

NORTHWEST ARCHITECT

**November
December
1956**

•

**Volume XX
Number Six**

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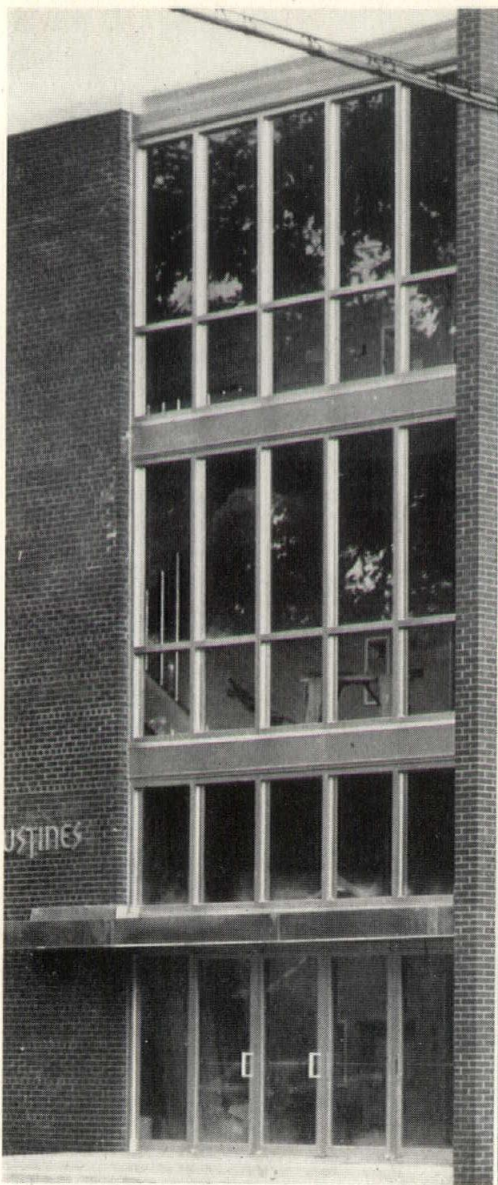
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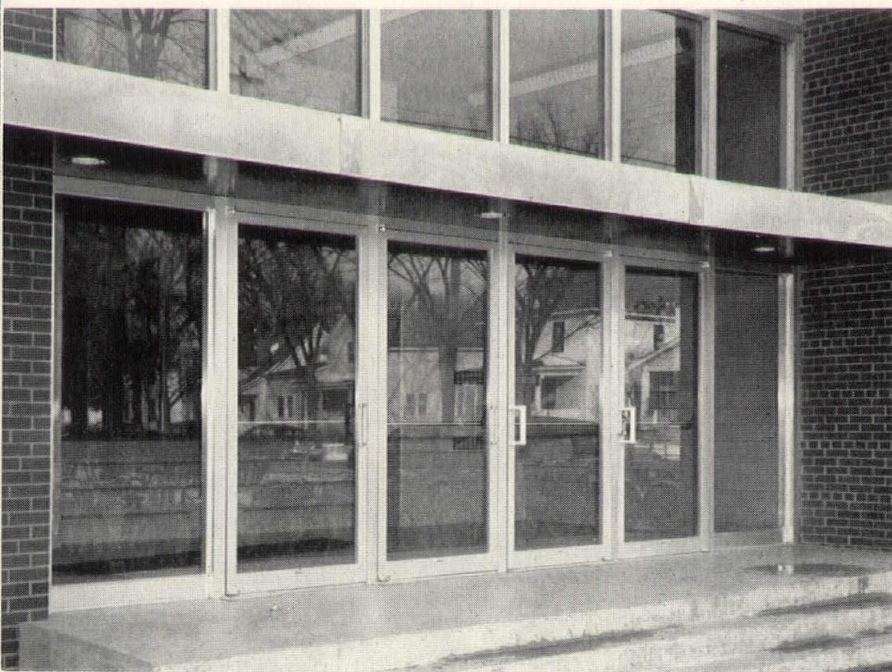
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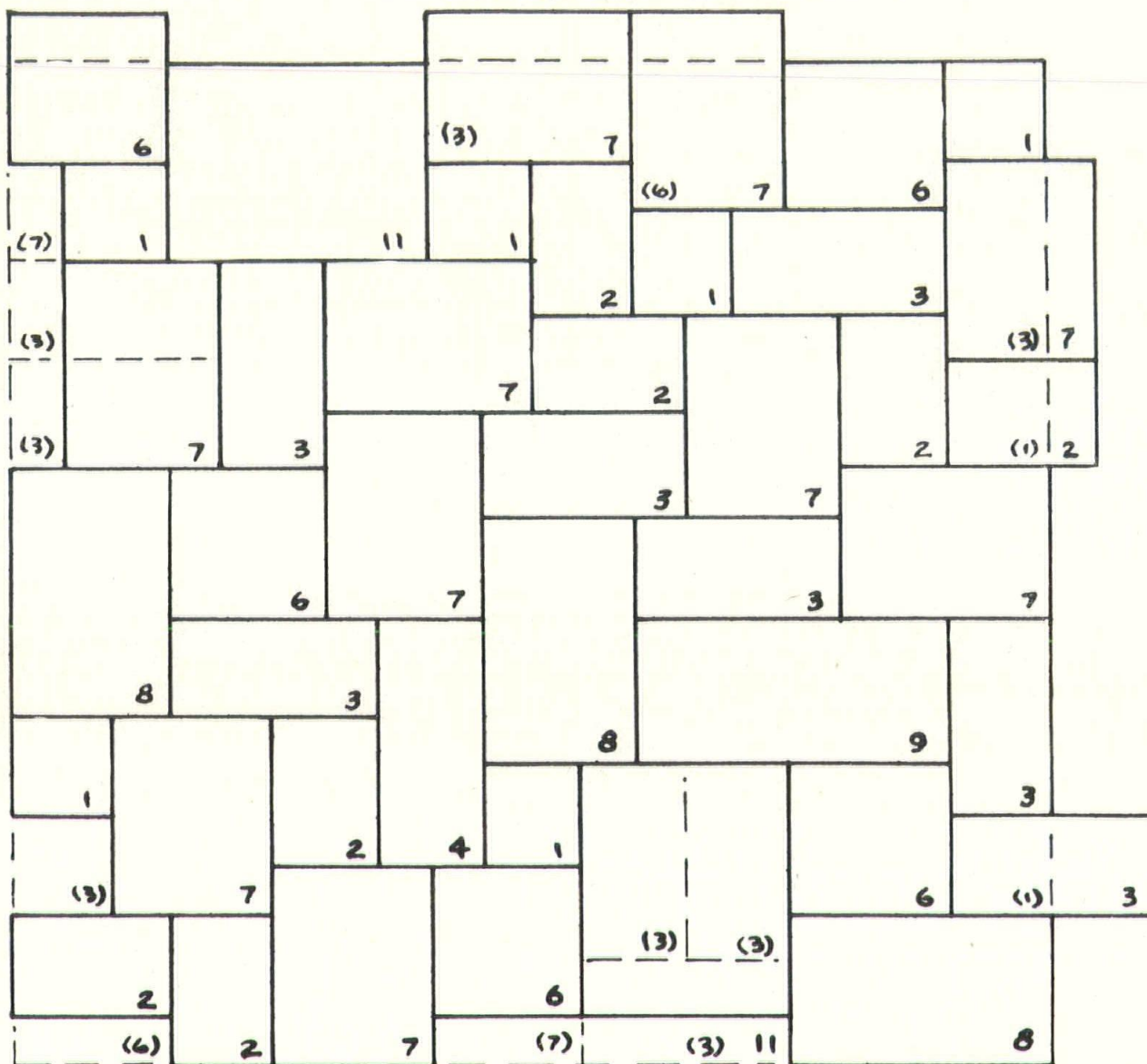
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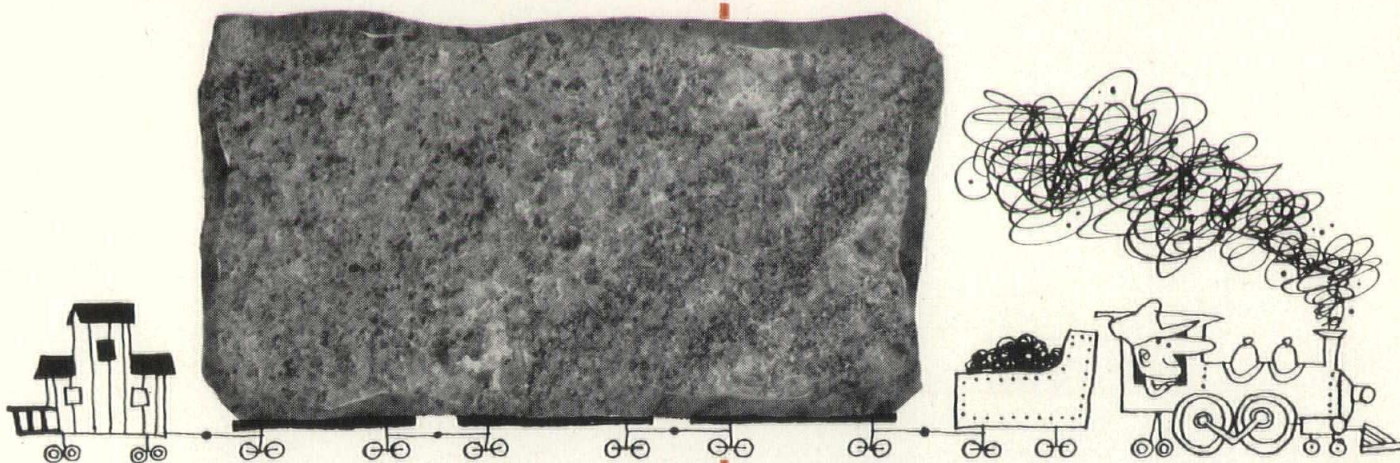
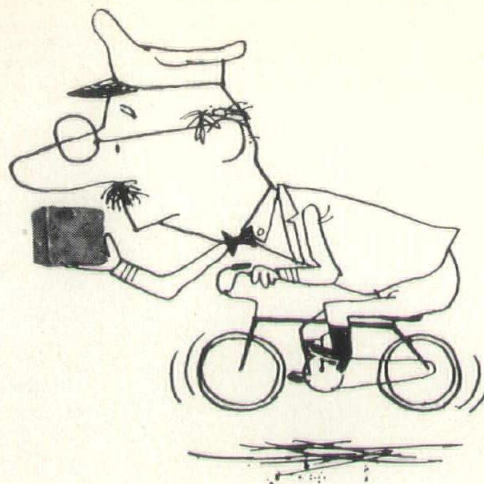
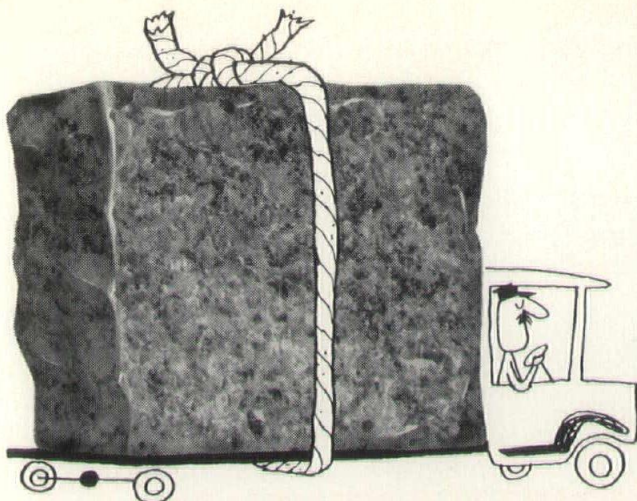
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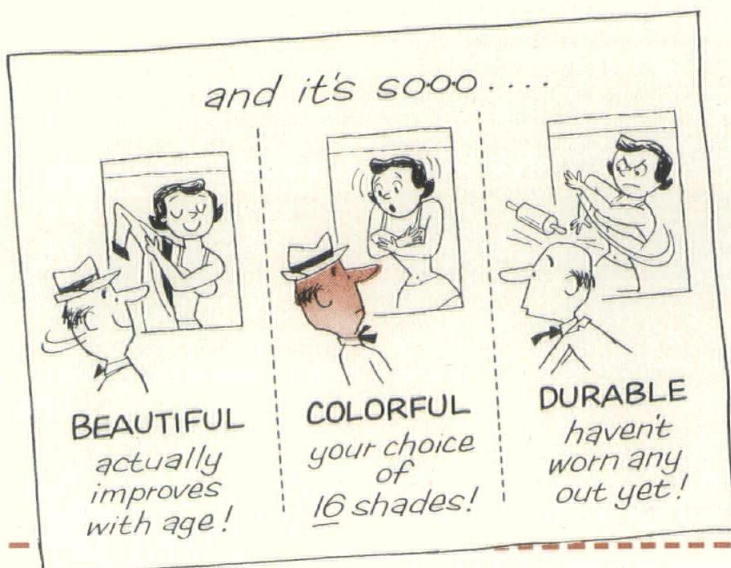
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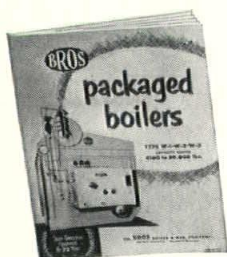
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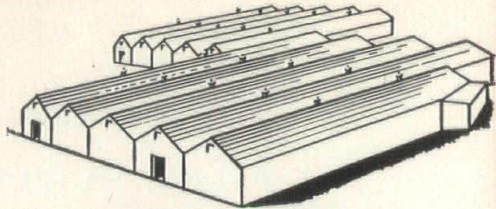
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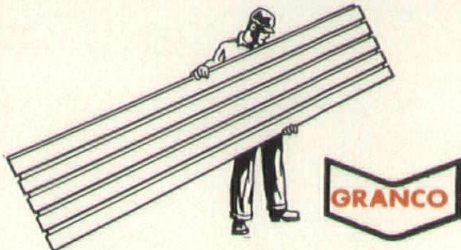


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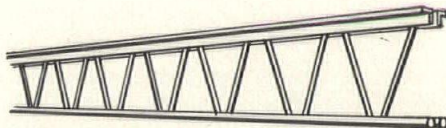
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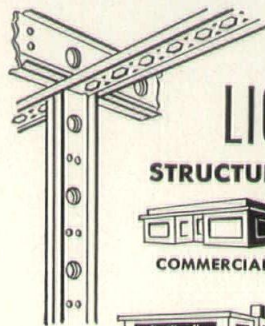
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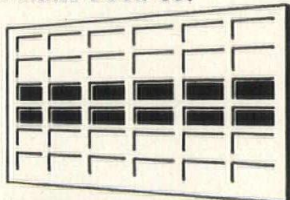


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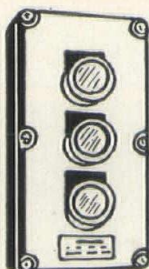
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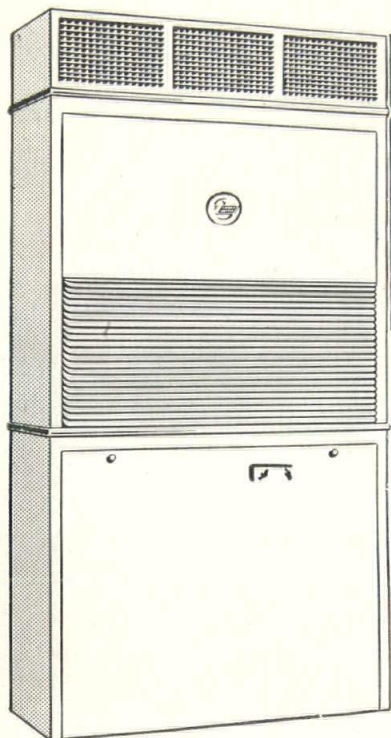
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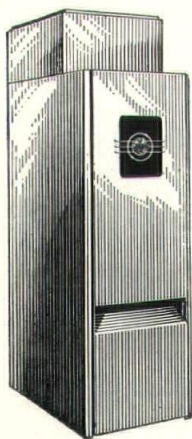
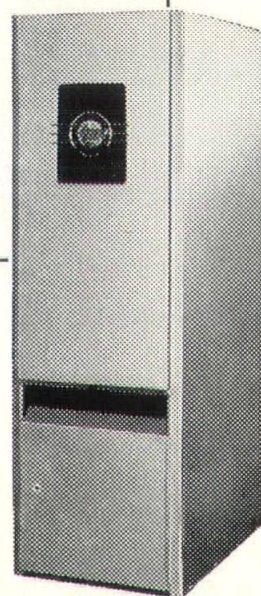
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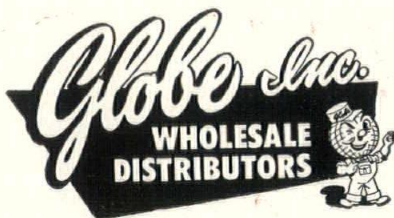
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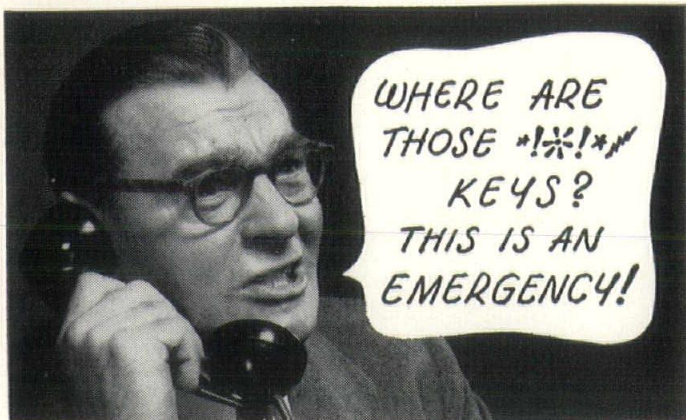
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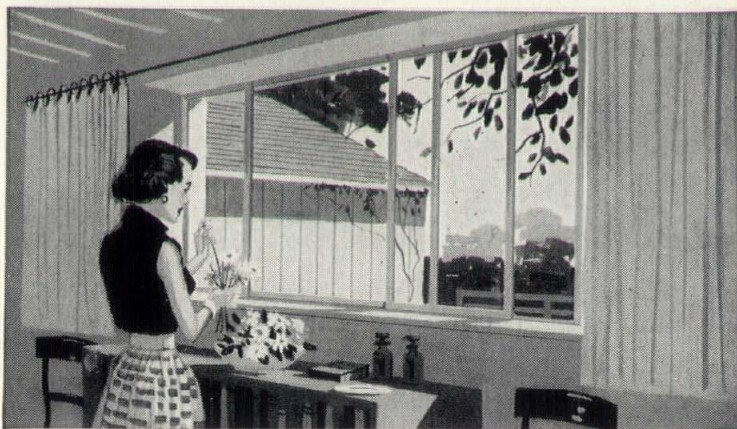
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International Union of America are se-
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Consult any of the state offices listed whenever problems arise in your trade area.

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NORTHWEST

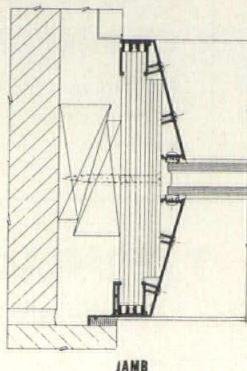
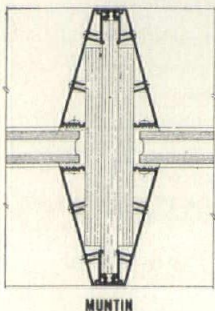
Another Thermo-Sash Aluminum Window Installation



Larson and McLaren, Minneapolis architectural firm specified Aluminum Thermo-Sash Windows in the Marquette National Bank offices in Minneapolis.

At normal humidity . . . even at outside temperatures of -20° Thermo-Sash windows provide freedom from condensation and frost on interior surfaces. An insulating core between the inner and outer members voids frost . . . annoyance of moisture streaks on walls and damage to carpeting and draperies.

Used with insulating glass Thermo-Sash units are completely insulated. Designed to withstand wind-load pressures, Thermo-Sash is being selected more and more wherever larger glass openings predominate.



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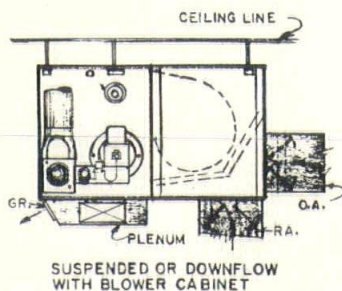
MANUFACTURERS — BRISTOL, INDIANA

BARTLEY SALES CO., INC. Sales Representatives

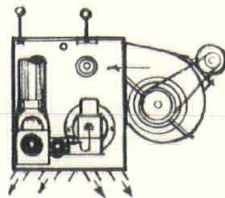
134 So. 10th St., Minneapolis, Minn.

TJERNLUND "Quick Heat"

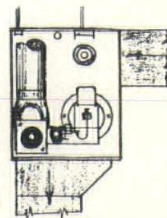
STYLE "D" FURNACES



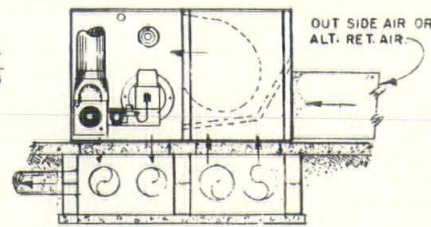
SUSPENDED OR DOWNFLOW
WITH BLOWER CABINET



UNIT HEATER WITH
4-WAY DEFLECTION

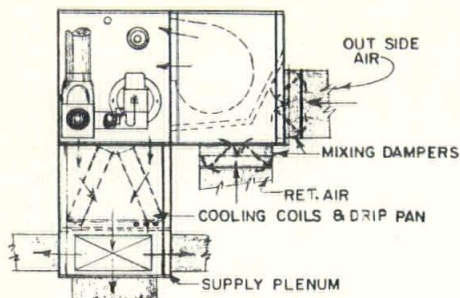


DUCT HEATER
ANGLE TYPE

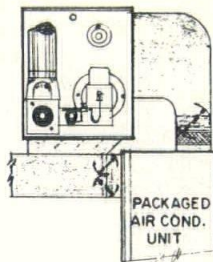


LOWBOY WITH BLOWER & FILTER CABINET
FOR PERIMETER TYPE SYSTEMS

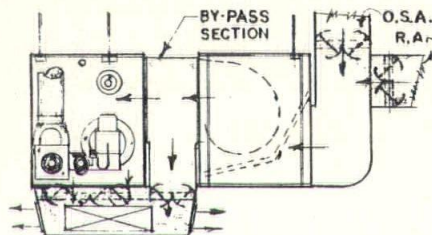
TYPICAL APPLICATIONS



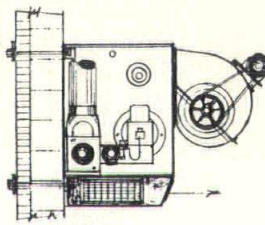
DOWNFLOW WITH COMBINATION MIXING BOX, FILTER CAB-
AND COIL SECTION, FOR HEATING OR COOLING WITH OUT
BY PASS FOR SEASONAL CHANGE OVER



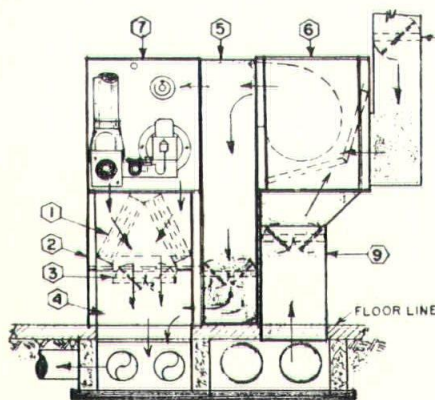
DUCT HEATER
WITH BY-PASS



SUSPENDED UNIT, BY-PASS ASSEMBLY, BLOWER
WITH FAN CABINET & FILTERS, PLENUM FOR
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WALL HUNG BLOWER TYPE
SPACE HEATER
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COMBINATION HEATING AND COOLING SYSTEM
WITH BY-PASS ASSEMBLY TO PROVIDE MOD-
ULATED HEAT AND TEMPERED AIR.
IN SUMMER THE BY-PASS MAY BE USED FOR
HUMIDITY CONTROL.

- 1 COOLING COIL ASSEMBLY
- 2 COIL SECTION
- 3 BY-PASS DAMPERS
- 4 MIXED AIR PLENUM
- 5 BY-PASS SECTION
- 6 FAN & FILTER SECTION
- 7 FURNACE UNIT
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NOTE

FURNACES ARE AVAILABLE
WITH BARE COIL SECTIONS
FOR FUTURE ADDITION OF
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FIRING EQUIPMENT

OIL BURNER

Tjernlund integral draft inducing type with single motor operation of burner and draft inducer. Prepurge timing standard. High pressure type for #2 fuel oil. Standard or electronic controls.

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Models 35, 50, 70, 100 Tjernlund "Jet Fire" power type burner equipped with combustion air proving device and one hundred per cent shutoff for natural or L. P. gas. Models 150, 200, 280 Tjernlund "Jet Fire" integral draft inducing burner equipped with prepurge timing, draft proving switch, electric ignition, electronic control for natural or L. P. gas.

BLOWER EQUIPMENT

For utilization of other than standard blower, refer to blower heater accommodation chart (i.e. Model 100 blower can be used with Model 50 furnace). For CFM and S. P. other than standard refer to blower performance sheets.

COIL & BY PASS CABINETS

Built to specifications to accommodate customers' coil or by pass requirements properly framed to fit Tjernlund heaters.

TJERNLUND MFG. CO.

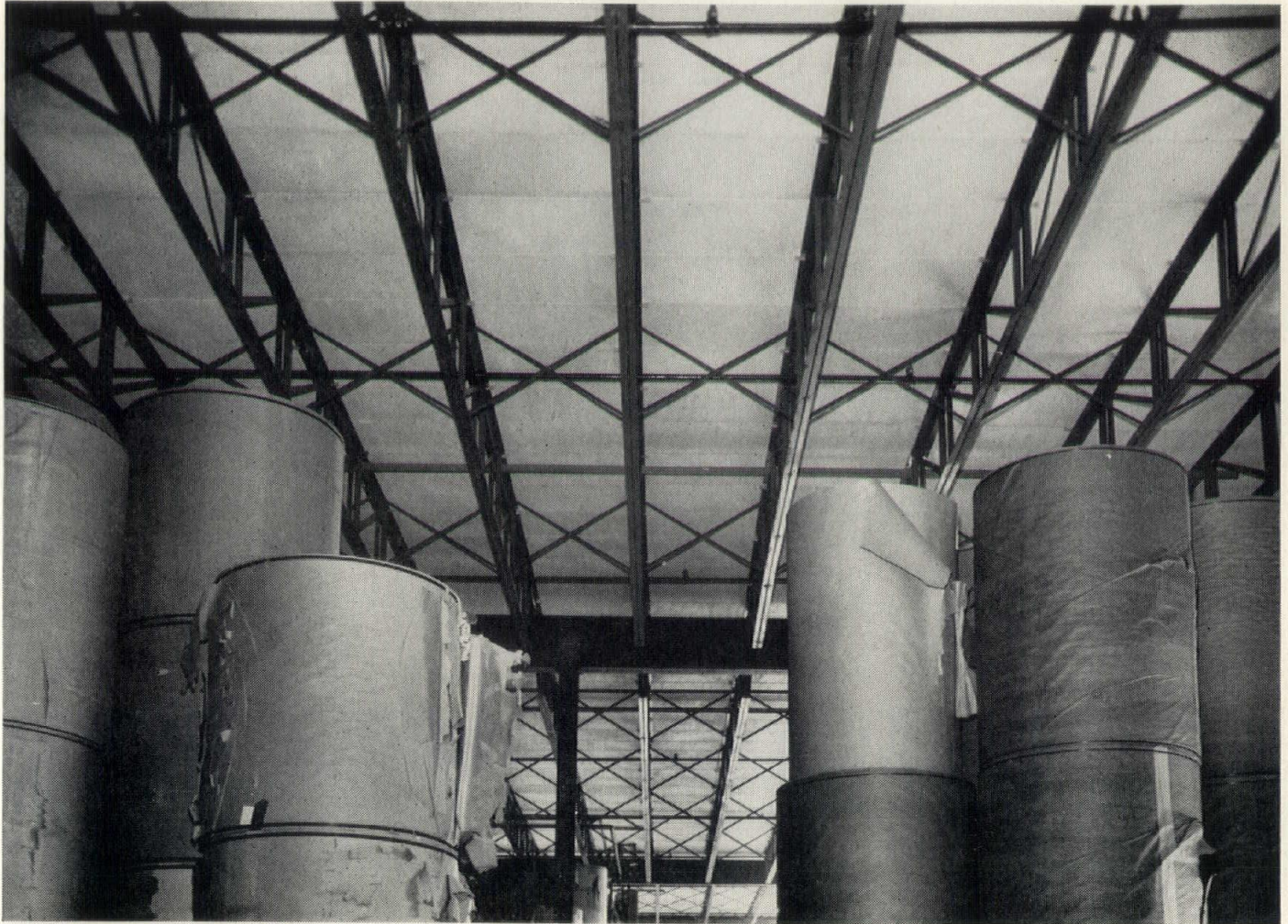
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Quality Heating Equipment Since 1938
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NORTHWEST

MINNESOTA PERLITE

Precast Concrete Insulating Roof Tile

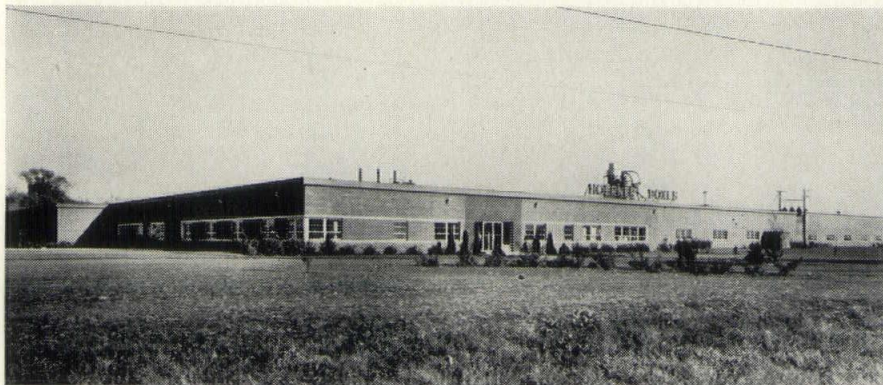


INSULATING

• FIREPROOF

• PERMANENT

• LOW COST



HOERNER BOXES, Inc.
Minneapolis, Minnesota

Caron E. Carlberg, Designer

D'Arcy Leck Construction Co.
General Contractor

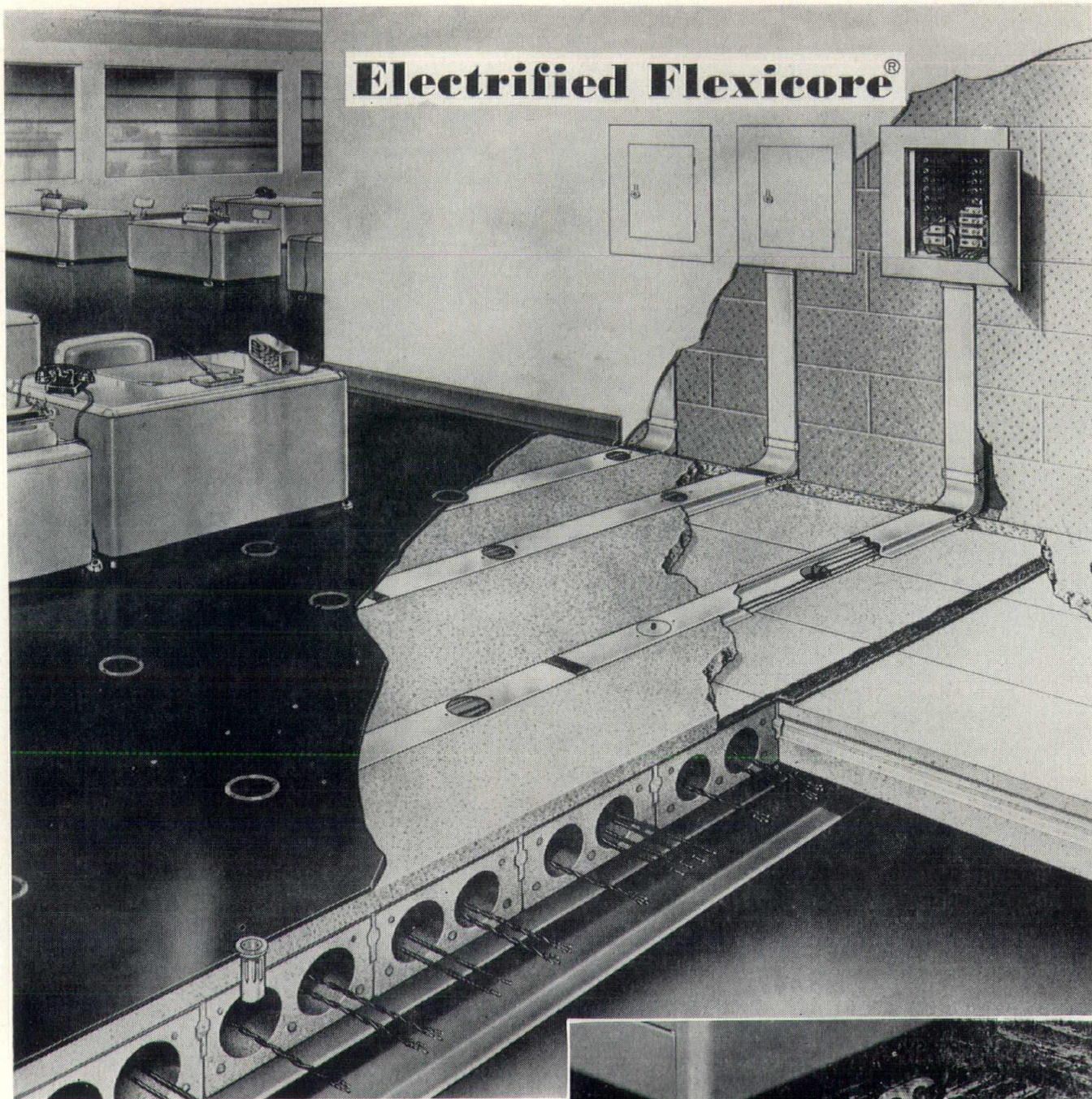
Selected for its high insulating value Minnesota Perlite Precast Concrete insulating roof tile was used in 50,000 square feet in the manufacturing area in the Hoerner Boxes, Inc. building, Minneapolis, Minnesota. Although a high humidity condition exists in this section of the building . . . no additional insulation material was used.

MINNESOTA PERLITE CORPORATION

315 West 86th Street

• TU 1-8924 •

Minneapolis 20, Minnesota

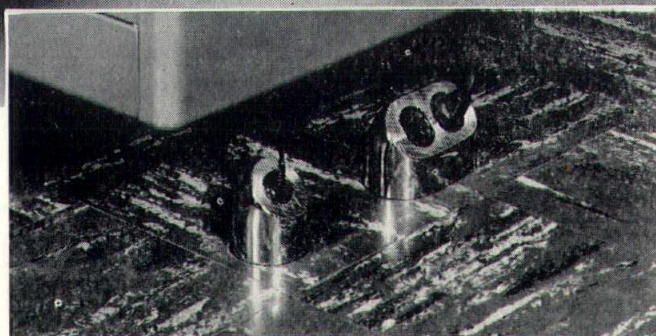


FAST ECONOMICAL INSTALLATION

Flexicore Conduflor prestressed concrete slabs provide unlimited electrical availability when combined with the Conduflor system of wiring.

Flexicore Conduflor allows complete flexibility for subsequent expansion.

Requires no additional or extra floor fireproofing.



Flexicore Conduflor in a typical 20'-0" span saves considerable on structural steel for basic structural layout.

Flexicore Conduflor Electrical System is approved in the 1956 National Electric Code.

Molin Concrete Products Co.

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NORTHWEST

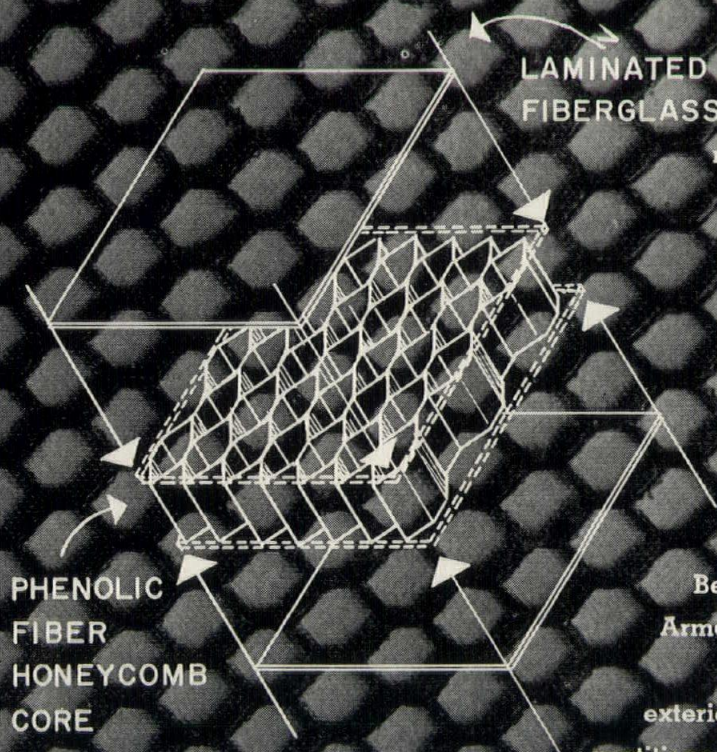
NEW BONDING TECHNIQUE PRODUCES REVOLUTIONARY PLASTIC BUILDING MATERIAL ENGLANDER'S ARMOREX PANELS

After years of widespread use by the military, Armorex panels are now available to the building industry. Armorex panels are a light weight structural material of honeycomb core sandwiched between laminated woven glass cloth outer faces. Government contracts include abuse-defying cargo shipping containers of various tonnages, water tanks, tanks for corrosive chemicals, refrigerated foodstuff carriers, truck trailers, and a host of other products with performance and durability unmatched by any other material.

Armorex panels present a brand new combination of capabilities; unlimited color range, variable translucency, thermal and acoustical insulation, high strength and rigidity at low weight and maintenance-free durability.

Because of its versatile properties, the uses of Armorex panels are many. Outstanding examples include skylights, illuminated ceiling panels, exterior curtain and spandrel wall panels, interior partitions, flush doors, light diffusers, cabanas, patio roofs and carports.

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Pella

PRODUCTS

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In St. Paul
1935 UNIVERSITY AVENUE • MI. 6-2686

Thorshov & Cerny

Architects and Engineers

THE firm of Thorshov & Cerny, Inc., had its beginnings in 1868, when F. B. Long opened an office for the practice of architecture in Minneapolis. In 1921 the firm name became Long and Thorshov, and continued until 1942 when it was changed to Thorshov & Cerny, Inc., the name it bears today. During this time, it has completed several thousand buildings and has grown to a staff of 101.

Senior partners are Roy N. Thorshov, A.I.A., president and secretary; Robert G. Cerny, A.I.A., vice-president and treasurer; Cecil M. Tammen, A.I.A.; Newton E. Griffith, A.I.A.; and John G. Rauma.

Associates are Frederick J. Bentz, A.I.A.; Kenneth R. Whitehead, A.I.A.; Foster W. Dunwiddie, A.I.A.; Willard L. Thorsen, A.I.A.; and William J. Miller, A.I.A.

The company maintains a complete engineering service. Chief mechanical engineer is Ronald E. Gridley, chief structural engineer Gerald F. Paulson and chief electrical engineer, Lennard Johnson.

In addition to the architectural and engineering departments, Thorshov and Cerny, Inc., in co-operation with Carl L. Gardner and Associates, of Chicago, offers a comprehensive city planning service. This section is under the direction of Sherman Hasbrouck.

Since the firm believes that interior design is an integral part of any architectural project, complete services in this field are also offered. A special department, under the direction of Miss Dale Sincock, further specializes in the design of business and commercial interiors.

These ten pages present views of the following works:

Completed projects:

Churches—St. Olaf's University Catholic Church
First Christian Church

House—Mrs. Angus Morrison

Schools—Farmington Elementary School
Richfield Senior High School
Wenonah Elementary School

Miscellaneous—Metropolitan Stadium
American Hardware Mutual Insurance Co.
De Puy-Sorkness Clinic

Work in Progress:

St. Mary's Greek Orthodox Church
Partington Plaza Shopping Center

Montevideo Court House

Public Health Center

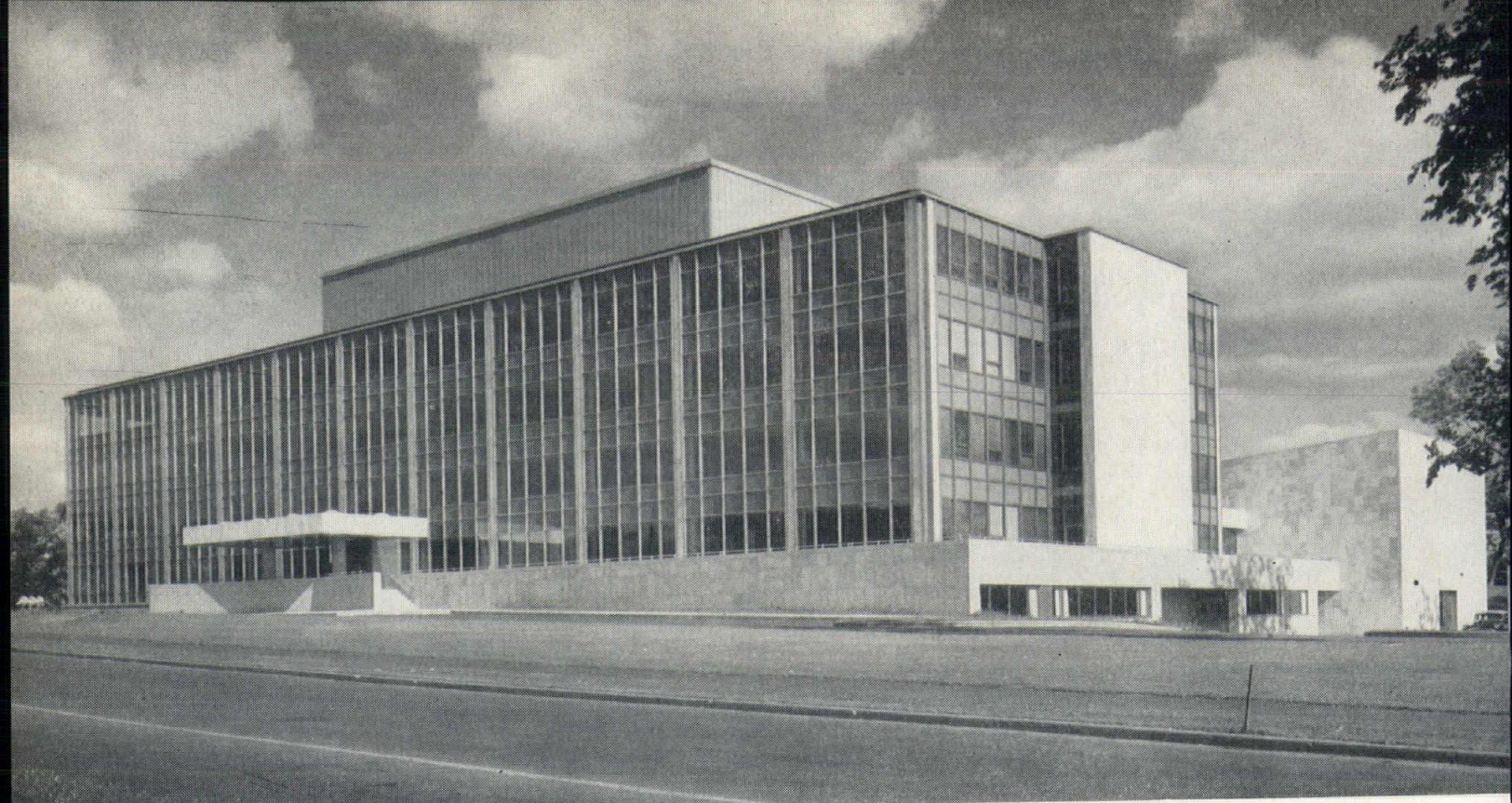
Terminal Building—Metropolitan Airports Commission

Bartron Clinic

Lower Loop Redevelopment



ST. OLAF'S UNIVERSITY
CATHOLIC CHURCH,
MINNEAPOLIS, MINNESOTA

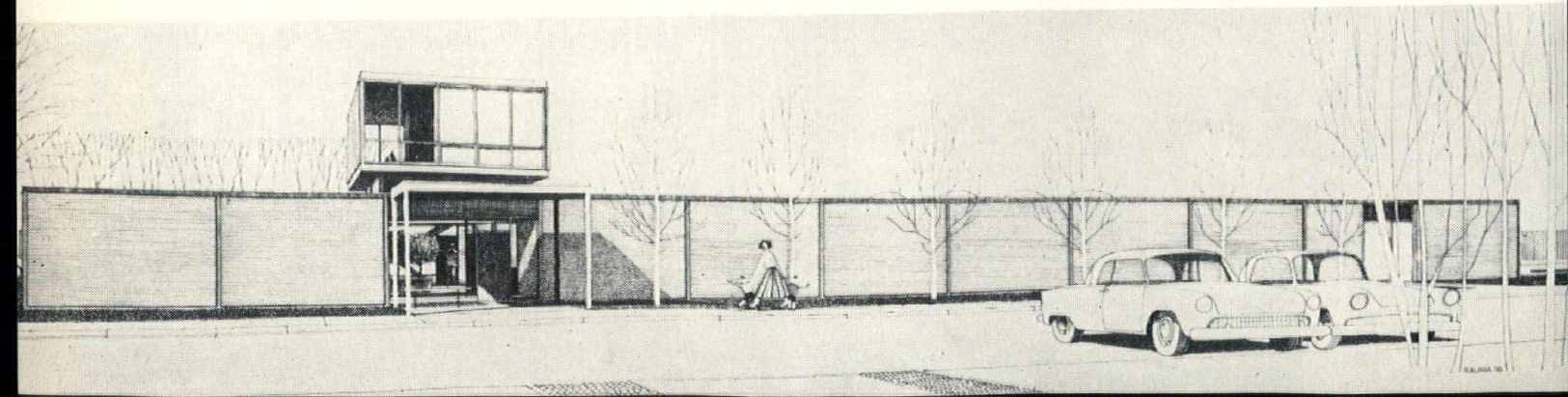


AMERICAN HARDWARE MUTUAL INSURANCE COMPANY
MINNEAPOLIS, MINNESOTA



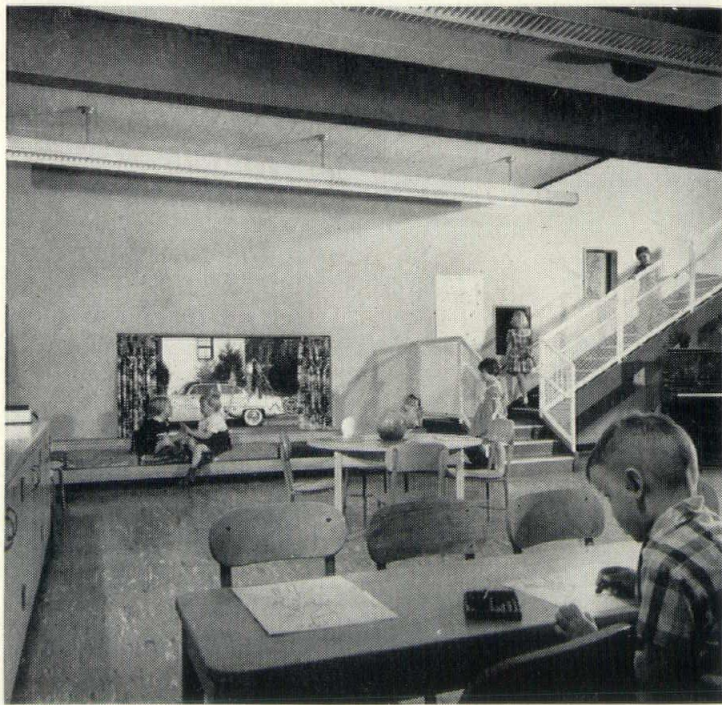
AMERICAN
HARDWARE
LOBBY

BARTON HOSPITAL AND CLINIC
WATERTOWN, SOUTH DAKOTA



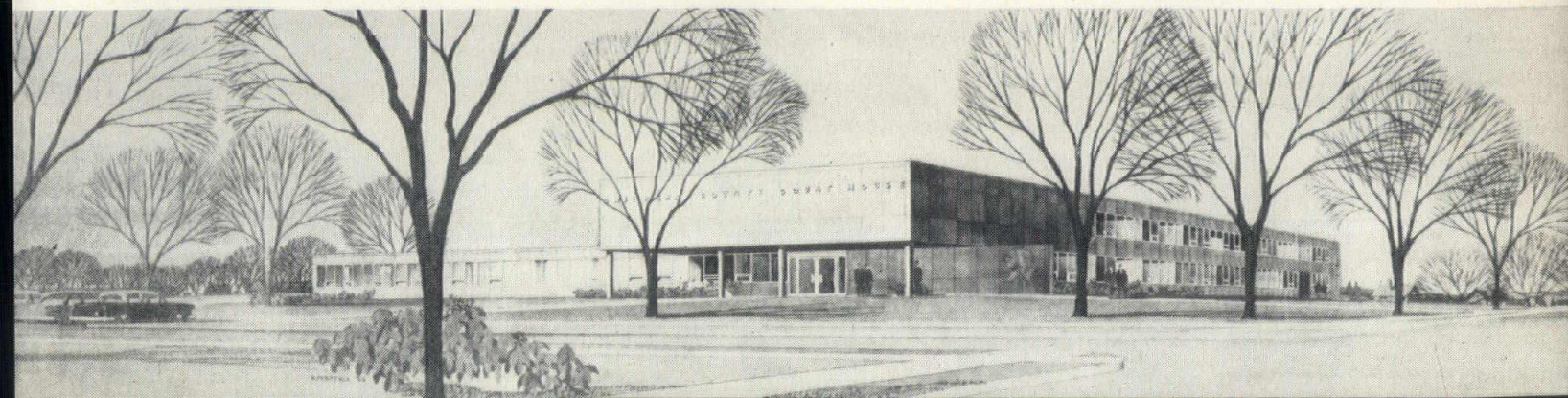


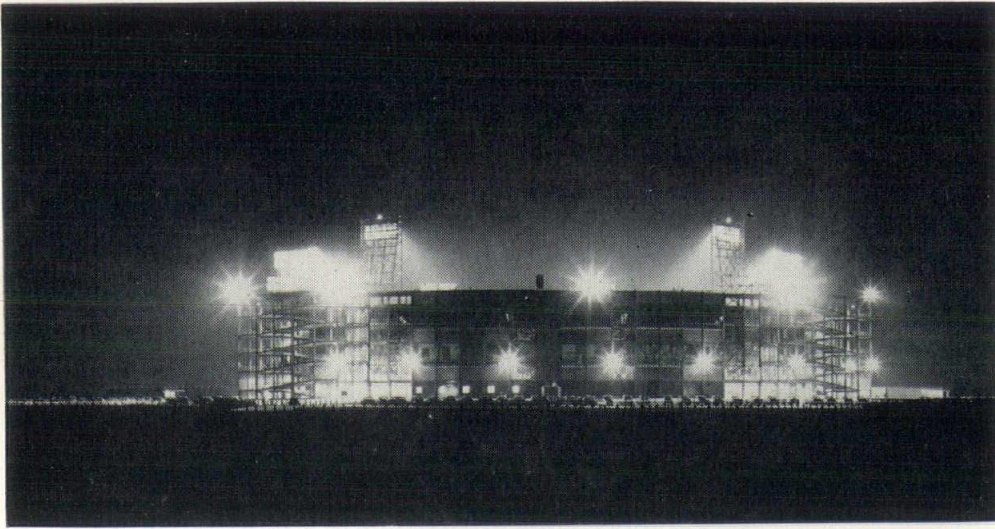
WENONAH ELEMENTARY SCHOOL
MINNEAPOLIS, MINNESOTA



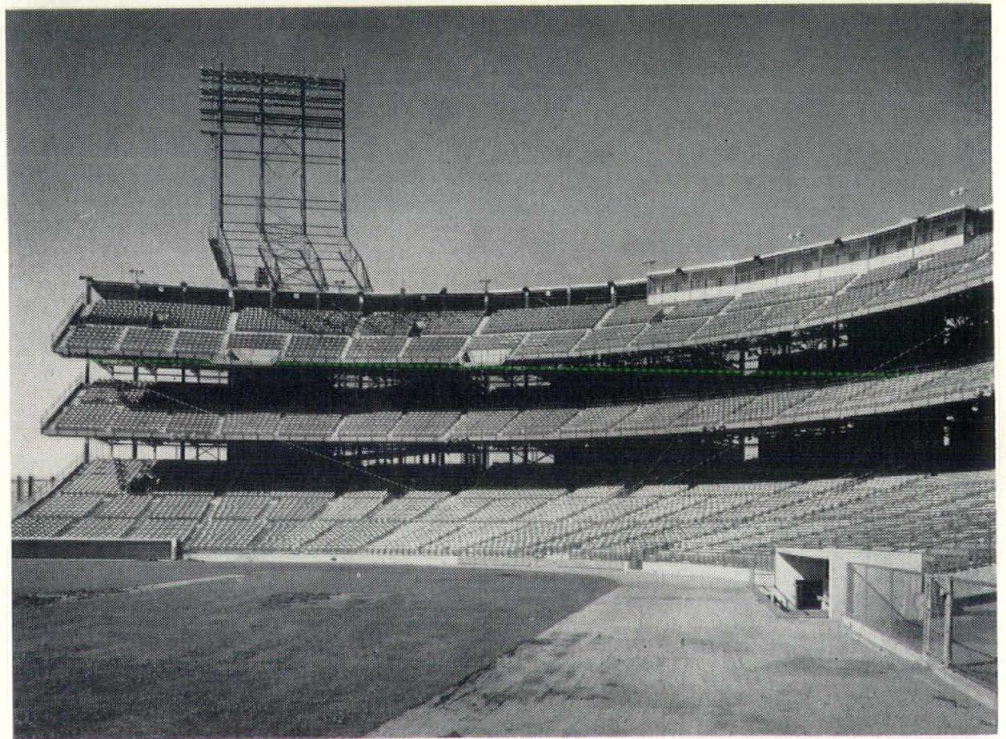
WENONAH
SCHOOL
KINDERGARTEN

CHIPPEWA COUNTY COURT HOUSE
MONTEVIDEO, MINNESOTA

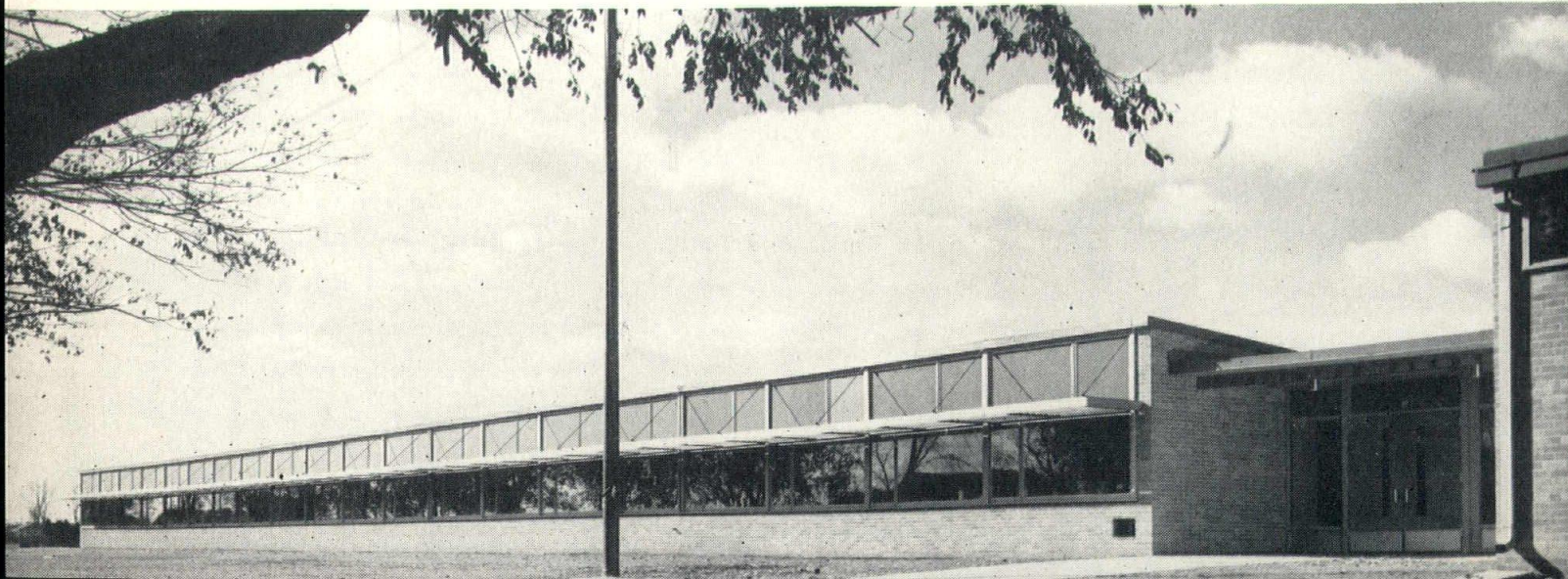




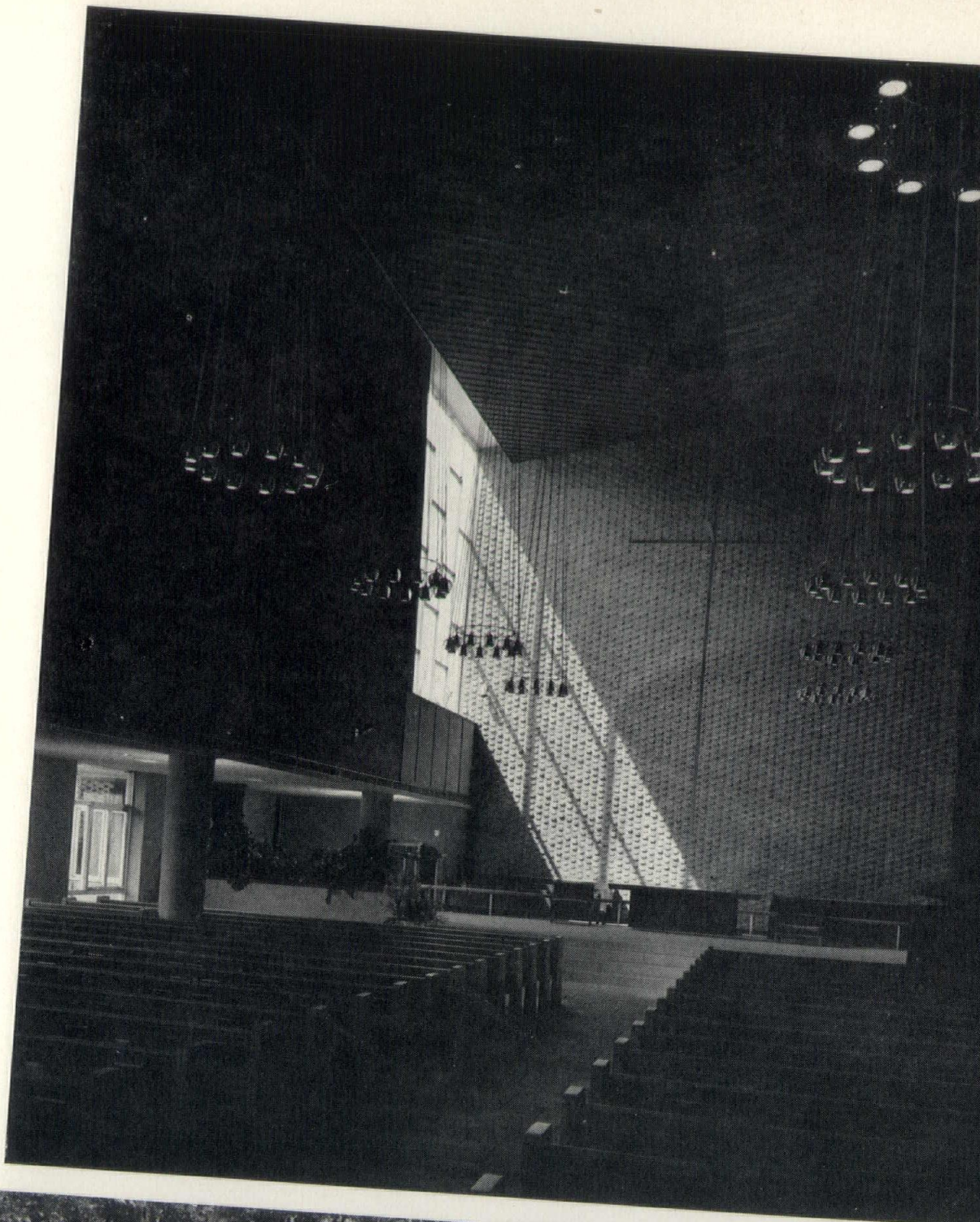
METROPOLITAN
STADIUM,
BLOOMINGTON,
MINNESOTA



FARMINGTON ELEMENTARY SCHOOL
FARMINGTON, MINNESOTA



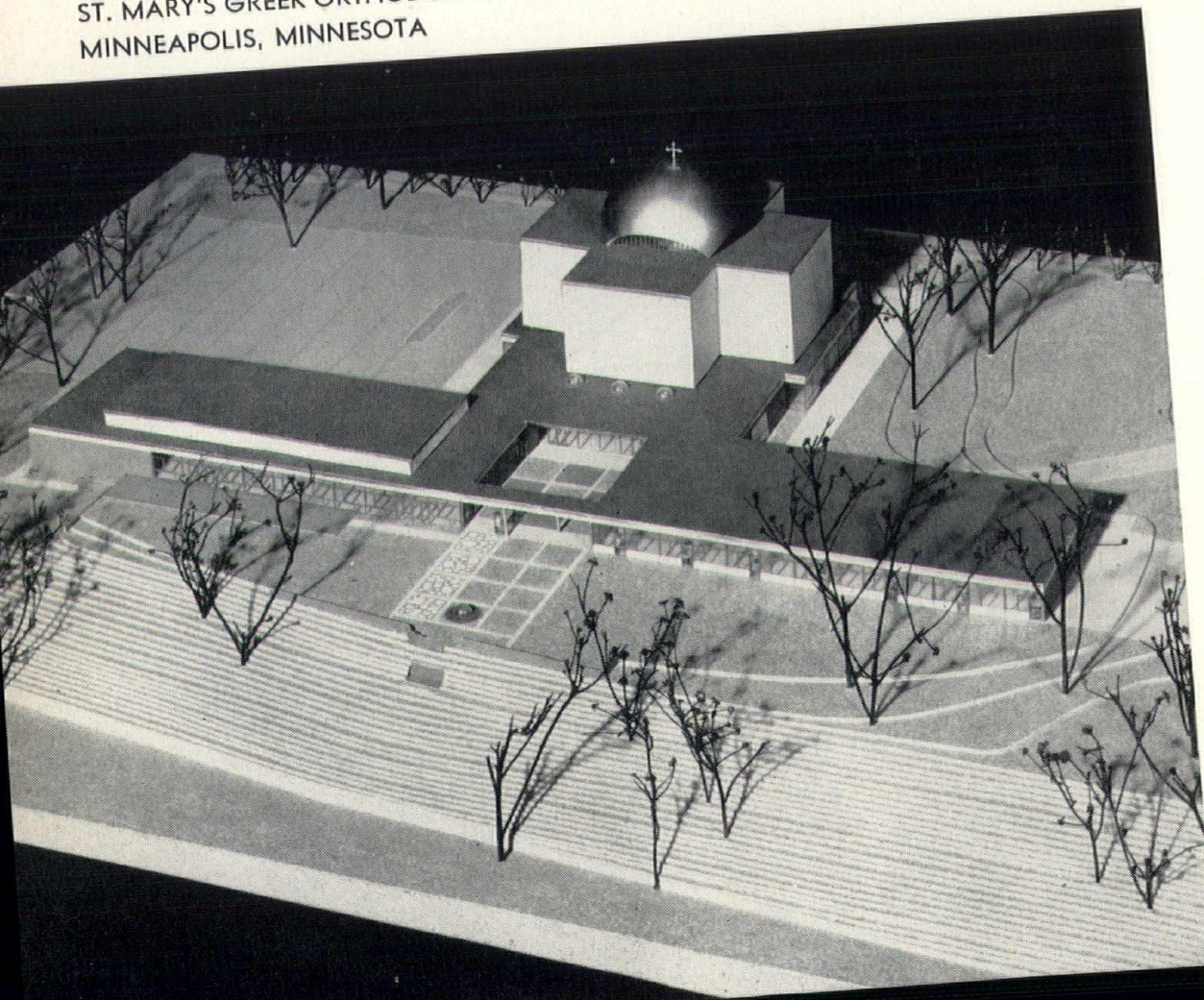
FIRST
CHRISTIAN
CHURCH,
MINNEAPOLIS,
MINNESOTA





LOWER LOOP REDEVELOPMENT
MINNEAPOLIS, MINNESOTA

ST. MARY'S GREEK ORTHODOX CHURCH
MINNEAPOLIS, MINNESOTA

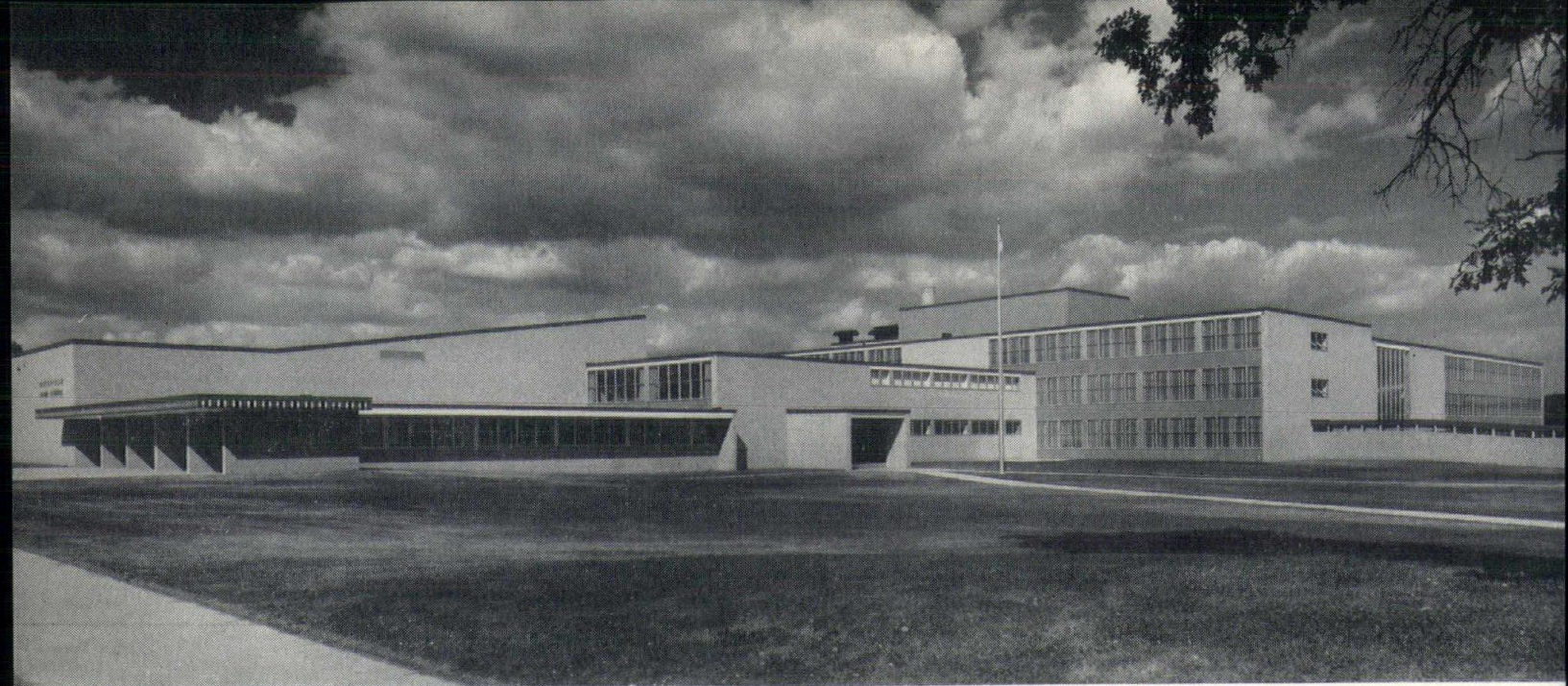




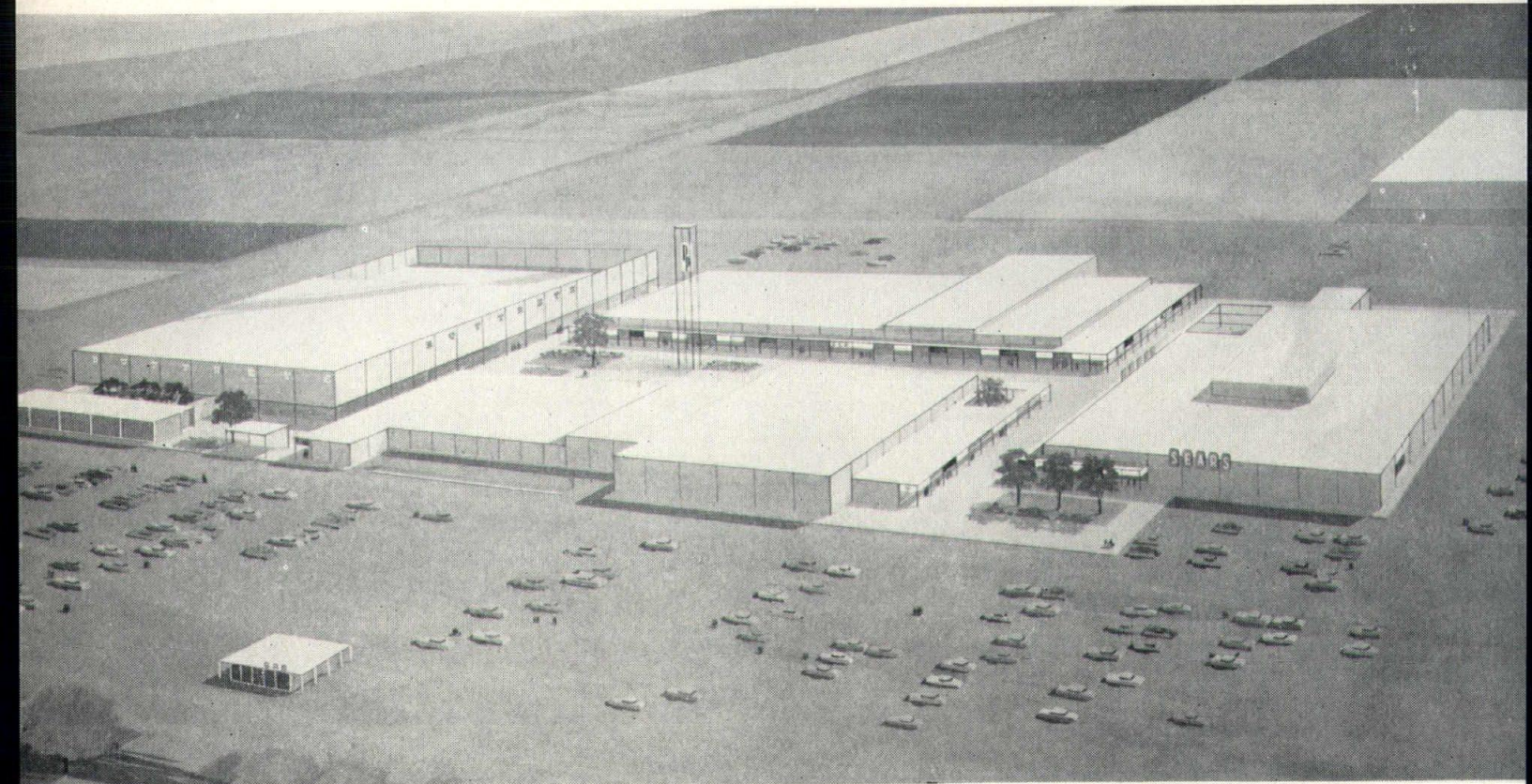
MRS. ANGUS MORRISON RESIDENCE
MAPLEWOOD, WAYZATA, MINNESOTA

PUBLIC HEALTH CENTER
MINNEAPOLIS, MINNESOTA



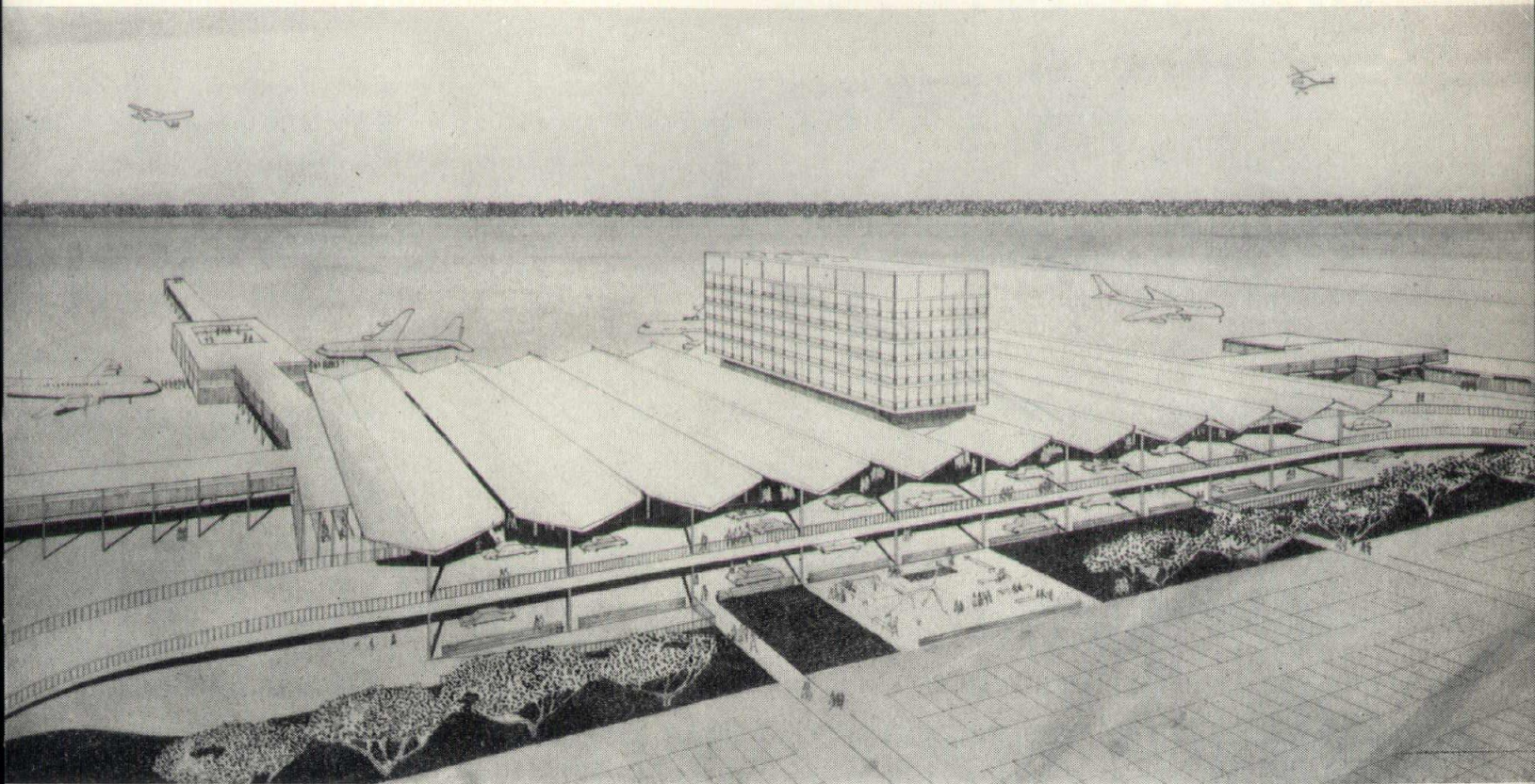


RICHFIELD SENIOR HIGH SCHOOL
RICHFIELD, MINNESOTA

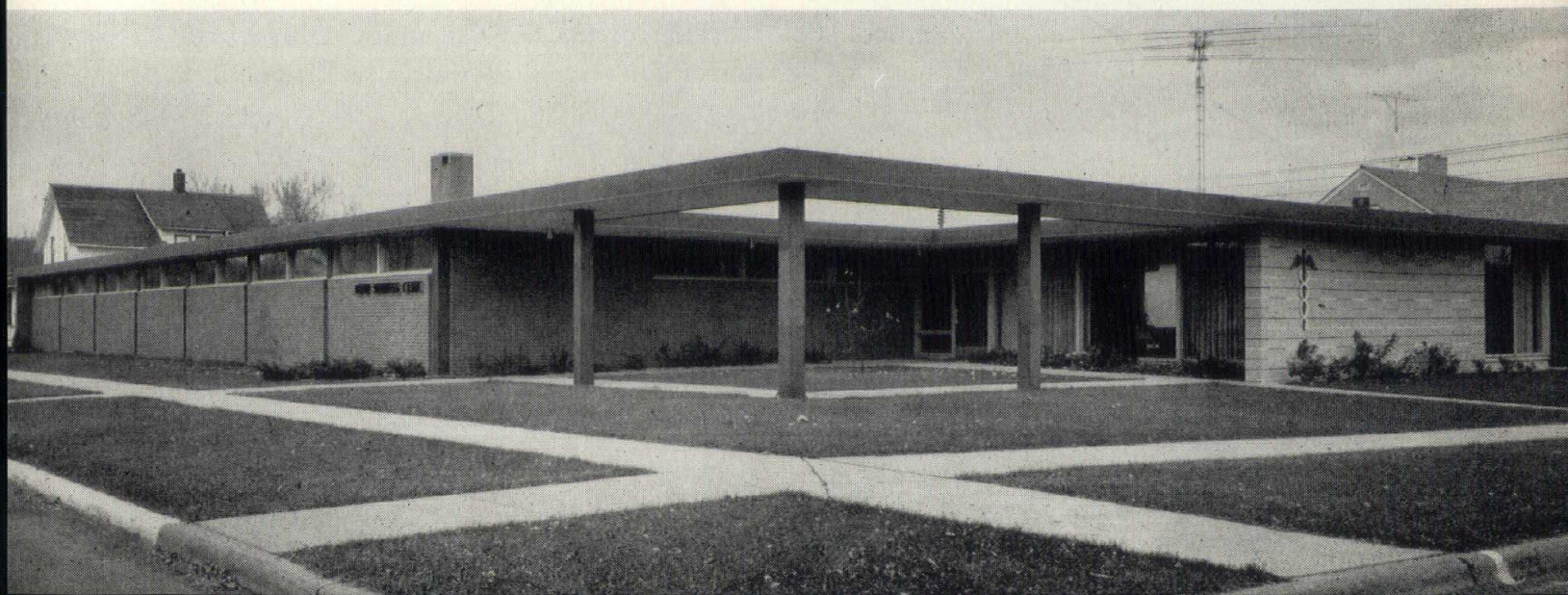


PARTINGTON PLAZA
BILLINGS, MONTANA

METROPOLITAN AIRPORTS COMMISSION, TERMINAL BUILDING
WOLD CHAMBERLAIN FIELD, MINNEAPOLIS, MINNESOTA



De PUY-SORKNESS CLINIC
JAMESTOWN, NORTH DAKOTA



TART and Retort . . .

. . . the Wright Visit

The tart Frank Lloyd Wright, in his usual role of tearing apart the cities to which he is invited and making plenty of newspaper copy thereby, spoke in Minneapolis on November 27 as guest of the Citizens League, choosing as his subject "The City of Tomorrow." His visit, tour of the city, talk before a capacity crowd of some 2,500 persons and repercussions after his departure all were of the pattern. In a way his genius reminds some of George Bernard Shaw for both never let pass an opportunity to raise eyebrows with a comment, both were leaders of thought in their periods and both seemed to have a slight tongue-in-cheek shadow which sometimes eased the bite of what they said and did.

There is no doubt Mr. Wright has contributed much to our modern picture, whether you think some of his western type houses are piles of field rubble and his mile-high design a shuttle stuck in the ground or whether you think every inch he plans is a gift from on high. If he had never made a workable design but had merely been the gadfly he has been, his inspiration would have been outstanding. Some of his inspiration has been to search and do similarly, some of it has been by irritation. Either way, it has been productive.

In our effort to present what went on during and following his visit, the writers of NORTHWEST ARCHITECT would like to cull from his speeches, newspaper



Frank Lloyd Wright and Victor C. Gilbertson, president of the Minnesota Society of Architects, chat before the big meeting.



Mr. Wright plays the piano well and before the meeting relaxed in the company of some of the region's architectural leaders. He is shown above with some of them as he played.

interviews and what was said by his confreres, as follows.

"Beauty with a capital 'B' is the only thing that will pay off in your life," Mr. Wright said in one of his few statements with which all his hearers seemed to agree. Then he upset Minneapolis civic pride by referring to the well known Southdale project as "Your flight from Egypt . . . liberated from congestion but planned just the way it is downtown. Is that moral? I do not think it is." Going further he commented on the new Prudential building that it was a desecration of park areas. He urged that his listeners "look for the truth and not just the facts."

Victor C. Gilbertson, president of the Minnesota Society of Architects, said he considered Mr. Wright's opinions based on preconceived notions and indicated he feared some of his comments were snap judgments. He pointed out, however, that "there is much to gain from his criticisms."

Wilbur Tusler, of Magney, Tusler & Setter, architects who designed the Prudential Building, said that "everybody knows Frank Lloyd Wright; his statements need no comment."

"The city once was the center of all culture. There's no culture now in these agonized monsters," Mr. Wright said. ". . . We must study the nature of the problem of the city. We must follow the Welsh saying

—‘have an eye for nature, a heart for nature and the boldness to follow nature.’

“We must look for a solution from the spirit, not from the pocketbook. Let’s talk about good sense. I won’t talk about taste; taste always is a matter of ignorance. We want a life on the green, not on the pavements. Centralization of cities is just plain murder. But if we want to centralize, the mile-high building is the answer. Put three in New York’s Central Park and you can turn the rest of midtown Manhattan into greenery.

“I’m the only architect who has built buildings from the core out. With this principle you can build as high as you want to. It may be the greatest architectural advance of the century.”

There are those who were amused by the architect’s attacks on city centralization, comments on the desire for greenery and nature with his parallel of the mile-high building from whose floors the greenery becomes pretty far away. In this connection Roy C. Peterson, Minneapolis acting planning engineer, speaking at a subsequent meeting, made these comments.

“What Wright would want us to do would be to wipe Minneapolis clean. . . . Take his idea to conclusion and Minneapolis would wind up with one cloud-piercing structure in the center of its 58-square-mile area and then what a time we would have getting people in and out of that one location. I don’t know how Minneapolis would ever be interested in wiping out all our existing investments. I suppose we’ll just have to wait till the Russian jets come over with their atomic bombs and wipe out the city. Then we can start all new.”

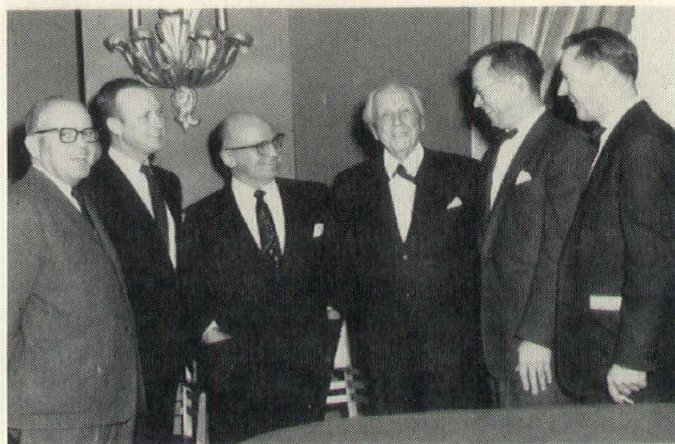
Mr. Wright considers the automobile one of the dangers of present day life and ended some caustic comments about the machine with the pert, “They look



Above are shown (l-r) James M. Fenelon, executive secretary of the Minnesota Society of Architects, Mr. Wright, C. T. Silversen, immediate past president of the Citizens League, and Walter S. Harris, Jr., president of the Citizens League.

like they’re designed so they could fight each other in the street backwards.”

In commenting on American cities in general, he said they “are a quarreling collection of things that don’t belong together . . . a frantic jungle of incongruity” and laid the blame on architecture’s doorstep. Architects, he felt, are not what they should be “because they’re educated. The inferior mind always learns



Here are (l-r) R. V. McCann, Minneapolis chapter president, Ralph R. Rapson, head of the U of M School of Architecture, Sidney L. Stolte, past Minnesota president, Mr. Wright, W. Brooks Cavin, St. Paul chapter president, and V. C. Gilbertson, state president.

by comparison, the deep mind by analysis.”

“What we want now in architecture, life and everything else is the truth. Let’s have youngsters who love nature as they see nature, who build from the heart.”

Robert Cerny of Thorshov & Cerny commented later on this that he considered it significant that Wright’s own school, which has operated for some 20 years, had produced only one or two men of real stature. He also pointed out that LeCorbusier called Minneapolis one of the most beautifully planned cities in the world.

“We can start with that—our lakes and parks—and plan our way out of the situation,” Mr. Cerny said. “But not with mile-high skyscrapers, which are ridiculous. They would be 80 per cent elevators.”

Ralph Rapson, head of the Minnesota School of Architecture, said, “We can all stand criticism but I maintain we’re doing a much better job in the schools than he is at Taliesin, Arizona. . . . He’s the greatest architect of our times but there are others doing a good job, some better than he’s doing now. . . .”

All in all, the meeting and what it roused were interesting and if they did nothing else, the comments and fuss made the public around this area well aware there are creatures called architects.

HOME DESIGNERS NAMES NEEDED

Potential customers for architect-designed private residences are frequent callers at the Minnesota Society of Architects’ office in Minneapolis but they are too frequently disappointed because the office does not have a checklist of members who will take on these supposedly minor commissions, according to Jim Fenelon, executive secretary. Therefore, so the office can do a good job of public relations on these phone and personal requests for names of home designing architects, will our readers who do this kind of work please drop Mr. Fenelon a note so he can build up his files? From it he can then supply a number of names and use them in rotation so all will get a chance at the business.



Gil's Word

President
Gilbertson

To the Members of the Minnesota Society of Architects:

At the beginning of our 1956-57 year last June the society was faced with a problem of replacing Ralph Keyes as executive director. This seemed to be a very difficult task confronting us but, with Ralph's able assistance, we found James Fenelon. Jim, in my opinion, is doing our job extremely well and, with the able assistance of Jean Von Holtum, he has the central office functioning as well as ever. Remember that the office at 3416 University Avenue is *your* office—so pay a visit when you are in the neighborhood.

On February 23 we will officially open our centennial observance with a dinner address and dance

in the Radisson Hotel. Clair Armstrong's committee has plans well advanced for the occasion with John Burchard, dean of humanities at MIT, engaged as principal speaker. Brooks Cavin, chairman of the honor award's program, plans to have the presentation of the awards made at this dinner also. We expect to have the governor present as our guest as well as other civic leaders and representatives of the construction industry. We are looking forward to an eventful evening and I urge you all to make plans to attend this 100th Anniversary of AIA on February 23. As an added attraction to you who are *outstate*, the committee tells me that the Louis Sullivan exhibit will be at the Minneapolis Art Institute until February 24.

Art Lucas has the state convention plans developed to the point that we know a fine program and a good time will be assured when we convene in Duluth on June 27 and 28. "Toward New Horizons" is the theme and those of us not living in Duluth can take this to mean we should head for the North Shore, come June.

With so many people working diligently, the remainder of our MSA year should be a very interesting one. It offers an unusual opportunity for us to bring architecture and architects into public limelight.

To all of you we wish a happy holiday season and continued success in the New Year.

Victor C. Gilbertson
President

AIA CENTENNIAL OBSERVANCE PLANS PROMISE BIG THINGS

Early plans for the centennial observance of the American Institute of Architects in this area indicate the event will be one of the major architectural get-togethers of recent times. John E. Burchard, dean of humanities and social studies at the Massachusetts Institute of Technology, will be the principal speaker, according to G. Clair Armstrong, chairman of the committee on arrangements.

Scheduled for the evening of February 23, 1957, the program will be presented in the Radisson Hotel, Minneapolis. Mr. Burchard will talk on "Architecture: Influence of the Past—Lessons for the Future." Mr. Burchard originally hailed from Minnesota, being born in Marshall. He is, however, an MIT graduate. He was a featured speaker at two recent AIA conventions and is considered to be one of the most effective spokesmen on architecture both for the professionals and laymen. He has served on many committees dealing with professional education and his broad training and lively interest in the profession make him an excellent selection to address the group on the centennial occasion.

A dinner dance is being planned for the evening of the centennial day, according to Robert Kerr of the committee, with a name band playing for the dancing.

Possible entertainment during intermission is also being considered.

Awards of honors to outstanding architectural designs submitted for a special centennial exhibit will be made during the dinner. It is expected that in honor of the occasion state architects will present their best present buildings for consideration.

Attendance at the centennial is expected to be large. Chapters all over the country are making similar plans for special observances of the first hundred years of service by the institute to the American public and the profession.

IF Y'GOTTA SQUAWK SEE YOU TAKE IT TO THE RIGHT PLACE

Squawks are important features of professional practice and when they involve other architects and those in related fields they should be properly aired in the proper office or the person raising them should keep them to himself. Complaints can be productive of both good and ill will and so should be handled with discretion. If they are for the good of the profession they should be carried forward properly, so to aid our readers in approaching these features of their practice in the best way we print here some information originating with the office of the Minnesota Society of Architects.

The following are parts of a report of the enforcement

NORTHWEST

committee of the Minnesota Society of Architects made to the society's board of directors on January 24, 1956. The board of directors adopted the recommendations of the enforcement committee, thereby establishing the policies and procedures set out below.

"Realizing that the duties and functions of this committee are potent with possibilities for creating ill will as well as good will within the profession and on the part of the public in its reaction and thinking toward the profession, and that the committee should be prepared to act quickly in matters that demand prompt attention to an alleged violation, and, on the other hand, should have a formulated procedure wherein purely spurious complaints are relegated to their proper place, and in general to have a systematic means for the committee interesting itself in possible enforcement problems, the following procedure was adopted for the committee's activities:

"1—Each complaint of an alleged violation should be directed to the president of the society, the chairman of the enforcement committee or the executive director of the society, **in writing**, setting forth the facts which constitute such alleged violation and a statement of the supposed violation involved.

"2—Upon the receipt of a complaint it should be referred immediately to the committee (or a subcommittee thereof) to determine what action should be taken by the committee or the executive director to collect further information or to obtain verification of the information received.

"3—After assembling and verifying the necessary information, the matter should again be referred to the committee for decision as to the recommendation of the committee for further action, if thought advisable.

"The charge of the committee by the board of directors is as follows:

"It shall be the duty of this committee to co-operate with the Minnesota Board of Registration for Architects, Engineers and Land Surveyors in matters concerning the Minnesota Registration Act for architects, to promote conformity with the act and to investigate alleged violations of it to the end that greater conformity with both the letter and the spirit of the act will be the rule within the profession."

Within purview of the committee are:

"1—Conduct or activities of a registered architect which may be the basis for revocation or suspension of his certificate of registration.

"2—A non-registered person performing acts which constitute 'practicing architecture' as defined by the statute.

"3—A non-registered person holding himself out or advertising himself as an architect.

"4—A person or organization, private or public, who is not using the services of an architect and according to the provisions of the statute should be using the services of a registered architect.

"Assuming that the complaint is a valid one and that there is sufficient evidence to support the com-

ARCHITECT

SPECIAL NOTICE TO CORPORATE MEMBERS ABOUT FEES

On November 12, 1956, all corporate members of the Minnesota Society of Architects were mailed a copy of the recommended minimum fee schedules for architectural services as adopted June 8, 1956, by the Minnesota Society of Architects. If your office has not received this fee schedule or if your office desires additional copies please contact the office of the Minnesota Society of Architects, 3416 University Ave. S.E., Minneapolis 14, Minnesota.

plaint, there are several courses of action available, which include:

"1—A letter to the person or organization involved, pointing out to said person or organization those acts which may constitute a violation of the statute, together with information as to the law on the point, on the assumption that the person or organization committing said acts is operating without knowledge of the fact that the acts complained of may constitute a violation of the statute.

"2—A personal visit by the executive director, accompanied by one or more members of the enforcement committee, carrying out the same intent as in number 1.

"3—Filing a complaint with the Board of Registration.

"4—Making a complaint to the county attorney of the county in which the alleged violation is or has occurred that certain acts have been or are being committed, that the acts constitute a violation of the statute and as such are criminal acts within the purview of the Registration Act, to the end that the county attorney prosecute a criminal action against the violator.

"5—Injunctive proceedings in the county in which the alleged acts have or are taking place, such action being brought on behalf of the Minnesota Society of Architects as the aggrieved party.

"In order to avoid too hasty action and also to gain stature in the Society's handling of the complaint, a complaint to the Board of Registration, a complaint to the county attorney of alleged criminal acts, and the injunctive proceedings should be done only after a suitable resolution has been adopted by the board of directors of the society."

MINNESOTA SOCIETY COMMITTEES

President Vic Gilbertson of the Minnesota Society of Architects has appointed the following committees and we print them so our readers will know who is serving the society and how. Alternates are noted with an asterick.

STANDING COMMITTEES

Audit Committee—George C. Darrell, chairman, Donald C. Heath and Gerald H. Buetow.

The bylaws provide that this committee will audit the treasurer's books and reports.

Legislative Committee—Sidney L. Stolte and Allan H. Meinecke, co-chairmen, Robert G. Cerny, Eino A.

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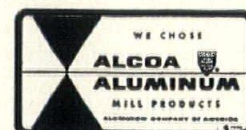
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Jyring, Arnold I. Raugland, W. H. Tusler, Thomas Shefchik, James Voight, W. Brooks Cavin, Grover Dimond, *A. Reinhold Melander, *Frank Jackson and *Thomas E. Ellerbe.

It shall be the duty of this committee to formulate and promote the legislative program of the society, especially legislation which is for the betterment of community planning or professional regulations and particularly to promote the writing of a state building code. Besides the regular duties of the committee, a thorough study of the registration law shall be made to determine wherein it might be strengthened.

Education Committee—Winston A. Close, chairman, Robert Benninghof, Norman C. Nagle, James Brunet, Walter K. Vivrett, William Berget and Otto M. Olsen.

It shall be the duty of this committee to promote better education for architectural students and generally to develop co-operation and interest between the practicing profession and the school of architecture.

Budget and Finance Committee—Edwin W. Krafft, chairman, Arthur C. Lucas, Jr., William Shannon, Jr., Allan H. Meinecke, Eugene E. Hickey and W. E. Ellingsen.

It shall be the duty of this committee to study and recommend fiscal policies to the board of directors and specifically to establish a budget for the society for each ensuing year.

Publications Committee—Ralph Rapson, chairman, Sidney L. Stolte, Donald S. Haarstick, *Gordon Schlichting, *W. Brooks Cavin, *Harold Fridlund and *Thomas Shefchik, Jr.

It shall be the duty of this committee to supervise the editorial policy and content of our publication, *THE NORTHWEST ARCHITECT*, and to strive to better the professional aspects of the publication.

Enforcement Committee—Hubert H. Swanson, chairman, Otto M. Olsen, George Pass, Jr., Louis Pinault, P. C. Bettenburg, Frank D. Clark, Norman K. Fugelson, Harley Johnson and George D. Klein.

It shall be the duty of this committee to co-operate with the Minnesota Board of Registration for Architects, Engineers and Land Surveyors in matters concerning the Minnesota Registration Act for architects and to investigate alleged violations of the act to the end that greater conformity with both the letter and the spirit of the act will be the rule within the profession.

AIA-AGC Joint Committee—K. A. W. Backstrom, co-chairman, David Griswold, Earl Beddow, Milton V. Bergstedt, J. Milton Leadholm, Francis R. Meisch and Donald P. Setter, *Arthur Lucas, *Virgil Siddens.

It shall be the duty of this committee to study matters of mutual interest to architects and contractors.

Public Relations Committee—Cecil Tammen, chairman, Robert Kerr, Louis Lundgren, Earl Fullingim, Rogers George, Saul Smiley, Curtis Green, A. L. Wegleitner and Everett Thorsen.

It shall be the duty of this committee to organize and promote a public relations program for the society, to obtain favorable publicity for the profession, to strive to educate the public of the value of architectural

services and to establish good public relations with other elements in building industries, with public bodies and civic and community groups.

Exhibit Committee—S. Bertil Fasth, chairman, Robert Jackels, Warren Mosman, Roger Patch, Kenneth Whitehead, Sanders Ackerberg, Merle Abbott and M. R. Dobberman.

It shall be the duty of this committee to promote displays of architectural work and to handle all exhibits for the state society.

SPECIAL COMMITTEES

Fee Study Committee—Grover Dimond, chairman, Frank Clark, Robert Hanson and A. R. Melander.

It shall be the duty of this committee to review the findings of the previous committee, to insure publication of the revised schedule of fees and to publish one annual reminder to the membership that the minimum fee schedule is of significant importance. The committee shall arrange that each new architectural registrant receives a copy of the circular and the fee schedule.

School Planning & Financing Committee—K. A. W. Backstrom, chairman, John S. Belair, Horace V. Matson, Eugene D. Corwin, Raymond T. Hermanson, Bruce R. Church, Samuel B. Mayo, Louis R. Lundgren, Gerald A. Anderson, Cecil M. Tammen and Richard Whiteman.

It shall be the duty of this committee to study possible improvements in planning and construction of school buildings and new methods of financing school building construction. The committee shall cooperate with the State Board of Education in these studies.

Convention Steering Committee—Arthur Lucas, chairman, other membership to be determined later.

It shall be the duty of this committee to do the early planning for the 1957 society annual meeting.

MSBA-MSA Joint Committee—Glynne W. Shifflet, chairman, Sidney L. Stolte and Dale R. McEnary.

It shall be the duty of this committee to study mutual problems of the Minnesota School Board Association and the Minnesota Society of Architects.

MACE-MSA Joint Committee—Horace Matson, chairman, Max C. Buetow, Earl P. Fullingim and Louis Pinault.

It shall be the duty of this committee to study matters of mutual interest to architects and consulting engineers.

AID-MSA Joint Committee—Norman Nagle, Frank Kerr and James V. Hirsch.

It shall be the duty of this committee to study matters of mutual interest to architects and interior decorators.

Honor Awards Program—W. Brooks Cavin, chairman, R. V. McCann and Harold F. Hanson.

It shall be the duty of this committee to institute an honor awards program for the Minnesota Society of Architects.

Centennial Observance Committee—G. Clair Armstrong, chairman, Robert Kerr, Cecil Tammen, William Berget, David J. Griswold, Gene Flynn, Rogers George,

(Continued on Page 41)

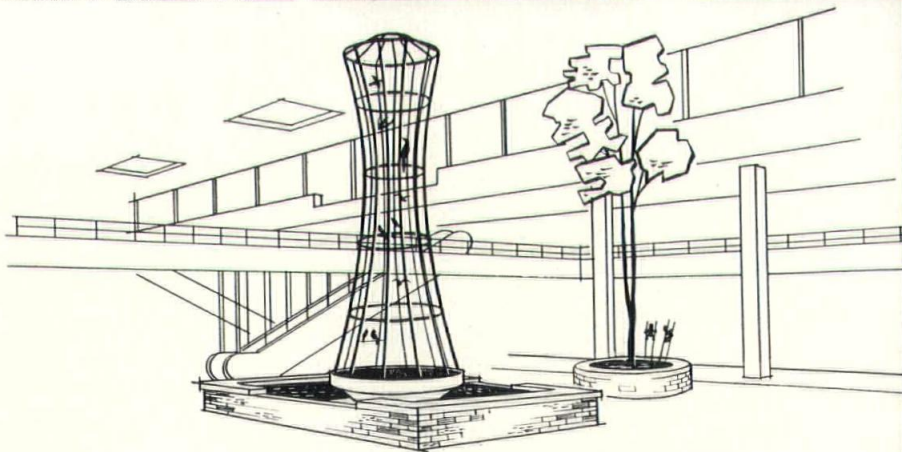
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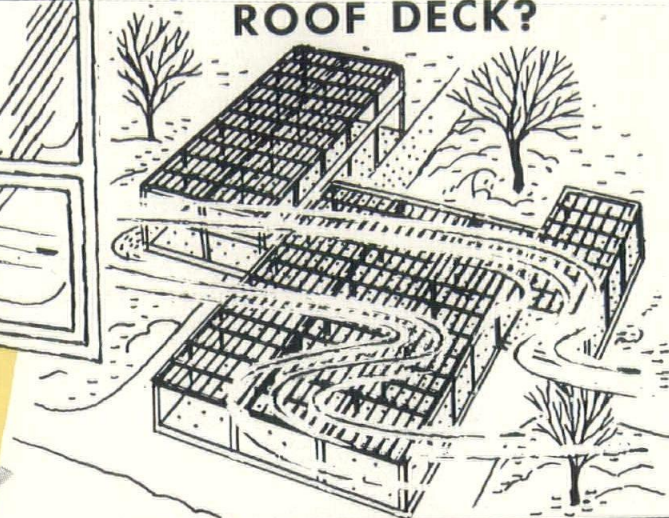
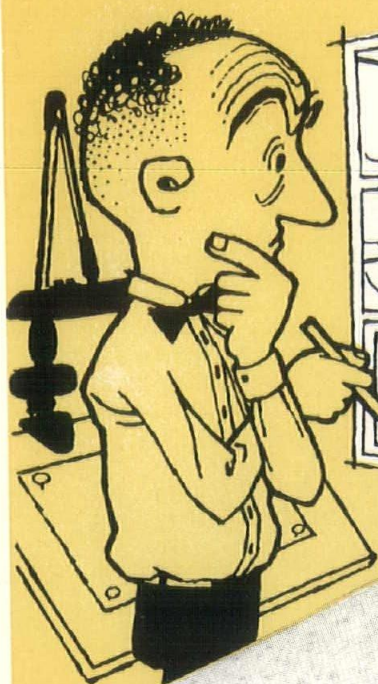


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It shall be the duty of this committee to coordinate the 1957 centennial observances throughout the state and to plan and execute appropriate functions to commemorate the 100th year of AIA.

*Members—National AIA Centennial Observance Committee.

Nominating Committee—Glynne Shifflet, chairman, George Darrell, Sidney L. Stolte, A. Reinhold Melander and R. Richard Cone.

This committee is charged in the by-laws to prepare a slate of nominees for the offices of the society.

Convention Resolutions Committee—A. Reinhold Melander, chairman.

MSA-PC Joint Committee—John Magney, co-chairman, Gordon Comb and William Berget.

It shall be the duty of this committee to study matters of mutual interest to architects and the Producers Council.

MSA-MSPE Joint Committee—Richard P. Hammel, chairman, John Belair, Stowell Leach, Sidney Little, Louis Pinault and Robert Sundt.

It shall be the duty of your committee to study matters of mutual interest to architects and professional engineers.

MSA-MCA Joint Committee—Richard P. Hammel, chairman, John Belair, Stowell Leach, Sidney Little, Louis Pinault and Robert Sundt.

It shall be the duty of this committee to study matters of mutual interest to architects and the mechanical contractors.

MINNEAPOLIS CHAPTER OFFICERS AND COMMITTEES

OFFICERS

President—R. V. McCann

Vice-president—Winston A. Close

Secretary—J. Milton Leadholm

Treasurer—Gene Hickey

Directors—Robert Cerny, John Lindstrom, Bernard J. Hein and Carl Graffunder

(The above constitute the Executive Committee)

State Directors—Edwin W. Kraft and Victor C. Gilbertson

Alternate State

Directors—Wilbur A. Backstrom and Sam B. Mayo

Membership Committee—Sam B. Mayo, chairman, Orrin Field and Eugene E. Hickey.

Architectural Practice—Gerhard Peterson, chairman, Warren W. Kane, Milton Leadholm, Jack Wilwerding and James Bofferding.

Relations with the Construction Industry—K. A. W. Backstrom, chairman, H. N. Fridlund, George Carter, Austin Lange, David J. Griswold, J. Milton Leadholm, Frank Meich and Don Setter.

Committee on Public Relations and Public Information—Cecil Tammen, chairman, Sau Smiley, Curtis

ARCHITECT

Green, Alphonse L. Wegleitner, Earl P. Fullingam, Carl Graffunder, Arnold Hartwig and Joseph Hartman.

Committee on Education and Registration—Ralph Rapson, chairman, Don Heath, co-chairman, Robert Hansen, John Torseth, Roger Patch, Winston Close and Robert Bliss.

Collaboration with Design Profession—Francis Kerr, chairman, Jack Loveless and Dick Frahm.

Committee on Urban Design and Housing—Ralph Rapson, chairman, Donald E. Hustad, Newton Griffith and Stowell D. Leach.

Committee on School Building—Kenneth Backstrom, chairman, John S. Belair, Sam Mayo, Gene Green, Frank W. Jackson, Raymond T. Hermanson and Bruce R. Church.

Committee on Hospitals and Public Health—John Magney, chairman, James B. Hills, Ken Skold, Ralph Shimer and Albert A. Fisher.

Committee on Research—Curtis Green, chairman, Robert Sundt.

Committee on Preservation of Historic Buildings—Executive Committee.

Chapter Affairs Committee—G. Clair Armstrong, chairman.

For Centennial Observance—John L. Lindstrom (member of national committee), Cecil Tammen, co-chairman, David Griswold, treasurer, John Magney, Gene Hickey and Bill Berget.

For National & Regional Affairs Affecting the Chapter—Wilbur H. Tusler, co-chairman, Oscar Lang, Cyrus Y. Bissel, Robert G. Cerny and Dale R. McEnary.

For Chapter Affairs Not Assigned to Standing or Special Committees—Edwin A. Krafft, co-chairman, Albert O. Larson, Francis Meisch, Glynne W. Shifflet and Cecil M. Tammen.

For Chapter Affairs Associated with the University & Student Affairs—Ralph Rapson, co-chairman, Winston Close and Robert Cerny.

Committee for Selection of a Proposed Slate of Officers for 1956-57—G. Clair Armstrong, chairman, W. C. Gilbertson, Wilbur H. Tusler, Edwin A. Krafft, Donald Setter and Roy Thorshov.

ST. PAUL CHAPTER OFFICERS AND COMMITTEES

Chairman—Brooks Cavin

President-elect—Robert Howe

Secretary—Gerald Buetow

Treasurer—William Shannon

Members of Committee—Louis Lundgren, Frank Clark and Larry Hovik.

COMMITTEES

Chapter Affairs—R. Bennighof, chairman, J. R. Corwin, M. Kehne, R. Kerr, G. Townsend, D. Denzer, G.

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Awards and Scholarships—J. Hirsch, chairman, G. Rafferty and E. Lundie.

Public Relations—G. Klein, chairman, C. Berg, R. George, B. Flick and R. Kerr.

Home Building Industry—F. Clark, chairman, F. Gorman, W. J. Witherspoon and E. Draeger.

Collaboration with Design Professions—E. Flynn, chairman, G. Rafferty and W. Mossman.

Community Development—L. Hovik, chairman, K. Peterson, T. Van Hausen and W. J. Estebo.

Preservation of Historic Buildings—E. Lundie, chairman, C. H. Johnston and W. Mossman.

Research—J. Dawson, chairman, R. Cone and C. P. Erickson.

School Buildings—L. Lundgren, chairman, J. Seppanen, R. Sperl and R. Olson.

Hospitals and Health—T. Ellerbe, chairman, P. C. Bettenburg and M. Buetow.

THE SKY LINE

The Drab and the Daring

Aside on New York

From an article by Lewis Mumford

©1956 *The New Yorker Magazine, Inc.*

"The frame of the new forty-five story Socony Mobil Building, on the square bounded by Lexington and Third Avenues and Forty-second and Forty-first Streets, is by now sheathed with patterned panels of stainless steel and one can thus pronounce the only judgment that is relevant to this experiment in the decorative treatment of a metal curtain wall. Aesthetically, this new design is, briefly, a disaster. The designers have stamped the metal panels with two kinds of very bold high-relief ornament. On the vertical panels between the windows they have used a pattern of irregular pyramids; on the spandrels between the floors they have used a smaller rosette of pyramids. Seen close at hand, this sheathing reminds one of nothing so much as the pressed-tin ceilings that were popular fifty years ago in cheap shops and restaurants; in both cases, the effort to make the material in question more rigid by pressing a design into it (a common engineering device) came to grief in the effort to make the material more attractive to the eye. From the street this new building looks as if it were coming down with the measles and this takes away from whatever pleasure the central mass, which has been boldly set back at the fourth floor, can offer.

"That there are better ways of treating this metal plating was demonstrated recently by a handful of metal plaques that were hung along the outer wall of the new Donnell Public Library on West Fifty-third Street, opposite the Museum of Modern Art, so that the tenants of an office building to be erected in the neighborhood could express their architectural preferences. The best of these plaques was a flat surface broken by nothing more than rows of raised cubes; the severe contrast of light and shadow this pattern produced was consonant with the nature of the material and yet served its structural function of making the thin plate more rigid. Any departure from this crisp geometric order is a mockery of this method of decoration. The one definite requirement for stamped

metal is that it must not attempt to be ornamental—in the sense of being fanciful. If the designers and manufacturers who favor metal sheathing do not realize this they will discredit the method and material they are pushing so hard. . . ."

AIA-PC COMMITTEE FAVORS JOINT INFORMATIONAL MEETINGS

A recommendation that local AIA chapters join with Producers Council members in holding meetings for presentation of information of mutual interest as in air conditioning, construction developments, etc., came out of the first 1956-57 meeting of the Joint AIA-PC Committee.

Guest speakers would be provided for these meetings to present their special fields' newest developments and answer questions of those attending. The speakers would be drawn from among leaders in the various construction industries. In line with this idea the Producers Council is going to provide a speaker at the state society convention, probably someone from the national PC headquarters.

Co-chairmen John Magney of AIA and James Coulter of PC, AIA members William Berget and Gordon Combs, PC members Duff Longtin and Clinton Fladland, Minnesota Society of Architects Executive Secretary James Fenelon and PC President Jack Bissell were present at the meeting.

ARCHITECTURAL DRAFTING TEACHERS NEEDED

Teachers for an architectural drafting program at Ferris Institute in Big Rapids, Michigan, are badly needed, according to word from Jon P. Adams, dean of the trade and industrial division there. Qualifications desired include graduation from a school of architecture and practical experience in an architect's office, though one or the other may be waived.

If there are among our readers any interested in these openings, he should contact Mr. Adams. Salaries quoted range from \$5,500 to a possible \$7,150.

"I am sure you will be interested to know that we have had quite close contact with the Michigan Society of Architects," Mr. Adams said, "and the architectural instructors in the past have belonged to AIA."

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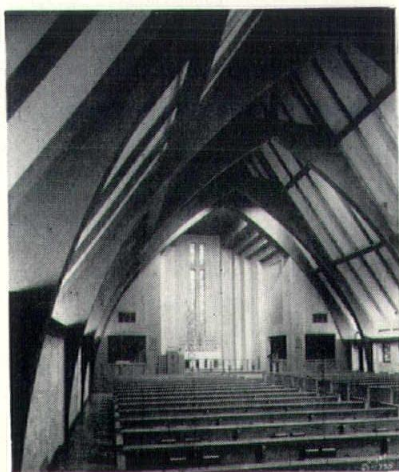
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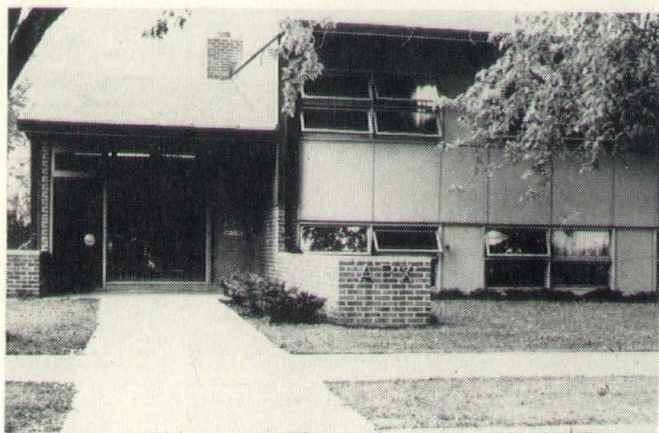
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NORTHWEST

Minnesota APX Chapter Is Host to National



By Vernon E. Knutson

Attention is again being focused architecturally on Minneapolis as delegates and officers of Alpha Rho Chi, national architect's fraternity, make final plans for their biennial national convention to be held in their local chapter house located near the University of Minnesota campus at 605 Ontario St. S.E., Minneapolis.

December 27 is the opening date of the three-day meet which is the silver jubilee convention of the fraternity. The local chapter, as host, will welcome fraternity brothers to Minnesota for the first time since the early 1930's.

Alpha Rho Chi, limiting its membership to students of architecture and the allied professions, was founded in 1914 by the union of architectural societies at the Universities of Michigan and Illinois and today has student chapters at the schools of architecture in Ohio State University, Pennsylvania State University and the universities of Virginia, Michigan, Illinois, Southern California and Minnesota.

The objects of this group are to organize and unite in fellowship the architectural students in the universities and colleges of America and to combine their efforts so as to promote the artistic, scientific and practical efficiency of the younger members of the profession. With this in mind, the members of the local chapter, named for the Greek architect Mnesicles, have scheduled for the delegates and officers of the fraternity a meeting profitable to them both personally and organizationally.

The main event for all will be the traditional conventional banquet to be held the evening of December 29 in the Calhoun Beach Hotel. The guest of honor and main address speaker of the evening will be R. Buckminster Fuller, world renowned designer-architect-engineer, who is an honorary brother of the Mnesicles group. "Bucky," as he is affectionately known to the



The Alpha Rho Chi house is shown at the left. Above Vern Knutson studies plans for the convention in the lounge of the chapter house.

profession, is a resident of the chapter house during his teaching periods at the University of Minnesota School of Architecture. He has been guest lecturer at the school several times during the past three years.

Other highlights of the conclave will be seven general sessions, a design forum for students and delegates. The delegates will be treated to a "Minnesota Christmas Open House," complete with skating on a landscaped and color-lighted skating rink in the backyard of the house. A big Christmas tree in the main lounge, with plenty of "Christmas Cheer," will complete and complement the event.

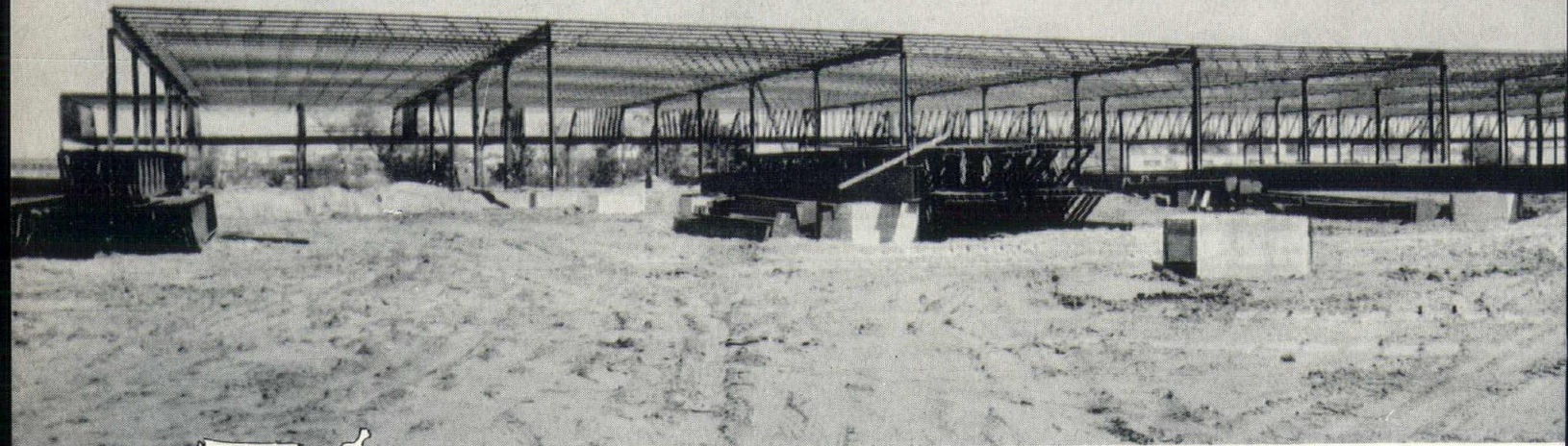
The Mnesicles group hopes to share with the convention-goers their enthusiasm of the newest fraternity building of Alpha Rho Chi, first occupied in January, 1953. Designed by APX alumni and coordinated through the office of Glynne Shifflett, past president of the Minnesota Society of Architects, the brick and

(Continued on Page 57)

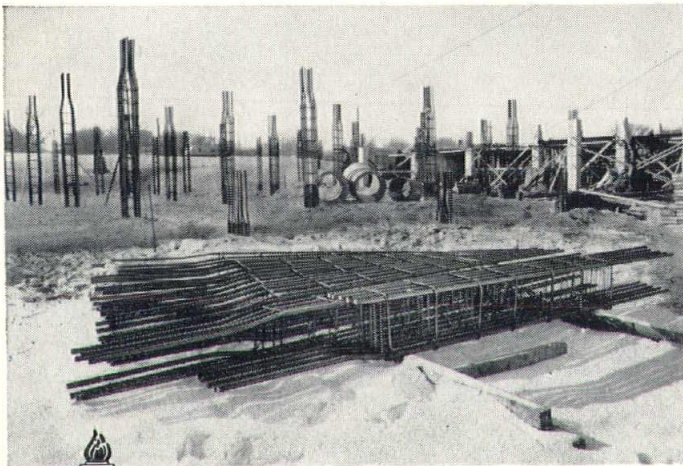


Housecleaning began early—left to right are Art McClure, Bob Peters (on balcony), Don Garvue, Duane Johnson and Bill Moser, all students.

the Northwest Builds with



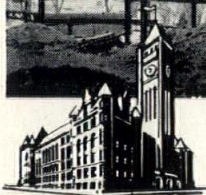
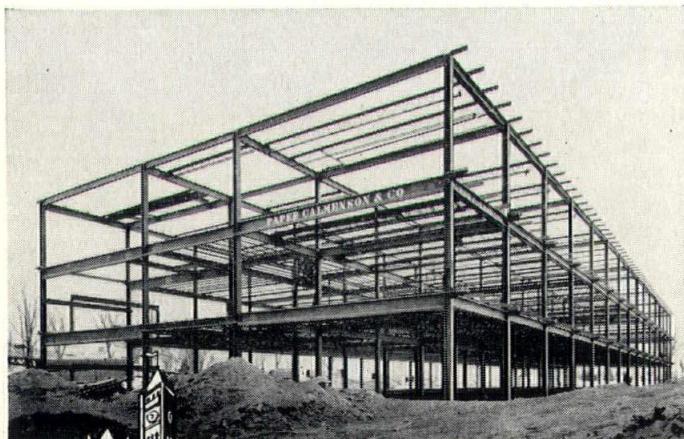
COAST TO COAST STORES—Warehouse, St. Louis Park, Minn.—*Architect: A. Epstein & Sons, Inc.—*
Contractor: D'Arcy Leck Construction Co.—Erector: American Bridge Co.,
Structural, Reinforcing and Joists.



STANDARD OIL CO. (Indiana)—Office Building,
Golden Valley, Minn.—*Contractor: Naugle-Lect, Inc.*
—Erector: Holman Erection Co., Reinforcing Steel



STATE FARM INSURANCE CO.—Roseville, Minn.—
Architect: Ellerbe & Co.—Contractor: E. M. Ganley
Co., Inc.—Erector: Midwest Erectors, Inc., Structural
and Joists.

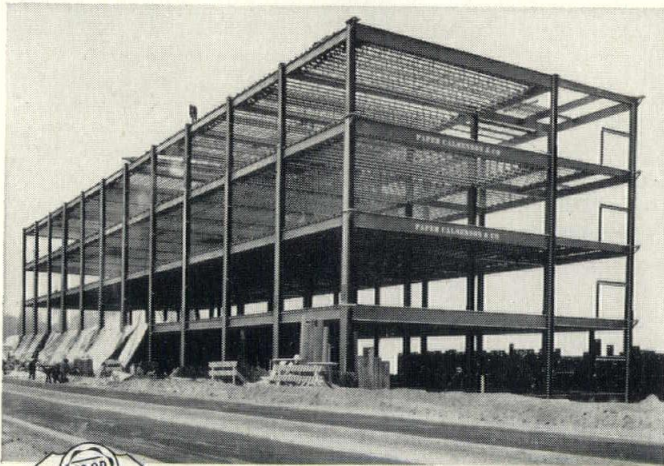
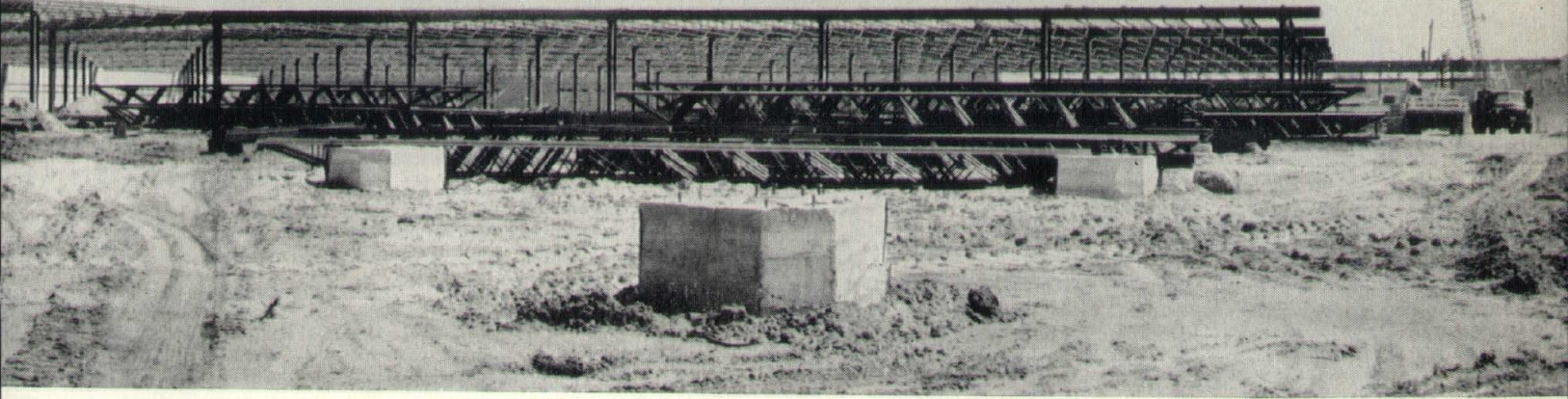


NORTHEAST HIGH SCHOOL—Minneapolis, Minn.
Architect: Thorshov & Cerny, Inc.—Contractor: Wat-
son Construction Co.—Erector: Waylander & Peter-
son, Structural, Reinforcing and Steel Decking.

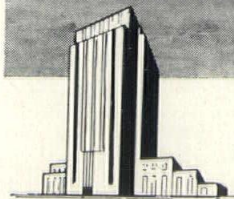
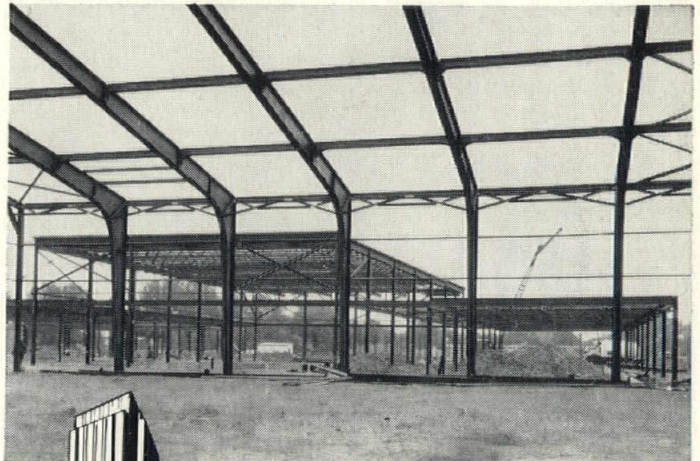


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COMO PARK JUNIOR HIGH SCHOOL—St. Paul, Minn.—*Architect:* Haarstick, Lundgren & Assoc.—*Contractor:* Hagstrom Construction Co.—*Erector:* Midwest Erectors, Inc., Structural.

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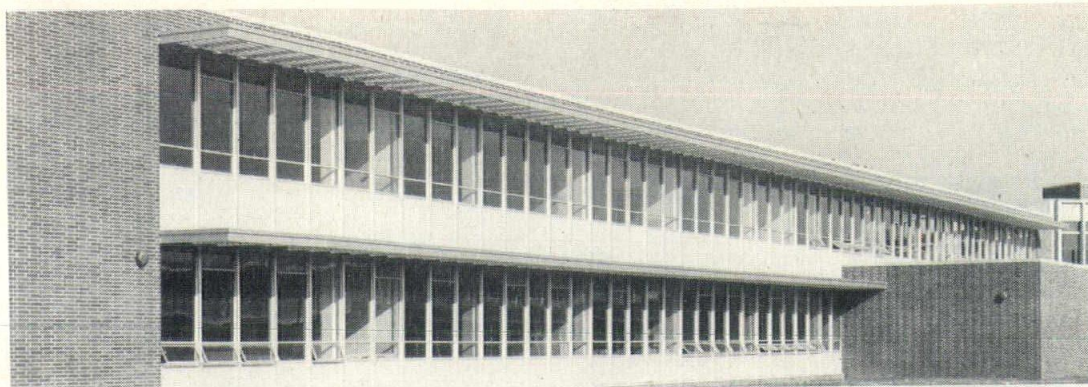
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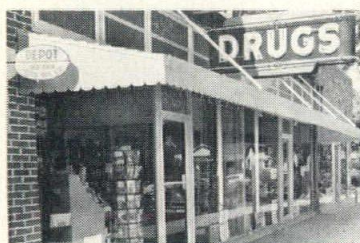
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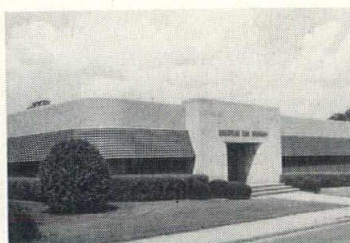


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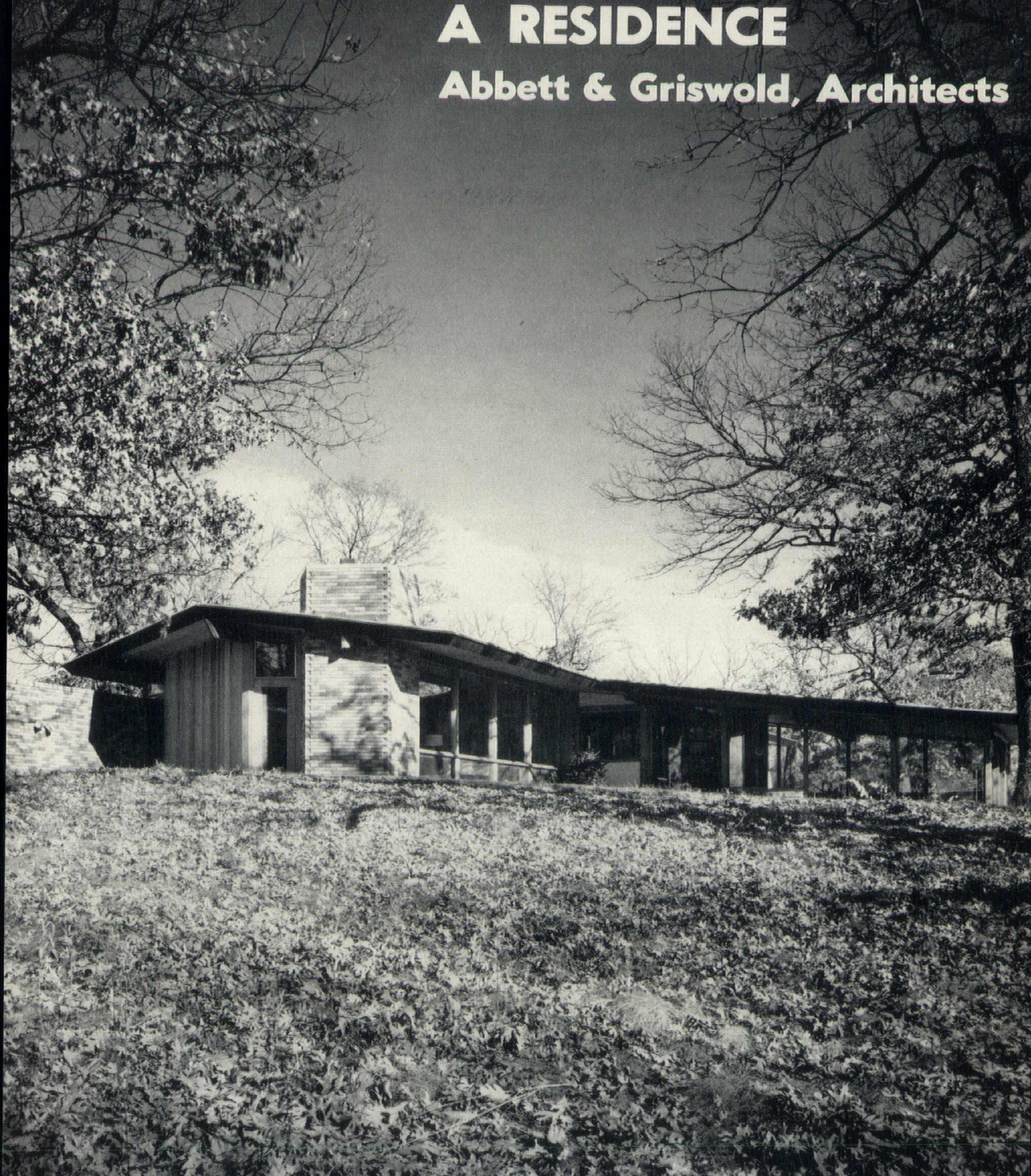
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A RESIDENCE

Abbett & Griswold, Architects





The Development of this House

By David Griswold, A.I.A.

Architects: Abbett & Griswold

Designed in Charge: Richard Vosejпка

**Location: Dellwood, White Bear Lake,
Minn.**

Contractor: Kenneth M. Beebe, Mahtomedi

Heating: The Snelling Co., St. Paul

Electrical: A. W. Berggren, St. Paul

Plumbing: Interstate Plumbing Co., St. Paul

**Millwork and Windows: A. T. Rydell, Inc., Minne-
apolis**

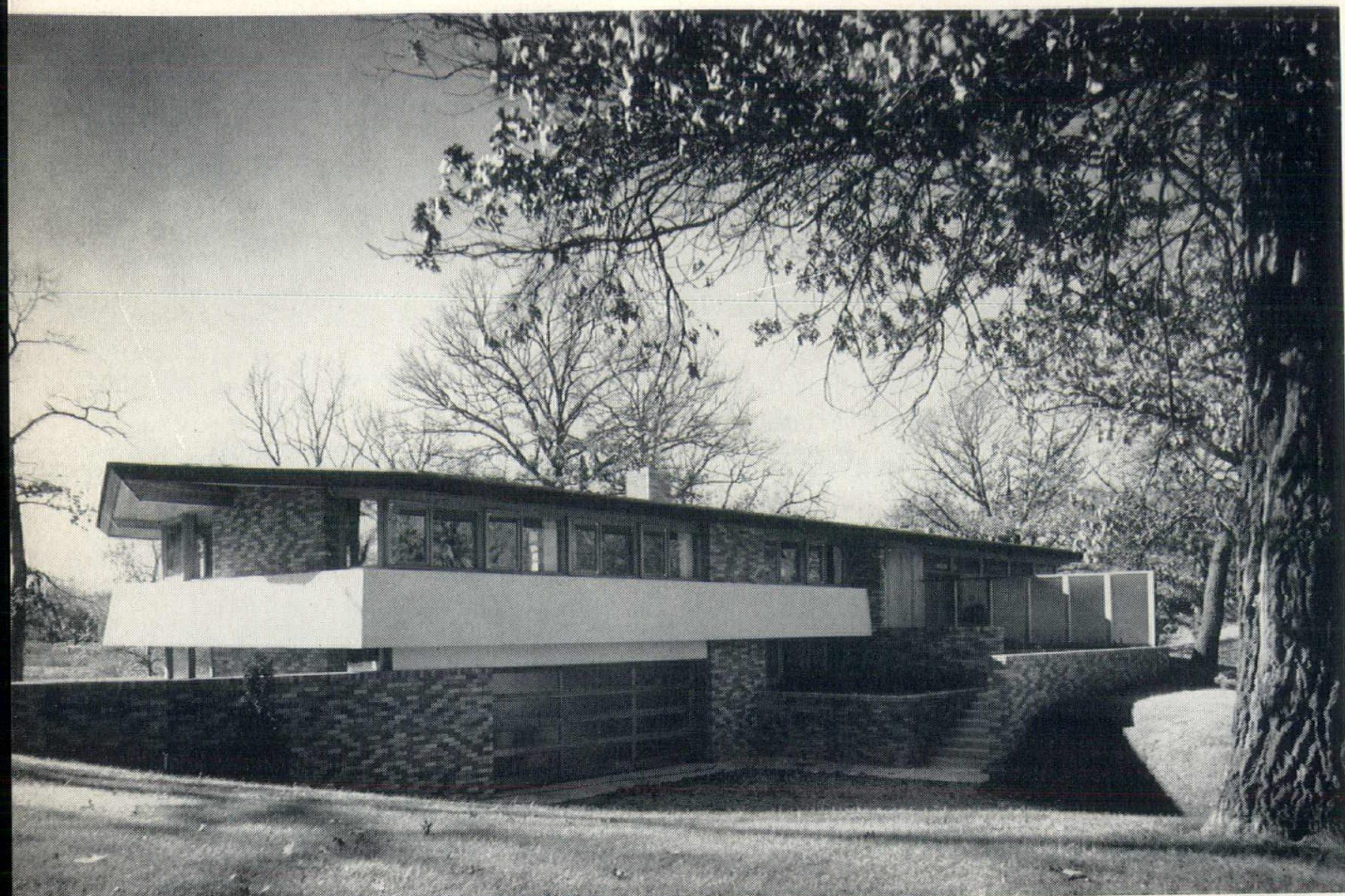
The program for this building considered the design of a house for single adult occupancy, suitable for year-round use but, for the present, primarily in the spring, summer and fall. The owner desired a house that would accept much entertaining of friends, children and grandchildren and at the same time be easy to maintain and operate without servants. In the future was the consideration of accommodating a housekeeper on a permanent basis.

In consideration of the program a plan was developed to provide good sized spaces for entertaining and at the same time the intimacy of smaller rooms for day-to-day living. A desire for privacy in the personal spaces dictated the arrangement of levels that established the bedroom wing with the study and master bedroom on a half level above grade. The topography of the site made this plan a very logical development. The views and exposures determined the orientation of the various spaces and the location of the house on the one-and-one-half-acre site.

The building was designed to a 3' x 6' module and with recognition of stock window and glass units. Very little conventional structure was used. Post and beam principles were followed and much of the masonry work was cavity wall. Basic materials were brick and wood, with a limited use of plaster, plaster board and wall coverings. Floors on grade are concrete and above grade are carpeted over rough structure. Certain floor areas on grade are covered with a composition tile.

Walls are of brick, wood, glass or plaster board and ceilings throughout are of wood. Bathrooms are finished with ceramic tile floors and ceramic tile and wood walls. The heating system is forced air with provisions for air conditioning. Slabs on grade have perimeter ductwork.

Facing Page: View of living room
and formal dining area taken from
the fireplace corner.



View from the northeast, showing bedroom wing and entrance court. Formal entrance is at right, shielded by a translucent divider.

A striking addition to the groups of fine homes around White Bear Lake, Minnesota, is this unusual residence by a team of young architects which has been producing some noteworthy architecture recently. Although Abbett & Griswold is a new and vigorously growing firm, members have already evolved a style which carries a definite stamp of originality, a distinctive appearance which is characteristic of this firm. This style neither blindly follows conventional practices nor apes the work of acknowledged great architects. It results from a studied approach to each problem as firm mem-

bers seek to produce a fresh solution.

Credited with the residence shown here is a young designer, Richard Vosejпка, who reportedly is being given big assignments early in his career, early even in this firm where the average age is about thirty. Like that of his associates, his schooling has been in modern architecture. From the original renderings to final execution this residence reflects much seeking for a truly creative approach. In a firm where creative talent has few limitations placed upon it, unhampered designs like this one are the natural result.





View from the southeast, showing the porch and bedroom wing with basement below.



Bricks of varying color, used on both the interior and exterior of this residence, create a vivacious pattern. Supplied by the Twin City Brick Company, their textural pattern was considered in selection as well as their colors. A laminated ridge beam by Rilco Company extends the length of the house and is exposed and finished naturally.

Large glass areas are important to the design of this house and it was desired that window availability should not force compromises in or stifle the design of the residence. This problem was solved by specifying

standard and custom-made window units by A. T. Rydell, Inc., to be manufactured of tidewater red cypress. Ceiling and wall paneling and other custom millwork items were also fabricated in this material by Rydell.

A floor-to-ceiling glass sliding panel separates the kitchen from the porch, allows for excellent ventilation and provides a convenient pass-through for service when entertaining or dining on the porch. Ceramic tile walls and floors were supplied by Twin City Tile and Marble Company.

Plan Key

- | | |
|-----------------------|--------------------------|
| 1. Living Room | 7. Master Bedroom |
| 2. Formal Dining Area | 8. Master Bathroom |
| 3. Entry | 9. Guest Bathroom |
| 4. Kitchen | 10. Informal Dining Area |
| 5. Study—Bedroom | 11. Porch |
| 6. Guest Bedroom | |
-

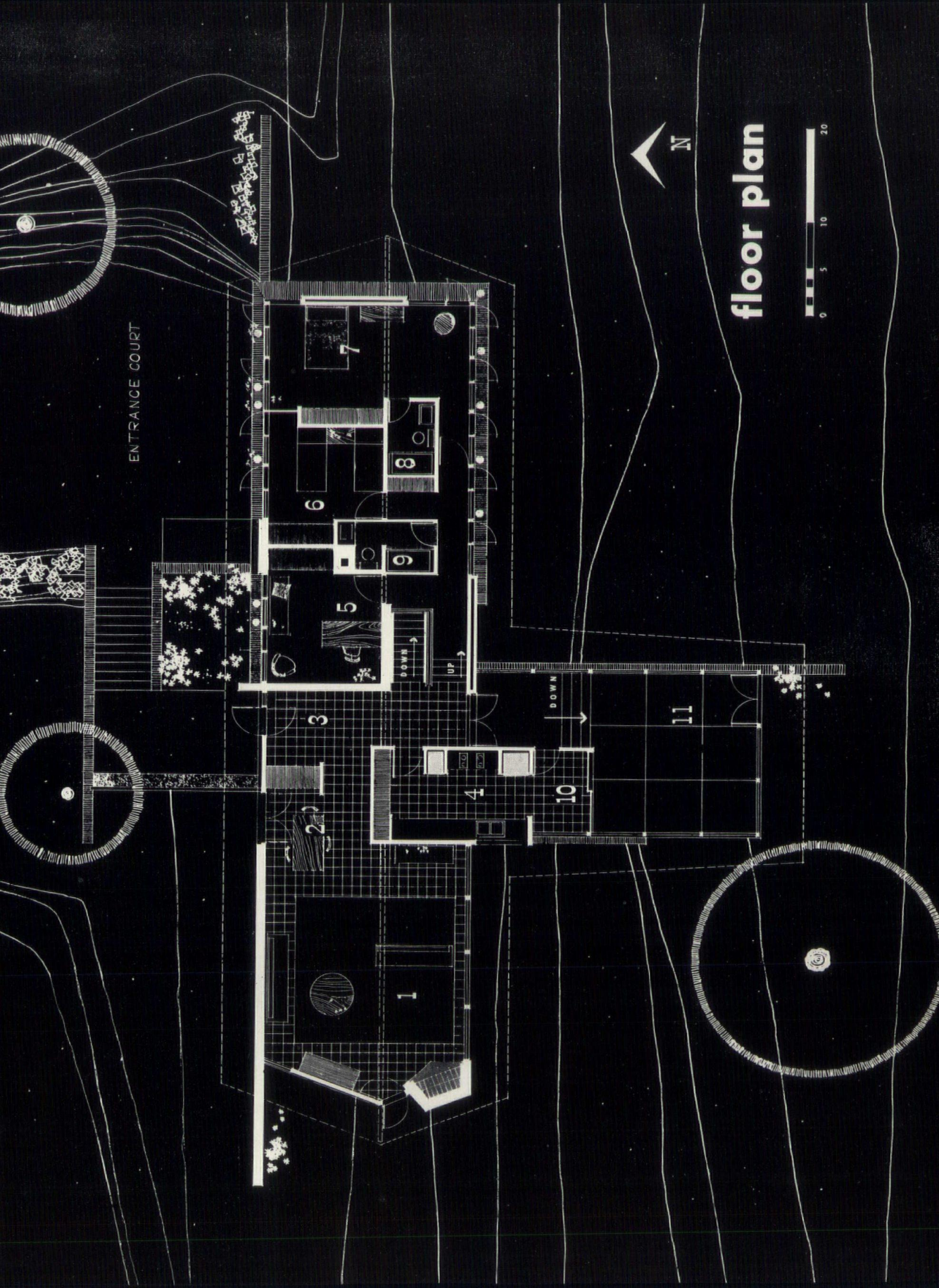
This structure was developed in plan with reference to an outstanding site that offered interesting topography and the opportunity to capitalize on both distant and close-in views. The house lies on top of and parallel with a natural ridge that extends the width of the property, east to west. Access is by a service road at the bottom of the ridge on the north side that also serves adjacent property to the east. This road leads to a cross road that forms the west boundary of the site. The south boundary is formed by adjacent property lying well below the ridge line. Views are excellent in all directions but primarily to the southwest, south

and southeast. The outlook to the south is particularly good for it offers glimpses of White Bear Lake some three blocks distant.

The service road leads to an entrance court at the road level, which is also the basement level that extends under the bedroom wing. In this basement is a two-car garage and a service room containing the mechanical equipment and laundry facilities. Formal access to the house is by a flight of steps up the side of the ridge to the first floor level. Service access is by this same route or by the personal entrance through the garage to the stairhall and thus the first floor.



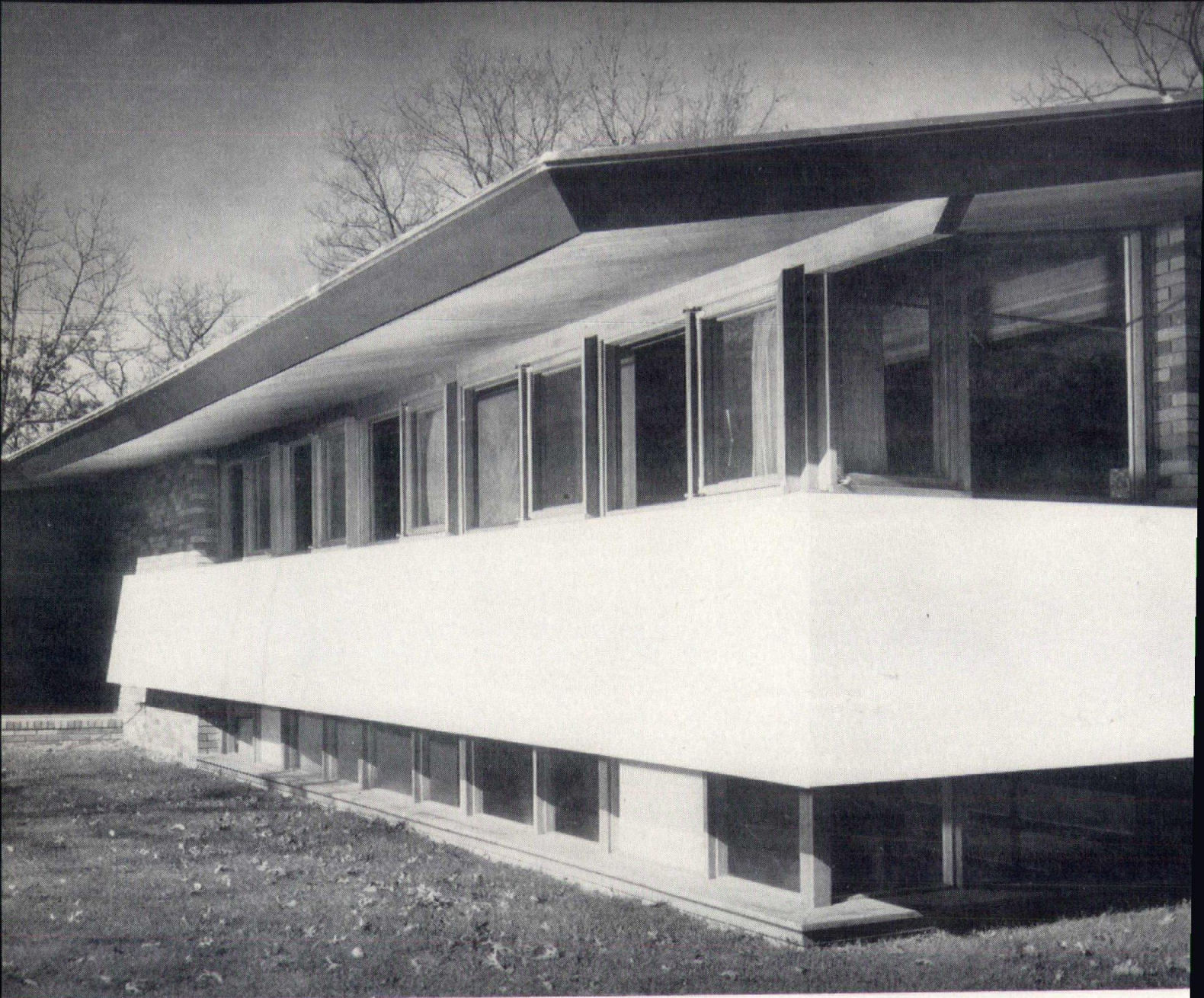
View through the kitchen looking out onto the porch.



ENTRANCE COURT

floor plan





Architects: Abbett & Griswold

Location: White Bear Lake, Minn.

Three exclusive reasons why the architects specified

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- Rydell's drafting department worked closely with the architects in producing working and installation drawings for standard and custom-built windows which faithfully carried out the architect's intention—NO OTHER CASEMENT offers this individualized service.
- Rydell produced custom adaptations of this casement window unit, even to the operating angle-head window conforming to the roof slope (visible at the right above)—NO OTHER MANUFACTURER offers such custom adaptations.
- Rydell manufactured these casements of tidewater red cypress in response to the architects wishes—NO OTHER CASEMENT offers this alternate.

But aside from that—it's the finest casement made at any price!

This house is featured in an article on pages 49 to 55 of this issue.

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NORTHWEST

frame contemporary structure contains dormitory and study facilities, kitchen, lounge and a chapter room.

The students and convention officers will tour the School of Architecture, where they will see an exhibit

of student APX work from throughout the nation, and visit selected local buildings. The chairmen for the meeting, beside national president Robert Calrow, are Orrin D. Field, Mnesicles alumni association president, and Robert W. Peters, president of the local chapter. Information on the convention is available from them.

Fuller's Earth

Bucky's Minnesota Project

By Terance Marolt and V. E. Knutson

R. Buckminster Fuller, world-recognized comprehensive anticipatory design scientist, was at the University of Minnesota's School of Architecture in November for three weeks of lectures and conferences. Result was a tentative plan for a scale model of the earth on the Minnesota campus.

In May 1952, with the assistance of Cornell students, Bucky designed and built a 20-foot miniature earth on the roof of Cornell University's electrical engineering building in Ithaca, New York. In the course of that project he confirmed his earlier conviction that a direct linkage with basic long-distance remote flight control systems could be developed through fundamental coordination of world triangulation with a large, triangular, geodesic globe.

Bucky is now launched upon a similar project which is a three-year program, inaugurated in November, 1954, at the University of Minnesota's School of Architecture, in association with approximately thirty students coordinated by George Ah Tou. If completed, this project would produce and install on the University of Minnesota's Minneapolis campus a one-millionth-scaled model of the earth. The one-millionth scale was chosen because it is the one long since selected by a world-around convention of geographers as the international standard for detailing local areas in a coordinated plan to map the entire world.

The shape of the Twin Cities and their major details would be clearly outlined in a circular pattern of approximately one-and-a-half inches diameter. In its final form the Minni-Earth would be a scientific instrument upon the spherical surface of which important information concerning world scientific developments could be integrated, possibly by computing machine actuation.

Mr. Fuller dreams of a globe finished in time for the geophysical year 1957, when 40 countries will present scientific projects which can be illustrated on the open framework of the globe with neon tubing and colored lights. He is still entirely optimistic about the problem; however, completion of such a huge structure depends on getting a patron to finance the project.

The outer sphere of the geodesic globe would contain 2,160 triangular openings; its diameter would be 40 feet, approximately the size of one-millionth Earth. Investigation is being made as to the possibility of mount-

ing the four-story-high globe above the roof of Coffman Memorial Union, or some such suitable place.

Minni-Earth would have an access stairway leading in through the lonely vastness of its 500-square-foot Indian Ocean. The stairway would lead to an observation platform at the approximate center of Minni-Earth. Upon this platform would be mounted simple instruments for accurate positioning of the observer's eye at true center of Minni-Earth. This follows the operating precedent successfully established for the 1952, 20-foot miniature earth of Cornell University.

By a succession of experiences from the platform inside the globe an observer in Minni-Earth would become confident of the reliability of his continuing observations and resulting sense of cosmic orientation and celestial behavior to a degree that had never before seemed able to be on Parent Earth. He would learn to *feel* that Minni-Earth is truly a very small—but very real—Siamese twin planet of Parent Earth, behaving in the very real universe exactly as does its giant twin. But there is a difference, since the inhabitants at the center of Minni-Earth would have rational vision of celestial phenomena, regarding which the inhabitants of earth itself are partially blind.

Minni-Earth would thus come to constitute what might be classified both scientifically and popularly as a *true planet-arium*. One would feel that he were in the center of a transparent real earth, free to envision the true relationship between the earth and the celestial bodies.

Wide acceptance of Mr. Fuller's ideas is constantly gaining momentum. He has produced the Dymaxion three-wheeled car, the house suspended on a pole and the lightweight geodesic dome. He holds the only U. S. patent for a new kind of map projection.

Mr. Fuller's designs' success were illustrated three years ago in the enclosing of the court of the Ford Rotunda in Dearborn, Michigan, with a clearspan, translucent geodesic dome 1/29th the weight of conventional solutions and in later providing unprecedentedly lightweight, air-deliverable structures for the U. S. Marine Corps' most rigorous uses. These inspired the Brooklyn Dodgers to ask him recently to study the suitability of using geodesic structures for a new stadium. Such a structure would have more than twice the 365-foot diameter of the largest clearspan construction ever completed, Great Britain's temporary Dome of

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Discovery at the Festival of Britain in 1951, and would weigh approximately 1,000,000 pounds.

Fuller's whole philosophy of design is to ignore the hampering forms of traditional things and start fresh to seek original solutions for the needs of people. In his lectures to students he tries to instill in them his principle that designers should do work that has never been done before, not just work over the old designs.

Mr. Fuller has lectured at M.I.T., Yale, Tulane, University of Michigan, Washington University, Oregon, North Carolina State, Princeton and Cornell in addition to the University of Minnesota and has received honorary degrees from the University of Michigan and North Carolina State College.

FOOTNOTE ON A THOUGHT

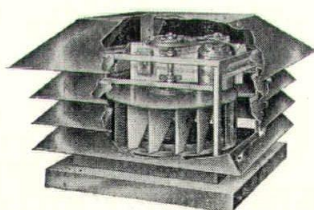
We're not editorially drumming up for anything but do want to drop in this thought as a footnote. Bucky's work is well known and has produced results. We have huge give-away programs on TV sponsored by all sorts of companies. Are there among this area's business or other organizations some sponsors who might like to give the Minni-Earth a lift to reality? Could be. We had some responses to our freeway presentation. How about some response in thought—or cash, maybe?—to this story of the Minnesota-Fuller project. The model earth would be a thing worth talking about, touristwise and otherwise, and it surely would have technical value. Hmmm . . . if you react, why not let the boys interested know, care of Mr. Ah Tou? . . . The Editors.

PALUS JOINS BAKER & ASSOCIATES

J. T. Baker and Associate Engineers, St. Paul consulting firm, has announced appointment of Raymond J. Palus as an associate and head of the electrical department. Mr. Palus has been employed by the Bureau of Reclamation as an electrical design engineer at Billings, Mont., for four years and the past three years was with Northern States Power Company in Red Wing, Minn., in the commercial light and power sales department.

"Mr. Palus brings to the firm a varied experience in

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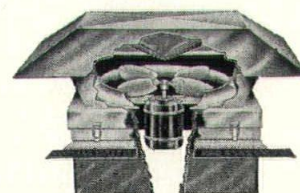
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design, layout, lighting and power applications," the announcement said. "He is a registered professional engineer in the State of Minnesota and obtained a B.S.E.E. degree in 1949 from the University of Wyoming."

MSA WANTS TO KNOW WHO YOU ARE

In order to promote better public relations through magazines, newspapers and radio and television stations a biographical form is being sent to all members of the Minnesota Society of Architects. This information will be kept in the files of the society and will be a handy source of information when any member is "in the news." Several of the large newspapers that were contacted were very happy that this type of service would be made available for their use.

As of the date of the publication of this magazine the biographical form has been mailed to all members of the Minnesota Society of Architects. Would you complete this form as quickly as possible and return it to the Minnesota Society of Architects' office, 3416 University Avenue S.E., Minneapolis 14, Minnesota. Please be accurate and complete all the blanks, adding any additional information which you may feel is important.

ERRATA

Regrettably, in our last issue a source of information caused an error in our story about the Delano Granite Industries. Donald Gilmer is the new president of the company, succeeding his father, Bert Gilmer. Among the officers, John Tulkki is the treasurer. We regret their names were misspelled.

MICHIGAN ARCHITECTURE SCHOOL OBSERVES 50th ANNIVERSARY

The golden jubilee anniversary of the University of Michigan's College of Architecture and Design was observed in Ann Arbor late in October, with about 500 of the school's graduates attending.

A native of Minnesota, Dean John E. Burchard of MIT, and Clair W. Ditchy, past president of AIA, were given honorary degrees during the celebration.



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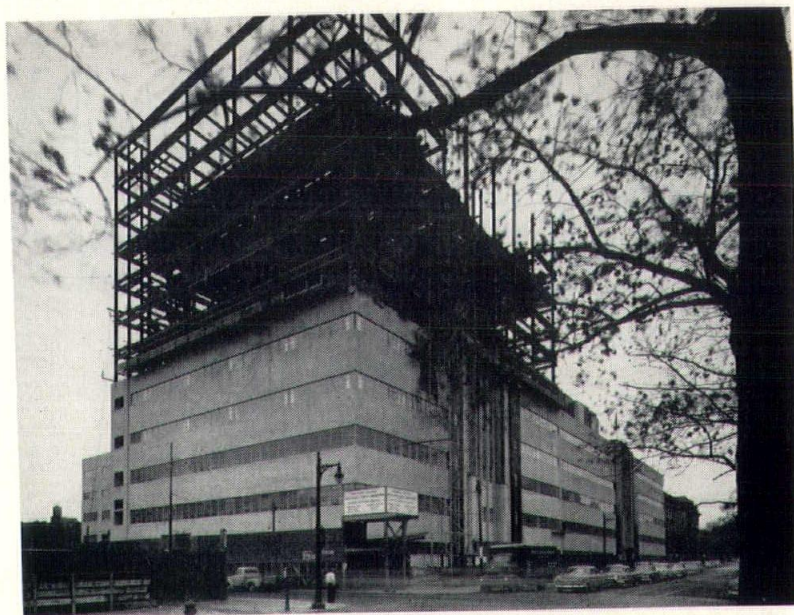
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NORTHWEST

North Dakota News

North Dakotans are (top, l-r around table) Ed Staszko, Leander Ross, Bill Seifert, Knute Henning, Robert Kennedy (behind), Harold Brunner, Ted Wells, Harold Bechtel, Marius Houkom, Robert Ritterbush, Harry Hoeffel, Walter Johnson, Alvin Anderson, Jack Askew, Paul Gross and Art Ulvestad and (ahead) Herman Skaret, James DeLoi and Gilbert Horton.



Center are Pres. Harry Hoeffel, Vice-president Robert Ritterbush, Sec.-Treas. Gilbert Horton and Directors Walter Johnson, Robert Kennedy and Harold Brunner.

Bottom are Harold Brunner, Jack Askew, Walter Johnson, Leander Ross, Kenneth Johnson, Ted Wells, Robert Ritterbush, Harold Bechtel (in front), John Misner, J. Ralston, Paul Roel, Charles Hoffman, Vince Buck, Bud Hoeffel and Gilbert Horton (front).

NORTH DAKOTA CHAPTER ELECTS

The North Dakota Chapter of the American Institute of Architects elected two new officers at its annual meeting held in Fargo this fall.

Elected treasurer was Walter T. Johnson of Fargo and named as a director was Gilbert R. Horton of Jamestown. Re-elected vice-president was Myron Denbrook of Grand Forks. Officers in posts not up for election this year were Harold C. Bruner, Minot, president; Leander Ross, Minot, director; and Herman Skaret, Fargo, secretary.

At the annual banquet members and their wives were greeted by Jack Bissell, president of the Minneapolis Chapter of the Producers Council, on behalf of the council, which organization sponsored a pre-banquet cocktail hour.

Principal speaker of the evening was Bryant Hadley, regional director of the North Central States district for the AIA. He addressed the group on the "community structure of the American Institute at a chapter level."

Harold Spitznagel of Sioux Falls, regional public relations representative for the national group, and C. L. Hoffman, manager of the Associated General Contractors of North Dakota, spoke to the delegates in the afternoon.

Fargo has been designated as the location for the spring meeting, which will coincide with the centennial observance of the AIA.

NORTH DAKOTA COMMITTEES NAMED BY PRESIDENT BRUNNER

President Harold Brunner of the North Dakota Chapter, AIA, has made the following standing committee appointments.

Membership Committee—Theodore B. Wells, chairman, Robert Kennedy, John Tscherne and Glenn Iverson.

Committee on Practice—Gilbert R. Horton, chairman, Gilbert E. Horton and Loran Huber.

Advancement of the Profession—Gilbert E. Horton, chairman, Gilbert R. Horton and Loran Huber.

Relations with the Construction Industry—Harry Hoeffel, chairman, Leander Ross, Walter Bohrer, Ira Rush and Richard Thorson.

Collaboration with the Design Professions—Leander Ross, chairman, Harry Hoeffel, Ira Rush, Leslie Blake and Walter Bohrer.

Committee on Research—Walter Bohrer, chairman, Harry Hoeffel and Leander Ross.

Public Relations—Jack Askew, chairman, Herman Leonhard, Robert Ritterbush and Leroy Hanson.

Committee on School Buildings—Herman Leonhard, chairman, Jack Askew and Robert Ritterbush.

Hospitals and Health—Robert Ritterbush, chairman,

Jack Askew and Herman Leonhard.

Education and Registration—Knute Henning, chairman, Walter Johnsen, George Ritter, Robert Kramer, Richard Elken and Victor Prassel.

Committee on Awards—Walter Johnsen, chairman, Knute Henning, George Rutter and Irvin Holman.

Committee on Urban Design—Kenneth Johnson, chairman, Jack Kurke, Henry DuBe, W. J. Seifert and Magnus Foss, Jr.

Home Building Industry—Ed Staszko, chairman, Magnus Geston and Cyril Stadsvold.

Chapter Affairs—Myron Denbrook, chairman, William Harrie, Orton Bjore and Kenneth Howe.

Centennial Observance—Paul Grosz, chairman, Lawrence Wagner, Eugene Harrie, Roy Sather and Harold Henning.

Preservation of Historic Buildings—Robert Ritterbush, chairman (Bismarck area), Harold Jenkinson (Fargo area), Theodore Wells (Grand Forks area), Gilbert R. Horton (Jamestown area) and Walter Bohrer (Minot area).

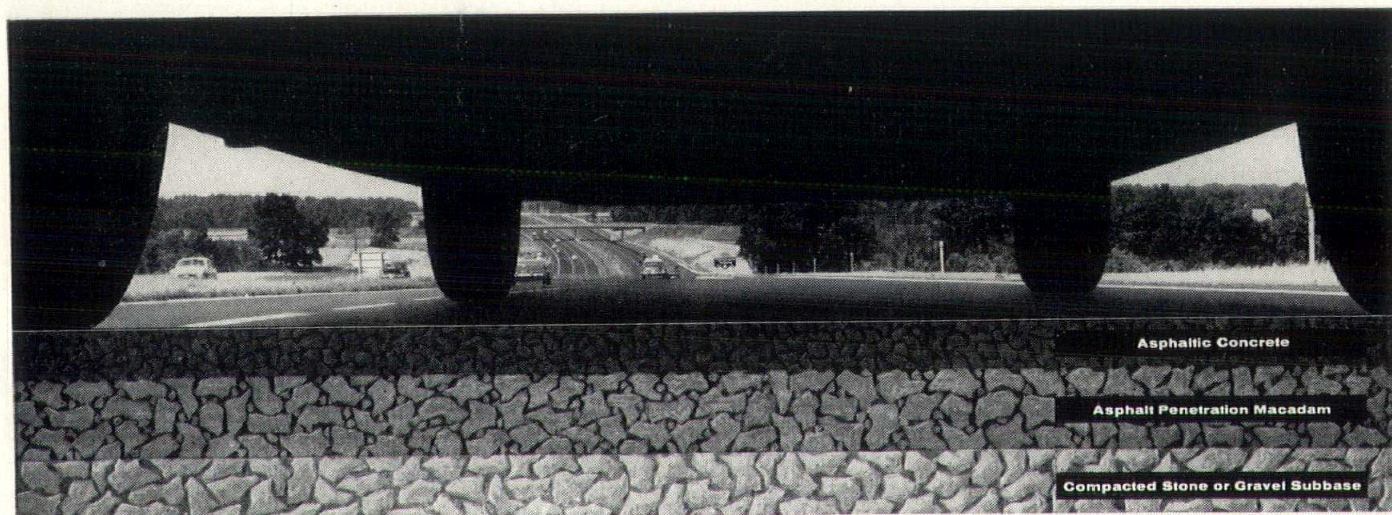
NORTH DAKOTA AG COLLEGE GETS PAINT SCHOLARSHIP

A graduate work scholarship in paint technology has been established at the North Dakota Agricultural College in Fargo by Sherwin-Williams Co., and the current recipient of the award is Wendell Gillund, graduate of the Valley City Teachers College. The awards are restricted to S-W employees.

SULLIVAN EXHIBIT SCHEDULED AT MINNEAPOLIS INSTITUTE

The Louis Sullivan exhibit will be on display in Minneapolis at the Institute of Arts from January 9 to February 24, 1957. The MSA centennial celebration falls on February 23, which will enable those planning to attend the centennial to plan to see the Sullivan show during the same day.

Sullivan is much in the architectural news these days and his contributions to the early development of the skyscraper are being re-recognized. The University of Minnesota Press this fall published an outstanding



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volume of pictures and quotations dealing with his work.

The exhibit marks the 100 anniversary of the birth of Sullivan in Chicago and salutes him as one of the chief creative thinkers and doers of the past century.

ROBERT KERR IN GOVERNOR'S CONFERENCE ON AGING PROGRAM

Robert H. Kerr of Ellerbe & Co., St. Paul, was the summarizer for the workshop on "Independent Dwelling Units—Problems and Prospects" during the Governor's Conference on Aging in Minneapolis on November 26 and 27. B. W. Shippee, housing and redevelopment director for St. Paul, was chairman of the workshop, as he was of the one on "Group Housing—Design, Financing and Sponsorship."

Architects are taking a very active interest in developments of programs for care of the aging population as it becomes a larger portion of our entire population and the NORTHWEST ARCHITECT had the honor of

presenting one of the first complete housing studies of this nature in our March-April issue of this year, which was so widely noted. The issue is now out of print.

HAARSTICK, LUNDGREN SET UP PROFIT SHARING TRUST

A profit sharing trust for all personnel at Haarstick, Lundgren and Associates Inc., St. Paul architects and engineers, has been approved to become effective for the fiscal year ending in 1956, according to Donald S. Haarstick, vice-president and secretary of the firm.

All current personnel who were with the firm prior to last June 1, will share in the profits realized from the 1955-56 fiscal year, Mr. Haarstick said. The trust is designed to help provide retirement benefits, investment opportunities and emergency funds for members of the firm. The First Trust Company of St. Paul is the corporate trustee of the plan.

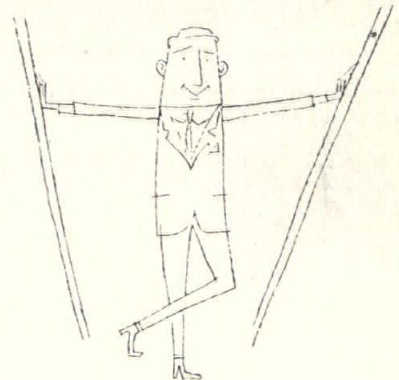
"This program was adopted in view of the rapid growth of the firm since its founding in 1949," the an-

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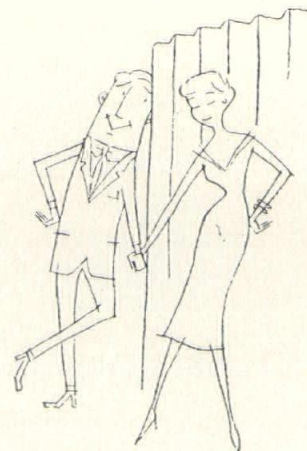
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nouncement said. "The trust fund will allow all personnel to share in this growth and derive more long-range benefits from our success than through any other means."

ABRAHAMSON AND RAUMA LECTURE AT UNIVERSITY OF MINNESOTA

Two new staff lecturers in the School of Architecture, University of Minnesota, are Bruce A. Abrahamson and John Rauma, who were added to the school's teaching group this fall.

Mr. Abrahamson, born in Chicago, came to Minneapolis in childhood and was educated in that city.



Mr. Abrahamson

During the last years of the war he was in training as a naval aviation cadet, entering the school of architecture at Minnesota in 1945. He was graduated with distinction and received his bachelor of architecture degree from Minnesota.

From 1948 to 1950 he was designer and draftsman for Thorshov & Cerny, Minneapolis. Awarded a scholarship to Harvard, he studied there in the graduate school of design and took his master of architecture. In 1951 he won a Rotch Traveling Scholarship, and studied in 14 European countries during 1951-52.

Mr. Abrahamson was a project designer for Skidmore, Owings & Merrill in Chicago from 1952 to 1954, be-



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coming registered in Illinois in 1953. At present he is a vice-president of Hammel & Green, St. Paul. He received his registrations in Minnesota and Iowa this year. Married, he has two daughters.

Mr. Rauma is a native Minnesotan, being born in Virginia. During the war years he attended Gustavus Adolphus and Marquette University under the navy



Mr. Rauma

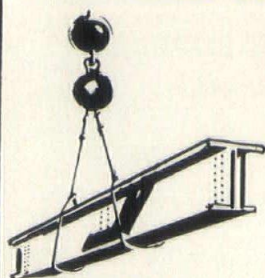
program, getting his bachelor of science in 1946. From 1947 to 1950 he studied at Minnesota, took his bachelor of architecture there before going as a designer with Magney, Tusler & Setter and Carl Graffunder.

His master of architecture is from MIT, 1952. He then became an instructor in architecture at the University of California from 1952 to 1954. In 1953 he won second prize in the Carrier Aid Conditioned Home competition, was in the Fourth Indianapolis Home Show Competition and toured Europe for three months on a Grunsfeld Fellowship from MIT.

MANGUSON NAMED ASSISTANT MANAGER OF AGC-MINNESOTA

D. F. Manguson, who has been administrative assistant and mason training representative for the Associated General Contractors of Minnesota since 1953, has been named to be AGC-Minn. assistant manager. A graduate of the University of Minnesota and St. Paul College of Law, he spent five years before his AGC connection with the personnel management division of the State of Minnesota.

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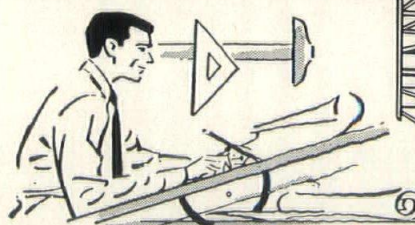
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MINNEAPOLIS ELECTS FOUR CORPORATE MEMBERS

The following members were admitted to corporate membership in the Minneapolis Chapter, American Institute of Architects, on November 15, according to word from the chapter:

Robert L. Bliss, Minneapolis
 Gene L. Green, Minneapolis
 William J. Miller, Richfield
 Charles D. Wahlberg, Richfield

WIN CLOSE ON CITY PLANNING CONVENTION COMMITTEE

Winston Close of Minneapolis has been appointed to serve on a committee to help plan the convention of the American City Planning Officials to be held in Minneapolis in 1959. This convention will bring in planning officials from all over the United States and throughout the world with an expected attendance of 3,000 to 4,000 persons.

DelRoy C. Peterson, assistant city planning engineer, Minneapolis, will head the committee.

ALLIED FIELDS NEED ENGINEERS AND TECHNOLOGISTS

The need for young engineers and technologists in the glass and ceramics industries will be stressed by Dr. Samuel R. Scholes, professor emeritus of Alfred University's New York State College of Ceramics, in his address on "Careers in Glass and Ceramics" at the annual Toledo Award dinner of the Toledo Section, American Ceramic Society, at the Toledo club on January 21.

At the dinner the 1957 Toledo Glass and Ceramic Award will be presented to Dr. Donald E. Sharp, vice chairman of the technical policy committee of Libbey-Owens-Ford Glass Company, in recognition of his achievements in glass technology and encouragement to young men in entering that field. Emphasizing Toledo as "the glass center of the world" the annual Toledo award was established by the local group of the American Ceramic Society to honor outstanding leaders throughout the ceramic industries in the United States.

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NATIONAL STUDENTS GROUP ELECTS DURING ANNUAL FORUM

The second annual student forum held by the National Association of Students of Architecture in AIA headquarters in Washington, November 19-21, elected Thymio Papayannis of MIT as national president of the group.

A hundred students from 63 schools of architecture attended the event. Speeches included those on the transition of student to practicing architect, AIA-student relationships, educational progress and a round table on current problems.

During the past year the NASA published a quarterly newsletter and arranged for a student program during the AIA convention. Future plans call for sponsoring an annual magazine and traveling exhibits of student work.

ASIDES

Then There was Pullman

New? Baseboard heating? Humph, say some, and point to the Pullman car, which had baseboard heating long before housing designers put it into our dwellings, pointed with pride. Of course, there has been some changing and some revising and some developing of the bare pipes which the Pullmans first had but the idea was there. Remember how you used to crowd your toes down under the pipes to soak up the warmth on a minus-thirty trip in the "good old days?" (May they never return).

*

World's Largest Hangar

What is reportedly the world's largest maintenance and repair hangar is the facility completed earlier this year at Kelly Air Force Base in San Antonio, Texas. The entire project was one hangar, 2,000 feet long, 300 feet wide and 91 feet high, with adjoining shops and administration offices in a building 1,650 feet long, 250 feet wide and high enough, we guess, for that dimension is lacking in our info. Interesting apron for the structure too—300,000 square yards of reinforced concrete, 16 inches thick, which will support planes weighing up to 400,000 pounds. And they fly!

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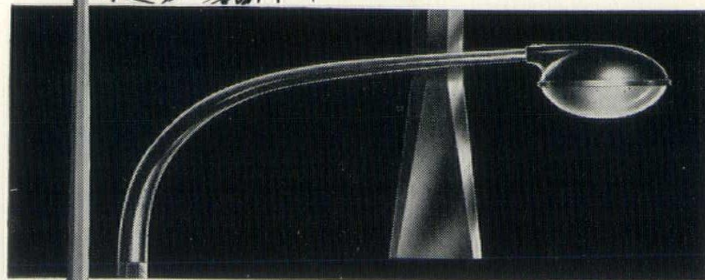
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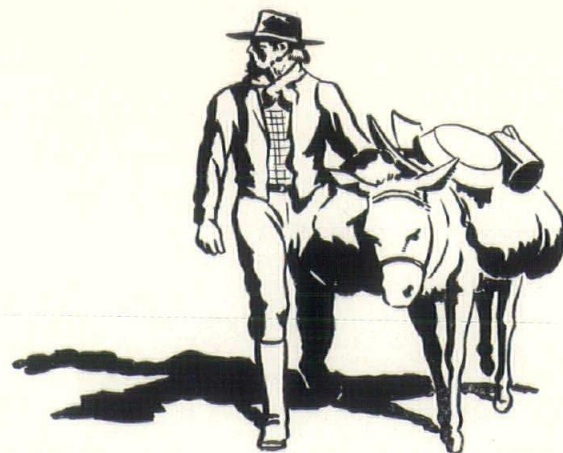
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Panning on the Book Run

ERIC MENDELSON

by Arnold Whittick

\$9.85 from F. W. Dodge Corporation
119 W. 40th St., New York 18

This volume is of particular interest to followers of Mendelsohn's work because it includes much of his late work, in the United States and Israel, and includes 75 of his projects. Theme of the presentation is, naturally, Mendelsohn's belief that "the essential character of a structure is determined by its purpose and its environment and that the design is the positive expression of that character."

Well illustrated, the book's 219 pages open with a brief résumé of three centuries of architectural development background. Then Mr. Whittick takes up Mendelsohn's own background, training and the influence of Hitler's rise and subsequent move of the architect to England. The pattern of the architect's development as man and designer is presented in work in the fields of commercial, religious, industrial and residential construction.

In connection with this book our readers are referred

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to the story on Mount Zion Temple in St. Paul which was presented in our issue of July-August, 1955. This area example of Mendelsohn's work is worth restudy. A footnote on the author, Mr. Whittick, shows him to be a well known English student of architecture. He has written extensively on twentieth century work.

LIBRARY BUILDING PLANS

(Proceedings of 5th and 6th Institutes)

\$3.25 from American Library Association
50 E. Huron St., Chicago 11 (an ACRL Monograph)

He who builds libraries will find much to refer to in this paper-bound volume, very complete with plans, elevations, details, drawings and discussions of a number of outstanding library designs in all parts of the United States. A particularly good feature of this publication, like those of other complete proceedings, is the presentation of discussions for and against certain aspects of the definite buildings. In this way use and design ideas are clarified for the reader, who is then left to reach his own decisions as to value of the material presented.

A special angled book, this is worth looking through and, if its contents seed ideas in your practice, it is worth getting.

Cool, Man, Real Cool

That architecturally very interesting structure in New York called the coliseum should make a hit with the musically inclined young people of today for it can be described as "cool, man, real cool." That's because it contains the biggest and most flexible air conditioning system ever put into an exhibit hall. How big? Well, its system has a total cooling effect equal to the melting of 4,050 tons of ice each day.

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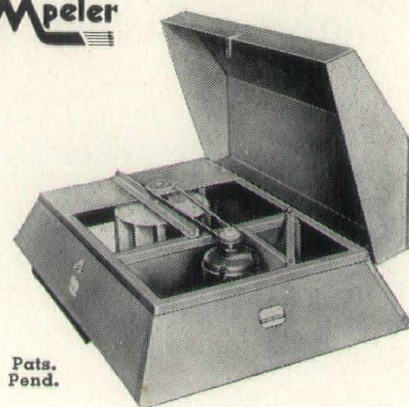
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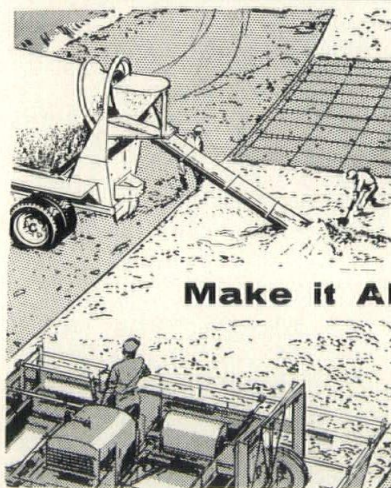
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LIFTS and footnotes

. . . being a now-and-then, here-and-there pickup of little items which might interest architects, engineers, designers, students and readers in general, with comment where necessary or where the editor feels like it.

Colour in Design

Spelling of the first word indicates this is lifted from a British magazine, *The Journal of the Royal Institute of British Architects*. We'd like to quote from a lecture introduction by H. L. Glogau:

"Looking back over the last ten years, architectural colouring is seen to be emerging as a subject in its own right—despite black magic, fashion, housewife's choice, romance and pseudo-science with which it is bedevilled. We claim that colour has an effect on the character of buildings to a greater and more fundamental degree than is yet generally realized and we wish to advance a plea at this point that architectural colouring should take a recognized place in the syllabus of all schools of architecture as an integral part of design, not as a mere embellishment.

"The concept of character and the contribution which colour itself makes to character is our main theme. By 'character' we mean the collective effect of visual qualities and we refer to it when we use such terms as 'stimulating' or 'depressing' to describe an interior. These terms and others like them express a reaction which, in the visual context, may refer particularly to the lighting, or to the colouring, or to the form, although all three must always be present, acting mutually and not exclusively. Vague as these terms are by themselves, we believe they are highly significant because they suggest positive aims in design of a more fundamental and enduring nature than period style—which more often than not refers to form only and is, in any case, a transient quality. . . ."

*

Prize for Your Offspring

If you have an "offspring" in high school, actual or because you like the chap, perhaps you'll encourage him to enter the NAHB annual contest for a \$1,000 scholarship. This is the info from National Association of Home Builders—open to students in grades 7 to 12, public or private schools, continental U. S.—prelims will be sponsored by local builders groups—project is a model of a home—deadline for submission is August 31, 1957 (no, not 1956, you have a whole year to go). If interested, write for details, blanks, etc., to NAHB's Model Home Contest Director, National Housing Center, 1625 L St. NW., Washington 6, D. C. Who knows, the youth you encourage may be the Wright-Sullivan-etc. of tomorrow.

F-i-r-e!

When that cry sounds across your project there can be hell to pay. To your aid now comes the Western Underwriters' Association, from whom a recent letter came enclosing a pamphlet titled "Are You Building or Remodeling?" We'd like to quote from the letter:

"We enclose a copy of a folder which is having wide distribution and which emphasizes our invitation to architects to use the facilities of the fire insurance rating bureaus. Without cost or obligation, building plans will be reviewed and suggestions made with a view toward obtaining the lowest possible fire insurance cost. We feel that greater use should be made of this expert service by architects and by builders. . . . We will gladly furnish additional copies or additional information on the subject."

The association's letterhead says it is "serving the 18 midwestern states as the trade association of the capital stock fire insurance companies since 1879. . . ." If you are interested further we suggest you contact the association at 175 W. Jackson Blvd., Chicago 4.

*

More Fuel on Fire Problems

Reports indicate that Metropolitan Life, one of nation's largest insurance companies, has recognized evils of those high, ribbon windows in relation to escape from fire and so has stopped making mortgage loans on homes where bedrooms have only that type window. To get loan home must have at least one regular window through which occupants could clamber to escape fire.

*

Jet Irritation

The fracas centering in uses and crashes of military jet airplanes may be just a mild forerunner of what is to come when the big airlines put into service passenger and freight planes with the same roaring methods of propulsion. Plans call for huge liners which will carry 160 passengers, freight planes of comparable size. In the resulting troubles with locations and facilities of airports capable of handling these sky monsters lies many a problem—and opportunity—for architects with a design bent toward this sort of planning. Many of us miles from existing airports already find our days and nights shattered by the ear blasting of existing jet planes and realize the portent for the future.

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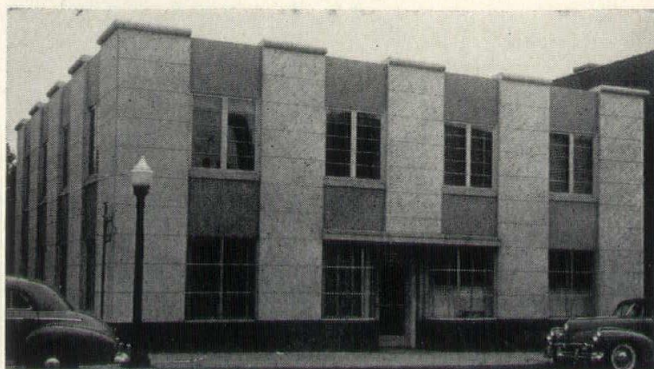
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Our pictures are identified left-right, row by row: M. Teigen, Larson & Teigen, Aberdeen, S. D., H. Wilson, U of M. and Lyell Halversen, Madsen Constr., Minneapolis, . . . Brokaw, Portland Cement Ass'n., Chicago, R. Nelson, Austin city engineer, P. Rice, American Concrete Inst., Detroit, . . . John Bauer, Portland Cement, Chicago, S. L. Stolle, Bettenberg, Townsend & Stolle, St. Paul, John King, Intrusion Prepackt, Cleveland, . . . E. Carsberg, Minnesota highway dept., St. Paul, W. Noggle, Besser Co., Alpena, Mich., J. Manning, Concrete Industry Prod., New York.

C. K. Preus, Minn. Highway Dept., Minneapolis, F. McComb, Portland Cement Ass'n., N. Hennig, Twin City Testing, St. Paul, A. Torgerson, assistant highway commissioner, St. Paul, J. Swanberg, highway dept., . . . N. Soukup and E. Brink, both Prestressed Concrete, C. Pratt, Western Mineral Prod., . . . V. Engberg, Engberg, Inc., Minneapolis, E. Mikkelsen, Bloomington bldg. insp., E. Seck and Howard Schulze, both Twin City Testing, St. Paul, . . . Louis Pinault, AIA, St. Cloud, M. Leadholm, AIA, Minneapolis, R. Randall, Producers Council, George Bishop, J. Knoerle & Assoc., Chicago.

Floyd Robinson, Olson & Sons, Albert Lea, C. Mullen, Hawkeye Marquette, Min-

neapolis, Roy Bonine, Winona Ready Mixed Concrete, . . . W. A. Mercer, LeHigh Portland Cement, Minneapolis, Harold Roberts, Oscar Roberts, Minneapolis, J. Gagan, LeHigh Cement, W. Hoffman, Wells Concrete Prod., . . . K. Johnson, Highway Dept., St. Paul, M. Kersten, U of M, Minneapolis, Will Meyers and Stan Werner of Portland Cement Ass'n., Minneapolis, . . . B. Vander Heyden, Dux Blocks, St. Paul Park, W. Phillips, Oscar Roberts, Co., Minneapolis, A. Benzick, Glacier Sand & Gravel, Minneapolis, . . . J. Horbach, Cement Masons Union 560, St. Paul, P. Woog, contractor, So. St. Paul, L. Milnar, Standard Bldg. Materials, So. St. Paul, W. Milnar, Standard Ready Mix, Marshall Monette, Phil Moog Contr., So. St. Paul.

Growing importance of lightweight concrete, Minnesota limestone capable of yielding Portland cement and kindred phases of the industry were given a thorough airing during the two-day Sixth Annual Concrete Conference in the University of Minnesota's Center for Continuation Study, November 26 and 27. Architects, engineers, builders, concrete men and others attended.

Speaking on "Structural Uses of Lightweight Concrete," Cedric Willson of Ft. Worth, vice-president of Texas Industries, Inc., told of progress in design and techniques in use of this type of material.

"Lower building costs are a consequence when lightweight concrete is used because of the decrease in the dead load of the structure," he said. His talk was slide-illustrated.

Milo Ketchum of Ketchum & Konkell, consulting engineers, Denver, said in discussing "New Concepts in Concrete Design" that structural engineers "must not be content to use the same structural forms that have been used in the past 20 years."

Illustrating the presentation with colored slides of structures in the United States and Mexico, Mr. Ketchum showed systems of construction which use the monolith properties of concrete in a plane surface such as flat plates and thin concrete shells for space construction. Detailed were barrel shells, Z-shells and combinations of pre-cast and formed-in-place designs.

The strict requirements in raw materials and the large overhead and capital involved in the manufacture of portland cement were emphasized by Dr. George M. Schwarz, chief of the Minnesota geological survey, in relating a search for high quality limestone in the state.

Much of the limestone deposit found in southern Minnesota contains a large quantity of magnesium, rendering it unsuitable for use in the production of portland cement,

he explained. Major technical factors are involved in considering the use of marl, lake sedimentation of high lime content, found north of the Twin Cities. They include high water content and handling of marl in winter.

Dr. Schwartz based his talk on a survey made recently of state deposits, prompted by shortages of portland cement in recent years. The survey was to determine whether there were sufficient large deposits of cement-limestone near enough to rail lines to make production feasible.

The Concrete Conference was conducted by the University's Center for Continuation Study with the co-operation of the Minnesota Society of Architects, Northwest section of the American Society of Civil Engineers Associated General Contractors of Minnesota, North Central Commercial Aggregate and Ready-Mixed Concrete Producers Association, Minnesota Society of Professional Engineers and the American Concrete Institute.

MELTZER REPRESENTS SUN SHADING GLASS

The Ben F. Meltzer Company, Minneapolis, Minn., has been appointed representative in this area for Glare-X Window Glass by the Tyre Bros. Glass & Paint Company of Los Angeles, Cal.

Glare-X is a patented product incorporating commercial shade screening, such as Koolshade, between two sheets of glass in such a manner as to form a single glazing unit.

"Glare-X provides excellent control of solar energy and light within the glazed opening of structures, while still providing vision," the announcement said. "Placing the screening in this glass sandwich simplifies building design and construction while protecting the screen from the ravages of the elements. Window washing a Glare-X building is as simple and economical as a building with no sun control; furthermore, there are no dust traps to cause water streaking of the building exterior during rains. Glare-X can be fabricated from a wide variety of glazing glass, in accordance with the design requirements of the architect."

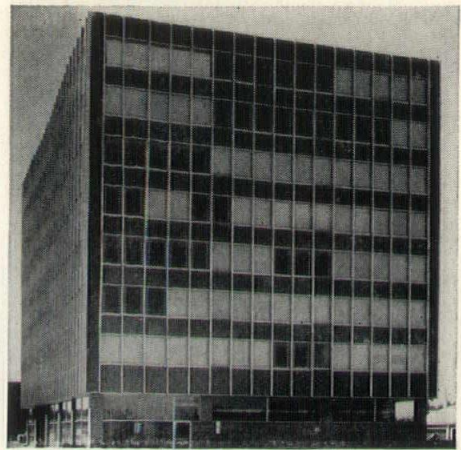
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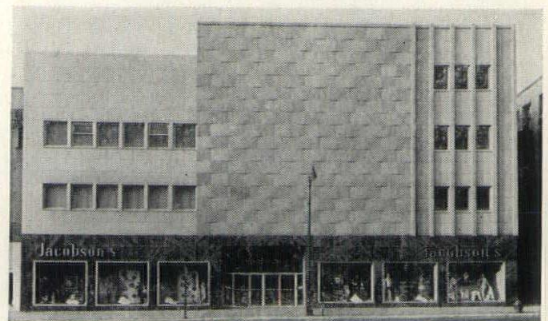
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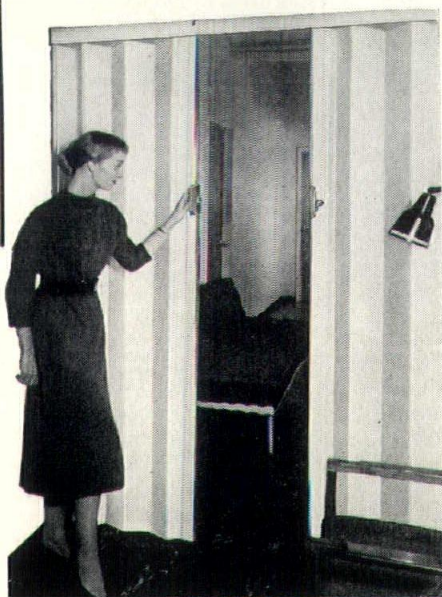
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Skilled Bricklayers Being Trained in Modern Construction

Know-how being learned — top, front, R. Eikanger, and l-r, T. Christensen, R. Johnson, L. Chenet, D. Seabury, T. Kallinen, J. Radtke, Earl Pangborn, instructor, and M. Suliin—bottom, M. Sipila, G. Dahn, R. Eikanger, K. McFall, E. Pangburn, instructor, R. Pecha, L. Schiff and L. Groth.

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With the emphasis in recent years on thinner masonry walls, masonry curtain walls and exposed interior masonry the clay products industry is meeting the demand for better trained bricklayers needed for these types of construction.

Martin Gottwalt, president of the Minnesota State Conference of Bricklayers, recently reflected the feeling of all branches of the industry when he said, "The use of our products has taken on all competition through 200 generations of bricklayers. The brick and tile manufacturers have provided us with an ever increasing quality of materials to work with and through research are developing new uses and products. The bricklayers are holding up their end in masonry construction by increasing the number and quality of bricklayers."

Minnesota has in the past years been one of the more progressive states in the formal training of bricklayers. The Minnesota State Conference, Members of Region 6, Structural Clay Products Institute, the AGC of Minnesota and education and apprenticeship officials

NORTHWEST

have all co-operated in improving the quality of the tradesmen.

Currently the second pre-apprentice school in Minnesota this year is being conducted in St. Cloud with 14 boys from the Duluth and Iron Range areas in attendance, an area that experienced a seasonal shortage last year. Since 1948 similar schools have been held in Camp Ripley, Duluth or St. Cloud, providing an eight-week course of 40 hours per week practical training and 4 hours of related training.

These schools allow the young bricklayer to start out on the job with a working knowledge of the trade and a background on blueprint reading, estimating and other related subjects. The boys pay their own tuition, room and board, and the brick and tile are furnished by members of SCPI. Each apprentice is sponsored by a contractor. Further information on this program can be obtained from the offices of the AGC of Minnesota, 910 Builders Exchange Bldg., Minneapolis.

Two more schools are in the planning stage, to be held in St. Cloud next spring.

For the bricklayer apprentice working in the Twin Cities a night school program in both Minneapolis and St. Paul provides for 144 hours per year of theory and practical training over the three-year apprenticeship before the bricklayer earns his journeyman's card.

Training of bricklayers has not been restricted to Minnesota in this region, with schools being held this year and planned for next year similar to the St. Cloud school in three neighboring states. Two pre-job schools are indicated for Iowa, with an anticipated 35 to 40 boys in attendance. North Dakota is planning for two schools to train 20 apprentices. At the present time it is felt that one school will be held in Nebraska next spring.

C. L. Wetzler, field engineer for SCPI in Minnesota, stated, "With the exception of two years immediately following World War II, we have more young men entering the trade than at any time in the past two decades. 1956 showed an increase of 28% over 1955 and 66% over 1954.

"Of this group 70% have been given night school related training or have graduated from the pre-apprentice school for bricklayers.

Now SCPI and the International Bricklayers Union have developed a fine correspondence course to provide training for the 30% who previously have not had the advantages of formal training.

"With such training and by research being conducted at the recently dedicated Structural Clay Products Research Foundation, Geneva, Ill., the clay industry, with one of the oldest building materials, is looking forward to playing a large part in this modern construction industry."

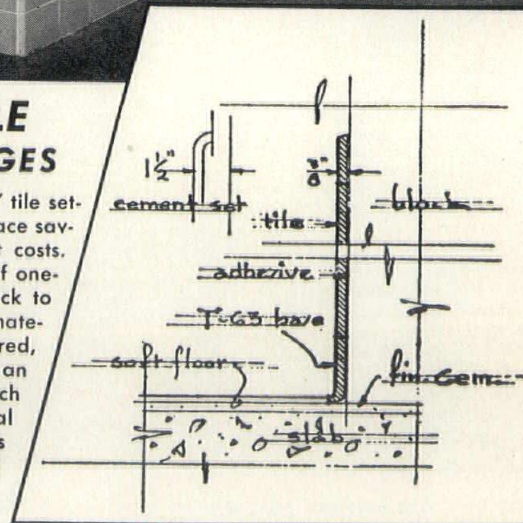
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Reynolds Metals Announces Major Architectural Prize

What is reportedly the largest prize in the architectural field has been set up by Reynolds Metals Company in an annual \$25,000 award to the architect who has made "the most significant contribution to the use of aluminum, esthetically or structurally, in the building field." The award was announced at a meeting in Minneapolis in November held concurrently with other meetings across the nation which were linked by a closed TV circuit.

Some 5,000 architects and others attended the meetings, during which a two-volume "Aluminum in Modern Architecture" publication was also announced and distributed. The prize was made available as a me-

memorial to the company's founder, R. S. Reynolds. It was announced by his son and present head of the firm, R. S. Reynolds, Jr.

International in scope, the annual award will be made to the person selected by a jury of architects. Procedures will be with counsel and co-operation of AIA and preference will be given for work completed during the year in which the award is to be made.

"Prime consideration will be given to the creative value of the contribution and its potential influence on the architecture of our times rather than on the size or type of structure," the announcement said.

"In spite of aluminum's great progress," Mr. Reynolds told his

listeners, "I think there is no question in anyone's mind today that we are only on the threshold of the Age of Aluminum. . . . It is still relatively unusual to see the unique and amazing qualities of aluminum used as the basic fact in modern engineering and design, letting form follow the dictates of this new material.

"It is certain that architects, engineers and builders will increasingly explore these potentialities for structural and surface treatment and that their discoveries will have far-reaching effects on all our building. We hope that the R. S. Reynolds Memorial Award will stimulate, encourage and speed this process."

Each year an outstanding sculptor will be commissioned to do an original piece of work to symbolize the award and this will go with the prize to the winner.

Principal speaker at the dinner hookup was President G. P. Harnwell of the University of Pennsylvania, who traced building design



Above are shown, left-right, row by row: B. Reynolds, Reynolds Metals, Chicago. R. Buckminster Fuller, AIA, Minneapolis. . . . P. G. Bourne, Seeger Refrigerator Co., St. Paul. C. D. Blackwelder, vice-president of Reynolds Metals, Richmond, Va., Mayer E. Hoyer of Minneapolis. T. Gardiner, Reynolds Metals, Minneapolis. . . . J. M. Leadholm, AIA, Minneapolis. R. W. Evans, Evans Co., Minneapolis. A. O. Larson, AIA, Minneapolis, and

L. Park, president of Baker Properties, Minneapolis. . . .

C. Fogelberg, MacArthur Co., St. Paul. R. L. Anderson, Anderson & Cherner, Minneapolis. H. A. Bullis, chairman of General Mills, Minneapolis. T. R. Gardiner, Reynolds Metals, Minneapolis. . . . J. Liebenberg, Cy Bissell and G. Matson, all AIA, Minneapolis. . . . D. MacGregor, 1st National Bank, St. Paul. Phil Bettenberg, AIA, Oscar Lang, AIA, R. V. McCann, AIA. . . .

Bob Walker, Ryerson, Minneapolis. J. C. Farnum, Reynolds Metals, Chicago. Eugene Flynn and C. W. Farnham, both AIA. . . . S. Richards, Reynolds Metals, Minneapolis. B. Jensen, National Tea, Minneapolis. A. Wilson, AIA, Tom Moore, Coca-Cola, Minneapolis. . . . A. Davidson, Boutells, Minneapolis. A. Anderson, Reynolds Metals, Minneapolis. L. Erickson, Erickson & Ellison, Minneapolis. M. Johnson, Standard Iron & Wire, Minneapolis.

history and the growth of aluminum in building, pointing out also that "the award indirectly benefits us all for architecture has always been a social art."

The double volume on aluminum in architecture contains a great deal to inspire and inform the architect and illustrations and technical information are of the best. Among the outstanding structures shown from all parts of the world are a number from the Northwest.

NEW BUILDING PRODUCTS LITERATURE COMPETITION ANNOUNCED BY AIA-PC

The 1957 Building Products Literature Competition, sponsored jointly by The American Institute of Architects and The Producers' Council has been announced.

This annual competition has a twofold purpose: 1, to recognize building products literature and space advertising directed to the architect which is excellent of its technical and informative value and is of material assistance to the architect in the selection and specification of building products and 2, to encourage building materials and equipment manufacturers to adopt a more technical approach in the preparation of building products literature and space advertising for architectural audiences.

The competition is open to all manufacturers of building materials and equipment, to associations of such manufacturers and to firms other than building materials manufacturers who have technical literature of informative value to the architect. Only that product literature and space advertising published since December 31, 1955 will be considered. A panel of five nationally prominent architects will judge the submissions. The competition is the ninth to be conducted by the AIA and the manufacturers' organization. Award winning literature and advertising will be exhibited at the AIA's Centennial Celebration in Washington, D. C., May 14-17, 1957.

Complete details on the competition can be obtained by writing the Publications Department, The Producers' Council, Inc., 2029 K Street N. W., Washington 6, D. C.



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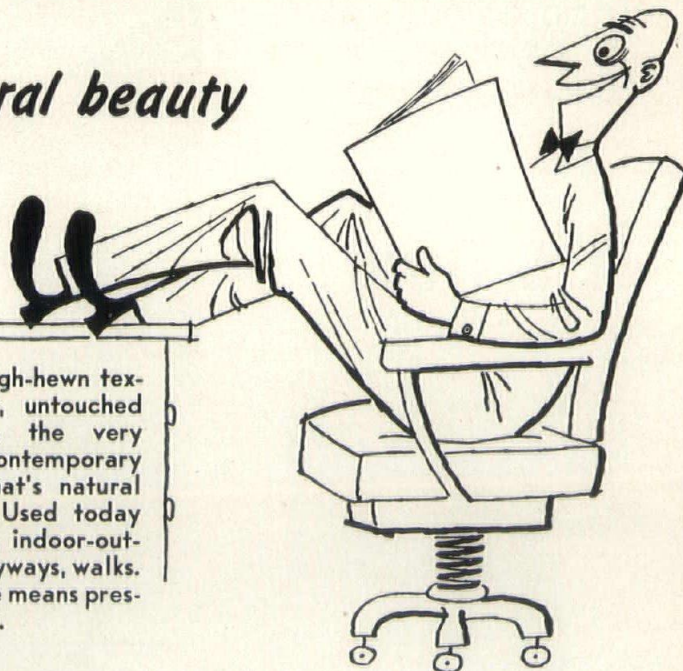
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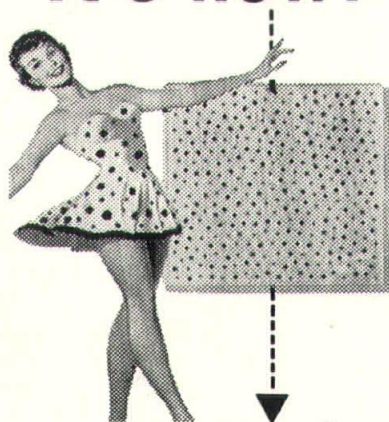
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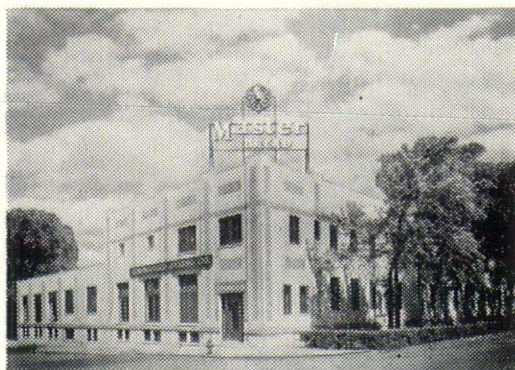
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Shown here is the St. Paul plant of the Zinsmaster Baking Co. Founded in 1913, the Zinsmaster firm operates 5 plants in Minn. and serves areas in all or part of 39 states, Canada and Alaska. Chas. DeJarnette, Des Moines, Iowa, was St. Paul plant architect.

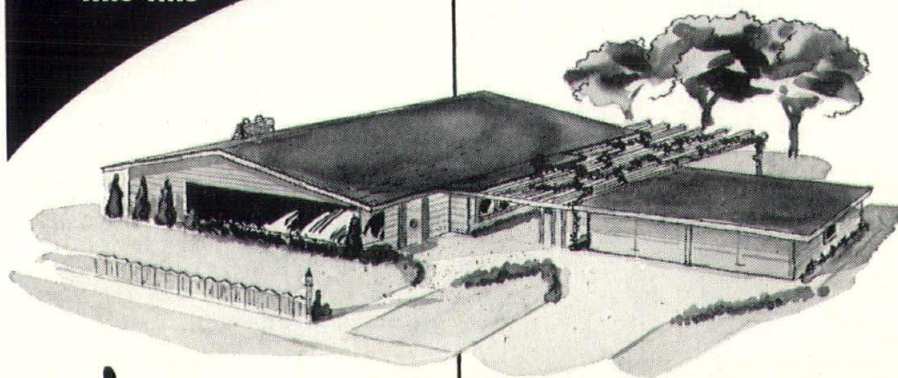
The Zinsmaster Baking Co. uses Morse's "One-Coat" cement floor hardener because it protects against chipping, prevents concrete dusting and makes sanitation easy. More than just a concrete hardener and dustproof, "One-Coat" etches, cleans and closes the cement floor surface to produce a safe floor with high friction co-efficient for good traction under normal conditions. "One-Coat" requires no mixing, no diluting, no multiple applications. Just one coat is sufficient to add years to cement floor life. Write for complete information.

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Bituminous Conference Hears New Problems, Solutions

Private and public construction men interested in the problems of bituminous paving gathered at the University of Minnesota on November 21 for the Third Annual Bituminous Conference.

After welcome and introduction talks by Sheldon Beanblossom, secretary of the Minnesota Bituminous Association, and M. K. Cragun of the Center for Continuation Study, the group heard Paul K. Garber of Howard, Needles, Tammen & Bergendoff, Kansas City consulting engineers, discuss "Factors Involved in Designing Kansas Turnpike Flexible Pavement." "Flexible Pavement Construction of the Kansas Turnpike," was then considered in a talk by M. C. Miller of the San Ore Construction Co., McPherson, Kansas.

At the noon luncheon session John Swanberg, construction engineer with the Minnesota highway department, presented a paper prepared by D. E. Stevens of the California Crude Sales Co., Perth Amboy, N. J., on "New Developments in Asphalt for Road Building."

The afternoon session was devoted to a symposium on field construction operations. In the section on hot-mix plant operations James Ward, chief paving engineer of Barber-Greene Co., Aurora, Ill., told of "Aggregate Handling," D. B. Palmer, Jr., bituminous sales engineer for Pioneer Engineer Works, Minneapolis, discussed "Drying and Screening" and R. J. Bartell of Iowa Manufacturing Co., Cedar Rapids, Iowa, told about "Proportioning and Mixing."

In the section on compaction of bituminous mixtures Donn G. Bros, road machinery division assistant manager, Bros Boiler & Mfg. Co., Minneapolis, presented "Pneumatic Rollers" and J. M. Borrer, western division sales manager for Galion Iron Works & Mfg. Co., Galion, Ohio, talked of "Steel Rollers."

Final discussion was on "Coordinating Hot-mix Plant Operations on



Hot-mix Construction," by Charles Boyle of C. L. Nelson Construction Co., Little Falls, Minn., and E. J. Pennig of E. J. Pennig Co., St. Paul. A general discussion and question and answer period followed.

Shown above (l-r. row by row) are R. Bartell, Iowa Mfg. Co., Cedar Rapids, Ia.; Donn Bros, Bros Boiler, Minneapolis, and C. Herbison, Herbison Constr. Co., Brainerd, Minn.—M. Miller, San Ore Constr. Co., McPherson, Kans.; J. Borrer, Galion Iron Works, Galion, Ohio; Merritt Royer, Asphalt Inst., Kansas City—S. Beanblossom, Minn. Bituminous Pavement Ass'n's executive secretary, St. Paul; R. Wheeler, St. Paul dep't public works; J. Swanberg, Minn. Highway Dept.,

St. Paul; E. Pennig, Pennig Co., St. Paul—C. Preus, U. of Minn., Minneapolis; W. Hindermann, Asphalt Inst., St. Paul; J. Ward, Barber-Greene Co., Aurora, Ill.—

J. Miller, Rosco Mfg. Co.; C. Bros, Bros Mfg., M. Cragun, U. of Minn.; J. Miller, Rosco Mfg., all Minneapolis—George Passe and Marvin Borgelt, Bituminous Surface Treating, Minneapolis—F. L. Wilson, Minn. Valley Impl. Co., Granite Falls, Minn.; C. Nix, NW Refining Co., St. Paul Park; G. McPherson, Hodgman & Son, Fairmont, Minn.—C. McCrossan, C. S. McCrossan, H. A. Sularz, Inc., Minneapolis; R. Thornberg, Minn. Petroleum Ind. Co., Minneapolis—

C. Burrill, highway dep't, St. Cloud, Minn.; O. Dahl, Herbison Co., Brainerd, Minn.; M. Kersten, U. of Minn.; C. Nielsen, Hector Constr. Co., Caledonia, Minn.—H. T. Highmark, Minn. Highway Dept., Duluth, Minn.; L. Gilbert, Barber-Greene Co., Aurora, Ill.; E. Bethel, Ziegler Co., and E. Miller, J. Craig Co., both Minneapolis.

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PROGRESS IN PLASTICS—A VITAL NEW BONDING TECHNIQUE

Every war in the history of man has left death and destruction in its wake but during these periods when the mind of man is taxed to its limit, new products and techniques are developed that accelerate the progress of mankind. One such technique—Lampincor, a revolutionary new plastic process—was born in this way.

The eagerly awaited possibilities of temperature-resistant walls and beams and non-corroding exterior surfaces requiring little or no maintenance has become a foreseeable reality through the ingenious efforts of the Plastic Division of The Englander Company. The Plastics Division's parent company, Englander, is well known to the general public as a top producer of mattresses and dual-purpose sleep equipment.

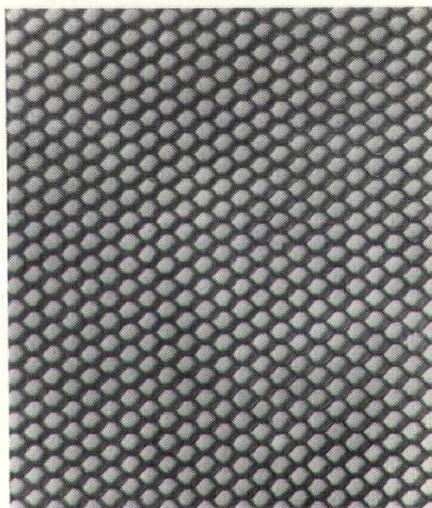
It has long been realized that plastics would someday replace or at least supplant steel in many industrial, consumer and military areas because of its lightness, durability and high resistance factor to the vagaries of temperature and climatic changes. However, the inability to discover suitable bonding agents and to develop mass production methods has kept the plastics industry in the shadow of steel and other vital materials for some types of fabrication. *Super Sandwich*

This new material can be compared to a plastic sandwich. The two outer layers of the sandwich consist of laminated fiberglass impregnated with a new polyester resin. Unusual strength is provided by the bonded middle layer of honey-combed cotton duck material impregnated with phenolic resin.

Pound for pound, the material has many times the tensile strength of steel and will not rot, corrode,

shrink or expand. In development, Englander engineers solved ten major technical problems which included the selection of resins, skin materials and core materials as well as mold design, skin-to-core bonding, resin and glass impregnating system, strong right angle joints, mold release problems, structural testing apparatus, bolt compression and shear tests.

Resin selection was complicated by strict government specifications. Englander engineers eventually chose a thixotropic resin which was designed and manufactured to meet these requirements. The resin was



Section of Lampincor

found to produce a high strength laminate even after immersion in water for prolonged periods. Further, no special precautions were required.

The skin material was chosen only after months of the most intense laboratory testing. Finally an open weave cloth was selected because of its unbalanced weave provided the extra directional strength needed and could be thoroughly pre-wetted with the thixotropic resins.

Air and excess resin were easily removable, it had little or no tendency for creeping or drainage and could readily be draped over compound surfaces thus meeting all reinforcement requirements.

A honeycomb core material was selected (the material was developed during World War II) for its lightness and because it can be combined with skins of other materials to produce a sandwich type panel of high strength and rigidity. Honeycomb made from cotton duck impregnated with phenolic resins was selected after extensive tests to determine modulus of elasticity, maximum fiber, bond and shear stresses.

After several tests showed a male mold to be unsatisfactory, a female mold was chosen. It was found to be especially workable because the plywood mold was easily released from the plastic and it produced a smooth outer surface.

The major problem was bonding of skin to core with an agent suitable for use in temperatures up to 140° F., the resin to be applicable for large scale assemblies on a vertical as well as flat surface. The bond of the Lampincor construction was stronger than the core of skin material.

This vital new bonding method is the first application of a special resin formulation and process for the bonding of glass reinforced polyesters to phenolic filled cotton honeycomb that creates a uniform fillet at every bonding area.

Finding existing methods and machinery for combining resin with cloth to be too expensive and inefficient, Englander developed a special machine for pre-wetting large lengths of glass cloth. The resulting laminate or skin had higher strength and uniformity. The innovation resulted in labor cost savings by reducing the amount of handling and materials costs.

After testing three types of right angle joints, the netch type was chosen and reinforced with additional cloth and resin. Resulting construction proved capable of carrying the calculated stresses involved.

New Skylight Material

Since it was found that the strong polyester skins and core panels are weakened when punctured by bolts and through connection pins, a system and material were devised so that as the bolt hole was drilled and tapped through the skin and core, a cavity was created between the skins by the removal of additional core material. As the bolt was placed into position, the enclosed volume was filled with a resinous material containing chopped glass fibers for additional reinforcement. Thus the bolt area was reinforced by the volume of cured resin and by bonding action of it to the bolt and honeycomb material.

Today, the Plastics Division of Englander is making the newest structural skylight material obtainable in the country and the only translucent honeycomb core architectural wall material adequate for industrial and commercial use. Engineers familiar with the Englander process are said to believe that it is the greatest development in wall paneling in the past five years.

A Look to the Future

In the curtain paneling field Englander engineers have developed the only lightweight, translucent, low cost, naturally insulating curtain panel material in the country.

Translated into commercial realities, translucent Lampincor is envisaged as the ideal successor to large glass areas where gaining additional light is important but where the only view consists of the building next door. It may replace the wide expanses of plate glass windows and glass block in modern industrial plants as well as overhead skylights supported by heavy beams.

In residential, industrial and business buildings it will be the ideal material for exterior walls as well as interior partitions. The plastic is impervious to weather damage, can be permanently colored by adding pigment during the curing process and is self-insulating against heat and cold.

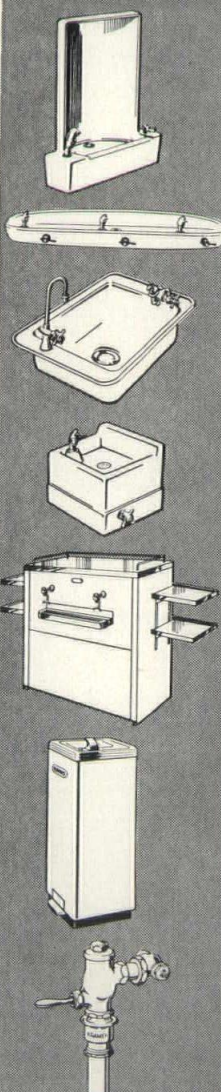
Great improvements and innovations in many fields will emerge shortly from the drawing boards of plastics engineers. Better products of reinforced plastics are now being produced to face the challenge of the future.

Armorex panels are distributed exclusively in this area by Pella Products, Minneapolis.

COLOR ANODIZED ALUMINUM IN ARCHITECTURE

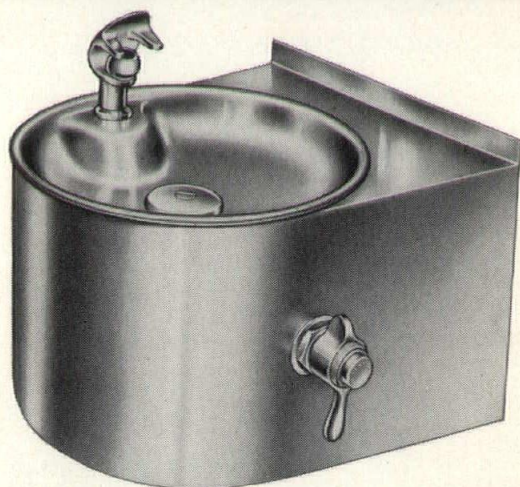
Anodizing in color for both outdoor and indoor design has been increasing in popularity as a technique in architectural design and construction with aluminum. The eye-appeal and practicability of Alumilited (anodized) wall panels, store fronts, railings and decorative

by HAWS



HAWS

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A. C. BJERKEN & ASSOCIATES, 2645 University Ave., St. Paul 14, Minn. Ph. MI. 4-5121
G. D. HAUPT, 5546 No. Berkeley Blvd., Milwaukee 11, Wis. Phone WOodruff 2-1142

trim have added a new interest in many modern buildings.

The architect has a choice of several mechanical or chemical finishes. Whether or not color is desired these finishes can be Alumilited to resist wear and corrosion. Alumilite is an Aluminum Company of America tradename for an improved anodizing process. Because Alumiliting was patented, qualified companies were licensed by Alcoa to Alumilite. Hiawatha Metalcraft, Inc., of Minneapolis was one of those companies

licensed to apply this anodizing process. Similarly when Aluminum Company of America approved only qualified companies to apply the Alcoa Architectural Colors, Hiawatha was one of the first to be selected.

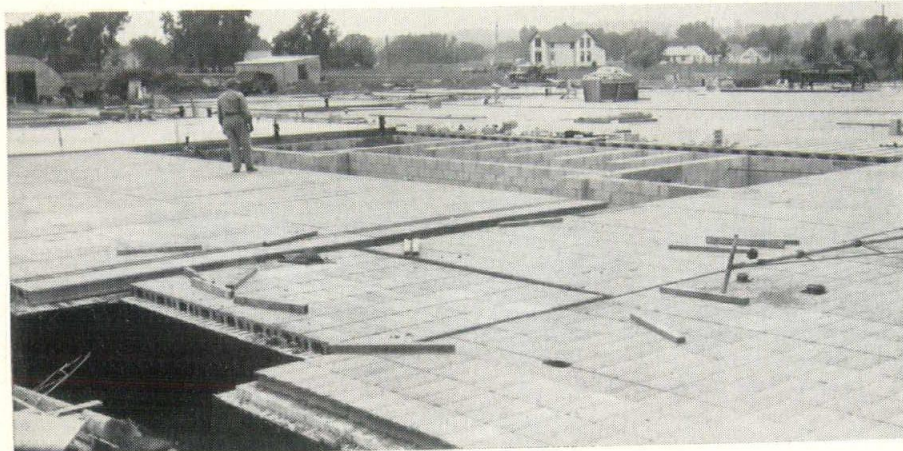
"Hiawatha Metalcraft has unusually ample facilities and has become a specialist in the field with emphasis on exterior colors, the new trend in aluminum application," company officials said.

"Although color anodizing is not new some of the colors produced do

not have a high degree of color retention and permanency. Any color is suitable for indoor application. The new Alcoa architectural colors are suitable for outdoor application. Only specific alloys Alumilited with the architectural colors produce a color anodized finish with superior durability. (AIA File No. 15-J-1956).

"To mention only a few projects, Hiawatha has anodized certain aluminum components for the following buildings: Aloc and Bell Telephone Buildings in Pittsburgh; Republic Bank Building in Dallas; Minnesota Post Bulletin Building in Rochester, Minnesota; Southdale, Prudential, American Hardware Mutual and Lutheran Brotherhood buildings in Minneapolis.

"The experience, technical knowledge, and facilities offered by Hiawatha Metalcraft provide architects and builders in this region with an excellent source for color anodizing of architectural aluminum designs."



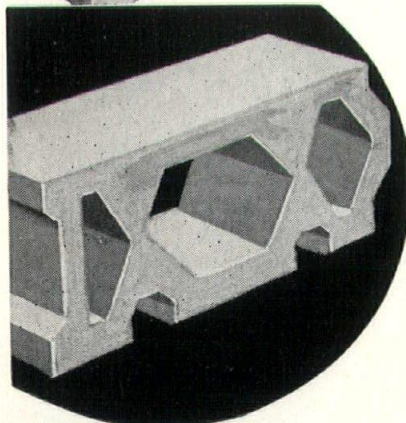
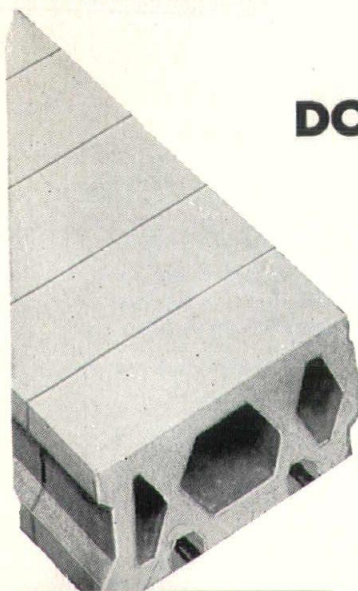
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St. Paul Park, Minn.
E. D. CORWIN, Architect

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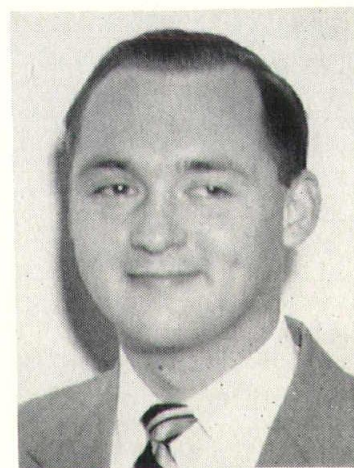
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OPENS NORTHWEST OFFICE McKINLEY SUN CONTROL

The Orman O. McKinley Co., Inc., of Indianapolis has opened a new Minneapolis branch with Donald LeClare as manager.

The Minneapolis branch will serve Minnesota, North Dakota,



Mr. LeClare

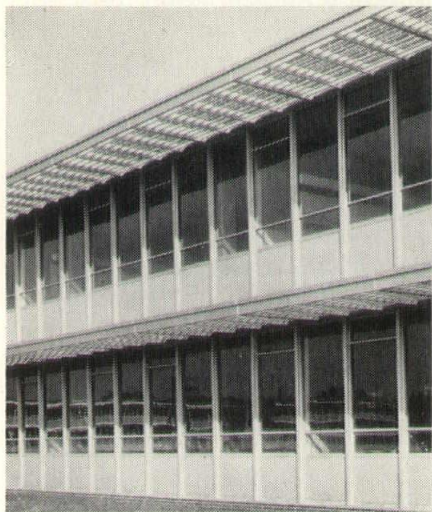
South Dakota, western Wisconsin and northern Iowa territory with industrial and commercial sun control products.

The McKinley Company has been in the sun control and aluminum fabricating business since 1943 and these years have featured a continuous, steady growth on the part of

NORTHWEST

the company as it aimed at close personal experience with architects throughout the midwest.

"Mr. LeClare brings a versatile background to his new work," the



A McKinley sun shade in place on a building.

announcement said. He is interested in "your problems and capable of rendering sound consultation and engineering advice. He says his Minneapolis staff will provide this area with sales and engineering service on a close personal basis."

The Minneapolis branch has already established a nucleus dealer organization, including E. J. Klampe of Rochester.

Good delivery is another factor stressed by the company. The McKinley line includes horizontally styled awnings, barrel type marquees, the new McKinley ventilated sun cornice and the McKinley canopy. All McKinley products are made from extruded or heavy sheet aluminum for extra strength and longer life, the company pointed out.

"McKinley awnings feature a distinctive horizontal styling which blends into every type of architecture," it was pointed out. "Plenty of light and air is permitted to enter, yet heat is kept out efficiently and air conditioning loads are cut appreciably. All-aluminum construction means many years of use.

"McKinley Barrel Type Marquees provide all-weather protection for entryways, store fronts, loading docks. The sensational new McKinley Ventilated Sun Cornice offers many advantages for building

decoration and protection. They are designed to let in ample air and light, yet keep rooms cool and eliminate glare. They are available with or without controlled water flow and are easy to maintain."

For details on McKinley products, refer to Sweets Architectural File 19f/Mc, 1956, Sweets Architectural File 19e/Mc, 1957 or contact the Minneapolis office.

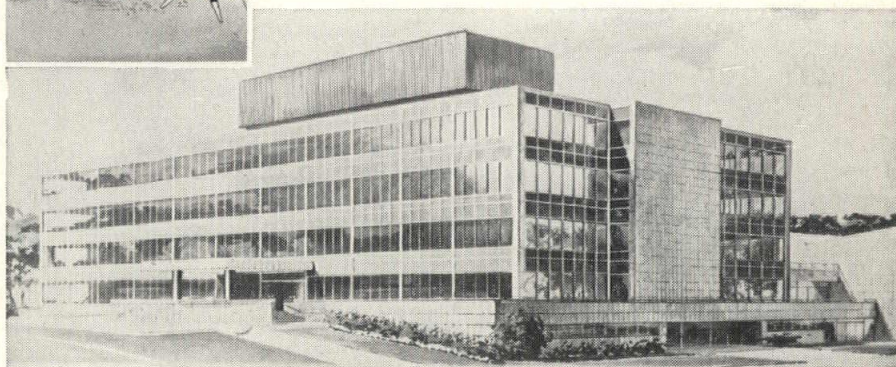
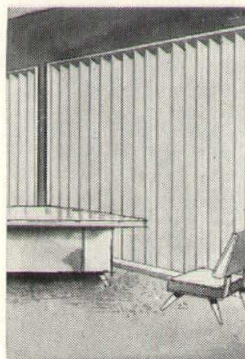
Go . . . Centennial!

CERAMIC TILE ORDERS MET THROUGH OUTPUT JUMP

While only last year deliveries by domestic ceramic tile manufacturers were lagging as much as six months today, through the recent jump in production facilities, orders are being met promptly, the Tile Council of America, Inc., has reported.

According to Robert E. Anderson, council president, the unprecedented demand for ceramic tile, both floor and wall, is being satis-

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modern "window wall" buildings. Ideal for office buildings, hospitals, motels, or schools. A growing complement to practical, modern architecture—created for approval of discriminating clients on recommendation of leading architects.

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Minneapolis — 6 — Minnesota

fied and the industry is already gearing for an even better market for its product. The Tile Council is an association of the producers of more than 90 per cent of the domestic floor and wall ceramic tile.

An industry-wide survey of both member and non-member companies just completed by the council shows that the industry's productive capacity by the end of this year will near the mark of 360,000,000 square feet. This is more than 150,000,000 square feet above the 1955 total, the greatest production year in the

history of the industry.

"All orders are being filled on a prompt basis," Mr. Anderson said, "and we plan to continue to meet our current obligations and to expand at a rate in keeping with the ever-rising demand so it will be unnecessary for the nation's contractors to seek any source of supply other than domestic manufacturers."

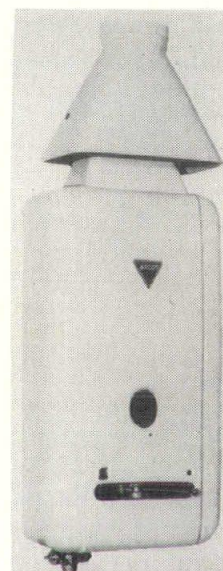
The all-out expansion program was made necessary to meet the record-breaking demand for tile for private and public building. Since

1945 the Tile Council has spent millions of dollars in a broad advertising and promotional campaign featuring the merits of ceramic tile that increased the demand more than 300 per cent, according to Mr. Anderson.

ASCOT IS "MIGHTY MIDGET" IN HEATING WATER

Architects and builders looking for a source of constant hot water for weekend cottages, hunting lodges or fishing camps now can consider features of the Ascot gas automatic coil water heater, its makers report.

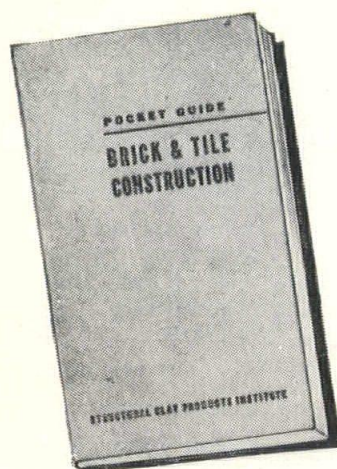
"The Ascot can be called a mighty midget for, though only 43" high and 14" wide, it will put out as much as 120 gallons of hot, hot



water per hour. That's a lot of hot water for bathroom and kitchen use, showers and laundry," the announcement said.

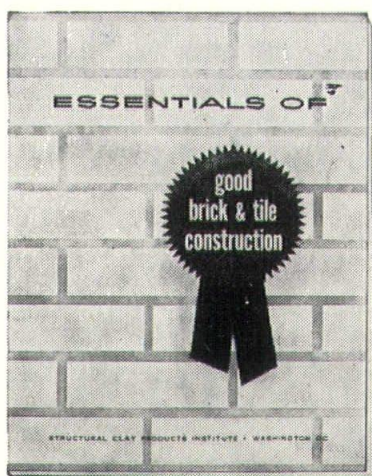
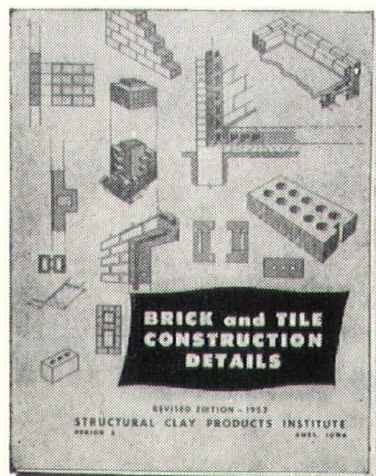
The Ascot operates on natural, manufactured or liquefied petroleum gas. It is particularly suitable for homes in out-of-the-way places where gas is brought in in small tanks. The Ascot will operate successfully wherever there is a pressure water system.

"It's the answer to the excessive cost of operation of the tank type storage water heater, using only the gas necessary to heat water immediately needed. Because the Ascot is instantaneous there is no waiting for the tank to heat up—you can have hot water for a shower the instant you walk into the cabin, even though



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Cost, Just Send Us
Your Request



Structural Clay Products Institute
Region 6
Ames, Iowa

it has been closed for a year. There's no wait for slow heating electric water heaters and peak hour electric loads are avoided.

"Excellent engineering insures efficient, quiet operation and long life for the Ascot. Working parts are of finest construction. The Ascot exterior is finished in easy-to-clean porcelain enamel with heavy chrome trim. Safety features are built in. Because of its compactness, the Ascot mounts neatly on the wall in an out of the way place."

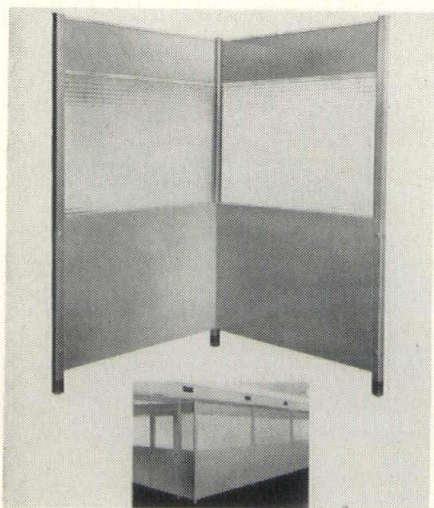
The Ascot is available in two sizes and is also approved by the American Gas Association as a boiler, where it can be used for heating in addition to furnishing domestic hot water. The Ascot has been used very successfully in dairy barns, service stations, baptistries, small apartments, etc., its makers said.

For literature on the heater, write Southern Heater Co., Inc., Dept. NA, 844 Baronne Street, New Orleans, La.

PARTITIONS DESIGNED TO GIVE COMPLETELY PRIVATE OFFICES

An 84"-high partition of steel with aluminum trim is a new addition to the line of space dividers manufactured by Rockaway Metal Products Corporation, Inwood, New York.

"Called 'Space Setters,' the new partitions create low-cost, attractive,



completely private offices that, because of exclusive construction features, can be installed quickly and easily without the use of tools," the company said. "Since they are free standing, Space Setters do not in-

terfere with existing lighting, heating or ventilating systems and the complete interchangeability of the 20-gauge panels and 16-gauge posts permits an unlimited variety of office arrangements.

"Easily disassembled, Space Setters can be rearranged at any time to accommodate new personnel or to fit into new quarters. Constructed of 39" of stretcher leveled steel topped by 32" of clear flat, clear fluted or frosted fluted glass and 12" of tempered hardboard, they are available in stock colors of mist

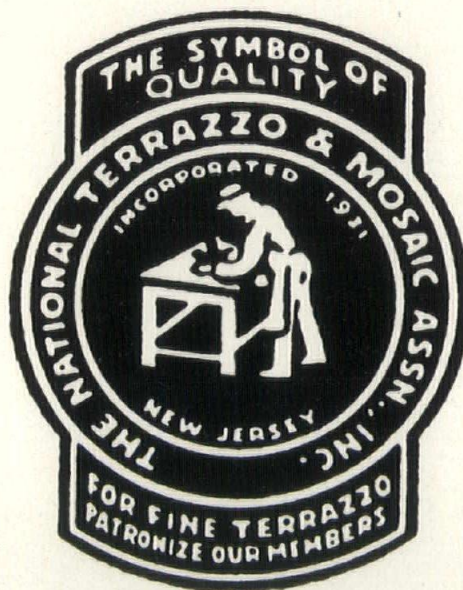
green, desert tan, satin gray or any other desired color."

Standard size, glass-panel or all-steel precision engineered door is equipped with finest aluminum hardware and rides on full piano hinge that, by simply reversing, allows door to open right or left. Glass inserts for Space Setters can be replaced with masonite, pegboard or acoustical material.

Free floor planning service and color catalog as well as information about rentals are available from Marney Sales Division, Rockaway

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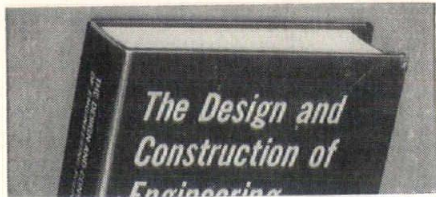
For specifications consult

Sweet's Catalog Section 13G

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The DESIGN and CONSTRUCTION of Engineering Foundations

By F. D. C. HENRY

Department of Civil Engineering,
University of Leeds

547 pages, 5½x8¾, 346 illustrations, \$9.00

The book covers the full range of foundation work from footings and rafts, retaining walls, and bearing piles to cofferdams, bridge abutments, and underpinning. In addition, it helps you apply principles of soil mechanics and structures in analyzing the requirements of various engineering situations. Information and data on many developments are given, such as the latest research on lateral pressures on bulkheads . . . pad footings . . . and scour at bridge points. Special aspects of foundations are thoroughly discussed, including mining subsidence; bearing capacity of rock; the moving of complete structures; and structural stability of strata.

Includes such topics as:

- Design of cellular bulkheads
- effect of settlement on superstructure
- bearing capacity of soils
- lateral pressure of concrete on formwork
- consolidation settlement in practice

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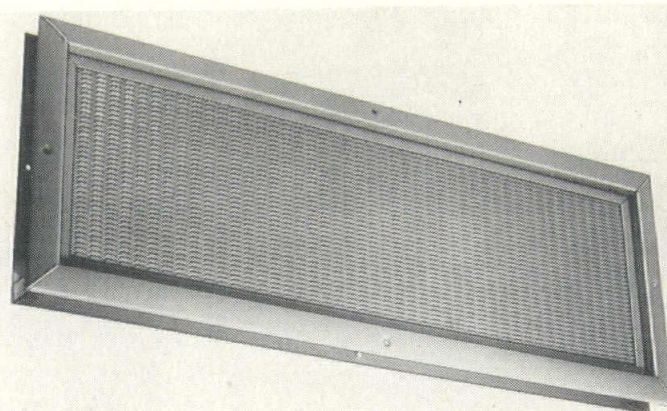
TELESCOPING FRAME FEATURE OF NEW DOOR GRILLE

A new door grille, Uni-Flo Model ED, is now available from Barber-Colman Company, Rockford, Ill. It features a telescoping frame which provides a 1" flange for both sides

of the door and can be used in doors ranging from 13/8" to 2" thick.

Two cores are available, the company said. One, vision-proof from any angle, has a free area of 81.5 per cent. The other has a free area of 86.6 per cent. Special baked enamel finishes are available to match any color in addition to several standard finishes.

For complete information write Barber-Colman Company, Department 766, Rockford, Ill.



The New
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WITH SINCERE APPRECIATION

of pleasant relations we've
enjoyed the past year . . .
May your New Year be one
of happiness and prosperity.



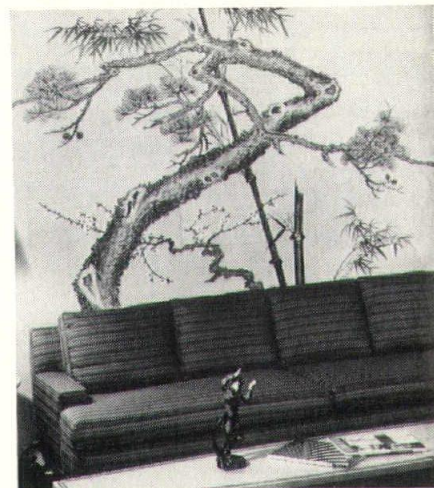
**A. C. Bjerken
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When writing advertisers say
"I saw it in Northwest Architect!"

HAND PAINTED SILK FOR WALL COVERINGS

Wall coverings have a new decorative possibility with a brand-new creation by Tropi-cal in which the design is hand painted on genuine



imported silk to give an effect both luxurious and tasteful.

Five panels, a total of 150" wide and 120" high, make up the motif and additional matching silk background paper is available to extend the mural to any size. This paper is styled in four patterns, all suited to add that "touch-of-genius" to any decor, the maker says. For more details write for a full-color

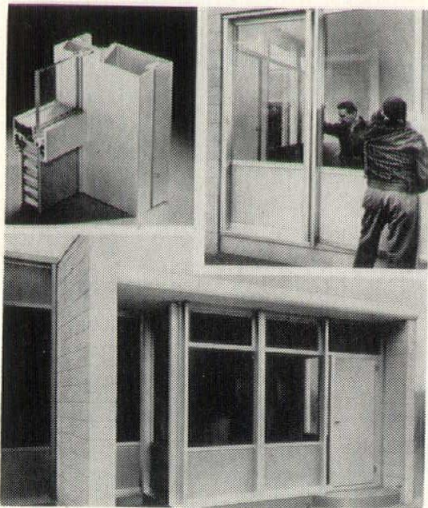
NORTHWEST

folder, showing all patterns and complete particulars, to Tropi-cal, 1319 W. Pico Blvd., Los Angeles 15, Cal.

NEW MODULAR CURTAIN WALL SYSTEM INTRODUCED BY KAWNEER

A new exterior curtain wall system that "permits exceptional freedom of design at minimum cost through the use of only ten standard prefabricated wall units" has been announced by the Kawneer Company of Niles, Mich.

Called "Unit Wall," the new system of modular components allows the creation of 2,852 different de-



sign variations, using all sizes and types of components.

The new standardized curtain wall system is particularly well suited to the construction of one, two and three-story structures — school buildings, hospitals, low-level office and industrial buildings.

Striking appearance is achieved through the use of colored porcelain enamel paneled areas contrast-

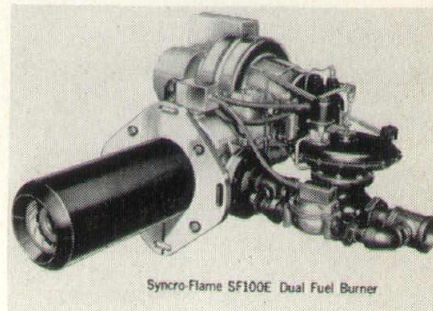
ed with satin finish aluminum mullions and frames. Interlocking, split-mullion design provides for horizontal expansion and contraction and at the same time simplifies erection. Components, which include insulated panels, operable sash, fixed sash and doors, are factory-assembled and shipped to site complete with all parts, including hardware.

The prefabricated wall units are available in nine, 10, 11, and 12 foot heights and in widths of 3'4", 4'0", and 5'0" with or without sash. Units with factory-installed doors come in 3'4", 4'0", 5'0" and 6'4" widths. Kawneer narrow stile or flush aluminum doors are furnished.

Insulated panels are finished in porcelain enamel in academy blue, sunset red, spring green and velvet black. The panels also come in an aluminited finish. All are of laminated sandwich-type construction. They have an impregnated honeycomb core, wedged between layers of tempered hardboard, and a textured aluminum outer surface.

NEW PRESSURE BURNERS FIRE SCOTCH MARINE TYPE BOILERS SUCCESSFULLY

Synchronous Flame, Inc., of Walworth, Wis., has announced the "successful development of their new line of Syncro/Flame Pressure Burners specially designed for eco-



nomically firing scotch marine type boilers and similar compact steam generators."

"Because of their ability to work against combustion chamber back pressures of 3" of water or more, Syncro/Flame Pressure Burners do not require a high stack or any in-



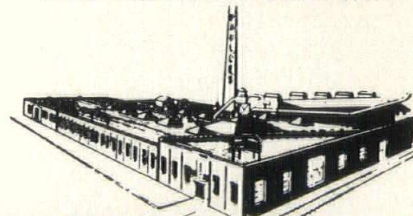
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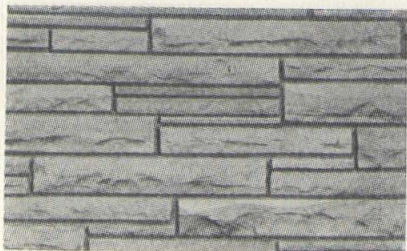
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PR 4-5951

duced draft equipment," the company said.

Syncro/Flame Pressure Burners are made in several sizes to cover the range of boilers from 10 to 150 hp ratings. They come in three different types—for gas firing, oil firing or combination gas-or-oil firing (with manual or automatic change-over). Features include two-stage fire and built-in controls for pre-purge, post-purge and high-low-off fire with automatic air/fuel ratio settings.

Gas and combination burns also feature a new circuit which virtually eliminates any possibility of explosion, even under bad misadjust-

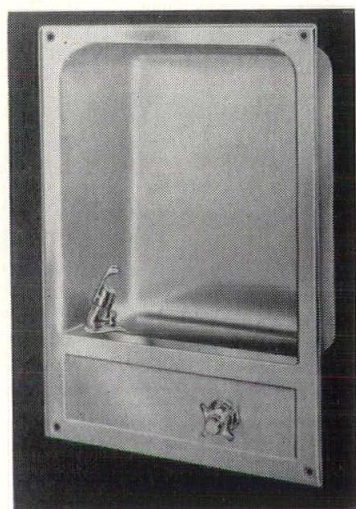
ment conditions. Syncro/Flame Gas Burners further feature complete freedom from pulsation. Full modulation of either oil or gas fire is available as an extra.

Inquiries should be addressed to C. E. Stevens, Synchronous Flame, Inc., Walworth, Wis.

NEW STAINLESS STEEL DRINKING FOUNTAIN AT REALISTIC PRICES

Development of new manufacturing techniques and considerable redesigning by Elkay Mfg. Company permits substantially lower prices on their complete line of wall mounted stainless steel drinking fountains, according to a company announcement.

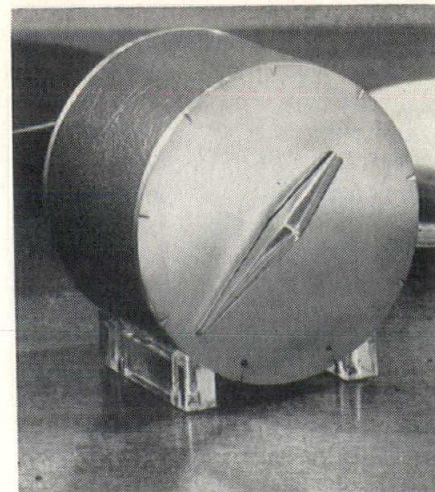
"These newly designed drinking fountains retain all of the quality of Elkay's finest custom fabrication



Semi-recessed Elkay

and workmanship," the company said. "A new embossing around the bubbler drilling keeps plumbing rough-in completely above the water level line and allows the fountains to meet the most rigid sanitary codes."

Three types of Elkay wall mounted fountains are available: a fully recessed model, a semi-recessed model as illustrated here and a fully exposed unit. The recessed models have a wide back to allow for ample head room. The semi-recessed and fully exposed units are equipped with a large removable access panel. Details are available from Elkay Manufacturing Co., 1874 S. 54th Avenue, Chicago 50.



NEW LUXTROL INDIVIDUAL LAMP CONTROL

Light just right for each activity, mood and seeing task can now be achieved by controlling the light output of individual table or floor lamps. A new dimming device, called Luxtrol lamp control, makes it possible to dial the amount of light you want from any lamp. At your fingertips is any lighting intensity from blackout to full brilliance.

Connection of the lamp control is simple. It rests on the table next to your lamp and is plugged into any convenient outlet. One or two lamps can be connected to the Luxtrol plug at the outlet just as you would with a double socket.

The Luxtrol lamp control will dim existing lamps for TV viewing and brighten them for reading, affording a "light touch" never before possible in the home. Each lamp control is rated at 125 watts. They are made by The Superior Electric Company, Bristol, Connecticut.

NORTHWEST HOUSES IN HEATING-COOLING TEST BY OWENS-CORNING

A total of 130 houses throughout the United States have been completed or are now in the planning stage for use in a two-year national low-cost comfort heating and cooling test program. The object is to find the average cost of heating and cooling a "comfort engineered" house in all climates. Some 51 utility companies and 133 builders in 38 cities are already co-operating in the program, sponsored by Owens-Corning Fiberglas Corporation.

Tyler S. Rogers, technical consult-

NORTHWEST

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ant for Owens-Corning, reports that records calculated thus far on the first 40 houses indicate that the average house in the program can be heated and air-conditioned all year for an average of \$11.66 a month or \$139.89.

Had the houses not been "comfort engineered" according to Owens-Corning specifications and constructed merely to meet FHA minimum property requirements the average operating cost would be \$209.08 and could run as high as \$276.29, it was said.

The test program under Owens-Corning's direction was launched last October as a result of a statement by Robert Thulman, former official of the Housing and Home Finance Agency in Washington, to the effect that the average house of 1,000 square feet of floor space should be capable of being heated and cooled anywhere in the U. S. for \$10 a month or \$120 a year.

The outstanding feature regarding these houses is that they have been "comfort engineered," Mr. Rogers reported. That is, the houses have been adequately insulated, have proper roof overhang to provide maximum shading, proper attic ventilation and specific orientation of the house on the lot.

The direction in which each house faced and the location of windows in each house was controlled, so far as practical, under the programs to have large glass areas face the north or south. Glass areas facing the east or west were required to be properly shaded by roof overhang or solar screening.

Test houses are as far north as

Minneapolis, as far south as Miami and Houston, east to Boston and west to Spokane and Los Angeles. The country has been divided into three regions, northern, central and southern. Costs have been broken down according to houses in each region by Owens-Corning engineers and are as follows for this northern area:

Houses—16
Average size (sq. ft.)—1171
Average yearly FHA prediction:
Heating—\$15.44
Cooling—\$42.74
Total—\$194.18
Average yearly comfort engineering prediction:
Heating—\$119.20
Cooling—\$32.56
Total—\$151.74
Per cent savings—21.8%

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STATEMENT REQUIRED BY THE ACT OF AUGUST 24, 1912, AS AMENDED BY THE ACTS OF MARCH 3, 1933, AND JULY 2, 1946 (Title 39, United States Code, Section 233) SHOWING THE OWNERSHIP, MANAGEMENT, AND CIRCULATION OF

- Northwest Architect published Bi-monthly at Saint Paul, Minnesota, for November-December, 1956.
1. The names and addresses of the publisher, editor, managing editor, and business managers are:
Publishers—Minnesota Society of Architects, 2642 University Ave., St. Paul 14, Minn.
Associate Editor—Fred Miller, Jr., 2642 University Ave., St. Paul 14, Minn.
Managing Editor—C. J. Loretz, 2642 University Ave., St. Paul 14, Minn.
Business Manager—C. J. Loretz, 2642 University Ave., St. Paul 14, Minn.
 2. The owner is: (If owned by a corporation, its name and address must be stated and also immediately thereunder the names and addresses of stockholders owning or holding 1 per cent or more of total amount of stock. If not owned by a corporation, the names and addresses of the individual owners must be given. If owned by a partnership or other unincorporated firm, its name and address, as well as that of each individual member, must be given.)
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 5. The average number of copies of each issue of this publication sold or distributed, through the mails or otherwise, to paid subscribers during the 12 months preceding the date shown above was: (This information is required from daily, weekly, semiweekly, and triweekly newspapers only.)
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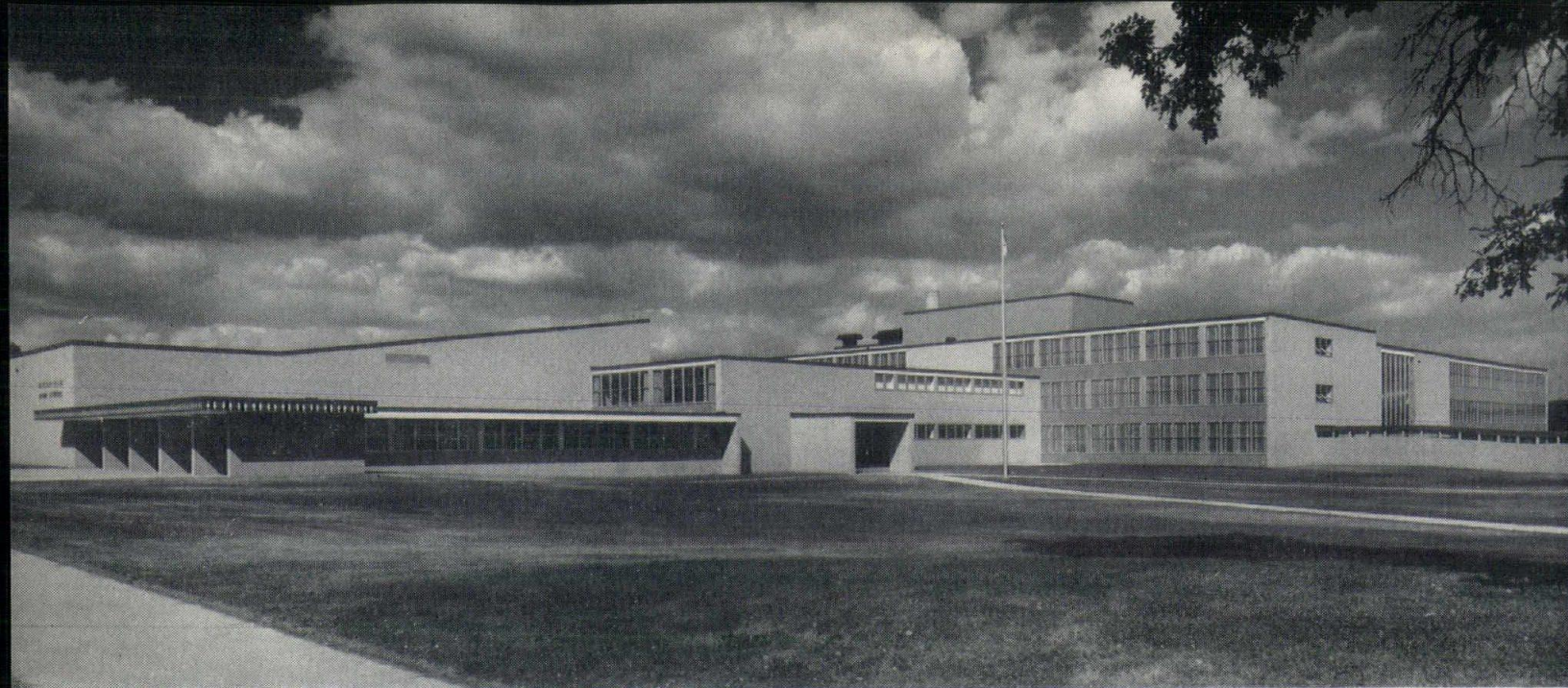
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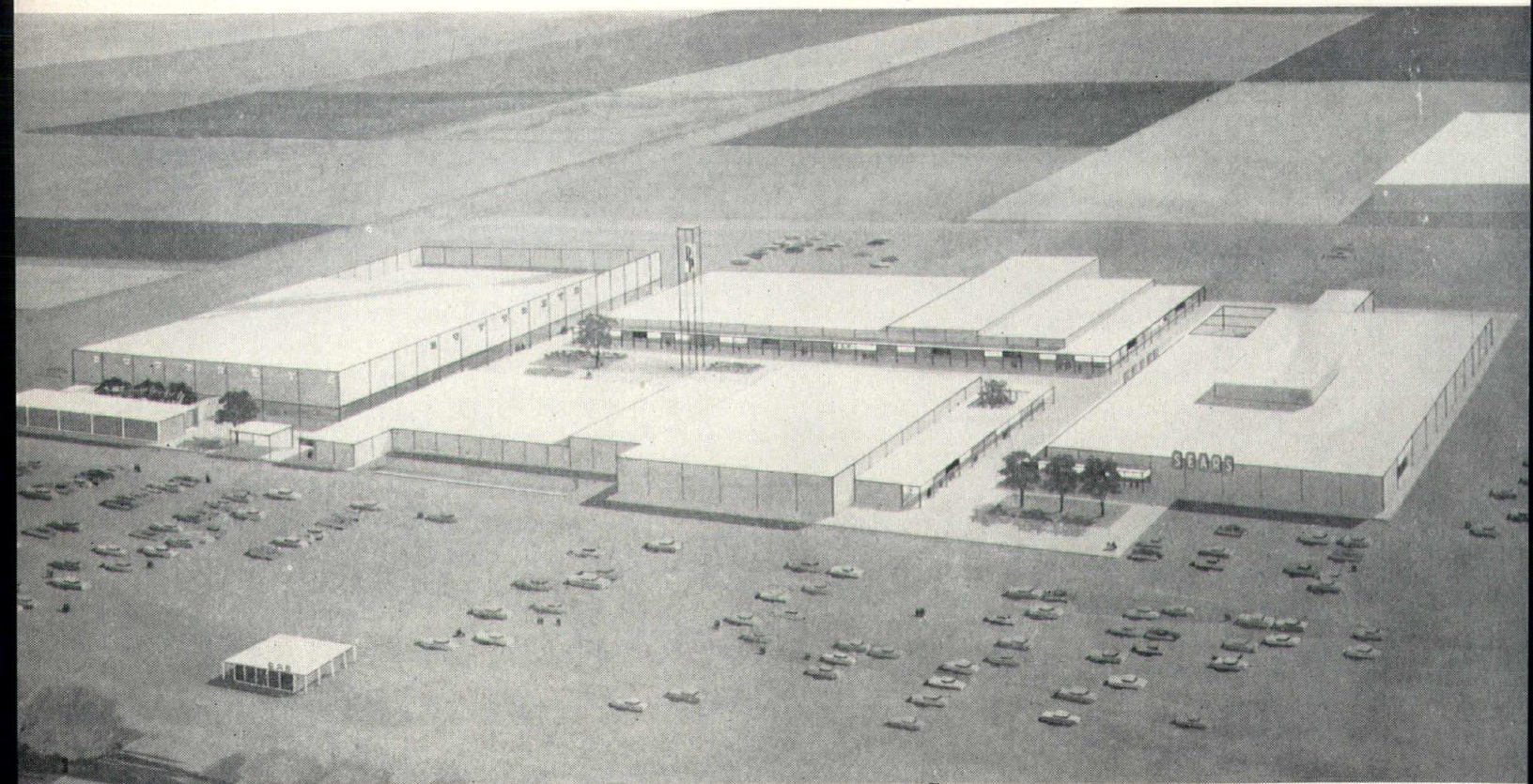
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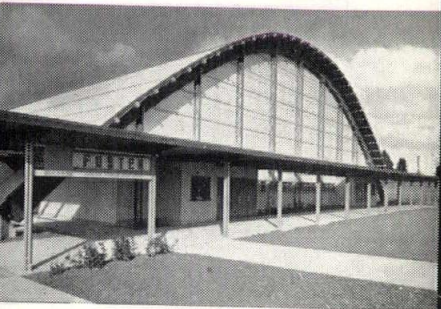
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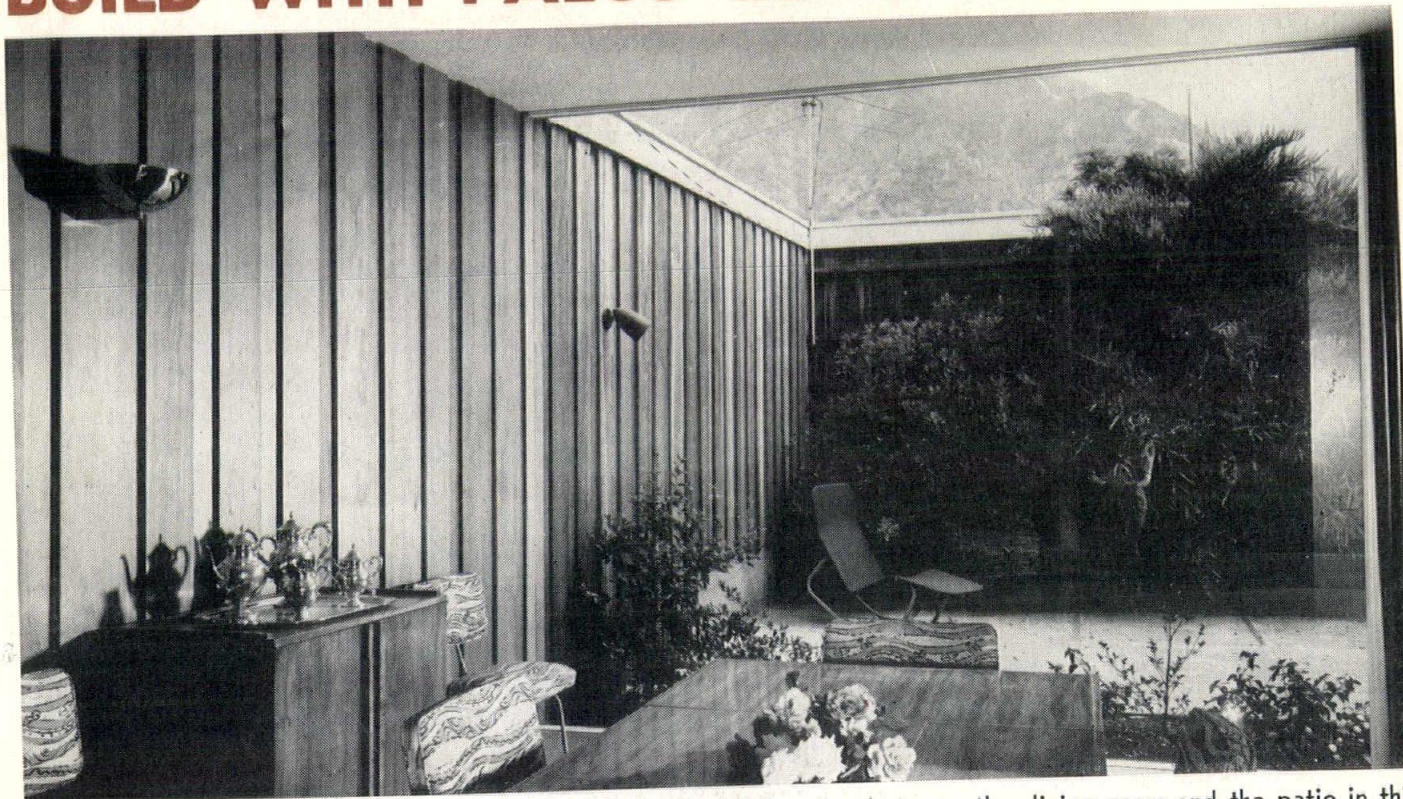
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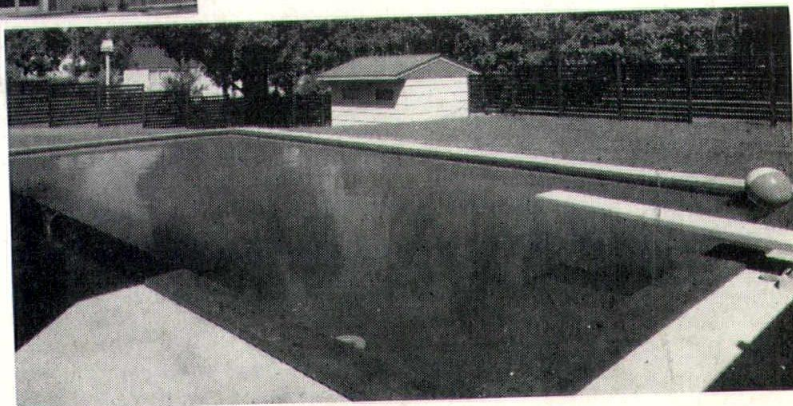
INSIDE or outside? — It is hard to distinguish the dividing line between the dining room and the patio in this distinctive use of 1x6 Redwood Board-on-Board for both interior paneling and exterior siding.



OUTSIDE this suburban church illustrates effective combination of Board and Batten Gables, 1x8 v-joint and buff roman brick.

ALL AROUND THE LOT

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