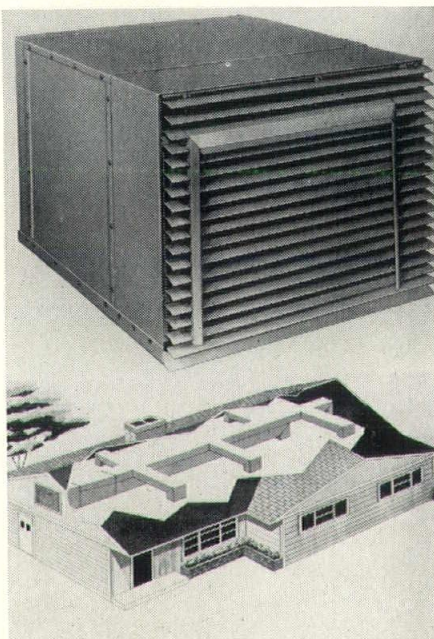
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"Its great rigidity ties the exterior walls more securely together, doing away with squeaky and sagging floors. The Dox floor also eliminates the dust catching spaces between joists. . . . Dox floors . . . lend themselves to the use of various types of heating. The heat can be passed right through the cores of the floor, which is both efficient and economical."

The company pointed out that in the big Baltimore school building program 13 schools were constructed or are being constructed with Dox system floors.

## AIRTEMP INTRODUCES NEW LOW-COST MASS MARKET HOME AIR CONDITIONING SYSTEM

Designed to retail at "less than \$750 installed," a new two-ton waterless central home air condition-



"Heart" of the system and the attic layout are shown above.

ing system was unveiled today by the Airtemp Division of Chrysler Corporation.

The new low-cost system, designated "Airtemp 1118," contains in one package everything required, including ductwork, to air condition a new or existing home up to 1100 square feet. Especially engineered for attic installation, the Airtemp 1118 includes:

Two H.P. "packaged waterless air conditioner—29½ inches wide,

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only 23½ inches high and 36 11/16 inches in depth—featuring a factory sealed refrigeration system guaranteed for five full years. When crated for shipment the compact conditioner weighs only 358 pounds.

Modern automatic thermostat which has an "on-off" switch for the system and a fan switch which permits the selection of either continuous or automatic blower operation.

Attractive outside grille for the air conditioner.

Enough fiberglass ductwork to fit the needs of most installations. Flame resistant, light, easy to handle, the pressed fiberglass foil covered sheets are shipped flat. Prescored, they need only to be folded to form box-shaped insulated ducts that will absorb noise and which will not sweat even in the warmest weather.

Five individual room diffusers. The diffusers which mount in the ceiling have adjustable louvers which direct cool air flow in any direction, permitting installation in the most accessible and desirable locations.

Nothing additional has to be purchased. Everything needed for installation is furnished at one price. Though particularly adaptable to attic installation, the system may be located in basements or crawl space and can be tied into existing warm air heating.

#### OUTSIDE HELP AVAILABLE ON SURVEY PRESENTATIONS

Deadlines, details and neatly typed survey presentations can be a problem to architects and engineers for which Workman Service of Minneapolis has come up with a solution.

Louis Cooke, vice-president of Workman Service, saw the need some years ago and has tailored a complete package for the individual needs of the architect and engineer.

"Workman employs hundreds of secretaries, typists, stenos and calculating operators, as well as general office help," he said. "These people are available for work in the architect's office or in Workman's office where a full complement of equipment can complete the reports by

reproducing them in ditto, mimeograph or offset printing.

"The service has been well received because of the saving in time and grief usually attached to the assignments when the regular office staff has to handle the work on top of their normal routine. Workman Service has had many comments on the professional look of the finished assignment. This in spite of the fact that some reports have called for running 168 stencils on a hectic deadline."

Workman Service has operated in Minneapolis for the past 10 years, with the Chicago office boasting almost thirty years of service to business firms throughout the country. *Coronet* magazine once called them the "King of Office Overloads" and the New York Museum of Science and Industry has presented Workman Service an award for its unique and substantial contribution of special service to business life.

Workman's newest service in Minneapolis is the addition of a complete IBM division. It's the only independent service of its kind available in the area, Mr. Cooke said.

## TAILORED

to fit  
your  
design



This new store front in Rochester, Minn., was designed with Light-Air aluminum marquee in mind.

THE E. J. KLAMPE CO.

Rochester  
Minn.

## LIGHT-AIR MARQUEES

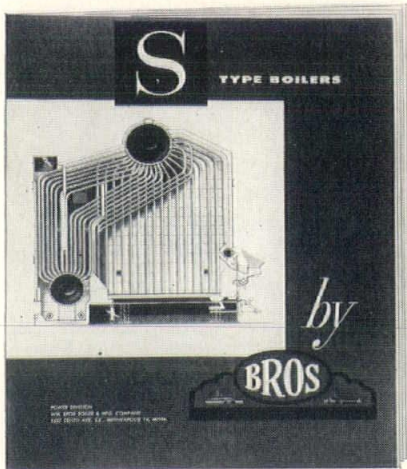
Paul A. Buck, Factory Rep.

ST. CLOUD METAL  
WINDOW CO.

St. Cloud, Minn.

Distributors-Assemblers-Erectors—Anywhere in the Northwest





## BROS ISSUES BROCHURE ON "S" STYLE BOILERS

A new and colorful 8-page brochure describing the Bros "S" series of boilers has just been published and is available free upon request.

Complete data and specifications are given on each of the models and sizes in the line, with capacities ranging from 10,800 to 50,000 pounds of steam per hour. Units can be furnished for coal or for gas or oil. A page is devoted to general design features and special Bros "S" type construction features. The

back page describes other power equipment by Bros.

For a free copy of this brochure number WT-8, write Wm. Bros Boiler & Mfg. Company, 1057 Tenth Ave. S.E., Minneapolis 14, Minnesota, or see your local Bros dealer.

## GE KITCHEN CENTER IS VERSATILE DESIGN TOOL

New features for 1956 have brought added usefulness and beauty to the "Kitchen Center," General Electric's outstanding contribution to kitchen design.

Now available for use with the basic Kitchen Center is a convenient storage cabinet equipped with built-in radio which rests on top of the sink backsplash and stretches across the full length of the Kitchen Center. Below it, a handy cord center with two convenient receptacles and two retractable plug-in cords has been provided. In addition, a waist-high oven, mounted in a special cabinet, can be placed at one end or anywhere in the kitchen.

These features are part of a carefully conceived plan to make the Kitchen Center the ideal answer to any type of kitchen-laundry design.

Basically, the Kitchen Center combines four major electrical appliances under one seamless, stainless steel countertop: combination washer-dryer, Disposall, dishwasher and range, all in 8' 6½" of floor space. A 9' 6½" Kitchen Center provides another foot of counter space and an extra base cabinet.

Internal water distribution and electrical systems provide easy installation and reduce installation costs. Only one electrical connection is needed, one drain connection and one plumbing connection each for hot and cold water.

To meet varied space and functional requirements, the Kitchen Center is available in different groupings. It can be used in kitchens of two-wall design, in L- and U-shaped kitchens or to form an island or room divider.

The full-length cabinet has sliding, textured-glass doors. An extra feature is the changed location of the Disposall. Mounted under one corner of the sink instead of the center, it provides greater usefulness



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Remember, our Engineers are always ready and available to help you with any work or problems relating to clay masonry.

## Structural Clay Products Institute

Region 6

Ames, Iowa



of the sink itself and of the storage area underneath. The Kitchen Center comes in five mix-or-match colors—Cadet Blue, Petal Pink, Woodtone Brown, Canary Yellow and Turquoise Green.

#### **KLAMPE AND ST. CLOUD METAL GET SHURTLEFF REPRESENTATION**

The E. J. Klampe Company of Rochester and the St. Cloud Metal Window Company have been named to assemble, distribute, and erect sun canopies, carports and marquees made by the Shurtleff Co., Ft. Worth, Texas, according to Paul Buck, factory representative.

The service is available in all parts of the Northwest, Mr. Buck said, from material carried in stock by the companies for immediate use. The Klampe company has awning erection No. 1 for the city of Minneapolis.

The Shurtleff Company manufactures the Eyebrow Sunshade Marquee in contemporary patterns for schools and public buildings, which is available in various colors, anodized or regular enamel paint. The cost is reported to compare favorably with that of wooden awnings.

Fargo Glass Co., Fargo, N. D., and Hauser Glass & Paint Co., Sioux Falls, S. D., also distribute the lines.

#### **MOORE'S REGAL WALL SATIN DESCRIBED**

"Benjamin Moore & Co. is ever conscious of the necessity and importance of continued research to take advantage of technological improvements in raw materials in order to keep our line of products modern, and have them represent the best paint finish material possible to produce," a company announcement of its Regal Wall Satin paint said recently.

"About two years ago a new type of paint latex was developed by one of our leading chemical companies and our laboratory immediately started experimenting with it. After many experiments and lengthy tests, we were able to overcome early

problems by proper modification of the acrylic, resulting in our new Regal Wall Satin."

Some of the important properties of Regal Wall Satin are excellent consistency in the can, low odor, excellent brushing characteristics, no special cleanup treatment needed.

Hiding of this product is excellent and its sheen is similar to flat paint. The adhesion is good and the film will adhere to properly prepared surfaces without danger of peeling, cracking, or chipping. Under normal drying conditions Regal Wall Satin recoats after one hour with-

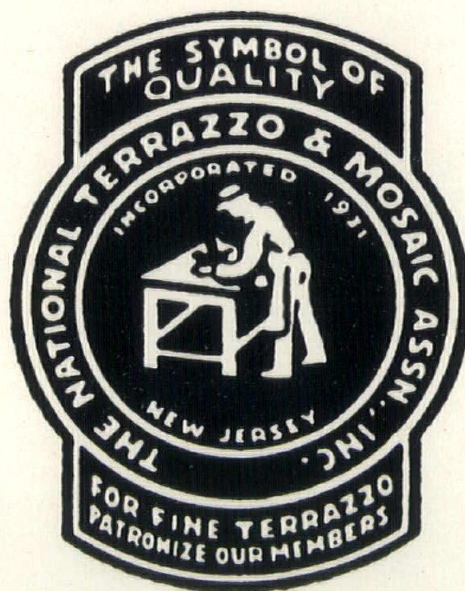
out drag, quick set-up, or softening of the first coat.

Sheen uniformity is outstanding. The first coat over extremely porous surfaces may show some sheen variation due to surface texture but the second coat produces a much more uniform film, due to much prolonged wet-edge retention which permits more uniform application. Regal Wall Satin can be washed lightly 24 hours after application, and scrubbed vigorously after a week. It will withstand running or puddled water 24 hours after application with no stain left on drying.

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*Less Cost Per Square Foot Per Year*

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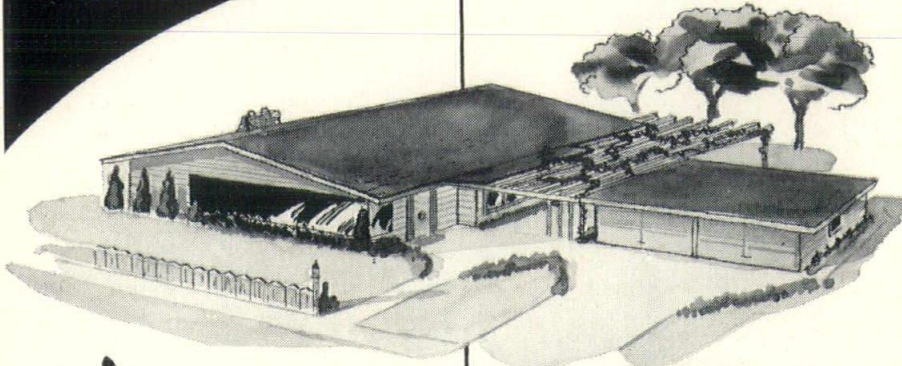
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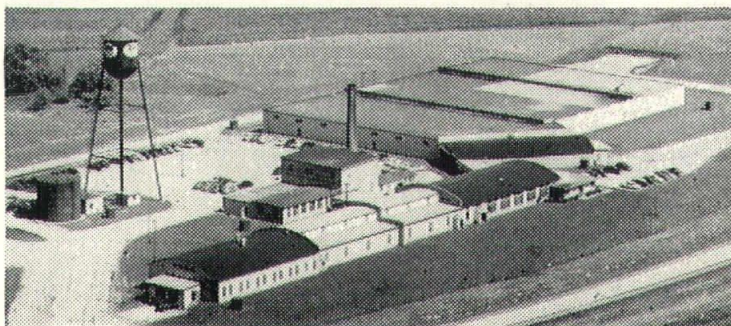


\*  Write us for free color cards showing the nation's 10 most asked for latex colors, 10 most popular exterior colors, 10 easiest to use matching alkyd colors and the 10 most talked about enamel colors. These are selected-by-homeowner favorites from the complete Minnhue Custom Color System.



**MINNESOTA PAINTS, INC.**  
Minneapolis • Atlanta  
Ft. Wayne • Dallas

## Minn. Mining & Mfg. Co. a Morse's 'One-Coat' User



Pictured is an aerial view of the Minnesota Mining & Manufacturing Co. tape plant at Hutchinson, Minn.—one of more than 20 plants located throughout the world. In addition to "SCOTCH" Brand Tapes, 3M's widely diversified products include abrasives, adhesives, roofing granules, printing accessories, ribbons and chemicals. Miller & Miller, Hutchinson, were general contractors for the plant.

The Minnesota Mining & Mfg. Co. cleaned and sealed the cement floors of its Hutchinson, Minn. plant with Morse's "One-Coat" to eliminate concrete chipping and dusting to provide a non-slippery floor surface. More than just a concrete sealer, hardener and dustproof, "One-Coat" protects against severe wear, harsh cleansing solutions and corroding chemicals . . . is an ideal neutralizer and primer for paints, tile and waxing . . . restores old blackened floors to original newness. "One-Coat" requires no mixing, no diluting, no multiple applications. Write for complete information.

**F. J. MORSE CO., INC.** Rossmor Bldg., St. Paul, Minn. CA 4-1995

Member—St. Paul and Minneapolis Builders Exchanges

### FLOUR CITY GETS AIA LITERATURE AWARD

The Flour City Ornamental Iron Company, Minneapolis, was awarded a certificate for product literature by the Producers' Council, Inc., and the American Institute of Architects. Awards were based on literature considered to be of most value to architects.

Specific literature for which Flour City received the award was a reprint of a double page ad the company sponsored in the special November Frank Lloyd Wright issue of *House Beautiful* magazine. Presentation was made at the 87th annual convention of the AIA. Advertising Agency preparing the ad was Jenkins Advertising, Inc., Minneapolis.

### ANDERSON ELECTED PRESIDENT OF INLAND SUPPLY

Harold R. Anderson was elected president and general manager of Inland Supply Company of St. Paul



**Mr. Anderson**

at the annual meeting of the board of directors of that company. Inland Supply Company is the exclusive dealer in this area for the Master Builders Company of Cleveland, Ohio, a subsidiary of the American Marietta Company.

Mr. Anderson has represented the company in Minnesota since 1941. He is a graduate of the University of Minnesota, member of the American Concrete Institute, St. Paul Engineers Society, St. Paul Builders Exchange, etc. He will continue to serve Master Builders accounts in the Minnesota area.



## AMARLITE ENTRANCES NOW STOCKED WITH BUILT-IN PANIC HARDWARE

It used to be that the installation of aluminum entrances requiring panic hardware was a "start now, finish later" proposition for the reason that the installation couldn't be completed until the panic doors, custom scheduled items, were ordered, shipped and received on the job. Those days are gone forever, says the American Art Metals Company, if your entrances come from that company, one of the largest



manufacturers in the aluminum entrance industry.

This Atlanta manufacturer now builds concealed panic hardware into its standard-sized Amarlite Aluminum Entrances, makes them immediately available from its four warehouses located in Atlanta, Dallas, Brookfield, Illinois, and Paramus, New Jersey. This precludes any delays, puts the complete entrance on the job when it's wanted. Once installed it's ready to use. Appreciable savings in time and money have already been reported by builders over the country.

All component parts of the Amarlite Entrance, including panic hardware, flush bolts and locks, are designed and manufactured exclusively in American Art Metals Company's own plants in Atlanta.

## PORCELAIN FACED PLYWOOD USEABLE INSIDE AND OUTSIDE

A new porcelain faced plywood panel, ideal for a score of both industrial and home uses, exterior and interior, is being introduced to the

ARCHITECT

new construction and modernization markets by United States Plywood Corporation. The product is called Porc-Lin-Ply.

Store and theater fronts, gas stations, column coverings, wainscoting, shelving, lining of shower stalls, kitchen and bathroom walls are samplings of the many uses to which

Porc-Lin-Ply can be adapted, its makers said.

"It is less expensive than many other materials of its kind, its low cost the result of mass production methods made possible by standardization of the panel size and colors," it was reported. "All panels come 36 by 96 inches and 5/16 of an inch

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### HAWS Deck-Type Drinking Fountains

meet the demands of your school building designs for improved water facilities inside the class room! Your choice of optional combinations of HAWS Faucets and Fixtures make these fountains adaptable to *all modern classroom needs*. Teachers and students alike, benefit from HAWS!



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Series 2000  
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Series 2300  
Model 2350

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Vandal-proof socket flanges and lugs.

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Specify the *latest* . . . HAWS DECK-TYPE DRINKING FOUNTAINS!

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FACTORY REPRESENTATIVE  
St. Paul, Minnesota

**HAWS DRINKING FAUCET CO.**



thick. The colors are standardized, nine shades being included in the line."

Porc-Lin-Ply is a sturdy sheet. Its 30 gauge, .012 inch steel "face" is treated with two coats of porcelain fused under a 1600-degree heat to achieve a hard, semi-matte finish. The core is of 1/4-inch exterior grade plywood. A metal backing gives balance to the panel which is light in weight, only 1.75 pounds to the square foot.

Porc-Lin-Ply has a natural appeal to the do-it-yourself craftsman. It is easily applied and readily worked with metal-cutting home tools.

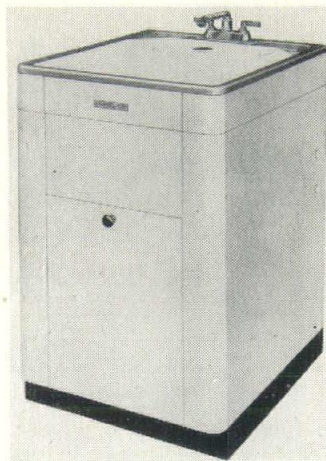
The product is said to be weather-proof, and when properly installed with moldings and caulking which can be purchased with the panel, carries a two-year guarantee. The moldings are styled for outeredge, inside and outside angles and dividers.

"Not only will the panels resist moisture but in addition are resistant to odors, ordinary acids, oil, grease, smoke and solvents. They

are easily cleaned by wiping with a damp cloth."

### CUTLER INTRODUCES NEW CABINET TUB

Cutler Metal Products Company of Camden, N. J., has introduced a new streamlined, functionally styled laundry cabinet tub that saves space, combines ideally with auto-



matic washers and dryers, replaces old-fashioned laundry trays and adds the note of modern living to the kitchen or basement laundry room.

Outstanding features include a 22-gallon white Fiberglas tub that won't chip, mar, scratch or crack, with special chrome-plated overflow tube that lets a single tub do the work of a double tub and in half the space. It has highly chrome-plated solid brass faucets and drain, handy built-in closet that stores soaps, detergents and bleaches and keeps them readily accessible for instant use and special sanitary rim to prevent overflow. Uniform height with standard washers and modern kitchen counters, with concealed leveling screws for easy adjustment to uneven floors, heavy gauge steel walls with heavily coated, white, baked, alkali-resistant enamel finish for extra protection against soaps, detergents, bleaches and mild acids and lightness for easy storage, delivery, and placement are engineered into the unit. Dimensions are 23" wide, 35 1/2" high and 25" deep.

Distribution is exclusively through leading plumbing supply wholesalers.

### RUBBER LOCKER "FLOORS" PROTECT AGAINST DAMAGE

Locker trays made of rubber have just made their appearance on the market, designed and produced by the Academy Rubber Company, 1718 Navarre Road, S.W., Canton, Ohio. The trays fit snugly in the bottoms of lockers to prevent moisture from wet garments getting into seams of the metal assembly to cause rust.

It is claimed these rubber trays greatly extend the life of lockers by cushioning the bottoms of lockers against hard impacts of shoe cleats, clubs and other heavy objects that often chip off finishing lacquer, exposing locker metal to the destructive inroads of rust and corrosion.

Academy Rubber Company is now manufacturing these locker trays in several sizes, with standard dimensions to fit various sizes of lockers. Trays are designed with a soft rubber lip which extends up the sides of the locker to make a moisture proof seal around the sides. Trays are molded in one piece of a special soft rubber compound and have a beveled front, permitting a seal when the door is closed.

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These are a few of several contractors currently using C H S on Twin City projects.

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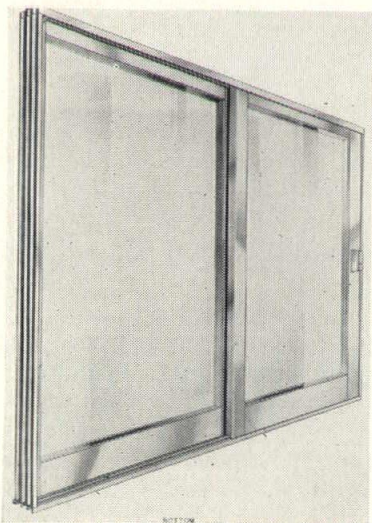


## SUN VALLEY INTRODUCES NEW ALUMINUM SLIDING GLASS DOOR

Newest addition to Sun Valley Industries, aluminum sliding glass door, sliding window and jalousie line is the all-weather Sun Valley Imperial sliding door for double glazing.

"The Imperial brings something new to the sliding door market with the innovation of a floating slide made possible through the use of Sun Valley's exclusive multiple wheel tandem rollers," the announcement said.

The all-weather Imperial has been designed especially to with-



stand the demands of any climatic condition. Constructed of rugged extruded aluminum shapes, the Imperial is fully weatherstripped with mohair pile set in continuous strips. It accommodates any standard size 1-inch double glazing.

At present the Imperial is available in two or four panel units to fit the following openings: 6 ft. 5¾ in. or 8 ft. 6 in. for two panel units and 12 ft. 10¾ in. or 16 ft. 11¾ in. for four panel units. All doors are 6 ft. 9½ in. in height.

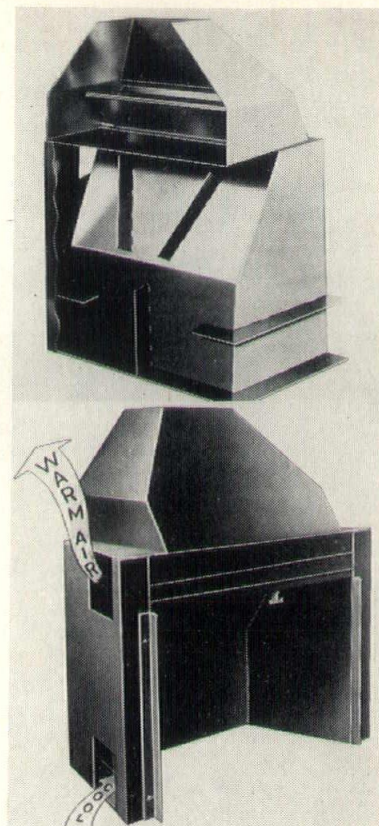
Like the Sun Valley, Sr. and Jr., the Imperial features Sun Valley's "Outward Vision" created by use of a great expanse of glass made possible by its slim and trim construction. The heavy duty, all-weather Imperial also features

manually operated flush locking hardware. The door can be easily adapted for use of cylinder locks which are available through the manufacturer at additional cost. The Imperial is shipped KD from the factory for convenient shop glazing or glazing on the construction site.

For further information write Sun Valley Industries, Inc., Dept. R2, 8354 San Fernando Road, Sun Valley, Cal.

## IMPROVED LINE OF CIRCULATING FIREPLACE UNITS

An extension, plus new design features to their line of popular circulating-type fireplace units, have just been announced by The Majestic Company, Inc., of Huntington, Indiana. To expand the scope of usage and to comply with current size preferences, new 32-inch, 36-inch and 54-inch (width of fireplace opening), units have been added,



providing a full range of sizes from 28-inch to 54-inch.

Features of improvement include

TO: All School Architects Attending Convention

Special displays of actual cross-sections of Gotham aluminum chalkboard trim, showing recommended installation details will be shown at our booth, #25

This will include snap-on and economy screw-on type, on plaster walls and on lightweight block.

Maintenance-free anodized aluminum trim is most economical on a cost-per-year basis. In fact, the screw-on trim actually costs less installed than a good hardwood trim. Custom drawings are available on this trim to meet your special needs.

Make a note to visit booth #25.

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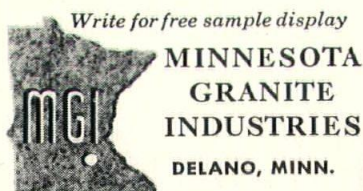
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*"The Best in Granite from the land of Hiawatha"*

a reshaping and lowering of the full smoke dome, thus permitting the unit's use in both the conventional as well as the newer lower type mantel designs. The dome is equipped with a complete, rectangular poker controlled damper. The damper blade fits snugly against a deep frame which is welded and made an integral part of the fireplace throat. The edge of the valve is formed to prevent warpage and to hold it in alignment with the frame. A new pressure-control damper arm holds valve at any degree of opening.

A series of baffles welded to the firebox, which this company has patented under the name of "Radiant Blades," has been rearranged to insure greater efficiency of air flow over the entire firebox. The air that flows through grilles located at the bottom of the unit is dispersed over all heated areas before it is expelled into the room through grilles located at the front or back (as desired) of the unit. A deep smoke apron is provided to prevent "puffs" at the top of firebox opening. A bulletin which gives full specifications is available upon request.

### AUTOMATIC EMERGENCY LIGHT WITH AUTOMATIC RECHARGE BATTERY

The completely new Sentry-Lite shown here is designed to provide instant automatic emergency light over large areas if power is interrupted for any reason. Panic, injury to personnel, possible sabotage and costly work stoppage can be

prevented before they occur.

The unit features an automatic recharger operating on standard electrical power to keep battery up to peak capacity at all times. The test panel on the front includes a momentary switch for test as to function on AC fuse, a toggle switch to cut off light to conserve power



in extended power failure and a pilot indicator light indicating unit is functioning.

The total weight is 50 pounds, including battery, which provides more than 12 hours of continuous operation. Unit is topped by two 5,000-candlepower sealed beam lamps. More lamps can be added and choice of flood or spotlights is available. Hobby and Brown Electronic Corp., 55 Front Street, Rockville Centre, N. Y., is the maker.

*Sincere best wishes for  
a successful convention*

**Cement Masons  
Local No. 560**



### MIXING VALVES REDUCE WATER HEATING COSTS

Two water mixing valves, the Detroit Number VD-203 (adjustable) and the Number VD-205, automatically control hot water temperatures

NORTHWEST



at the fixtures by mixing hot and cold water in the proper proportions, are manufactured by Detroit Controls Corporation, 5900 Trumbull Avenue, Detroit. The manufacturer says that the Detroit Water Mixing Valves will thus reduce water heating costs. It is also said to eliminate sweating of water closet tanks by replacing cold water with tempered water.

Both mixing valves contain a sealed thermostatic element that provides ample force to operate the valve under all conditions. Extremely sensitive to any temperature change, this special element keeps mixed water temperatures constant in spite of changes in supply water temperatures.

The adjustable VD-203 is available in two ranges, 70F to 130F or 120F to 160F. The non-adjustable VD-205 is factory set. Both are made of corrosion-resistant phosphor bronze, Monel metal and stainless steel.

A descriptive folder, Form 1689, is available.

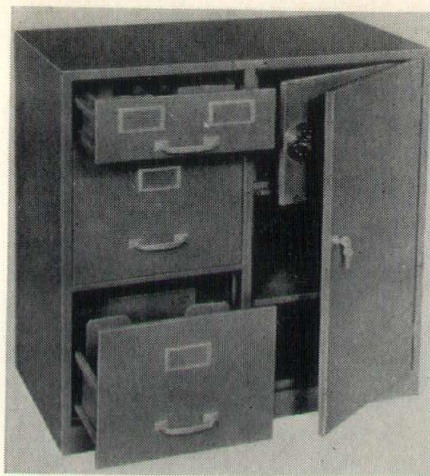
#### CABINET IS CONVENIENT FOR SMALLER PROFESSIONAL OFFICE

An all-in-one combination cabinet which has been designed to serve a great variety of filing and storage functions in the smaller professional office has been announced by Precision Equipment Co.

This cabinet features a Hidden Vault to protect valuables and to keep private papers really private. The vault is doubly protected by a combination lock and by the outside door with its built-in flat-key lock. Two letter-size file drawers each glide noiselessly on ball-bearing rollers and are fitted with spring compressor follower blocks.

A card drawer can be used for cancelled checks or for 4 x 6 or 3 x 5 cards (3,200 capacity). The convenient storage compartment, 16 3/4 H x 15 W x 16 D has an adjustable shelf and built-in lock with two keys, is perfect for stationery and other office supplies. The hidden vault is 11 H x 15 W x 14 D and is located within the storage compartment.

Overall size of the entire combi-



nation cabinet is 32 1/2 H x 30 1/2 W x 17 D. It is rigidly built of heavy-gauge furniture steel and finished in a beautiful silver-grey baked enamel.

Although the regular price of the cabinet is \$53.95, as a special introductory offer to readers of NORTHWEST ARCHITECT, Precision Equipment Co. says it will fill orders at \$39.95 F.O.B. its New York factory but the name of this magazine must be mentioned. Ask for literature or send your order to Precision Equipment Co., 3716 N. Milwaukee Ave., Chicago 41, Ill.

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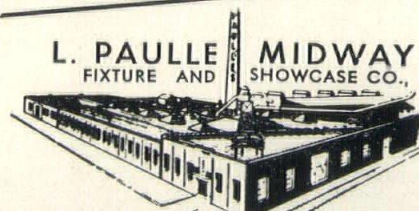
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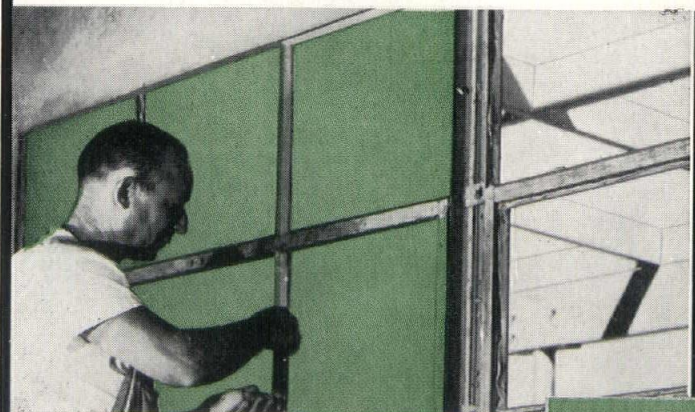
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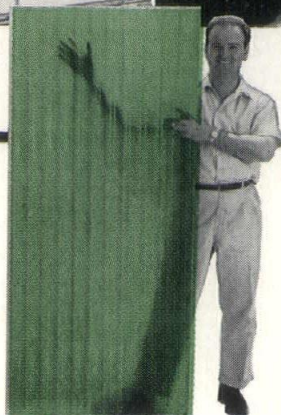
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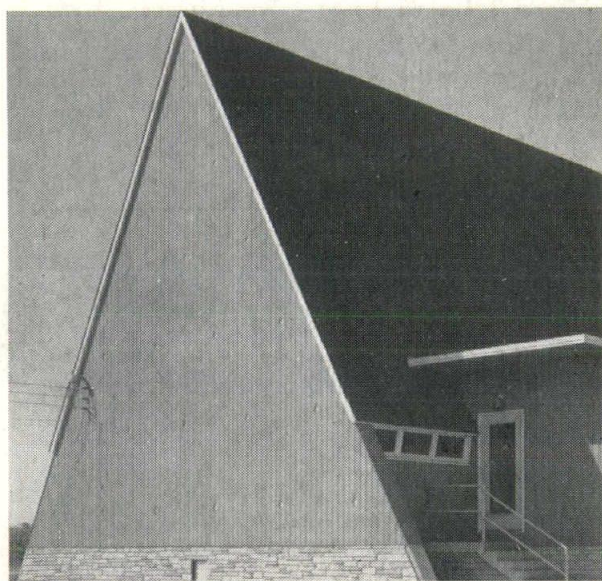


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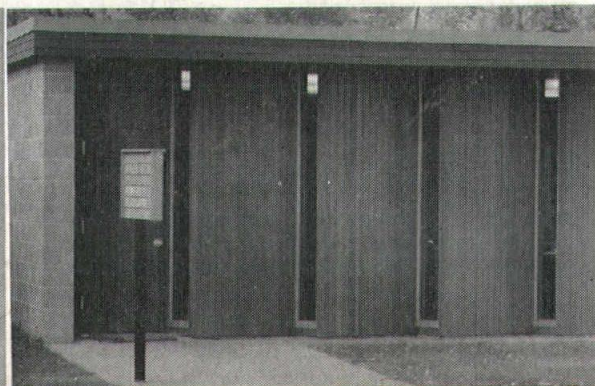
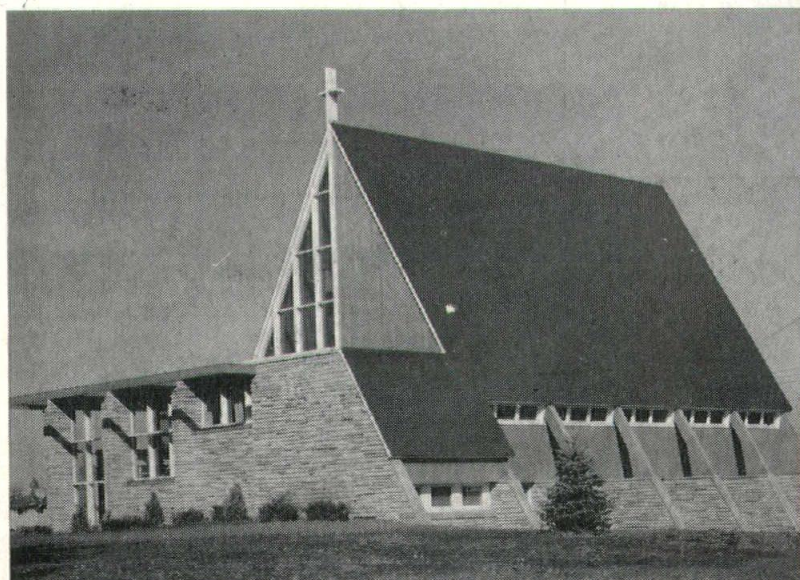
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