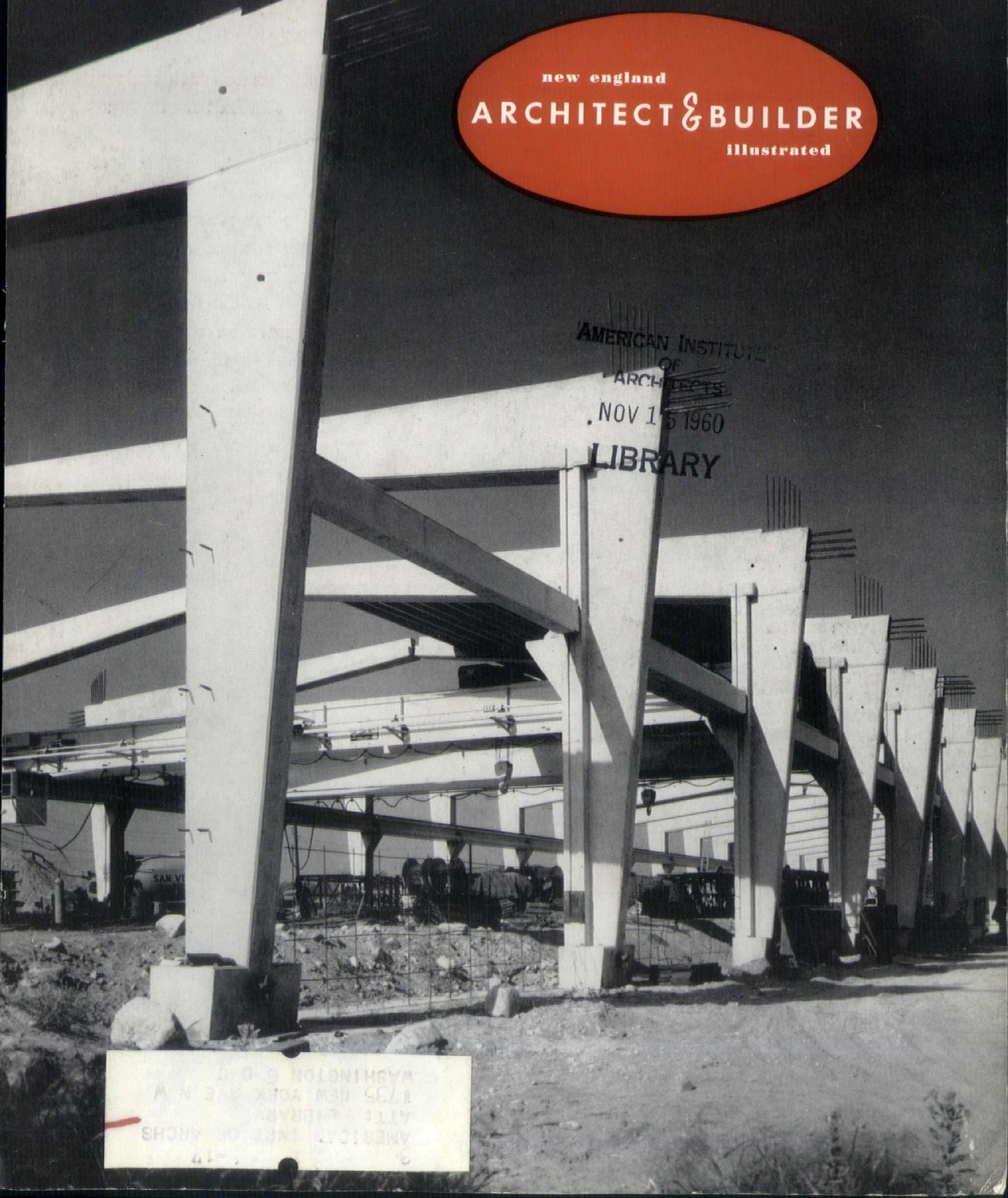
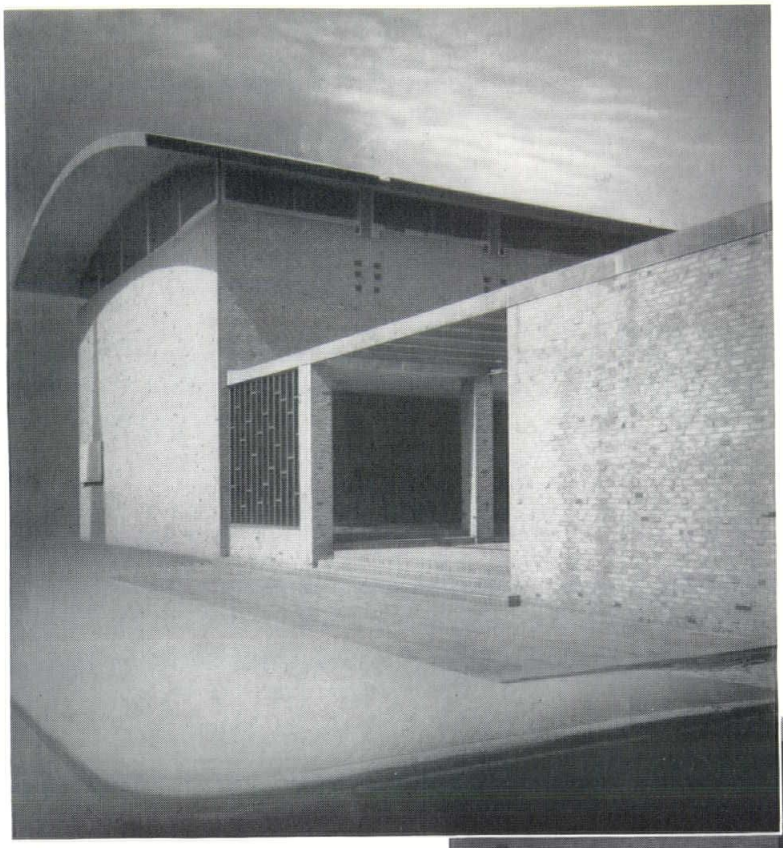


new england

ARCHITECT & BUILDER

illustrated

Ein Feste Burg . . . *A Mighty Fortress*



The first three words of this beloved hymn by Martin Luther are almost a prophecy of the continued growth and expansion of the Lutheran Church. All over the world, new churches are being built to meet its expanding needs. And . . . here in Boston the new First Lutheran Church with its clean-swept modern lines becomes an enduring landmark that links the rich heritage of the past to the needs of today and the increasing demands of the future.

Exterior and Interior Views of the new First Lutheran Church in Boston.

ARCHITECT

Pietro Belluschi

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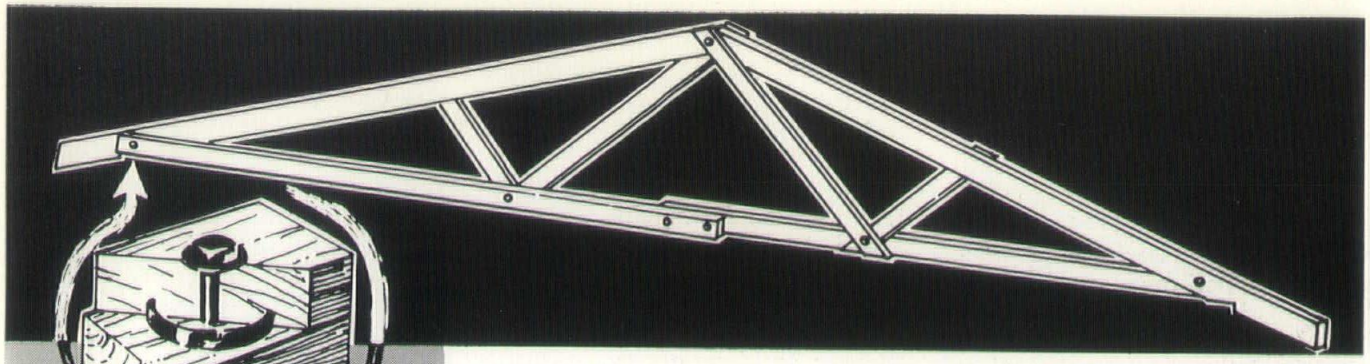

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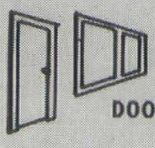

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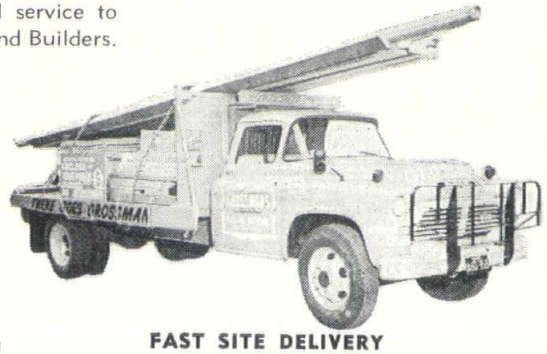

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FIRST STAGE WINNERS IN FRANKLIN DELANO ROOSEVELT MEMORIAL COMPETITION ANNOUNCED

The six winners of the first stage of the Franklin Delano Roosevelt Memorial Competition were announced by Edmund N. Bacon, Professional Adviser. The successful competitors among the 574 from all parts of the country who submitted designs were: Abraham W. Geller, architect of New York City associated with Douglas Gordon, Diana Kirsch, and Claude Samton; Tasso Katselas, architect of Pittsburgh; Rolf Myller, architect of New York City; William F. Pedersen and Bradford S. Tilney, architects of Boston associated with Joseph Wasserman, David Beer, and Norman Hoberman, sculptor; J. Edward Luders, architect, Hideo Sasaki, Don Olson and Robert J. Reilly associated as Sasaki-Walker-Luders Associates of Watertown, Massachusetts; and Joseph J. Wehrer, architect of the University of Michigan associated with Harold J. Borkin.

The selection was made by a professional jury headed by Pietro Belluschi, Dean of the School of Architecture and Planning, Massachusetts Institute of Technology, after a three-day judging period. In its report the jury stated: "The six contestants chosen to prepare the final drawings represent widely differing solutions; some leaving the park-like character of the site untouched, others remodeling the topography to suit their particular ideas. The jury feels all the premianted designs, when studied further and if developed competently, will result in a group from which a really fine memorial to Franklin Delano Roosevelt may be developed." The jury further noted that "the present project has not only been worthwhile, but has also become a significant index of contemporary American culture."

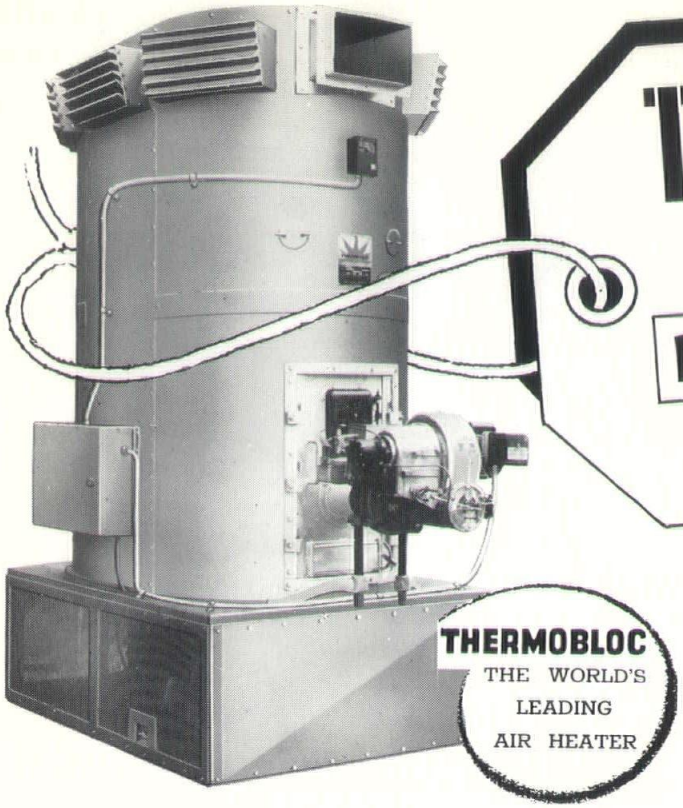
The winners will be awarded $10,000 each and will prepare detailed drawings and models for submission in the final stage. The winner of the second stage will be awarded $50,000. After the final judging on December 29-30, there will be an exhibition of winning and honorable mention designs.

In addition to Mr. Belluschi, the jury consists of: Thomas D. Church, Landscape Architect of San Francisco; Bartlett Hayes, Jr., Director of the Addison Gallery of American Art, Phillips Academy, Andover, Massachusetts; Joseph Hudnut, Professor of Architecture Emeritus, Harvard University; and Paul Marvin Rudolph, Chairman of the Department of Architecture, Yale University.

PLANT MANAGER APPOINTED FOR TERAFILM CORPORATION

Announcement has been made of the appointment of Leo Adams as Plant Manager for the new plant of Terafilm Corporation, an affiliate of Acme Backing Corporation, Stamford, Connecticut.

Terafilm Corporation will manufacture a polyester sheeting from a new Eastman Tenite (trademark) resin. Pilot plant operations are now under way, and it is expected that full production will be available by 1961.



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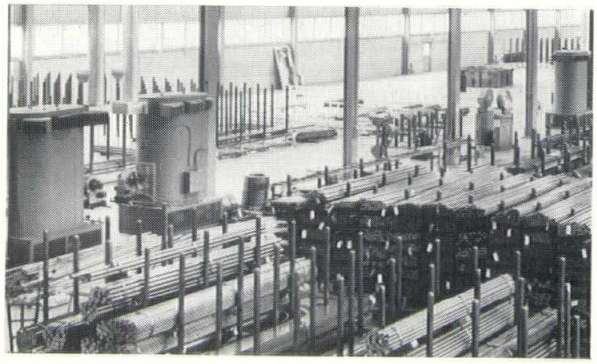

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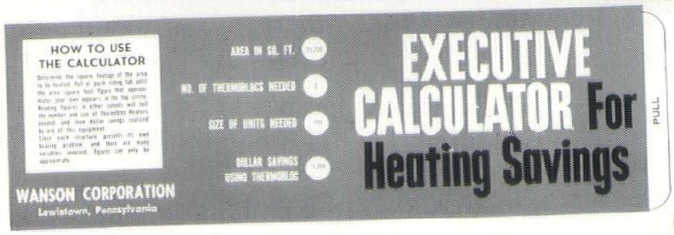

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SEPTEMBER • 1960

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new england ARCHITECT **and** BUILDER **illustrated**

ARCHITECTURE and CONSTRUCTION

FEATURE

Contributors are advised to retain a copy of their manuscript and illustrations. Material should be mailed to the Boston Editorial office, and must be accompanied by return postage. Contributions are handled with reasonable care, but the N.E.A.B. assumes no responsibility for their safety. Any acceptable manuscript is subject to whatever adaptations and revisions necessary.

COVER

Shown under construction is the San-Vel Littleton plant for the manufacturing of prestressed and precast concrete. When completed it is expected to be one of the most modern prestressing facilities in New England. Arber/French photograph.

Signed Articles. As one object of the "New England Architect and Builder, Illustrated" is to afford a forum for the free expression of matters of importance relating to the building trade and architectural profession, and as the widest range of opinion is necessary in order that different aspects of such matters may be presented, the editors assume no responsibility for the opinions or facts in signed articles.

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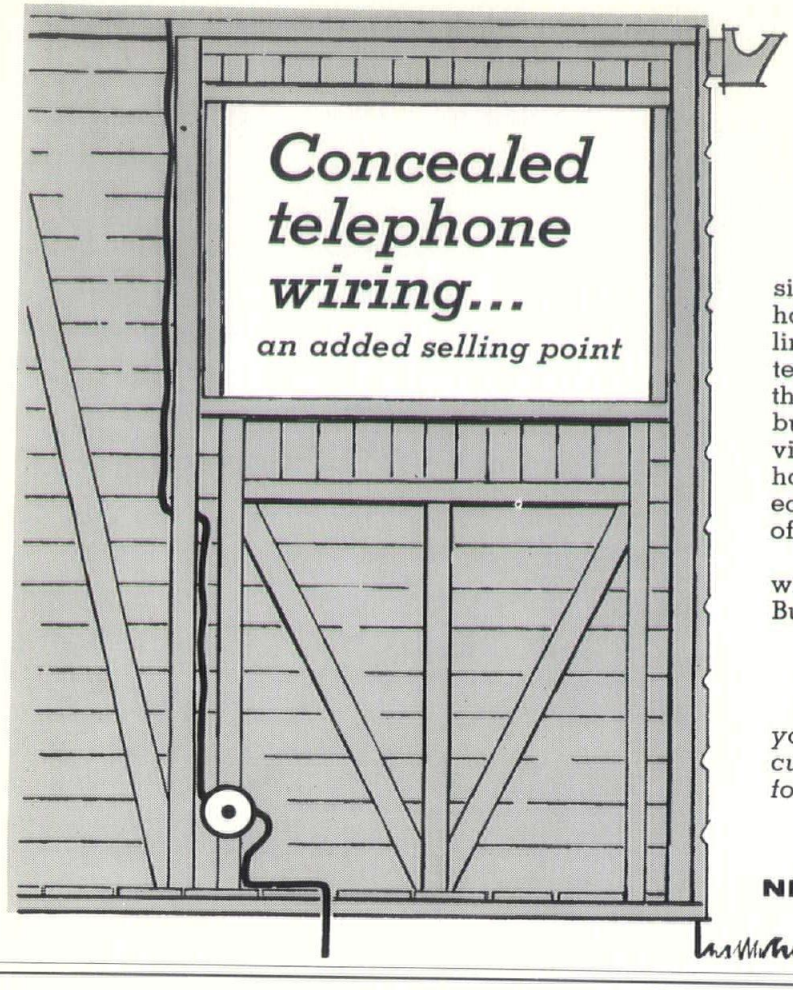

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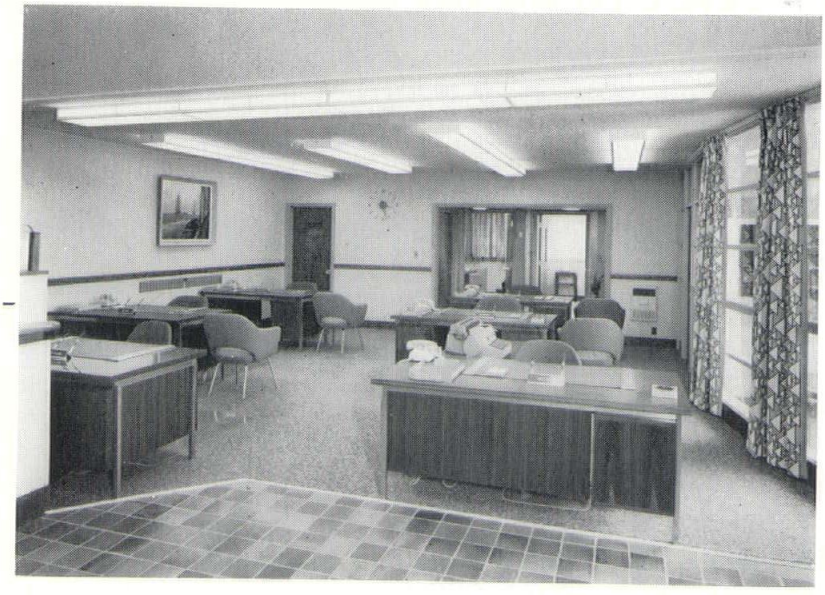

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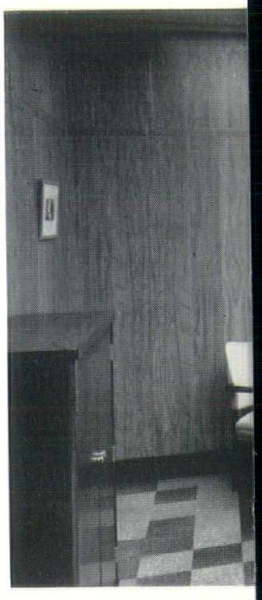
MOVABLE PARTITIONS . . .



by
EL ANGOVE
Manager, Movable Partition Division,
Pitcher and Co., Inc.

PART I

Tomorrow is the concept which shapes our world of today. In the world of architecture and building construction, this is graphically demonstrated. The architect must consider his project not only as it meets his client's needs today, *but more importantly, as it relates to his client's activities a year, ten years, and twenty years from now. And the builder must approach his construction with an eye to permanence, the bridge that carries his client's business across the tomorrows.*

These considerations are almost always tempered by the limit to which money may be spent. You cannot build **now,** certainly, 15,000 square feet of floor space to remain unused until it is required five years from now. Even if money were no object, it is still impossible to foretell exactly the future's requirements for **any** business or institution.

The only thing you can predict accurately is that there will be **change.** To keep pace with tomorrow, the client must be given in his building a flexibility . . . a built-in ability to change his environment as his needs change. And you **can,** within the limits of today's dictates and budget, incorporate many features of construction which will satisfy your client's changing needs "tomorrow."

Movable walls are among the most dramatic examples of building products which completely solve a problem today. . . and yet may be changed without added material cost to solve different problems time after time as the years pass. Their value to the owner actually increases as they are used and moved.

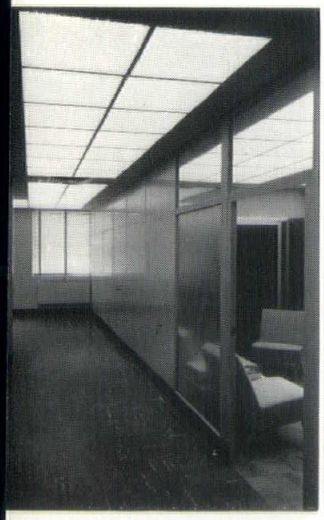
On the contrary, fixed walls, in their heavy, immovable forms from stud-lath-and-plaster to concrete block, often create more problems than they solve. They are thicker than movable partitions, and occupy greater valuable floor space; they are heavier and impose greater floor loads; they require periodic, expensive maintenance; they usually have little aesthetic appeal; and most important, they cannot be moved without extensive labor, debris, material loss, disruption of business activity in the area, and cost. True, fixed walls divide space well, but what place can they have in tomorrow's changing world?

Architects, always eager for new solutions to old problems, were quick to accept the concept of

TOMORROW'S WALLS TODAY

Simulated wood grain panels instill an executive air in this private office. For all their richness and solid appearance, these movable partitions may still be quickly taken down and re-erected elsewhere, as changing business needs dictate.

movable walls when first introduced. At least they could offer the client a flexible arrangement of space division. Walls could be moved over a single weekend, without debris or refinishing, to meet the client's **changed** requirements. If necessary, this move could even be accomplished during regular business hours, with a minimum of employee lost-time in the immediate area. Further, the client could even be offered an opportunity to "try on for size" a proposed office layout. If the layout was not satisfactory, the walls could always be **moved,** and the layout **changed.**



The builder was quick to grasp the advantages of movable walls, too. Here was a substantial part of his construction which could be fabricated elsewhere while other work was in progress, and at the proper time, delivered to the job and erected. **in finish condition,** much more rapidly than fixed walls. Too, the built-in wireways, simple glazing, and modular construction made it easier to coordinate the work of his subs.

As the acceptance of the concept of movable walls spread, and the demand began to grow, movable partitions appeared in a variety of designs and materials. Many of these were entirely unsatisfactory. Some were far too costly; some were ugly and clumsy in appearance; and some were so difficult to take down and re-erect that they simply were not movable partitions. The chaff soon became separated from the wheat and faded from the picture.

Part Two of this series will explain classifications of Movable Partitions and detail an actual remodeling job, its demolition of existing fix walls and the installation of Movable Partitions.

Supplement to Part II

DECORATIVE TILES

by

E. STANLEY WIRES

DUTCH TILE PICTURES:—The illustrations shown through the courtesy of the Historical Museum of Rotterdam and the Rijks Museum of Amsterdam are examples of the best tile pictures of Holland.

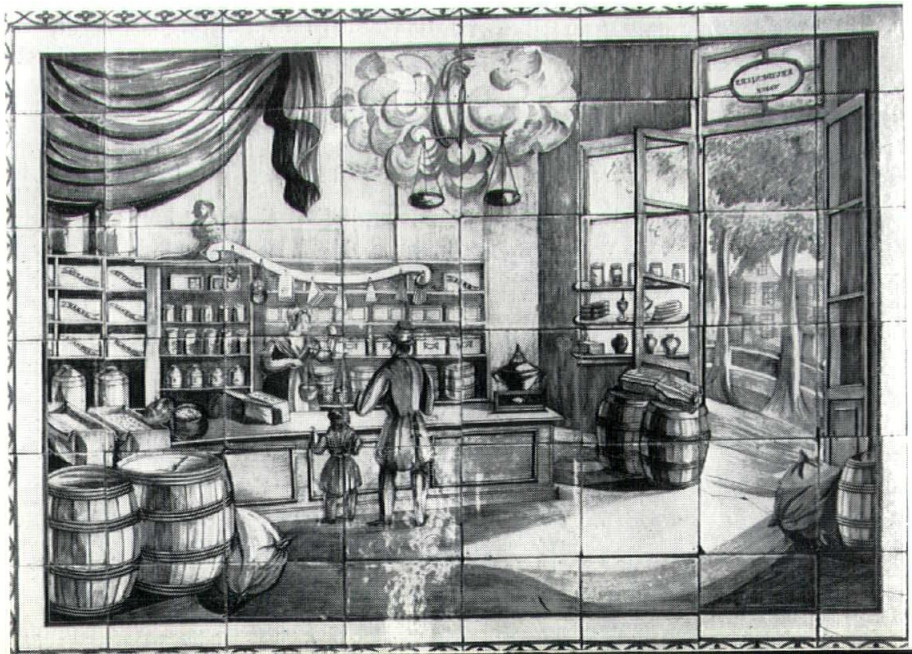
In addition to the subjects illustrated we find less important tile pictures, showing flower-vase motives and those representing a canary bird in its cage, parrots and animals, which were often installed on the kitchen walls.

The artistic treatment of these pictures show the talent of both the potters and artists who were employed to paint the designs. The absence of a signature on the early work in no way denotes inferiority of workmanship, for at that time competition had not begun to influence the industry, requiring a protecting mark or signature.

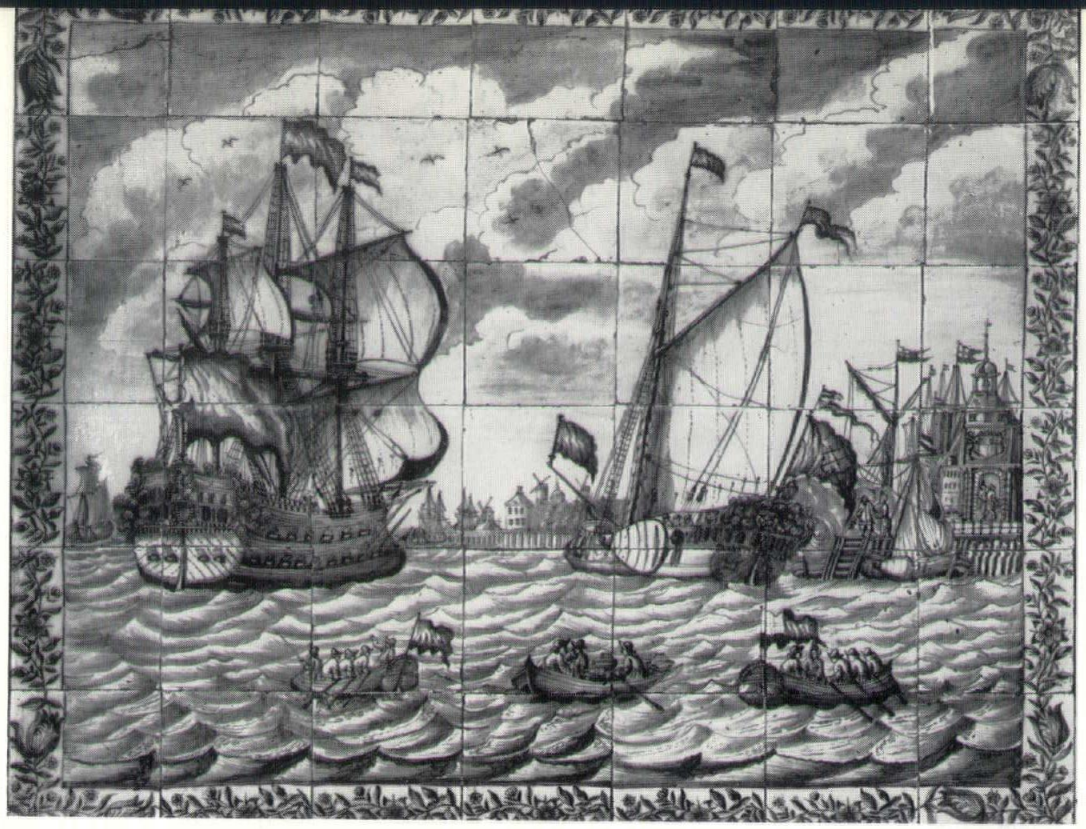
Due to the size of the panels great skill was required in the process of firing and the expense and risk was so great that none but the wealthy could afford these pieces.

The writer has previously mentioned the position held by the city of Delft in connection with the potteries but we must not forget that tile pictures were made in other Dutch cities. There were twenty tile factories in Rotterdam that produced typical tiles of exceptional design and color. One of the best known was the "Flowerpot" Tile works owned by the famous Aelmis family, through which the industry was handed down from father to son for several generations.

Courtesy—Rijkmuseum, Amsterdam
Chinese landscape of 78 tiles—18th century



Courtesy—Historisch Museum Rotterdam
Grocery Shop



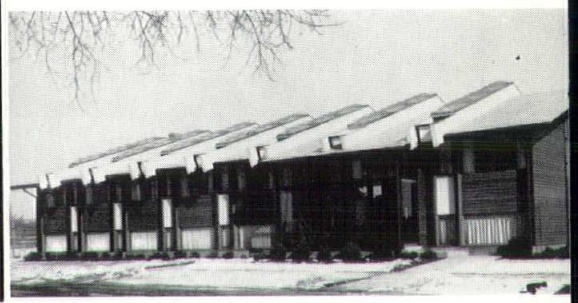
Courtesy—Historisch Museum, Rotterdam
William III departure to England from Rotterdam—17th century

Courtesy—Historisch Museum, Rotterdam
Naval Battle at Duins, 1638—17th century

Courtesy—Rijkmuseum, Amsterdam
Tile in blue—purple and green, 17th century

Courtesy—Rijkmuseum, Amsterdam
Large landscape tile in blue and white —17th century

Vertical strips of mahogany accent the entry wall for the Henrich Lumber Company's new Buffalo, N. Y., office. The clear-span interior is made possible by use of an unusual plywood box beam bent roof support system. The beams are installed in pairs and serve as frames for a plastic bubble skylight and lighting fixtures base as well as structural supports (background).



The unusual roof system of this Buffalo, N. Y., office building has an exoskeleton of fir plywood box beams 24 feet long, joined and erected as bents. The paired beams are separated by plastic bubble skylights and also are used as light fixtures, with fluorescent tubes installed inside. The beams are fabricated with flanges of 4x4 solid lumber and have webs of 5/8-inch exterior fir plywood. Spacers inside the beams also are of 4x4 lumber, and share the interior with insulation batts.

LUMBER YARD OFFICE . . .

. . . *Showplace for Wood*

The new, two-story office of a large Buffalo, N. Y., building products firm was designed as a showplace for material it offers for sale. A variety of wood finishes is combined with glass and synthetics. But the building's most unusual feature is 14 plywood box beam bents, used as the exoskeleton for the roof.

Most girders, no matter what their composition, are visible only from the interior of a building, if they're exposed at all. Highland and Highland, architects for the Henrich Lumber Co., created attractive design that takes advantage of the beams' strength as roof supports and at the same time manages to display the beams from both the outside and the interior. The arrangement of the beams, and their combination with plastic bubbles, integrates them into the lighting system of the offices, providing another subtle design suggestion for contractors and architects who visit the building.

William Henrich, president of the firm founded by his grandfather, was determined to have a building that would be more than just a place to keep the company accounts out of the rain.

Something With Warmth

"We've seen these little offices built of brick and steel in the suburbs. They've got a cheese box design and look out of place, especially in a place where people are supposed to know something about building. We wanted something with warmth, and we wanted something that would display a lot of unusual woods. The building we came up with would have cost about 20 per cent more if we'd used brick and steel, anyway, so we figure we're way ahead of the game."

Henrich retained Highland and Highland to design the hub of his new building complex, and brought in the John W. Cowper Co. as project engineer and contractor for the over-all program, which included a number of other engineered uses of wood.

Lots of Space Needed

The office building had to be fairly large; offices were needed for Henrich and other company officers and for sales personnel and clerical help. The accounting department needed offices of its own, and Henrich wanted a lunchroom and lavatory for yard personnel.

Henrich also wanted a spacious, well-lighted building with good acoustical qualities and lots of high-ceiling, clear-span space. The solution filled all the requirements. The unusual building has drawn many compliments, to Henrich's relief. The traditional conservation of his trade was an unknown factor when he built.

The building is approximately 83x36 feet, with a shipping office set out from a rear corner to give its occupants a clear view of activity in the yard and on a railroad siding. Offices are on the main level, with service facilities and a large area for office expansion below.

Modules Alternate

The architects developed a system using alternate modules of 8 feet and 2 feet, 8 inches. Supporting columns were placed 12 feet in from the front wall. The modular system permitted the use of fixed glass and other standard sheet materials in the wall structure, with the 2-foot-8 module adding rigidity and making provision for operating sash and decorative panels.

Nearly all the structural materials are mahogany and are exposed, both inside and out. Spandrel panels between the upper and lower windows are ½-inch beveled mahogany siding over ¾-inch sheathing grade fir plywood, with another ½-inch plywood layer inside. A variety of ¼-inch special-finish plywood is used on the interior walls.

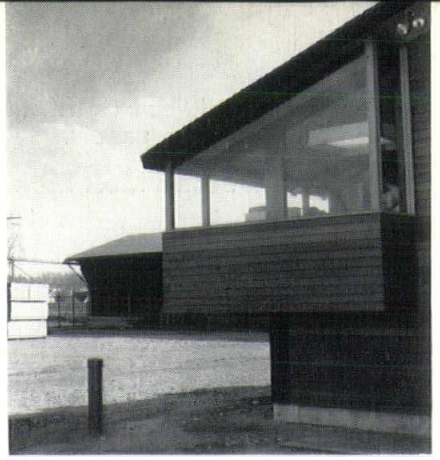
The 2-foot-8 modules are finished in alternating ceramic or decorative panels.

Box Beams Most Economical

Laminated bent frames seemed to be the obvious choice for roof supports, but investigation by both the architect and engineer determined that a more economical and interesting system could be provided by plywood box beams. It was decided that these girders would be a more dramatic display of the framing possibilities of wood.

Interior of the new Henrich Lumber Co. office building at Buffalo, N. Y., is lighted by skylights resting between paired box beams in the roof. The beams, fabricated from 4x4s and ⅝-inch fir plywood, are exposed from both the outside and inside. The lower ends of the beams also act as frames for casement windows. A variety of decorative woods was used as interior finish.

The interior of a new office building at the Henrich Lumber Co. in Buffalo, N. Y., is finished in a variety of decorative woods. Unusual plywood box beam bents span the 36-foot wide structure and act as skylight frames as well as structural members for the roof. The artificial lighting is hung on the edges of the beams, which are installed in pairs.



The yard superintendent for the Henrich Lumber Co. of Buffalo, N. Y., has a clear view of activity in the yard and adjacent railroad siding from the windows of his office, set out on a corner of the firm's new office building.

The continuation of the 8-foot and 2-foot-8 modular system suggested that these girders be placed in pairs to provide better lateral bracing and that they project above the roof to form continuous skylighting. This was achieved by a series of plastic bubbles installed between each set of beams to form a heat resistant system that diffuses light throughout the building and keeps use of artificial illumination—installed along the girders—to a minimum.

The girder system made installation of flashing simple, to keep snow and water from the skylights and ledger strips attached to the beams provided a surface for nailing 3x6 double tongue and groove hemlock sheathing. This was finished in a natural color for the ceiling and covered with polyethylene paper and 250 pound white asphalt shingles for the roof.

Bubbles Installed Last

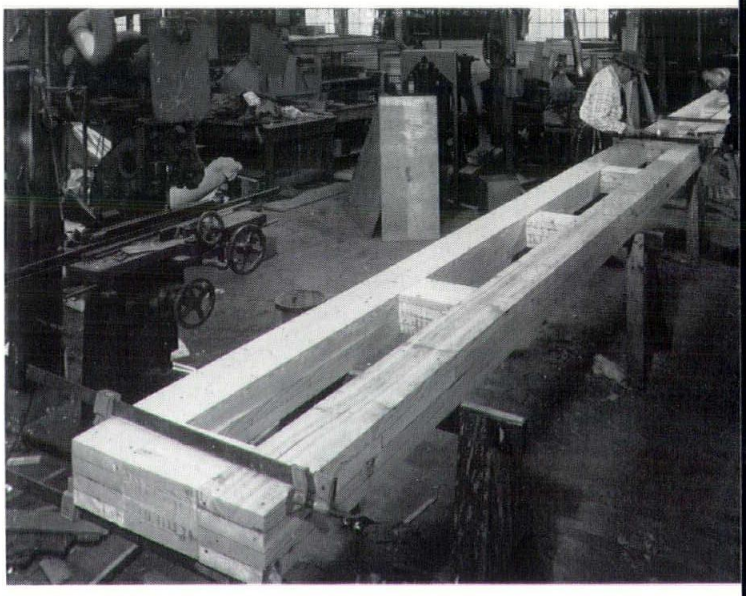
The 24-foot beams were fabricated and joined as bents in Henrich's shop in specially-built jigs. Each beam was made with continuous top and bottom flanges of 4x4 Douglas fir glued and nailed to 5/8-inch exterior fir plywood webs. Spacers of 4x4 fir were fabricated into the beams 6 feet on center, along with 1 1/2-inch styrofoam insulation. The beams were erected one at a time and joined with 4x4 stringers on the roof. The bubbles were installed and sealed in place after erection of the beams.

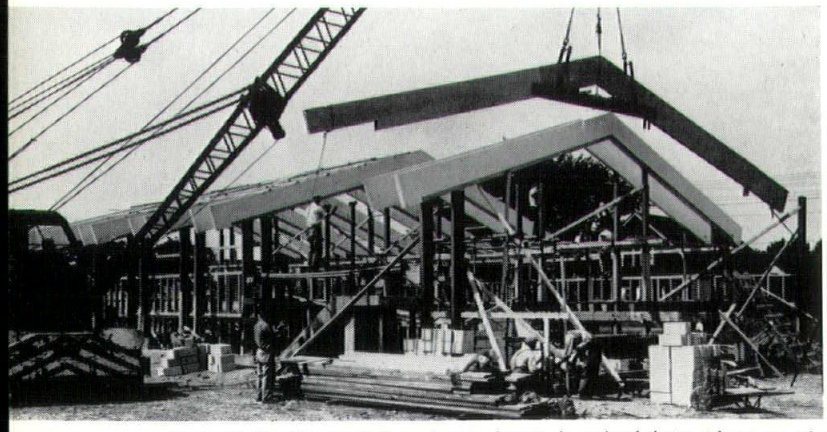
All the mechanical vents required for the job are housed in one interior partition in the rear half of the building. This is the only ceiling-height partition. Most of the others are glass, with the partitions between the private offices glass above the 7-foot height. The glass allows for acoustical zoning but leaves the feeling of spaciousness Henrich demanded.

Truss is Glazed

Above the partitions and doors from the private offices to the general offices, due to the contour of the roof, is a clearance of several feet. A large mahogany longitudinal truss is located here to provide necessary wind bracing and structural stability. The triangular and diamond shaped areas between the truss members also are glazed.

Vinyl finish flooring is laid over 1/4-inch fir plywood underlayment put down over 5/8-inch plywood subfloor supported by 2x10 joists 16 inches o.c. The lower level has a concrete slab floor, with precast marble terrazzo tiles in the entryway.





One of 14 plywood box beam bents is raised into place on the new office building of the Henrich Lumber Co. at Buffalo, N. Y. The beams were erected in pairs and act as frames for plastic bubble skylights as well as for roof framing. The beams are fabricated from continuous 4x4 flanges and spacers, with webs of 5/8-inch fir plywood glued to the framing.

More Conventional Uses

Plywood box beams, combined in this application with stressed skin panels, are used more conventionally as supports for the roof of a hardwood warehouse.

The beams span the 40-foot width of the building, which is about 88 feet long. Each beam has top and bottom flanges of four 2x8s on edge laminated together, with webs of 5/8-inch C-D fir plywood with exterior glue. The beams are of glue-nailed construction.

Stressed skin panels for the roof deck span eight feet and have top skins of 3/8-inch C-D fir plywood with exterior glue and bottom skins of 1/4-inch plywood glued and nailed to 2x2 framing 16 inches on center.

Henrich fabricated all the components in his shops.

BUILDING

MERRIMACK GENERATING STATION
PUBLIC SERVICE COMPANY OF
NEW HAMPSHIRE
BOW, NEW HAMPSHIRE

ARCHITECTS AND ENGINEERS

JACKSON AND MORELAND, INC.
BOSTON, MASSACHUSETTS

CONTRACTORS

SANDERS CONSTRUCTION
CORPORATION
PORTLAND, MAINE

Opened in September was the new Merrimack Generating Station of the Public Service Company of New Hampshire. This multi-million dollar plant is the first unit of a proposed four unit station to be located on the Merrimack River in Bow, New Hampshire.

At night, with interior lights on, the Kalwall Translucent Walls glow with a brilliance that can be seen for miles around. During the day, Kalwall transmits a high level of diffused, shadowfree daylight to the interior—yet this new product has the best insulation of any light transmtting material.

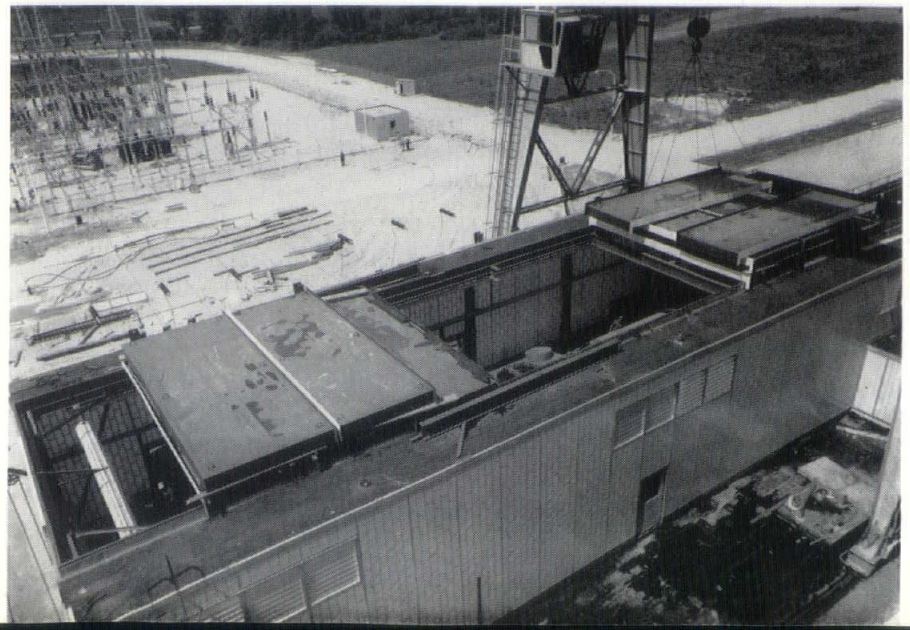
NEW ENGLAND POWER STATION FEATURES UNIQUE TRANSLUCENT GENERATOR HOUSING

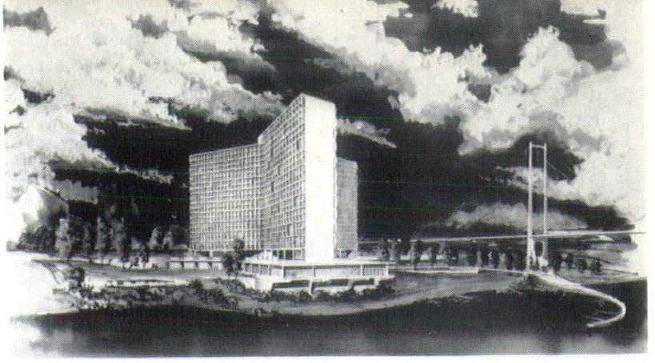
The minimum-size turbine generator enclosure—constructed with the new lightweight and translucent wall system manufactured by Kalwall Corporation, Manchester, New Hampshire, is the first of its kind in northern climates. In conventional design, the generator housing also contains an overhead crane used in servicing the equipment. However, to reduce the total volume — and save over $350,000 — Public Service engineers and the Boston office of Jackson and Moreland, Inc., replaced the overhead crane with an outdoor gantry —enclosing only the generator itself.

The consequence of this design, pioneered in mild southern and western climates, is that all servicing must be accomplished outdoors. Weighing the tremendous savings possible against the probability that the once-a-year servicing of the generator would be necessary during unfavorable weather conditions, the engineering teams selected the minimum enclosure design based upon evidence of a low incidence of such occurrences in the past operations of Public Service Company's plants.

A high level of well diffused, natural daylight is provided for the generator operation by the use of the Kalwall Translucent Wall system. Translucent units, weighing approximately 1½ lbs./sq. ft., in sizes 4′ wide x 18′ high, completely surround the generator. Added to the above savings were the economies of the Kalwall system—72 sq. ft. of wall area was erected at one time, and, because of the extreme light weight, with a minimum of labor. All members, including head, sill and jamb closures, were prefabricated at the Kalwall factory, and installed with maximum speed.

Because of the flexibility of the Kalwall Translucent Wall system, future power units may be added on to the existing facility with no loss of material—the translucent end wall will simply be removed and reinstalled in the new addition. As the present plant is but the first of four units, the additional equipment and housing (scheduled to be under construction within the next five years) will be rapidly and economically extended from the present building.





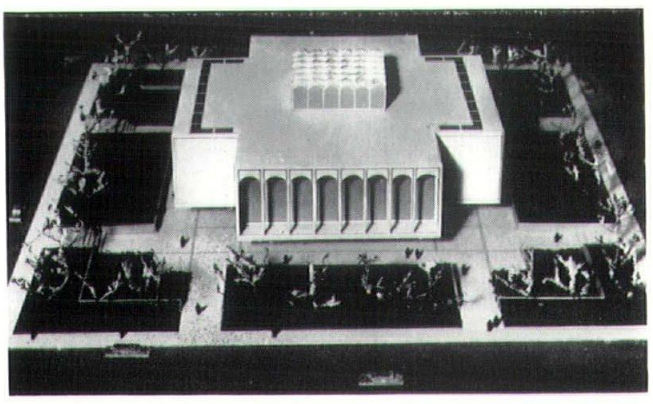
SIX ARCHITECTURAL STUDENTS WIN SCHOLARSHIPS IN KOPPERS COMPANY COMPETITION

Architectural design of the future will not suffer for a want of creative and imaginative thinking if the results of a recent collegiate architectural competition are any indication.

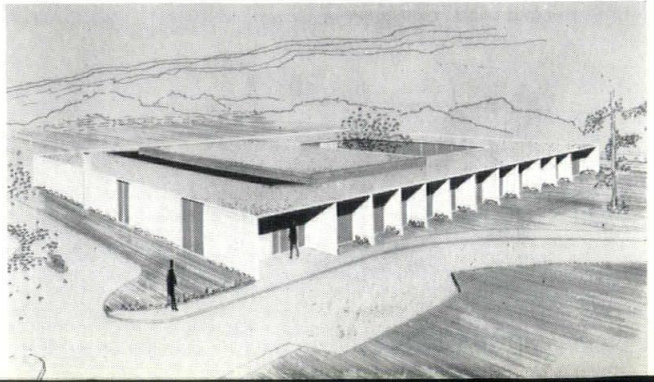
Students in six architectural schools from widespread regions of the country proved in the recently completed Student Architectural Design Competition sponsored by the Tar Products Division of Koppers Company, Inc., that there is no dearth of ideas among the young . . . whether the design project is a museum to house the relics of the past or a housing plan to provide greater living space for the expanding populace of the future

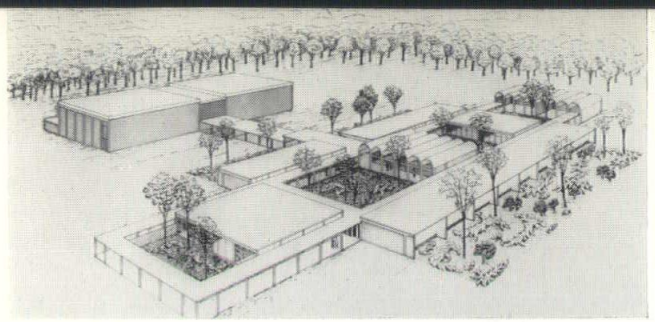
Scholarship awards of $1,000 each have been presented to originators of the winning designs at each of the six participating schools. All fourth year students, their scholarship funds will be used toward their fifth year tuition.

They were chosen from finalists at each of the schools by a national panel of judges which included Paul Schweikher of Carnegie Tech, Paul Rudolph of Yale and Joseph Hazen of Architectural Forum magazine.



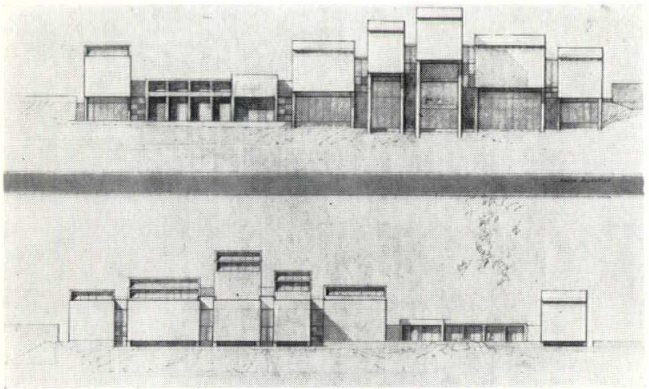
J. T. Robertson, Yale, for, in the words of the judges, "highly imaginative" treatment of museum design; Richard Claybow, Washington University (St. Louis), for a "consistent (housing) site plan





which works well as a whole, creating pleasant interior spaces and providing good transition from level to level"; Phillip T. Markwood, Ohio State, whose office building "sits comfortably on the site; its three-pronged plan taking good advantage of the views."

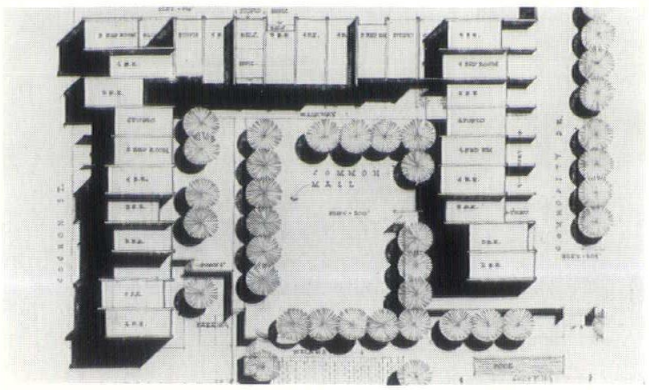
W. C. Widdowson, University of Houston, whose design for a municipal building gave a "dignified solution to the problem"; John M. Preston, Clemson University, with a school design which was a "simple solution to a complex program"; and Michael H. Spector, Syracuse University, for a hospital design, "an attractive, modest building appropriate to a small community . . ."



As in previous years of the Koppers Competition, the department of architecture in each school selected a design problem and the students competed only with their classmates, rendering their creative interpretation of the project. The only restriction as far as Koppers was concerned was its insistence on primarily flat-roof design.

Schools participating in the design competition are selected periodically on a geographical rotation basis to give regional representation throughout the 67 universities belonging to the Association of Collegiate Schools of Architecture.

Koppers Tar Products Division expects to again expand the competition for the 1960-61 season in its fourth annual Student Architectural Design Competition.



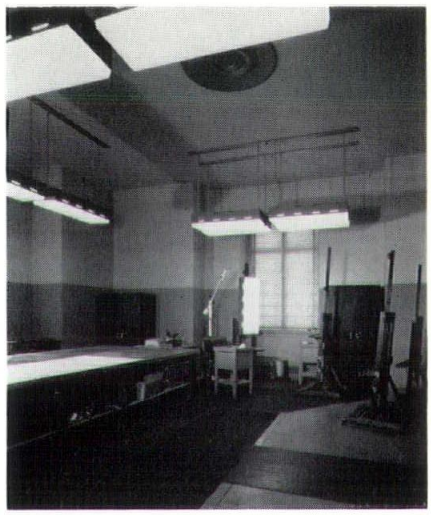
NEW ENGLAND MANUFACTURER DUPLICATES TRUE NORTH LIGHT

For the first time in the history of man-made lighting, a constant, balanced duplication of several types of "North light" have been achieved through the efforts of Wheeler Reflector Division of the Franklin Research and Development Corporation, Boston, Massachusetts. This unique product, aptly named Verilux, is the result of nearly a decade of research and experimentation by lighting engineers and color consultants.

Verilux has been specially designed for quality control and inspection use where true color and appearance must be known before finished products are shipped to their respective buyers. Manufacturers of paints, printing inks, highly complex electrical, electronic and mechanical assemblies and paper products, where visual inspection is a key factor in quality control, find Verilux an invaluable asset to their operation.

Consisting of eight specifically designed color-mixed 40-watt fluorescent tubular lamps which combine spectral values, Verilux actually produces a true "North light." The exactness of this light source has been verified by the most critical users: art restorers, art museums, printers, retouchers, engravers, lithographers and artists.

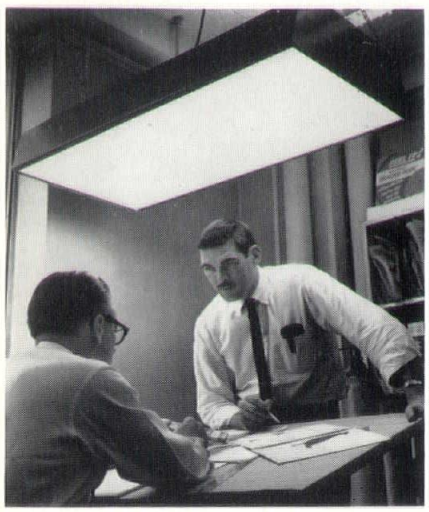
Technically, Verilux artificial daylight ranges from cold "North light" as from a clear sky, to warm "North light" as from an overcast sky. These values are obtained by interchanging lamps in the yellow to red end of the spectrum.



Masterpiece Restorers of New York City, repairers and re-touchers of paintings for the Kress Foundation and New York's Metropolitan Museum of Art, have installed Verilux units to permit their artists to work during the night. Because of the absolute correctness of color needed in the painstaking restoration of old masters, this firm is one of many who helped test Verilux in its early stages of development.

To understand the need for Verilux, one has only to view color under the three main sources of light: incandescent (ordinary light bulbs), fluorescent and natural "North light." Incandescent light

has much the same effect on colors as bright sunlight—it distorts blues and greens by greying them. Fluorescent light, on the other hand, has the opposite effect—it distorts colors in the yellow to red end of the spectrum. Of the three sources, only natural "North light" permits the eye to see colors in their true values. Verilux, because it reproduces "North light," also shows colors in their correct relationship to one another.



Grant Advertising Inc. vice president and account executive, Robert D. Hall, Jr., right, and art director, George Whinnem, examine true color through the use of a newly-installed Verilux unit which gives off a constant, balanced duplication of "North light." This product of the Wheeler Reflector Division of the Franklin Research and Development Corporation, Boston, is the result of nearly a decade of research and experimentation by lighting engineers and color consultants.

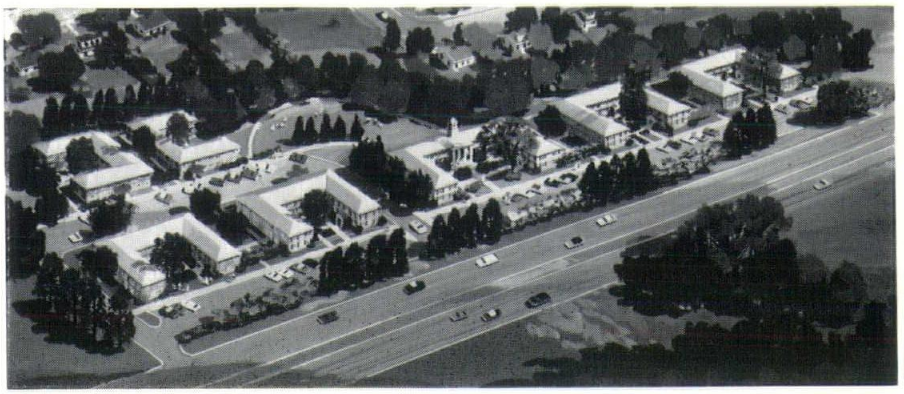
One of the main advantages of the new light is that it permits broader use of highly skilled labor. In printing plants and artists' and designers' studios, critical color work is seriously hampered on dark or cloudy days and almost impossible at night. With a Verilux unit, on the other hand, work may continue uninterrupted.

Among the firms now utilizing Verilux are one of the nation's leading art museums, which uses the unit for restoration work on priceless paintings; a top-circulated magazine for checking color proofs of advertisements; a leading interior decorator to assure color matching fabrics and paint samples for his exacting clientele; a printer of women's magazines to adjust critical color tones in final press runs; a photoengraver, to check for color separation values; and a lithographer, specializing in color work who uses Verilux to match proofs against original artwork.

Over-all dimensions of a single, standard Verilux unit are 46⅞ x 23⅞ x 8⅛ inches deep. The body of the fixture is 18 gage steel, welded for strength and rigidity. Beneath the eight lamps is a diffuser of either white, translucent Plexiglas or a plastic eggcrate louver. The unit draws 320 watts of 110-volt, 60-cycle a-c current and can be adapted to other voltages and cycles on request. A smaller unit is also available on special order.

Verilux is available for immediate custom-engineered installation to meet any user's exacting requirements. The unit cost, depending upon its application, is approximately $200. Verilux units, in actual use, may be seen by contacting the local Wheeler Reflector sales office, 275 Congress Street, Boston, or by writing direct to Department C.W., Wheeler Reflector Lighting Division, Franklin Research and Development Corporation, 275 Congress Street, Boston 10, Massachusetts.

Bulletin DIGEST



WINDSOR GARDEN APARTMENTS

Windsor Garden Apartments on Route 5-A (Hartford-Springfield Highway), Windsor, Connecticut, is a 115-unit garden apartment project now under construction with completion scheduled for late fall.

This $1.3 million project, designed by Manchester, Connecticut, Architect, Arnold Lawrence, with the office of Morton S. Fine, Hartford, as site planning engineers, is being built by I. R. Stitch Associates of West Hartford, Connecticut.

The project, being built on ten acres, contains 38 two bedroom duplex apartments and 77 one and two bedrom flats.

Each apartment contains a built-in range and oven, summer air-conditioner, individual winter heat control and TV system.

On site parking is provided at the rate of 1½ spaces per dwelling unit, recognizing the trend for more than one car per family.

In addition to tot-lots and drying yards, a recreation area equal to the floor area of the apartments is provided.

PINSLEY, BELLINGER AND TRILLING UNITE TO FORM NEW REP FIRM

The new firm of Pinsley, Bellinger and Trilling, manufacturers' representatives for the Institutional Suppliers, has been formed, with headquarters at 510 Cambridge Street, Boston.

Arthur Pinsley is President, Wayne J. Bellinger is Vice President, and Sumner L. Trilling is Treasurer of the new company, which supersedes the former Pinsley & Bellinger partnership.

Sumner L. Trilling, the newest member of the firm, for the last fourteen years was associated with Bolta Products Division of General Tire and Rubber Company—eleven years as the Sales Manager of the Restaurant Equipment Division and the last three as General Sales Manager.

Sumner Trilling

The new firm will represent the complete Hotel and Institutional Line of Bolta Products among others.

Asociated with the firm as territorial salesmen are Donald F. Rust and Maurice C. Aldort.

TO STUDY IN ROME

LEAVING VIA PLANE to survey pre-stressed concrete architectural design in Rome and view the Olympic buildings are Richard Olmsted, Dartmouth College business manager, left, and Philip R. Jackson, Newton, general manager of Wexler Construction Co. of Newton, right, with Mrs. Jackson, center. The two men will study advanced utilization and costs of pre-stressed concrete in modern building structures.

PRODUCERS' COUNCIL GOES INTO ORBIT

Boston P. C. Vice Pres. Arthur Murphy of Libbey Owens Ford Glass Co. returned from the Eastern Regional Executives Meeting in the Poconos with something other than a pleasant memory of those beautiful Pennsylvania mountains. He brought back to Boston the nucleus of a plan which has developed into "Operation Satellite."

Officers for 1960-61 Boston Chapter Producers' Council (left to right) Vice President, Arthur R. Murphy, Libbey Owens Ford Glass Co.; President, William G. Clyde, E. F. Hauserman Co.; Treasurer, John S. Cooke, ALCOA; and Secretary, James J. Regan, Dow Chemical Co.

One of the problems confronting the Boston Chapter of Producers' Council has been the difficulty in making its program sufficiently effective with the Architects and Engineers outside of the metropolitan area. Attendance by those from such cities as Portland, Manchester, Worcester and Providence has been understandably limited because of the traveling time involved. "Operation Satellite" will be a giant step toward alleviating this problem.

(Continued page 22)

PRODUCER COUNCIL GOES INTO ORBIT (Continued)

The Council membership will be divided into teams (satellites, if you will) consisting of five or six members. These teams will bring to the Architects and Engineers of the several cities a complete program composed of product displays and presentations. It is intended that over a period of time each of the groups will make a complete orbit resulting in a visitation by each group in all of the cities selected.

Boston Chapter Producers' Council members shown at their recent business meeting at the Engineers Club to discuss the fall program.

"Operation Satellite" will be another endeavor on the part of the Boston Chapter of Producers' Council to fulfill its intended purpose of bringing to the Architect and Engineer quality products and every assistance possible in the use of those products.

HOME BUILDERS PANEL:

In a salute to National Homes Week, experts reviewed recent developments in the home-building field, Sunday, over TV Channel 5. From left to right: George DeVries, president of the Home Builders Association of Greater Boston; Emil Hanslin, treasurer of the Robert Stone Company; John Grossman, vice president in charge of operations of L. Grossman Sons, Inc.; Edgar Dupuis, builders representative for the Worcester Gas Light Company; Joseph B. Grossman, vice chairman of the board at Grossman's, and David T. Zussman, chairman of National Homes Week.

K&E APPOINTS O'KEEFFE AS RESEARCH ASSOCIATE

Appointment by Keuffel & Esser Co. of Andrew E. O'Keeffe as Research Associate was announced by Dr. T. O. Norris, director of research and development. Mr. O'Keeffe will specialize in electrophotographic research and techniques.

Before joining Keuffel & Esser, Mr. O'Keeffe, a research chemist, was research manager of Philip Morris, Inc., Richmond, Va.

A 1933 graduate of Notre Dame where he was awarded a B.S. degree in chemistry, Mr. O'Keeffe earned his M.S. degree in chemistry from the Polytechnic Institute of Brooklyn in 1938. He served in the U. S. Army from 1941 to 1945 and was discharged as a Major.

Mr. O'Keeffe is a member of the American Chemical Society, a Fellow of the American Institute of Chemists, the New York Academy of Science, and the Chemists' Club of New York.

ILLINOIS MAN HEADS INSTITUTE

At the September 27th opening of the Prestressed Concrete Institute annual convention, Jacob O. Whitlock, president of Midwest Pre-

stressed Concrete Co., Springfield, Ill., was elected president of the Institute for the coming year. He will succeed Randall M. Dubois, president of Freyssinet Co., Inc., New York. The convention will run through Sept. 30.

New officers and directors elected at the meeting at the Statler-Hilton Hotel represent seven states, with Florida having two of the new board members.

Robert J. Lyman, Atlas Structural Concrete, Inc., El Paso, Tex., was chosen vice president of the group; and Robert A. Matthews, Precast Industries, Inc., Kalamazoo, Mich., was named secretary-treasurer.

New directors elected are: Harold R. Hutchens, Carter-Waters Corporation, Kansas City, Mo.; W. C. Givens, Capitol Concrete Corporation, Jacksonville, Fla.; Robert H. Singer, Ben C. Gerwick, Inc., San Francisco, Calif.; Harry Edwards, Leap Concrete, Inc., Lakeland, Fla.; Edward Schechter, Stressteel Corporation, Wilkes-Barre, Pa.

Charles B. Kiesel, Jr., Raymond International, Inc., New York, N. Y., and Elmer D. Clark, Superior Sand & Gravel, Phoenix, Ariz., were re-elected to the board, and Ezra C. Knowlton, Utah Sand & Gravel Products Corp., Salt Lake City, Utah, continues as director.

PLANS FOR NEW BROOKLINE OFFICE BUILDING ANNOUNCED

Plans for the construction of a distinctive new suburban office building on Route 9 in Brookline have been announced by Leo A. Wexler, President of Leo A. Wexler, Inc., of Newton Highlands, Massachusetts. The new Boylston Executive Building will be situated within Lyman Park on Route 9, at 900 Boylston Street, Brookline. The suburban location is easily reached by MTA bus lines and the Highland branch transit line.

The Boylston Executive Building will feature luxurious office interiors and a planned working and recreational environment in a quality country atmosphere. On the ground floor, a spacious undercover drive-in entrance will lead to a large entrance lobby and two automatic elevators. The building will be completely air-conditioned. Each office will have provisions for integrated fluorescent lighting and acoustical ceilings, modular to fit partitioning needs. Integral sun control shields will provide maximum working ease. Office units are available in area up to 51,900 square feet.

Parking for 140 cars, with 10 cars under cover at the building entrance, will be provided. The landscaped parking and recreational area measures about 2¼ acres, and rises from the street level in a graceful contour ending at the building entrance. Shade trees, gardens, walks, benches and a reflecting pool will provide a pleasant working environment. Shopping, banking, restaurants and other service facilities are nearby at Chestnut Hill Shopping Center and other locations.

Officials of the Wexler Construction Company plan to start construction in the near future. It is expected that the Boylston Executive Building will be ready for occupancy on June 1, 1961.

Architects of the new office building are Salsberg and LeBlanc of Boston. Structural engineers are Linenthal and Becker, Inc., of Boston. The F. P. Morgan Company, of 45 Milk Street, Boston, is the exclusive rental agent for the building.

New! Dramatic accent colors by Natco.

The accent colors shown above are now available in Natco's line of ceramic glazed "Vitritile"—a genuine structural clay tile product. These colors can be used in combination, or can be used with standard "Vitritile" field colors to create interesting, colorful interior wall designs or patterns. The colors are: 1. Accent black, 2. Accent orange, 3. Accent yellow, 4. Accent dark blue, 5. Accent dark green, 6. Accent light blue, 7. Accent light green, 8. Accent brown, 9. Accent red . . . and two Natco Vivid colors, 10. Vivid orange and 11. Vivid red. For further information write for bulletin CC-60.

natco corporation

GENERAL OFFICES: 327 Fifth Avenue, Pittsburgh 22, Pennsylvania . . . BRANCH OFFICES: Boston • Chicago • Detroit • Houston • New York • Philadelphia • Pittsburgh • Syracuse Birmingham, Alabama • Brazil, Indiana . . . IN CANADA: Natco Clay Products Limited, Toronto

BROADCAST HOUSE BEING LIFTED-UP

Broadcast House, the first building started in the new $50,000,000 Constitution Plaza, a 12-acre urban renewal development here, is starting to come above ground.

Broadcast House, which will be the new home for radio and television stations WTIC, is a unique building, created by architects Fulmer & Bowers and built by Lewis C. Bowers, Inc., both of Princeton, N. J. It was specifically designed to take advantage of the efficient new "lift-slab" method of construction.

During the past three months, the building actually was being constructed in the basement. The first, second, third, fourth floors, and unique pyramid roof, built of reinforced concrete, were constructed one on top of the other, with electrical and plumbing lines installed directly into each floor slab.

Anchored to concrete footings, are 42 steel columns that now protrude only 20 feet above street level. But as the lifting progresses, the columns gradually will be extended to the building's full height by adding on more sections of steel. The pre-built roof and floors will be hoisted-up these steel columns by hydraulic jacks, and welded into place. Since each floor has an area of about 16,000 square feet, half of a floor slab, weighing about 880,000 pounds, will be raised at a time.

This type of construction was selected because the new building is on a relatively small site, limiting the space available for construction of a conventional steel frame building.

Prefabrication is consistent throughout the building. In addition to the floors and roof, even the walls are made of pre-cast decorative concrete. And the building is so designed that a fifth floor can be added later, if desired.

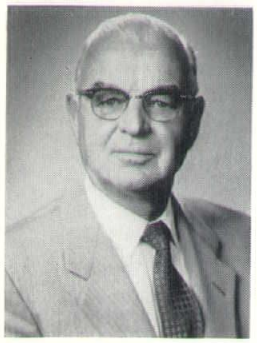
The building is scheduled for completion by Spring, 1961.

In addition to Broadcast House, Constitution Plaza will contain five office buildings, a 250-room hotel, a shopping center, and an underground parking lot for 1,800 cars.

The development of Constitution Plaza is being sponsored by the Travelers Insurance Company.

FEDERAL SEABOARD TERRA COTTA CORPORATION ELEVATES SENIOR OFFICERS

The Board of Directors of Federal Seaboard Terra Cotta Corporation, the world's largest producer of Ceramic Veneer, announced last month the elevation of the company's top officers to positions of new responsibility.



Mr. O. E. Mathiasen

Karl Mathiasen has been named to the unfilled position of Chairman of the Board. His younger brother, O. E. Mathiasen, who has been vice president and manager of the plant at Perth Amboy, N. J., since 1950, succeeds him as President.

Mr. O. E. Mathiasen majored in ceramics at Ohio State and Rutgers universities and in powder metallurgy at the Stevens Institute of Technology. He is a member of the American Ceramic Society, the Rotary Club, and the American Scandinavian Foundation.

Federal Seaboard Terra Cotta Corporation was founded by Karl Mathiasen, Sr., father of Karl and O. E. Mathiasen, and has been in continuous operation since 1888. Into this company over the years were merged many of the East's leading manufacturers of architectural terra cotta. Today Federal Seaboard custom-makes, to architects' specifications, Ceramic Veneer in plain surfaces, polychrome panels, sculpture and solar screens in a virtually unlimited range of colors. New ceramic glazed building products introduced this year include 3/8" CV Durathin and CV Durathin Sandwich Panel.

Executive offices of the firm are at 10 East 40th Street, New York 16, N. Y.

NEW OFFICE ADDITION

"Mock-up" testing of layouts and materials to be used in the multi-million dollar home office addition of the Massachusetts Mutual Life Insurance Company is under way. Test units are being installed in a shell building by the Turner Construction Company.

The mock-ups will be used to examine and test various features of construction which will be used in the new building.

Such items as typical partitions, acoustical treatment of ceilings, lighting methods, windows and window frames, floor tile, and heating and air conditioning outlets can be observed and checked before being incorporated into the final plans. After the test building has been used for this purpose, it will be converted into a field house for recreation, classroom and training purposes.

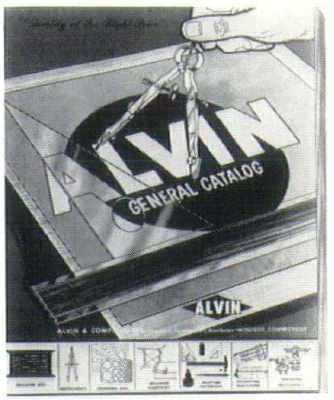
The Massachusetts Mutual announced its plans to construct the four-story addition to its Springfield home office late last year. Construction will begin in March, 1961, and will be completed by early 1963. The new wing will have a simplified Georgian motif similar to the present building and will absorb the company's growth and expansion over the next 10 to 15 years. Plans are being prepared by the architectural firm of Hoyle, Doran and Berry of Boston.

LITERATURE AVAILABLE

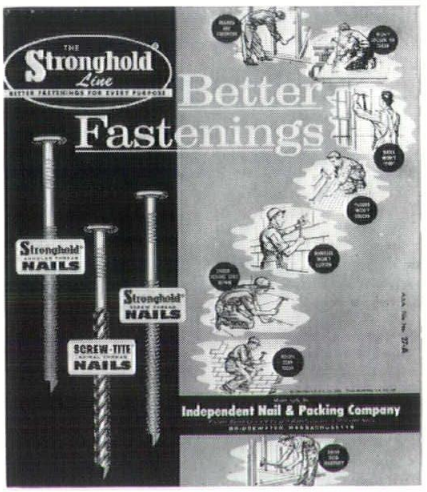
NEW 1960 CATALOG OF DRAWING AND MEASURING INSTRUMENTS

Alvin & Company, Inc., of Windsor, Connecticut, has just released a new 124-page catalog which offers the most complete line of drawing and measuring instruments and equipment available from any one source.

Particularly intended for Dealers, Schools, Colleges, and Engineering Departments, the new ALVIN catalog contains hundreds of additional new items, making it the most comprehensive catalog and reference in its field. Included are advanced drawing sets, drawing instuments, designing aids (templates for architectural, electronic, tool design, and other fields), drawing equipment, drafting materials, computing and measuring devices, magnifiers, surveying instruments and other miscellaneous items used in the drawing, drafting, engineering, and graphic arts field. Each item is clearly illustrated and described.



This ALVIN "all-in-one" catalog will be sent FREE of charge only to those who make a written request on company or school letterhead. Address inquiries to ALVIN & COMPANY, INC., Windsor, Connecticut.



A handsome new catalog covering the complete "Stronghold Line" of improved nails used in the building industry has just been issued by Independent Nail & Packing Company, Bridgewater, Mass. The company was the pioneer developer and is the world's largest manufacturer of nails made with scientifically engineered threads which result in a very substantial increase in holding power.

The new "Stronghold Line" catalog is a book of 24 pages and covers, size 8½ x 11 inches to fit standard files and binders, and is printed in two colors with quick-reference thumb indexes. It gives complete technical data, including lengths, gauges, head sizes and counts per pound, on 372 sizes and types of "Stronghold," "Screw-Tite" and other improved nails; and contains information on packaging and other special features. The center page spread reproduces in readable size the complete "Recommended Nailing Schedule" resulting from Independent Nail's continuing program of scientific laboratory research sponsored at Wood Research Laboratory, Virginia Polytechnic Institute. For a copy of the new "Stronghold Line" catalog write Independent Nail & Packing Company, Bridgewater, Mass.

MASTIC TILE PUBLISHES GRAPHIC BROCHURE OF 1959 ARCHITECTS COMPETITION

Vails Gate, N. Y.—Mastic Tile Division, The Ruberoid Co. announces the publication of the complete brochure of the winners in its 1959 Architects Competition, "Better Living for the Middle Income Family." The Competition engendered such intense and continued interest, that Mastic is presenting the information in a brochure for ready reference for architects, site planners, tract developers, community officials, and others who have expressed a desire for this information.

The three-color brochure includes the winning entry designs in dramatic, large-page reproductions. All details of site and buildings may be clearly read. The designs serve as inspiration both to professional architects and students.
In addition, the brochure includes a number of entries selected by the jury panel "for publishing"—designs deemed of ususual interest and worthy of note for a particular theme or detail of the presentation.

The brochure further includes a booklet, which is an amplification of notes and schedules of the published submissions. It is ready at hand in a convenient pocket in the back of the brochure.
The loose-leaf type of binding encloses pages 14"x10" in size, many of which are folded over so that the entire design is reproduced in larger detail.

Mastic's 1959 First Annual Architects Competition was a challenge to the nation's architects, to provide well-designed homes in well-planned communities for families of modest means. The solutions in the brochure chart how these objectives may be achieved.

Architects may obtain a copy by writing directly to Vails Gate; and the brochure is available also from Mastic Tile offices throughout the country.

"HOME LIGHTING HANDBOOK"

Progress Manufacturing Co. announces the publication of the "HOME LIGHTING HANDBOOK," a 36-page handbook whose aim is to bring to the public the best new home lighting ideas from the drawing boards of top ranking designers and architects, the inter-relationship between today's decor and modern lighting design.

The "HOME LIGHTING HANDBOOK" confirms the fact that home lighting, today, is a skill that relies upon good design, a knowledge of furnishings and home planning. Its colorfully illustrated pages, its informative and readable text, bring to the reader literally scores of exciting and advanced home lighting applications.

Free copies of the Progress "HOME LIGHTING HANDBOOK" may be obtained from Progress Manufacturing Co., Inc., Philadelphia 34, Pa.

MACO-FORM

Availability of a four-page bulletin fully describing MACO-FORM for concrete roof and floor slabs has been announced by Macomber, Inc., Canton, Ohio.

MACO-FORM is a standard one-half-inch by 26-inch corrugated sheet with two and one-half-inch corrugations, available in 24, 26, and 28 gage. Corrugated sheets are available in lengths of 8′ 3″, 9′ 3″, and 10′ 3″ in black or galvanized finish. MACO-FORM is anchored with hardened screw nails, button welding, or plug welding through welding washers.

The bulletin contains load tables and installation instructions. For a copy of the MACO-FORM bulletin write to: A. S. Vogan, Sales Promotion Manager, Macomber, Inc., Canton 1, Ohio.

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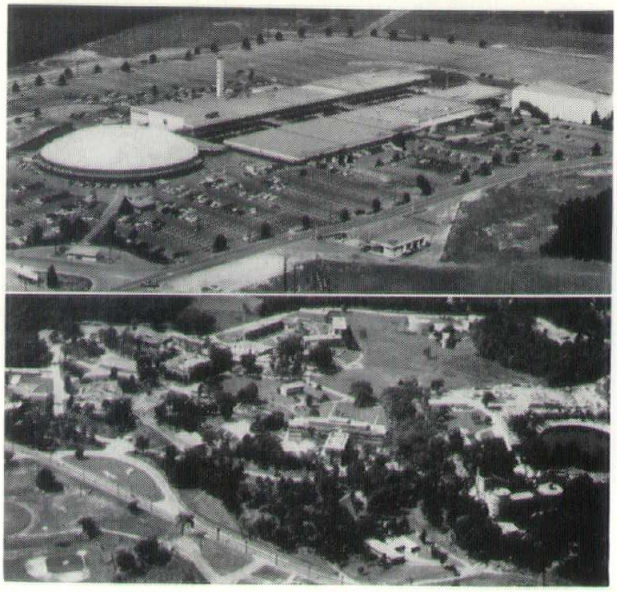

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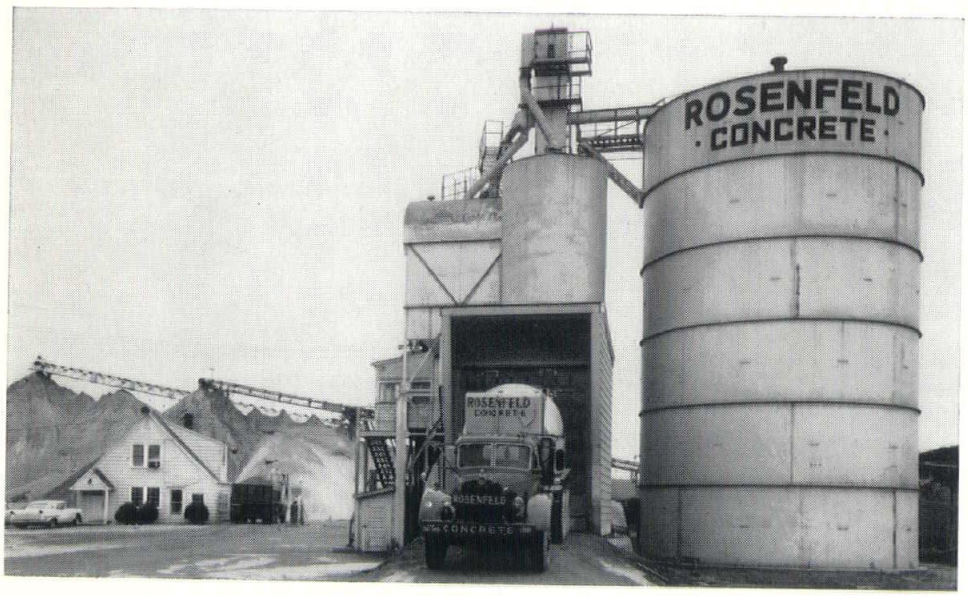

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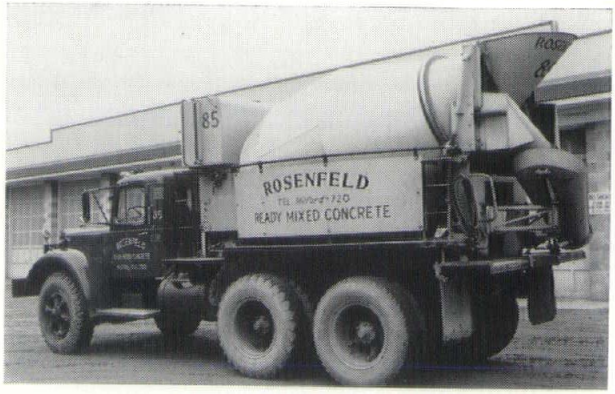

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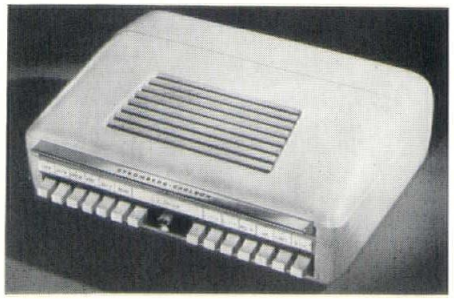

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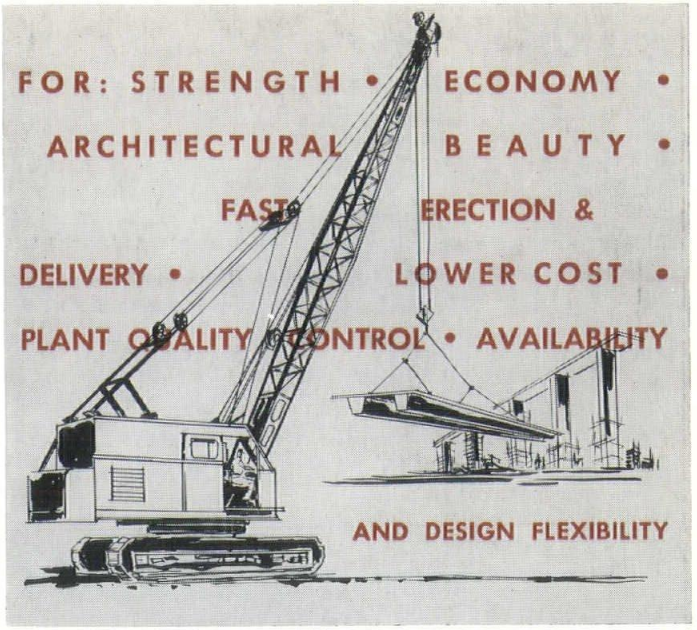

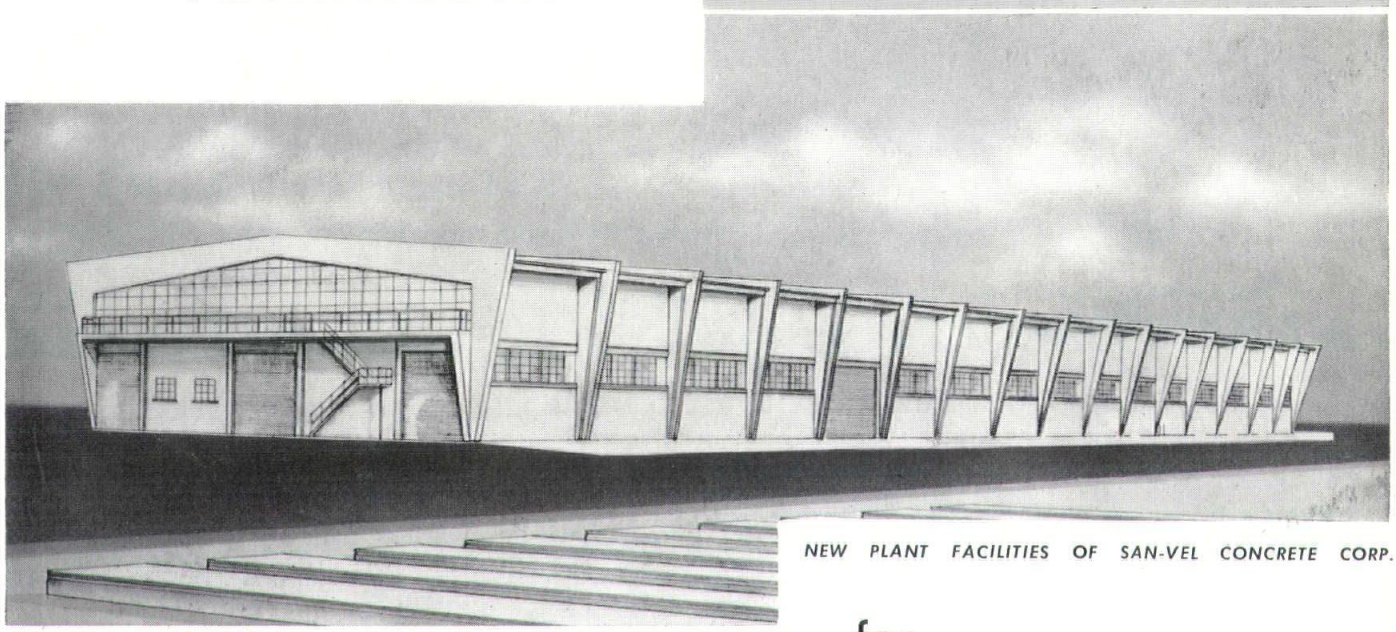

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