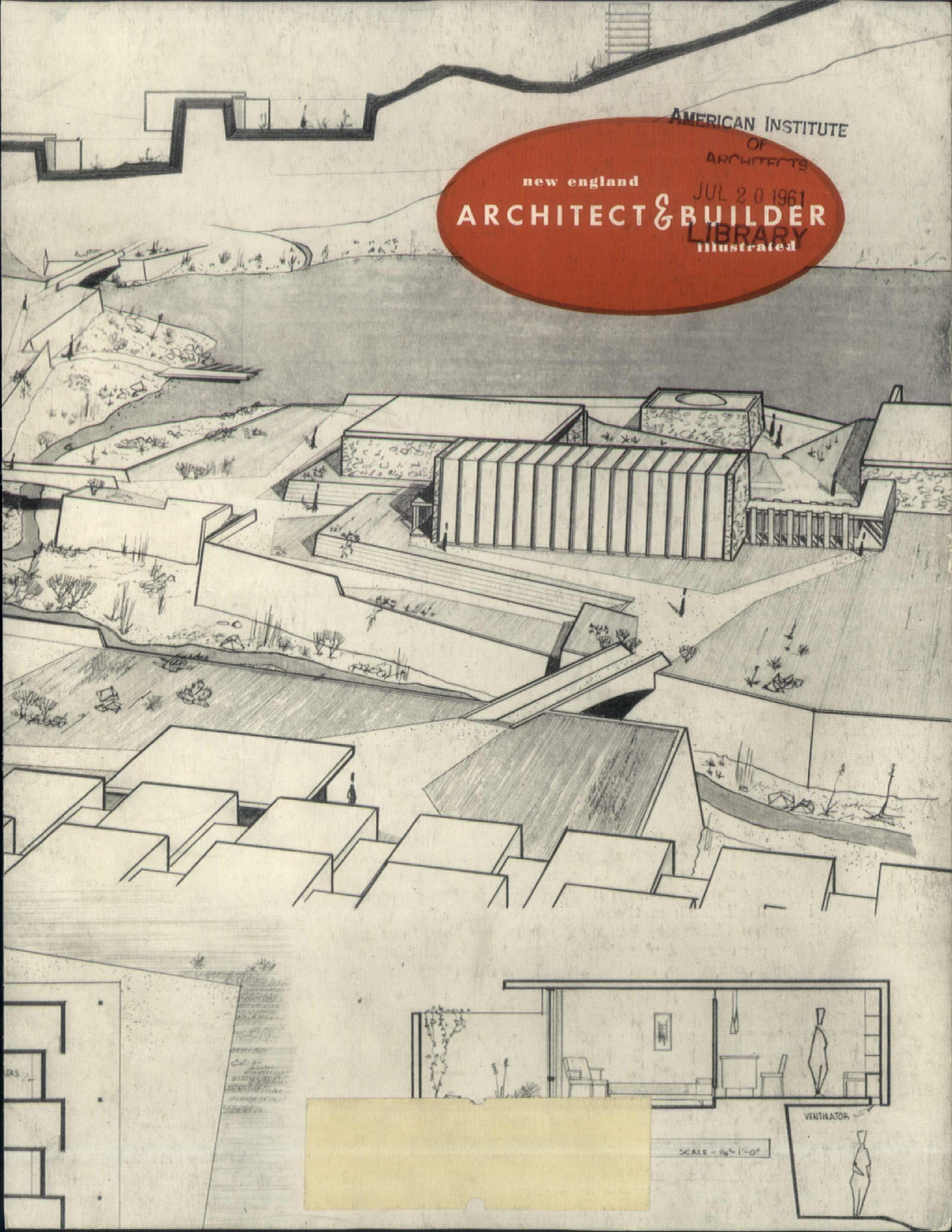
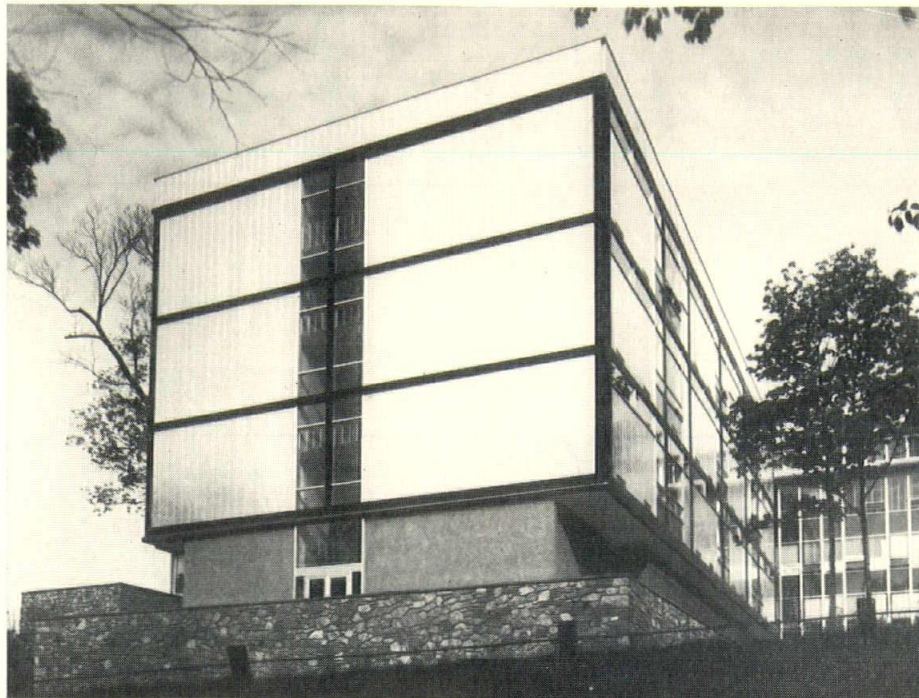


AMERICAN INSTITUTE
OF
ARCHITECTS
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... building a University



THE FRIEDLAND SCIENCE BUILDING
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ARCHITECTS

Shepley, Bulfinch, Richardson & Abbott



THE WEIN FACULTY CENTER
BRANDEIS UNIVERSITY

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The best ideas are more exciting
in **concrete**



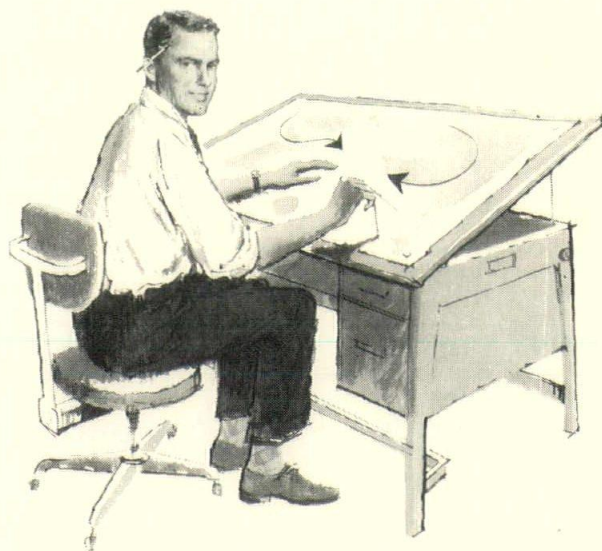
Stanford University Medical Center, Palo Alto, Calif. Architect: Edward D. Stone, New York. Structural Engineers: Pregnoff & Matheu, San Francisco, Calif.

Decorative patterns in concrete give unity and beauty to new medical center!

Hospital, clinic, school, research laboratory—the many activities of the new Stanford Medical Center require 7 separate buildings. To bring this complex into one harmonious whole, ingenious use has been made of modern concrete. Precast grilles provide a strong light-and-shadow pattern over large areas. They also set a design theme which is repeated in bold relief on other concrete surfaces throughout the Center. The elegant beauty achieved gives dramatic evidence of concrete's esthetic versatility and its structural advantages. Today, more than one architect is acquiring a reputation through the creative uses of modern concrete.

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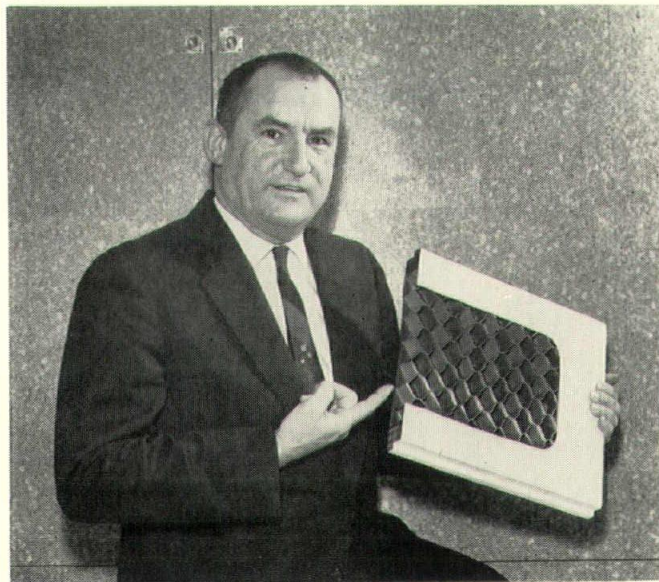
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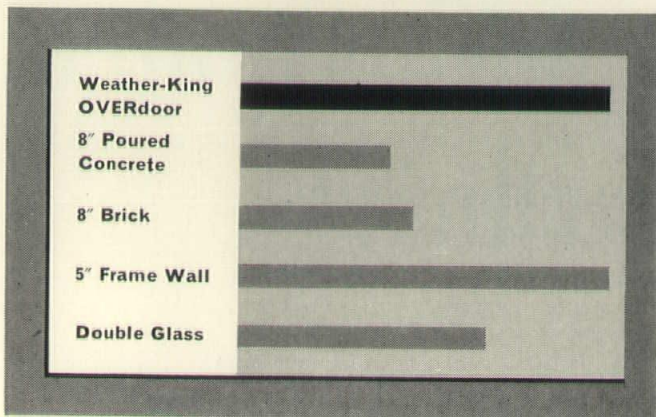
resistance and structural strength. Further, standard Weather-King Flush is furnished with a complete factory-applied, two-coat prime paint . . . selected for its excellent "hold-out" and resiliency qualities.



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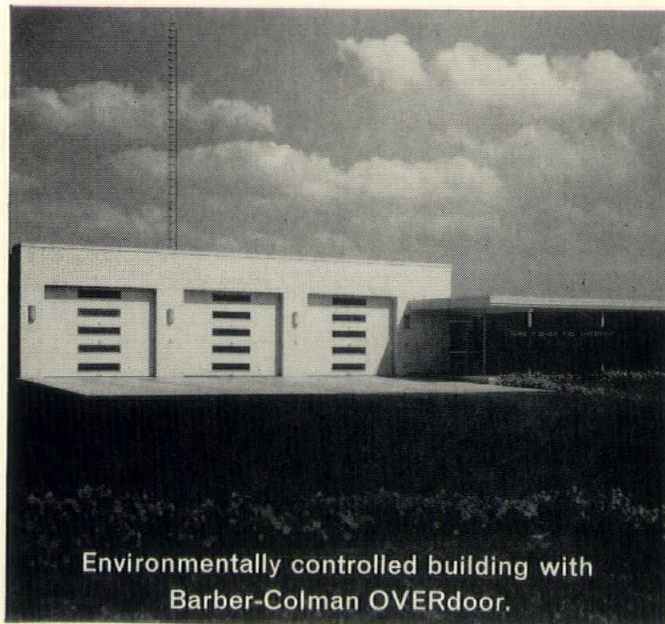
Air leakage

0 cu ft min/ft door edge

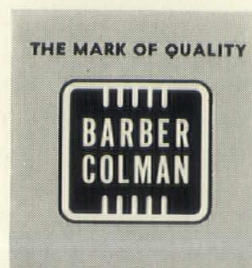
0.05 cu ft min/ft door edge

0.225 cu ft min/ft door edge

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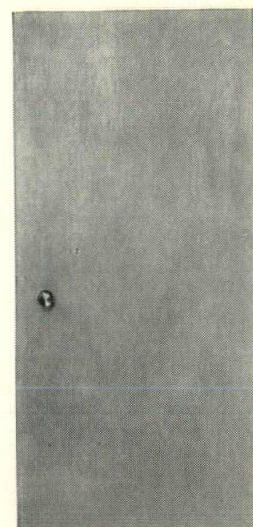
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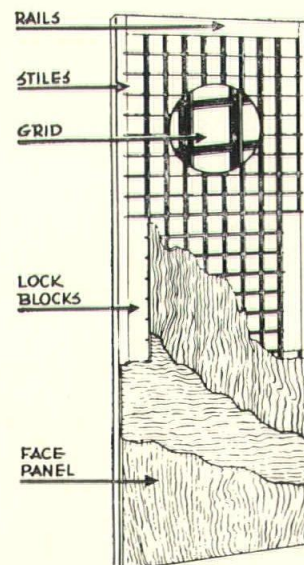
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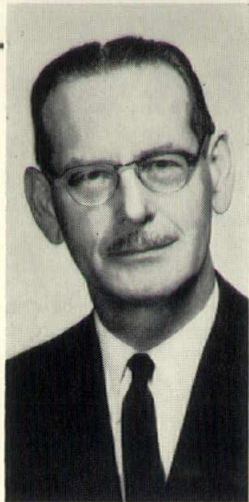
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John C.
French, Jr.



Ruth R.
Freeman



William
Wiese, II



Architects

FREEMAN FRENCH FREEMAN
BURLINGTON, VERMONT

If the Architect is to meet his responsibility to the community he cannot hesitate in accepting any of its problems.

OFFICE PROFILE

Standing on this philosophy, Freeman French Freeman never turns down a project. The firm's practice includes any type or size project ranging from small residential remodeling work through complex hospital projects, banks, churches, restaurants, elementary schools, high schools, college dining halls, dormitories, scientific laboratories, factories, ski lodges, campus development, public health facilities, office buildings, post offices, border stations, aircraft hangars, and gymnasiums.

Freeman French Freeman carries the distinction of having a female partner, Ruth R. Freeman. In 1937 Mrs. Freeman and her husband, William W. Freeman, both graduates of Cornell University, were joined by John C. French, Jr., in starting the present firm. William Wiese II was admitted to the partnership some three years ago.

Mrs. Freeman is registered architect number 5 in the State of Vermont and is a member of the American Institute of Architects, the Vermont Association of Architects and a member of the Vermont State Registration Board for Architects. She is a director of the Alumni Association for the College of Architecture at Cornell University.

Mr. Freeman is a registered architect in Vermont and New York and is also a registered professional engineer in the State of Vermont. He is a member of the American Institute of Architects, Vermont Association of Architects, American Society for Testing Materials and a director of the Greater Burlington Industrial

Corporation. A retired lieutenant commander, U. S. Naval Reserve, Mr. Freeman is an active sailing enthusiast and Commodore of the Malletts Bay Boat Club.

Mr. French is a graduate of Wentworth Institute and prior to joining the firm, worked with Brainard & Leeds, J. F. Larson and Frank Lyman Austin. He is registered as an architect in Vermont and Massachusetts and a member of the American Institute of Architects, Vermont Association of Architects, Vermont Historical Building Survey and Vermont State Society of Engineers.

As a graduate of the College of Architecture at the University of Virginia, Mr. Wiese served as a Naval Aviator during World War II and again during the Korean Emergency. He is a registered architect in the State of Vermont, a member of the American Institute of Architects and the Vermont Association of Architects. He is active in civic affairs and is a director of the Burlington Boys Club.

The office of Freeman French Freeman has consistently grown since its founding and recently completed its 1000th project. Assisting as associates in the administration and execution of the firm's responsibilities are Mr. R. G. Sidle, Mr. W. R. Moulton, Mr. F. A. Senftleber and Mr. R. A. Metz. The staff includes an engineering department of four, two interior designers, fourteen architectural draftsmen, three field supervisors, three project engineers, a specification writer, an office manager and two secretaries.

**U. S. POST OFFICE AND COURTHOUSE
ENGINEERS**

Jaros, Baum & Bolles
New York
Severud-Elstad-Krueger
New York
Harry C. Handwerger
New York

GENERAL CONTRACTOR

Franchi Construction Co.
Newton, Massachusetts

Completed in 1960, the 132,015 sq. ft. covered by the Post Office and Courthouse Building in Burlington, Vermont, includes a basement, six floors, and a mechanical penthouse. Space is provided for the Post Office staff and equipment, a public lobby, postal work room, immigration department, internal revenue department, U. S. Marshal, Circuit Courtroom, hearing rooms, Veterans Administration, and other Federal agencies.

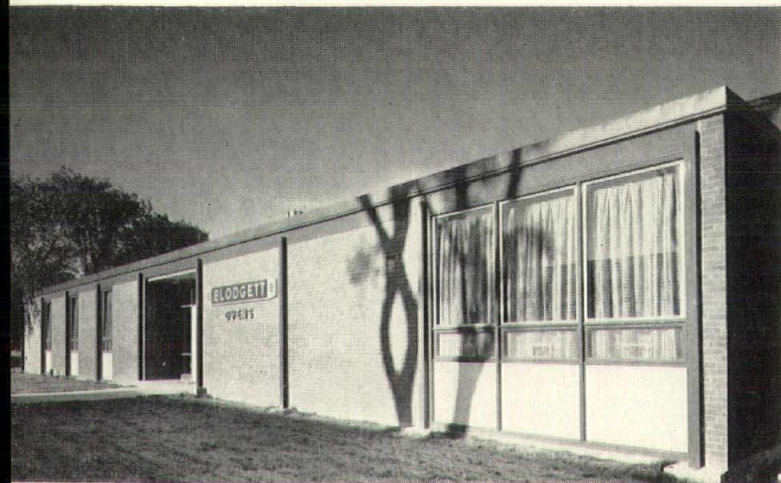
Two passenger elevators serve the basement to the 6th floor. Three steam boilers No. 6 oil fired supply zone controlled convectors around the building per-

imeter. Mechanical ventilation is forced tempered air. Air conditioning is provided for the courtroom and judges chambers. All lighting is fluorescent.

**PRINCIPAL SUBCONTRACTORS
AND MANUFACTURERS**

Heating, Ventilating, Air Conditioning,
and Plumbing—Coffey & Teachout Corp.
Electric Subcontractor—Norfolk Electric
Company. Reinforcing Steel—J. Scanlon

Company. Structural Steel and Miscellaneous Iron—Vermont Structural Steel Corp. Hollow Metals—J. G. Waxman Co. Vault Doors—Herring-Hall-Marvin Safe Co. Elevators—Otis Elevator Co. Aluminum Sash—Ware Windows. Glass—Pittsburgh Plate Glass Co. Hardware—Sargent Hardware. Acoustical Subcontractor—Bader Co. Mail Chutes and Boxes—Capital Mail Chute Corp. Marble, Tile and Terrazzo Subcontractors—Freeport Marble & Tile Co., T. A. Haigh Lumber Co.



**G. S. BLODGETT COMPANY, INC.
ENGINEERS**

Freeman French Freeman

GENERAL CONTRACTOR

Raymond LaRoche, Burlington, Vermont

The purpose of this project was to provide an office building and a factory addition for G. S. Blodgett Co., Inc., manufacturers of Blodgett Ovens. The office building covers an area of 5,568 sq. ft., plus an underground tunnel (65' long x 8'0" wide) leading to the manufacturing plant—plant addition covers 7,320 sq. ft. This tunnel is completely insulated and wrapped in a waterproofing membrane.

The lower floor of the office section provides space for experimental laboratories, engineering and office areas as well as mechanical, storage, and toilet rooms. The main floor, structured with exterior walls of brick and concrete block and interior partitions of metal studs and lath, includes a large general office area, a staff lounge, managers' offices, president's office, and conference room. All walls in the building are finished with plaster, except in the executive office and conference room



where sliced red birch adds the beauty due this area. Floors in these rooms are carpeted—resilient tile and ceramic tile are utilized elsewhere.

Situated on a filled portion of the east shore of Lake Champlain, the poor foundation conditions required that the entire building be floated on a heavy reinforced concrete slab. The exterior walls of the foundation are reinforced concrete; interior walls are concrete block. Ceilings are mineral fiber acoustical tile. Roofing is 4-ply built-up type laid over on steel decking. All glass in the structure is tinted insulating glass.

PRINCIPAL SUBCONTRACTORS AND MANUFACTURERS

Mechanical—F. S. Lanou & Son. Electrical—Ray's Electric Service. Structural Steel and Miscellaneous Iron—Vermont Structural Steel Corp. Hollow Metals, Steel Sash—Vermont Engineering & Supply Co. Millwork—T. A. Haigh Lumber Co. Concrete—W. C. Kirby. Pneumatic Tube System—Lamson Corp. Hydraulic Elevators—Bay State Elevator Co. Glass and Glazing—Pittsburgh Plate Glass Co. Hardware—Strong Hardware. Acoustical Ceilings—Bader Co. Painting—Rocheleau Decorating Co.

Molitor

BURLINGTON FEDERAL SAVINGS & LOAN

ENGINEERS

Freeman French Freeman

LANDSCAPING

Miss Elizabeth Dickerman Jones

GENERAL CONTRACTOR

Cass-Warner Corporation, Essex Junction, Vermont



Molitor

A full basement and four floors, covering a total 26,724 sq. ft., is provided for in the Burlington Federal Savings and Loan Bank. The basement includes mechanical and storage space as well as employees' lounges and toilet facilities. On the ground floor is found the main banking room, book-keeping facilities, drive-up window, officers' platform, administrative offices, conference rooms, and a balcony lounge with a directors' room and closing room. The second and third floors are office rental spaces divided at the option of the leasee.

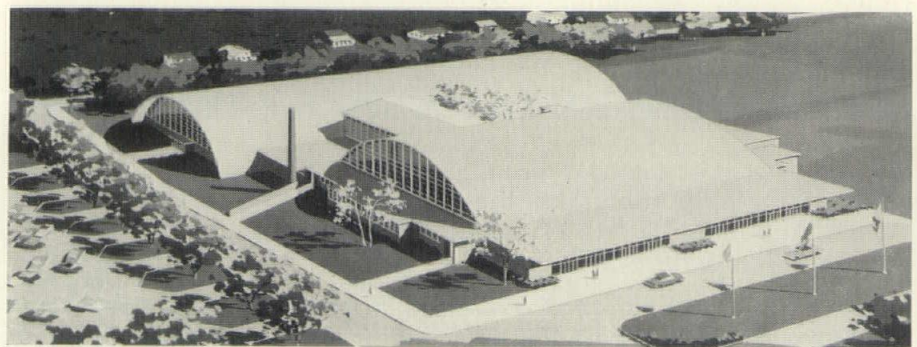
Reinforced concrete footings and walls with concrete block interior basement partitions comprise the foundation. Also in the structural make-up is a steel-frame construction with Robertson steel raceway deck supporting concrete slab floors; aluminum curtain walls with plate glass lights and tempered ceramic glass spandrel panels; Robertson steel roof decking with built-up roof. The exterior brick is glazed gray. Terrazzo covers the banking room floors; resilient tile floors are found elsewhere. Ceilings are mineral fiber acoustical tile throughout.



The lighting in the bank is entirely flush fixture fluorescent. Two boilers supply heat through a hot water system and a 75-ton chiller supplies refrigeration for year-round conditioning. There are no operating vent sash in the building.

PRINCIPAL SUBCONTRACTORS AND MANUFACTURERS

Mechanical Contractor—Teachout Bros. **Bituminous Paving**—Vermont Paving Co. **Toilet Partitions**—Mills Co. **Structural Glazed Tile**—Natco. **Hollow Metals**—American Steel Products Co. **Cement**—Atlas. **Electrical**—Vidal Electric Co. **Structural Steel**—Vermont Structural Steel Corp. **Steel Deck and Curtain Wall**—Vermont Engineering & Supply Co. **Painting**—Rocheleau Decorating Co. **Glass and Glazing**—Pittsburgh Plate Glass Co. **Millwork**—Flanders Lumber. **Hydraulic Elevator**—Bay State Elevator Company. **Lathing and Plastering**—McGranahan Co. **Acoustical Ceilings**—Bader Co. **Ceramic Tile**—Bloom, South & Gurney, Inc.



PROPOSED UNIVERSITY OF VERMONT GYMNASIUM

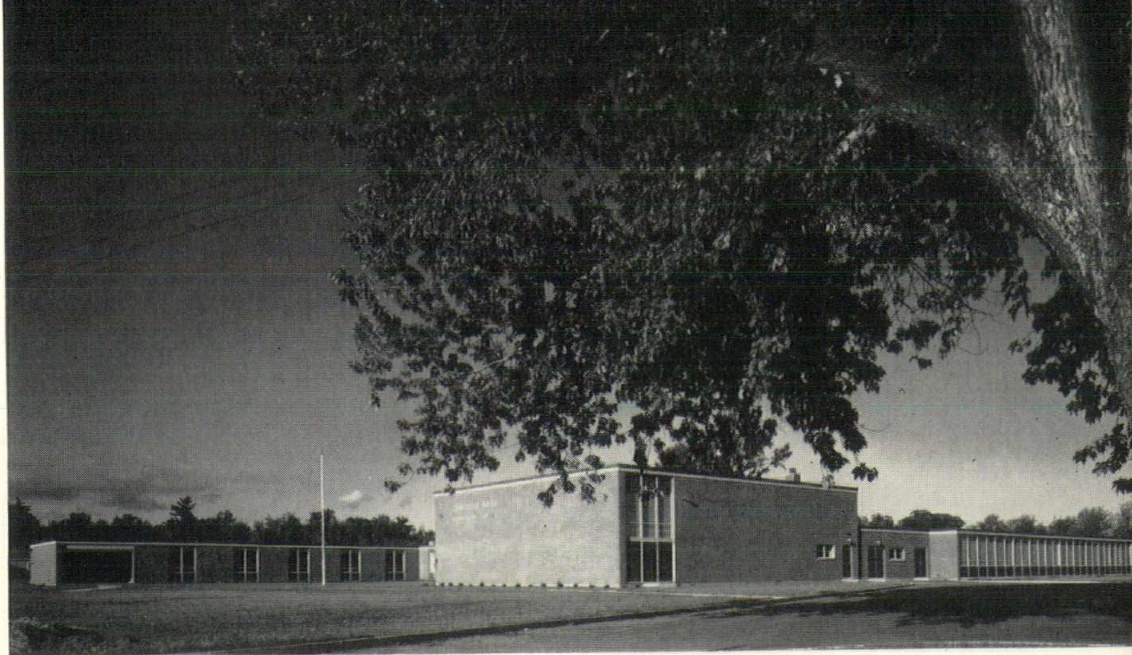
The University of Vermont can proudly display this proposed gymnasium and field house. The modern structure, costing an estimated \$2,300,000, includes three basketball courts, bleachers for 5,000 fans, a swimming pool, a cage for a 1/4-mile track, infield practice and field events, squash courts, showers, lockers, administration offices, coaches' rooms, two classrooms, a multi-purpose room, and supporting facilities.

ENGINEERS

Freeman French Freeman

GENERAL CONTRACTOR

James P. McKenzie
Burlington



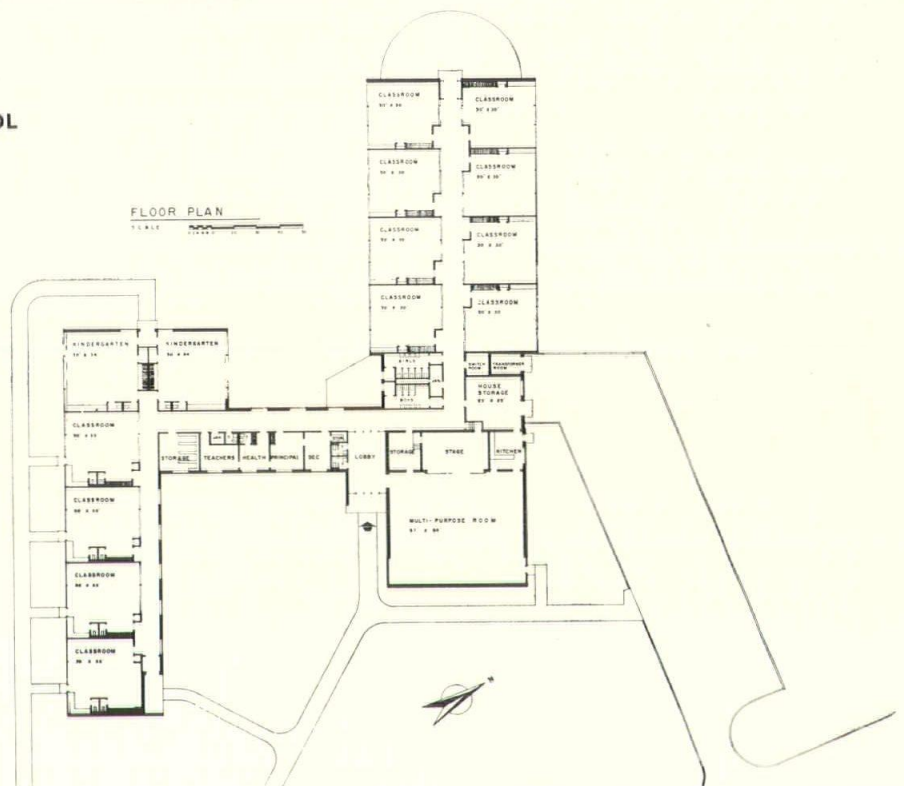
Molitor

CHARLES P. SMITH ELEMENTARY SCHOOL

September, 1959, saw the completion of the Charles P. Smith Elementary School in Burlington, Vermont. The structure provides twelve general classrooms, two kindergarten rooms, a multi-purpose room with stage and kitchen, a teachers' room, health room, storage and lavatory facilities.

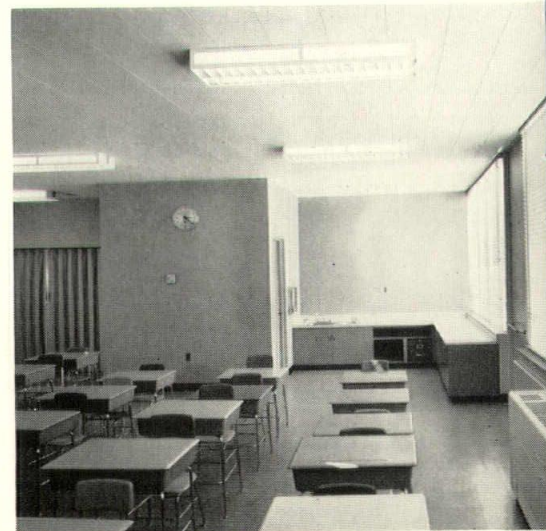
Covering a total area of 26,500 sq. ft. and with a designed capacity of 420, the entire building is electrically heated with power from the city-owned electric generating station. Individual thermostats are found throughout. The kindergarten rooms have electric radiant ceilings as well as unit ventilators and convectors with electric heating coils which are found in the rest of the building.

Footings and exterior foundation walls are reinforced concrete; interior foundation walls are concrete block. The floors of the school are concrete slabs on grade, while the walls are structured of brick, backed with 2" foamglass insulation and concrete block. Bearing walls and steel columns support steel roof framing. 3" tectum roof deck, covered with 2" foamglass insulation and built-up roofing comprise the roof system. 2" perimeter insulation protects slab perimeters. Ceilings are cane fiber acoustical tile; floors are asphalt tile.



PRINCIPAL SUBCONTRACTORS AND MANUFACTURERS

Electric—Vidal Electric Co. **Plumbing and Heating**—Ovellette Plumbing & Heating Co. **Ventilating**—Vermont Heating and Ventilating Co. **Structural Steel**—Vermont Structural Steel Corp. **Lathing and Plastering**—P. H. McGranahan Co., Inc. **Acoustical Ceilings**—Bader Co. **Millwork**—T. A. Haigh Lumber Co. **Paving**—Vermont Paving Co. **Roofing**—Major L. Rodd. **Painting and Resilient Floors**—Rocheleau Decorating Co. **Glass**—Pittsburgh Plate Glass Co. **Masonry Work**—Jones Construction Co. **Concrete**—S. T. Griswold Co.



LYMAN C. HUNT
JUNIOR HIGH SCHOOL

ENGINEERS
Freeman French Freeman

GENERAL CONTRACTOR
H. P. Cummings
Construction Co.
Woodsville, N. H.

Molitor

with the exception of the kitchen and toilet rooms where ceramic tile is used. Block walls are painted; plaster walls are covered with Kalistron; ceilings are cane fiber acoustical tile.

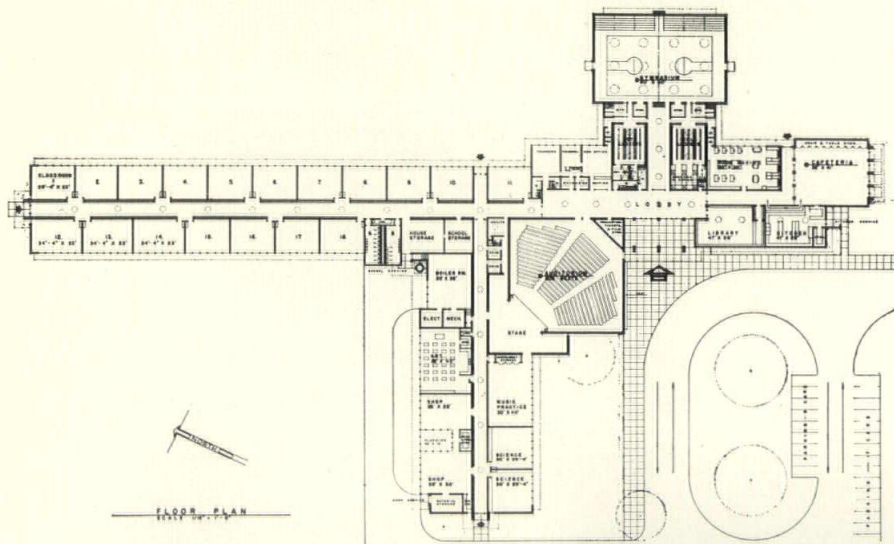
The heating system is composed of two steam boilers feeding unit ventilators operated by individual room thermostats.

PRINCIPAL SUBCONTRACTORS AND MANUFACTURERS

Heating, Ventilating and Plumbing—Teachout Brothers. **Electrical**—H. W. Ashline. **Reinforcing, Structural Steel, Miscellaneous Iron**—Vermont Structural Steel Corp. **Hollow Metals, Lockers, Flag Pole**—Vermont Engineering & Supply Co. **Millwork**—T. A. Haigh Lumber Co. **Glass and Glazing**—Pittsburgh Plate Glass Co. **Acoustical Tile**—Bader Co. **Roofing and Sheet Metal**—Major L. Rodd. **Lathing and Plastering**—P. H. McGranahan Co. **Asphalt Tile Installation**—Kesseli and Morse Co. **Painting**—Hugh Ramsden & Son. **Finish Hardware**—Strong Hardware. **Chalk and Tackboards**—Bay State Blackboard Co.

Another addition to Burlington's educational units is the Lyman C. Hunt Junior High School, completed in 1958. As a three-year school, the building has a design capacity of 600 and covers an area of 63,212 square feet. Included for the use of its student

The structural frame of the school is of light steel with steel roof deck, 1" rigid insulation and 4-ply built-up roofing. Steel window wall units with insulated porcelain enamel panels form the lightweight skin areas. Floors are covered with asphalt tile,



population are two shops and a planning classroom, an art room, two science rooms, music room, sloped-floor auditorium, wooden-floor gymnasium, locker and shower rooms, teachers' rooms, administrative offices, library, homemaking room, cafeteria, kitchen, 18 general classrooms, boiler room, storage and toilet facilities.

The structural description includes reinforced concrete footings and exterior walls and concrete block interior walls; concrete floor slab on grade; brick and concrete block exterior building walls, interior walls of concrete block and metal stud with wire lath and plaster.





Molitor

BETHANY CHURCH, MONTPELIER, VERMONT

ENGINEERS

Freeman French Freeman

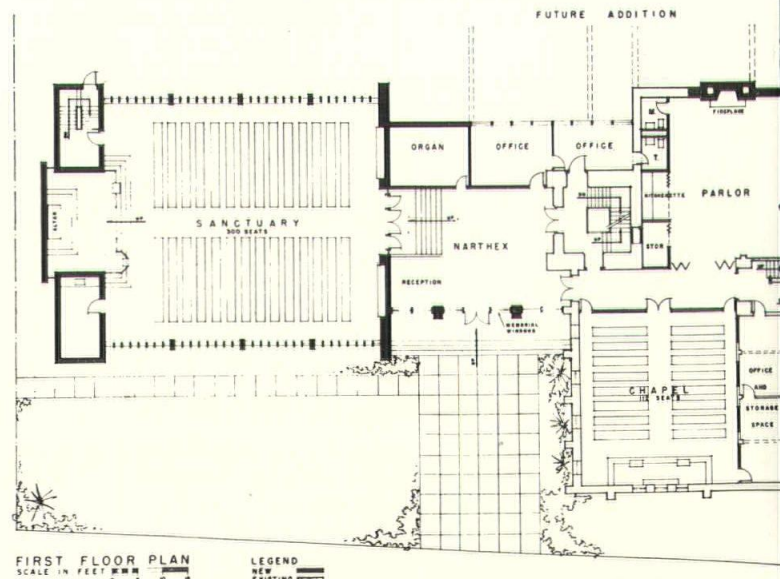
GENERAL CONTRACTORS

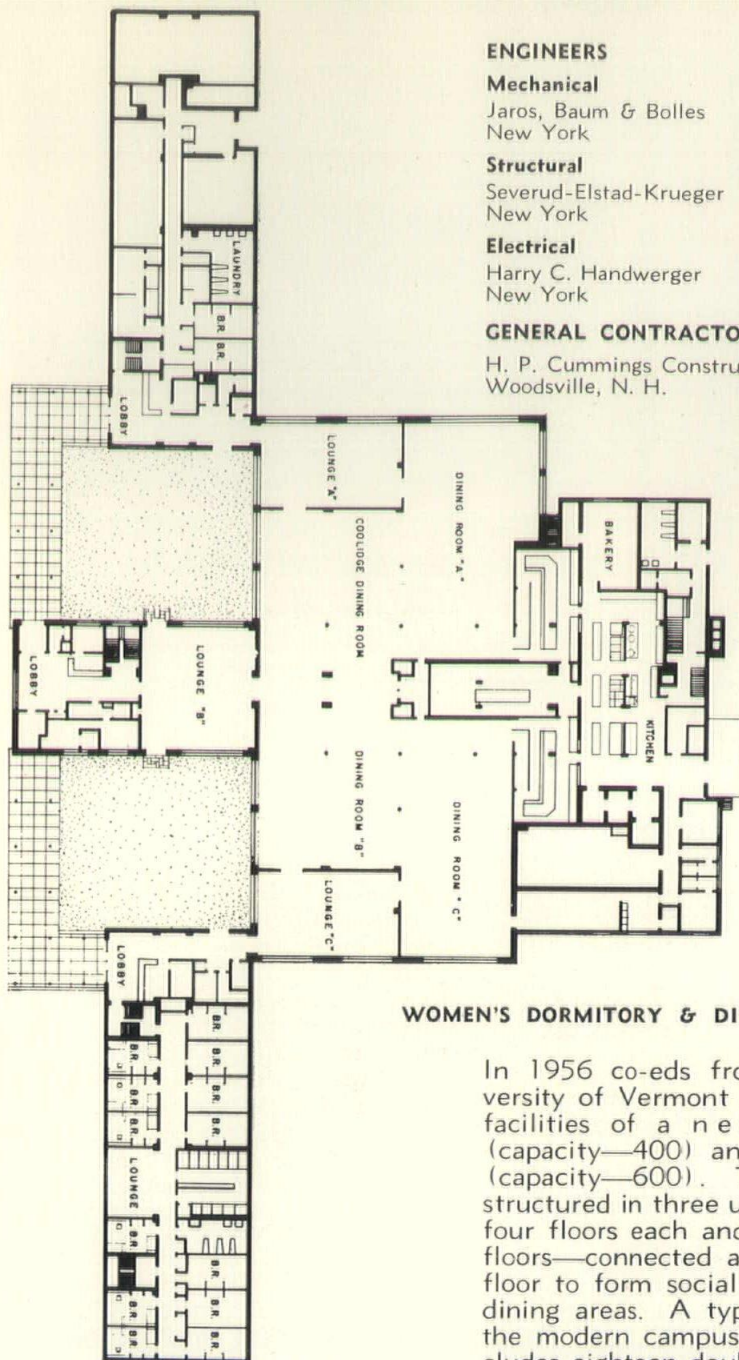
Albert L. St. Armand,
Burlington

The structural description of the \$272,113 building includes reinforced concrete basement walls supporting rigid steel frames and roof bents. The wood first floor system spans between steel crossbeams. 2 1/2" wood roof decking is exposed and spans between steel rigid bent frames. 1" rigid insulation and slate shingles complete the roof finish. Exposed walls on the exterior are of stone to match the older structure. Interior walls are generally wood stud cores with plaster finish. Where natural wood appears for trim, wainscot organ screen, etc., selected solid cherry was used.

This project located in Montpelier, Vermont, included demolition of an existing church nave, erection of a new one and alterations to the remainder of the existing structure. The solution, both in plan and elevation, produced an unusually successful merging of old and new through matching materials and contrasting design. Areas created in the basement below the new nave and within the existing building include a large fellowship hall with stage and pressing rooms, a kitchen, lobby, toilets, five classrooms and a new boiler room.

PRINCIPAL SUBCONTRACTORS AND MANUFACTURERS: **Structural Steel**—Vermont Structural Steel. **Miscellaneous Iron**—Vermont Structural Steel Corp. **Roofing**—A. C. Hathorne Company. **Sash**—Hope's Windows. **Millwork**—Cole's Mill. **Ceilings**—Bader Co. **Glazing**—Acme Glass. **Electrical Contractor**—Lloyd Harrington. **Floors**—John H. Pray & Sons. **Mechanical Contractor**—United Plumbing and Heating.





ENGINEERS

Mechanical

Jaros, Baum & Bolles
New York

Structural

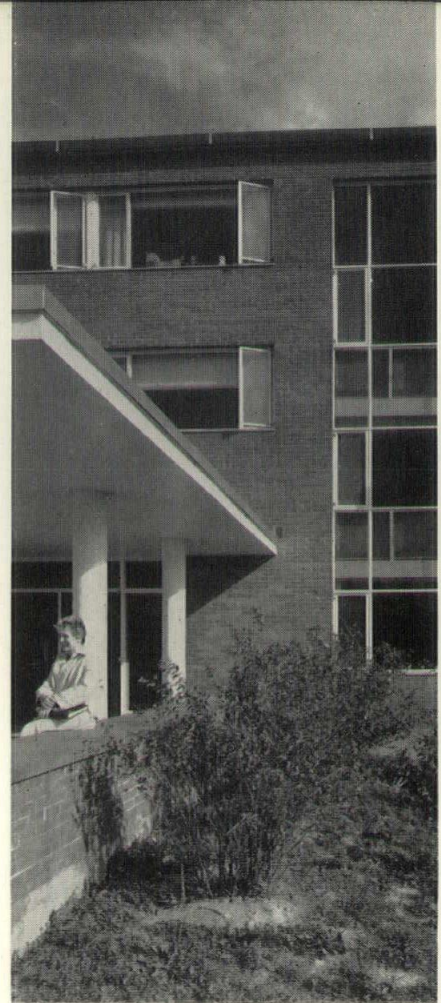
Severud-Elstad-Krueger
New York

Electrical

Harry C. Handwerger
New York

GENERAL CONTRACTOR

H. P. Cummings Construction Co.
Woodsville, N. H.



WOMEN'S DORMITORY & DINING HALL, UNIVERSITY OF VERMONT, BURLINGTON

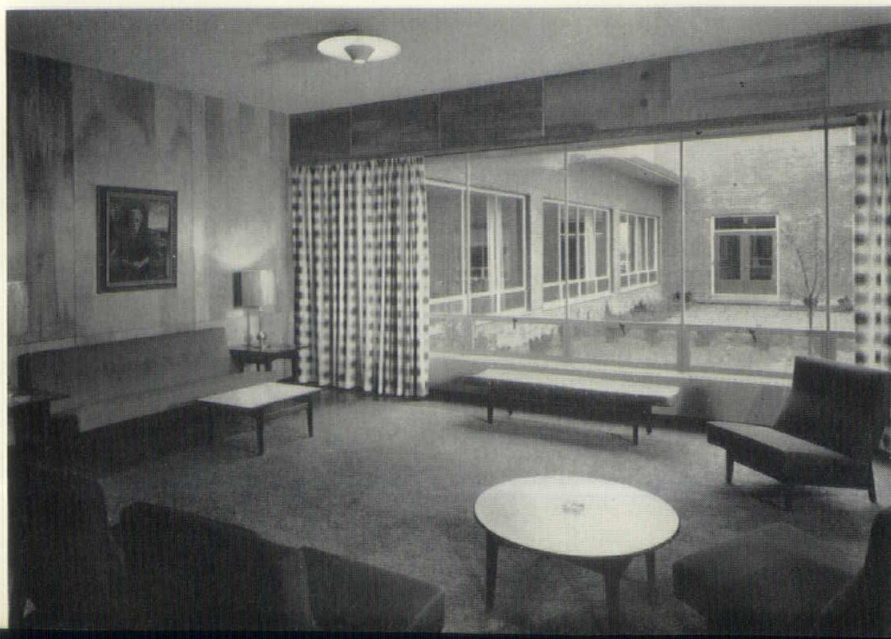
In 1956 co-eds from the University of Vermont acquired the facilities of a new dormitory (capacity—400) and dining hall (capacity—600). The dorm is structured in three units—two of four floors each and one of five floors—connected at the ground floor to form social lounges and dining areas. A typical floor of the modern campus addition includes eighteen double bedrooms attractively and conveniently designed with acoustical tile floors

and painted rubbed concrete and stipple ceilings. Walls are concrete block and brick cavity. Also found in each floor is a carpeted "pajama lounge," ceramic tiled toilets and showers, and storage areas. Each dormitory unit offers an apartment for a resident counselor, an entrance lobby, mail room, and reception desk.

Dining and kitchen facilities are unusually complete with dry storage rooms, four refrigerated rooms, dietitian's office, employees' locker room and lavatories, a full bakery, dishwashing room and steam tables. Equipment has been provided to prepare all types of foods for either cafeteria service or table service. The cost for the kitchen facilities was approximately \$100,000.00

PRINCIPAL SUBCONTRACTORS AND MANUFACTURERS

Food Service—S. Blickman, Inc. **Finish Hardware**—Denison, Inc. **Reinforcing**—Bethlehem Steel. **Miscellaneous Iron, Stairs**—Vermont Structural Steel Corp. **Millwork**—T. A. Haigh Lumber Co.—Ovellette Plumbing & Heating Co.—Fitzgibbons Boilers—York Oil Burners—U. S. Radiator Corporation—Johnson Service Co. Controls—Vermont Heating & Ventilating Co.—Kohler Fixtures—Hope's Windows.



Bulletin DIGEST

NEW OFFICE BUILDING PLANNED FOR STAMFORD, CONNECTICUT

Pictured is the architect's rendering of the new five-story office building now under construction at 777 Summer Street, Stamford, Conn. The building is designed by Sherwood, Mills, and Smith of Stamford, who will occupy the top floor. Partner A. Raymond von Brock, A.I.A., is in charge of the design.

The building is a joint project of the F. D. Rich Company, Stamford construction firm and M. Shapiro & Son, Inc., of White Plains, N. Y.

The centrally air-conditioned commercial structure features an aluminum curtain wall with vertical gold mullions, black spandrel panels and heat absorbent glass. It is set well back from the street with a pleas-



ant, landscaped plaza, containing shade trees, shrubs and sitting height walls.



MIDTOWN MOTOR INN

A red carpet ceremony recently marked the opening of Boston's newest visitors facilities. Architect Samuel Glaser of Glaser Associates, Boston, is shown pointing with pride to a rendering of the Midtown Motor Inn located at 220 Huntington Avenue in the Back Bay area of Boston. With Mr. Glaser are Mr. Bertram A. Druker (left), president of MMI and Benjamin Cook (center) of Trade Winds and Interior Designer who seem to share his enthusiasm.

ANNOUNCEMENT

Mr. Norman A. Homsy, A.I.A., Registered Architect, has been elected to a five-year term on the Planning Board in his town of Needham, Massachusetts.

Mr. Homsy attended Northeastern University, Harvard, and the Boston Architectural Center; he is a registered Architect in Massachusetts, New Hampshire, Maine, and Vermont, and holds a National Council of Architects Registration

Board Certificate. He is a veteran of World War II and the holder of the Army Commendation Ribbon.

Mr. Homsy is presently associated with the firm of W. Chester Browne and Associates, Inc., Architects and Engineers, at 122-128 Arlington Street, Boston, Massachusetts.

MASSACHUSETTS CEMENT BLOCK COMPANY TO OFFER NEW USE FOR ANCIENT PRODUCT

A combination of circumstances has recently re-awakened an ancient interest in pumice stone as a construction material. Found on the volcanic island of Lipari, about twenty miles from the Northern Coast of Sicily in the Tyrrhenian Sea, the stone is extracted with comparative ease from great white cliffs on the northeastern coast of the island, one of the only places in the world where the volcanic action, the chemical composition of the ash, and the temperature and chemistry of the sea water combine fortuitously to produce a white pumice suitable for commercial use.

One of the first Massachusetts manufacturers to bring in a shipment of this product for use in lightweight blocks was the Massachusetts Cement Block Company. Mr. Jack Freedman, Treasurer of the Boston concern, revealed that the pumice blocks manufactured from this aggregate are especially suitable for the construction of partitions as they allow easy installation, fire protection, sound absorption, and elimination of painting due to their whiteness in color.

The site of extraction is one of al-

most festive color, with Mr. Ferlazzo's quarrymen beheaded in red bandanas and carrying lunches in wicker baskets. During the third week of April the Starfighter, a small Transatlantic ship, arrived at Lipari and was loaded with carefully graded and sorted pumice. Although most Europe-bound steamers are loaded from bags carried out to the ship in row boats, installed on a pier originally built for inter-island schooners. Three weeks after departing from the location of the white pumice mountain, the Starfighter docked in Boston and released her goods to the Massachusetts distributor.

In Lipari, meanwhile, work is proceeding on new facilities to make pumice more readily available to the American concrete block industry, and thus, the American construction industry. The Massachusetts Cement Block Company now has another dependable product to offer its customers.

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has become a partner in the firm.

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CONSTRUCTION BEGAN ON \$300,000 INDUSTRIAL BUILDING

Norlee Aluminum Products Company has begun construction of a \$300,000.00 building on Tobey Road, Bloomfield, Connecticut's south industrial zone. The corporation which manufactures aluminum doors, siding, awnings, etc., expects to be in their new 43,000 sq. ft. building this summer. Ap-

proximately 4,000 sq. ft. has been provided for general office, engineering and estimating departments.

The building was designed by the office of Arnold Lawrence, Architect, Manchester, Connecticut, and consulting engineering on site work and landscaping by the office of Morton S. Fine, Hartford, Connecticut.

JOHN CLARKESON, PROMINENT BOSTON ENGINEER, ELECTED TO AMERICAN INSTITUTE OF CONSULTING ENGINEERS

The American Institute of Consulting Engineers has just announced the election to membership of John Clarkson, President of the Clarkson Engineering Company, Inc., of Boston, and the firm of John Clarkson—Consulting Engineer, with offices in Albany, Providence and New York City. Mr. Clarkson is a nationally known consulting engineer and has directed the activity of his firm in the planning, design and supervision of construction of many major highways, municipal improvement, airport and other projects, as well as assignments in the field of research and development. These projects have been in the six New England states, Washington, D. C., Virginia and New York.

Long known as a spokesman for the engineering profession, Mr. Clarkson is a member of several professional societies and organizations, and is a member of the Executive reserve.

The American Institute of Consulting Engineers is an organization of established consulting engineers in private practice in all fields of engineering. Established in 1910, the Institute has been a potent force in the development of the world's engineering projects.

BUSINESS EQUIPMENT CORPORATION

Claud S. Bunyard, prominent English designer, has been appointed

Director of Design of Business Equipment Corporation, announced Melvin L. Levin, President.

After achieving a broad background in many aspects of design in England, Mr. Bunyard has spent the past nine years creating both residential and commercial interiors in the greater Boston area.



His custom furniture designs have received wide recognition. A table of his design was selected for exhibit in the United States Pavilion at the World's Fair in Brussels in 1958.

Mr. Bunyard stated that Boston is now at the threshold of its greatest building boom. "It is profoundly important that the offices here reflect the beauty and efficiency that can be achieved only with good contemporary design," he said.

A. S. MACALASTER NAMED PRESIDENT MACALASTER BICKNELL CORPORATION

Formation of a new concern, Macalaster Bicknell Corporation, has just been announced. It is a suc-

cessor to Macalaster Bicknell Company and will have as its President, Andrews S. Macalaster, son of one of the original founders. The new company will continue the manufacture and distribution of scientific instruments, custom scientific glassware and laboratory supplies. Added to these lines will be science teaching aids.



Andrews S. Macalaster

Long a major factor in New England's famous science community as supplier of many thousands of kinds of laboratory equipment requirements, the company is also widely known nationally for its manufacture of special research apparatus.

Since the spring of 1960, it has gained a widely acclaimed place in the science teaching field through its selection as manufacturer-distributor of the apparatus designed by the Physical Science Study Committee for use in connection with the Committee's dynamic new course in high school Physics.

Devoted to the philosophy of low cost, simple, yet technically advanced apparatus, the company is making a considerable contribution to the new concepts of science education based on a high degree of student experiment participation impossible in the past due to high apparatus costs. It is expected that these concepts will find expression at the elementary school level and at the college level as well.

The critical importance of the effort undertaken by the Physical Science Study Committee has recently been highlighted by the receipt by its prime mover, Dr. Jerrold Zacharias, of the Oersted Medal. This medal was conferred on him by the American Association of Physics Teachers and drew the personal congratulations of President Kennedy for farsightedness and ability in developing an exciting curriculum for a secondary school physics teaching.

HARDWARE CLUB ANNOUNCES SCHOLARSHIP AWARD

The 1200 Beacon Street Motel, Brookline, Mass., was the scene of the April meeting of the NEW ENGLAND BUILDERS HARDWARE CLUB.



(l. to r.) Bill Gaughran, Chrmn., Program Committee; Jack Price, Secretary; Bill Garvey, New Eng. Tel. & Tel. Co.; John Redman, President; Arnold Hansell, Treasurer; Bob Bell, Vice President; Wm. Wagner, New Eng. Tel. & Tel. Co.

President John Redman announced that Bob McCabe of the Campbell Hardware Co., Newton, Mass., had been declared the winner of the scholarship award for the Architectural Hardware Course at Ohio State University. Bob will join previous winners Ralph Robbins of Hardware Specialties, West Springfield, Mass., and Bill Jones of Grossman's, Inc., Quincy, Mass.

Following the business meeting, the members were entertained by Mr. Bill Garvey, of the New England Telephone and Telegraph Company, who gave a thought-provoking talk, accompanied by movies on the subject of America's satellite and missile program.

BUILDING EXPANDS WITH BUSINESS

Construction now underway to more than double the floor space of the New England Mutual Life Insurance Company home office building and accommodate the company's growth at least through 1975, is being facilitated by plans drawn in 1939 when the original structure was designed.

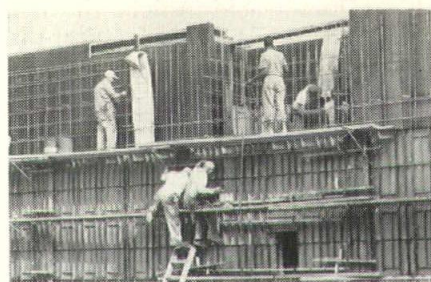
The original building, near Copley Square in Boston, was completed in 1941 with a main section 10 stories high, four-story wings, and an open area in the center. Now the building is being expanded to cover all of its 337½' x 195' ground area to a height of 10 stories, adding 248,000 square feet of office space to the present 202,000. Comparable expansion of the building's elevator system is underway and by 1975 its four original Otis elevators will have been increased to 12.



When original plans for the building were drafted in 1939, foundations were designed to take the extra stories now being added. Looking ahead to the day when the building would have to grow, its architect also planned the exterior so that construction could be carried on outside the existing walls without disturbing workers inside. Construction is relatively quiet, since the new steelwork is being bolted rather than riveted.

As the building's population has grown to its present 1,530 occupants, its elevator system has been improved and enlarged. The four "signal control" elevators installed in 1941 were modernized in 1956 for completely automatic, electronically-controlled "Auto-tronic" operation, and two more cars of this type were added.

A bank of four such elevators is being installed in the new 10-story section, with extra hoistways for two more elevators to be added when the building's population reaches 2,400. It will then have 12 elevators, with ample capacity for the 3,200 people expected to be working in the building by 1975.



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see page 32

MODERN BLUE PRINT

Modern Blue Print Company announced the opening of new facilities in a three-story building at 90 Berkeley Street in Boston.

Open house ceremonies were held recently for customers, suppliers, and friends, to unveil these completely modern facilities planned for maximum efficiency and ease of operation. The opening was also arranged to coincide with the company's 47th year of continuous service as leading New England suppliers of reproduction services and equipment to engineering, architectural, and industrial companies.



According to a statement made by Thomas E. Oliver, President of the Company, "... every effort has been made to create outstanding facilities so that we may better serve our customers."

"On the first floor, for example," Oliver pointed out, "our designers, Van Christo Associates of Boston, have presented a totally new concept in showroom design. The newest types of supplies and instruments are attractively displayed for easy examination, and quick service is assured from an extensive inventory in two well-stocked storage areas. For customer convenience, orders for reproductions may also be placed here."

Oliver also pointed out that the Company was founded by his father, Guy Oliver (now board chairman), in 1914, so that 47 years of specialized experience and technical know-how form a solid foundation for the Company's operations.



"These new facilities," Oliver said in a closing statement, "represent our Company's latest step in a planned program to continually make the most modern equipment available to our many customers. As a major supplier of specialized services to the entire New England area, we are mindful of our continued responsibilities to our customers to provide them with the most efficient and best type of service—economically and promptly."

The Company also maintains a similar type of operation at 191 Church Street in Hartford, Connecticut.

new england ARCHITECT and BUILDER, illustrated—NUMBER TWENTY-SEVEN, 1961

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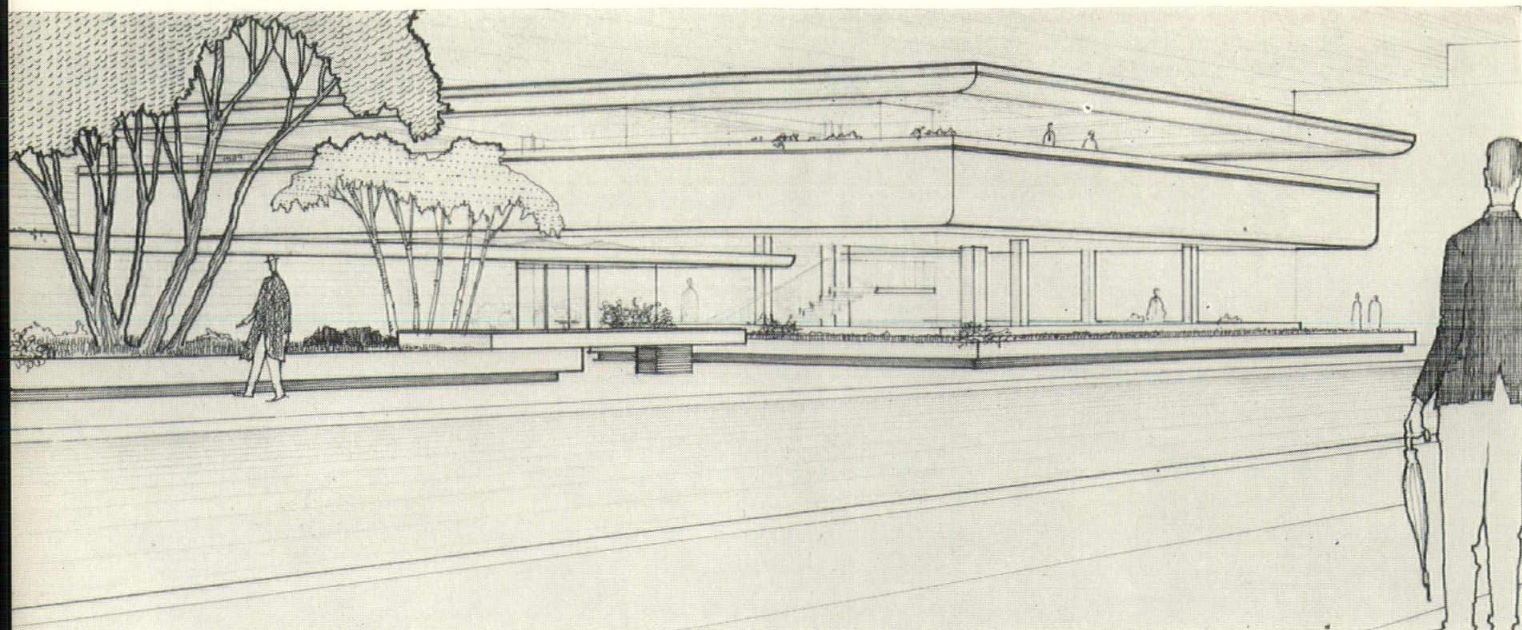
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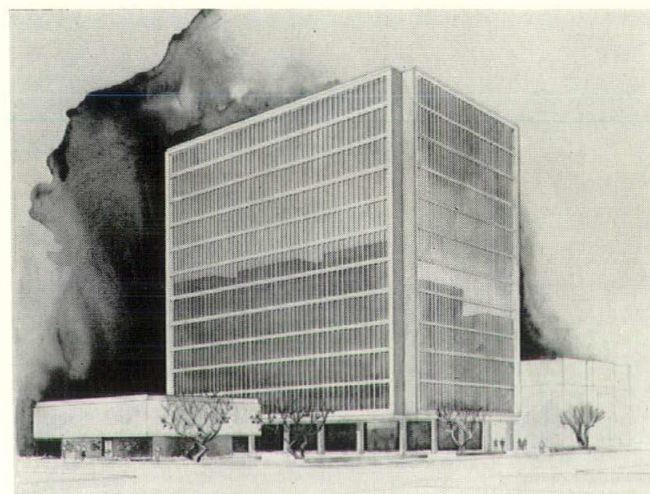


SYRACUSE UNIVERSITY. Project: a small library; Winner: William Phillips.

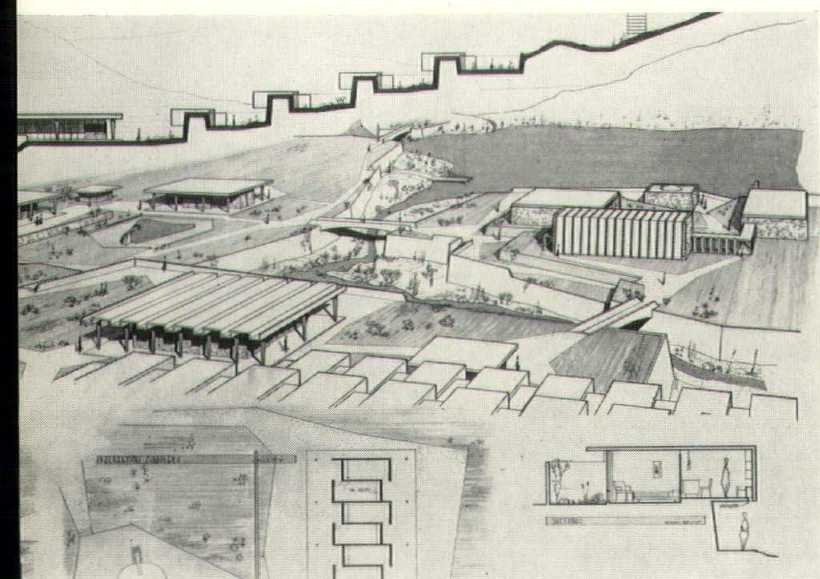
KOPPERS AWARDS ARCHITECTURAL DESIGN SCHOLARSHIPS AT SEVEN SCHOOLS

Students at seven of the nation's leading schools of architecture were recently awarded \$1000 scholarships in the fourth annual Student Architectural Design Competition sponsored by the Tar Products Division of Koppers Company, Inc.

Purpose of the Competition is to provide educational and financial assistance to fourth-year architecture students through the granting of fifth-year tuition scholarships at participating schools.



OHIO STATE UNIVERSITY. Project: a multiple-story office building and pavilion; Winner: James Bean.



UNIVERSITY OF ILLINOIS. Project: a retreat for women; Winner: Fredric Wemlinger.

Schools participating in the annual competition are periodically selected on a geographical rotation basis from among the 67 member colleges and universities of the Association of Collegiate Schools of Architecture. This insures a variety of architectural styles representing the regional areas of the country.

The Koppers Competition is actually a series of individual efforts at each school of architecture represented. Students compete solely against classmates at their respective schools, not on a national basis.

As in previous years, the department of architecture at each school selected its own design subject and wrote its own problem. A panel of judges at each school selected finalists from among the competing students. The only stipulation made by Koppers was that each design entered make primary use of flat built-up roofing.

(Continued on Page 21)

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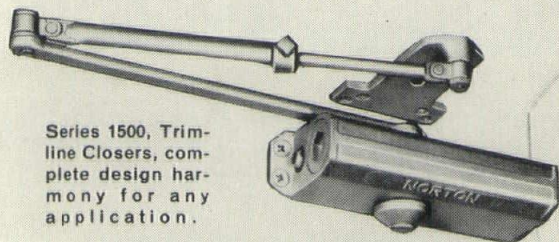
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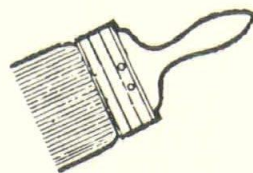


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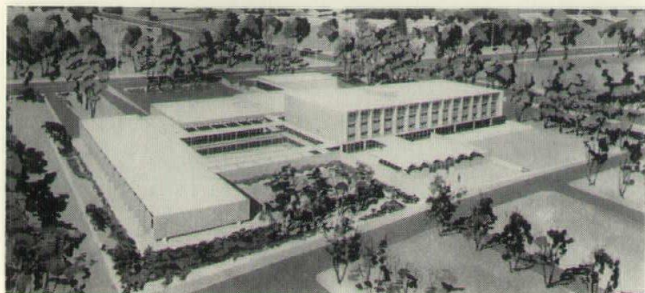
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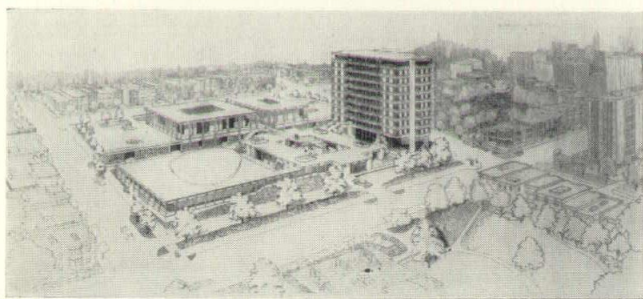
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(Continued from Page 18)

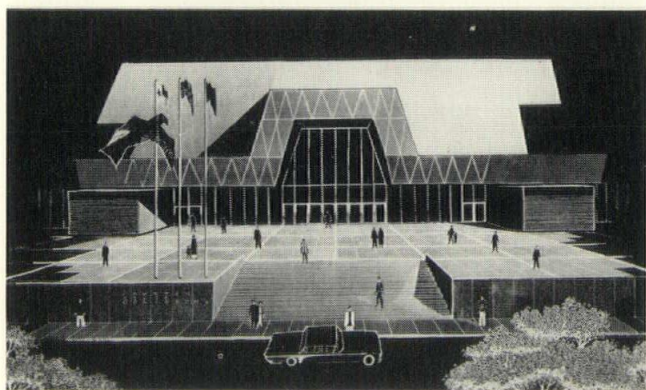
Design subjects in the past have ranged from museums and medical centers to hospitals and housing projects. Each 1960-61 entry was accompanied by a general rendering of the subject, accompanied by one or more two-dimensional floor plans and elevations.



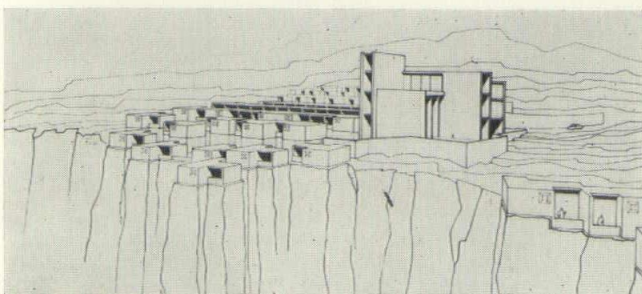
CLEMSON COLLEGE. Project: a 150-bed hospital; Winner: Robert Johnson.



UNIVERSITY OF CALIFORNIA at Berkeley. Project: a professional-commercial center; Winner: George S. Winnacker.



UNIVERSITY OF HOUSTON. Project: a civic coliseum for the City of Houston; Winner: Roy Sidney Gee.



YALE UNIVERSITY. Project: a motel on a promontory; Winner: Charles Gwathmey.

new england ARCHITECT and BUILDER, illustrated—NUMBER TWENTY-SEVEN, 1961

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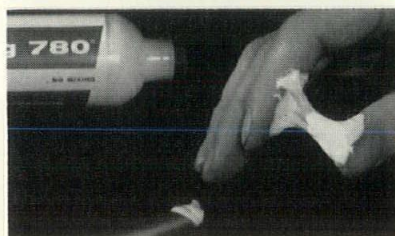
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Availability of a durable new, one-part building sealant that is always ready for application *without heating or refrigeration* has been announced by Dow Corning Corporation of Midland, Michigan. Identified as "Dow Corning 780," this unique new material is a silicone rubber sealant—the first silicone material of this type ever to be offered commercially.

Silicone rubber, unlike most other rubbery materials, resists extreme heat and cold. For example: Before application, Dow Corning 780 retains its smooth, toothpaste-like consistency despite wide variations in temperature. This means the new sealant may be applied at any temperature and stored without special precautions. After curing, the sealant retains excellent flexibility and adhesion from -80 to 350° F.

Requiring no catalyst or pre-mixing, Dow Corning 780 cures to a dry, tack-free surface less than one hour after exposure to moisture in air. This moisture-only curing feature means longer working life as well as simplified storage. Dow Corning 780 is non-staining and may be applied to light colored masonry and other porous materials with complete assurance of trouble-free performance.



One of the first large applications for Dow Corning 780, the new silicone rubber sealant, was in the Research Tower of the S. C. Johnson & Sons building complex in Racine, Wisconsin. Applied between the Pyrex tubes that serve as windows in the tower, Dow Corning 780 has completely eliminated severe water and dirt leakage. S. C. Johnson maintenance employees who applied the sealant stated it was easier to handle, and could be applied twice as fast as any other means of caulking previously tried.

Dow Corning 780 is supplied in handy polyethylene cartridges ready for use in standard air or hand operated guns. Unopened cartridges may be stored for at least three months without affecting sealing properties or performance. Standard colors are white, black, gray with other colors that match or complement, available on request.

Readers desiring more information about Dow Corning 780 should write Dept. WTR, Dow Corning Corporation, Midland, Michigan.

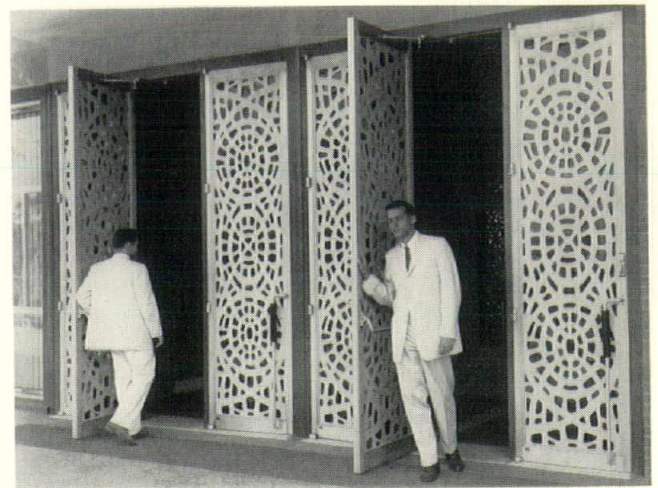
METAL ART GLASS PANELS INTRODUCED BY BAUT STUDIOS

Stained glass, one of man's oldest art tools, today is achieving new popularity as a decorative material through the development of a technique for mounting it in aluminum.

The innovation, which affords designers and architects broad possibilities for treating door and window openings, sandwiches the stained glass between two thin sheets of aluminum into which a selected design has been cut. The glass then appears through the openings. Known as Metal Art Glass Panels, the new application was perfected by Baut Studios, Inc., Forty Fort, Pa., and utilizes metal supplied by Aluminum Company of America.

Ideal where an artistic color design effect is desired for church windows, classic doors, and commercial and institutional buildings, the panels can be produced in a variety of finishes. Contrasting drastically with conventional stained glass, which is limited in practical area to about 18 square feet, these panels can be made in sections up to 50 square feet.

Baut Studios' method of construction begins when the aluminum sheets are cut or pierced to execute the design, and pieces of mouth-blown glass are sandwiched between the layers of light metal. The sections of glass are then surrounded by an epoxy resin, allowing the various parts to expand and contract independently.



Door and window design potential has been widened by Metal Art Glass Panels, which combine the grace of stained glass and the striking finishes available in aluminum. Total design effect is possible due to the reflection of the glass off the aluminum.

Through the use of aluminum spacers, the entire assembly becomes rigid and structurally stable. There are no voids in the interior of the panel, and the seals between glass, epoxy, and aluminum are positive and air tight, according to Harry S. Baut, president of Baut Studios, Inc.

Multiple light planes, and degrees of color density, are achieved by the canting of the individual pieces of glass and by variations in glass thickness. Designs never before possible are now available because of the flexibility afforded by using web members of various widths.

With light deflecting from the panel, glass areas appear dark, while the aluminum assumes a sheen, giving a surface pattern. This permits a total design effect, and the appearance of a continuous art form, added Mr. Baut. Fenestrative areas no longer appear dark during daylight hours, and the converse is true from the interior at night. A design is visible regardless of light conditions.

For further information on Metal Art Glass Panels, contact Baut Studios, Inc., 1031 Wyoming St., Forty Fort, Pa.

NEW SCHOOL DESIGN PROGRAM AVAILABLE

A colorful, new booklet showing how schools can be designed to meet a variety of site and functional requirements has just been released by the National Lumber Manufacturers Association as part of a newly available, complete school design program.

Entitled "Blueprint For Better Schools," the booklet features ways of using wood to produce an esthetic, economical, efficient structure. The designs were developed by Cooper and Auerbach, A.I.A., of Washington, D.C.

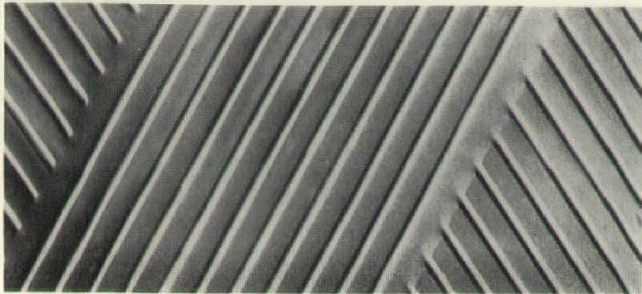
Three basic junior high school concept designs are presented: a compact structure for a level building site, a hillside school intended for rolling or hilly terrain, and a pavilion unit readily adaptable for random campus planning.

Besides including isometric renderings, site plans, sketches, and detail drawings, "Blueprint For Better Schools" illustrates a wide variety of exterior siding, interior panelings, and door and window designs. The booklet also shows flat, sloping, and curved roofs supported by beam-and-purlin and beam-and-rafter systems, laminated wood bents, laminated beams, bow-string trusses, and V-arches.

Single copies of the "Blueprint For Better Schools" booklet are available without charge from the Wood Information Center, National Lumber Manufacturers Association, 1319 18th Street, N.W., Washington 6, D.C. Also available on request are detailed structural data.

THE CHOMES COMPANY

Cornice Temper Zinc Alloy sheet metal and vinyl resin are integrated for producing Rib-Bond thru-wall flashing, a new product, uniting the high corrosion resistant qualities of zinc copper alloy with a tough baked on coating of vinyl resin to permanently resist destructive actions of all caustic alkalis in any green concrete or mortar mix.



Rib-Bond is ribbed in a herringbone design to provide a permanent bond in masonry mortar joints and permit proper drainage of moisture and is available in sheets of any width up to 24" and finished both sides in stone gray vinyl or mortar gray vinyl to blend with masonry work.

Rib-Bond thru-wall flashing can be easily formed in the shop or on the job without cracking or flaking and can be used for all flashing conditions safely in contact with all building materials without galvanic action or staining effects in any climate.

Rib-Bond thru-wall flashing is registered in the U. S. Patent Office and is a product of The Chomes Company, Inc., Boston, Massachusetts, and is now available throughout the United States. A Technical Manual on this product is available free on request.

COMBINATION OF NEW TECHNIQUES REDUCES STEEL TONNAGE TEN PER CENT ON TORRINGTON SCHOOL

The building contract for Torrington, Connecticut High School represents considerably more school for less money because of two innovations in its design.

The steel frame for the gymnasium has been plastically designed. This method of analysis resulted in a 15 per cent saving in the amount of steel required for the frame.

Plastic design has undergone ten years of extensive research in this country before it was officially approved for general use in 1958. Its advantages over "conventional" steel design are that it cuts design time up to 80 per cent and uses less steel. This is done by utilizing all of steel's strength and cutting out unnecessary weight.

By using A-36 steel, newly introduced by the steel producing mills, an over-all saving of ten per cent in steel tonnage was realized throughout the structure. A-36 is an improved structural steel, which, because of its chemical control, has ten per cent higher strength and greater weldability.

The school will have a usable area of 200,000 sq. ft. The gymnasium is composed of rigid frames that span 105 ft. with the frames 26 ft. apart.

The plans went out for bids in mid-March; completion of the entire school is planned for occupancy at the beginning of the Fall semester in 1962.

Architects for the \$3,000,000 project are Nichols and Butterfield; Engineers are Marchant & Minges. Both are West Hartford firms.

new england ARCHITECT and BUILDER, illustrated—NUMBER TWENTY-SEVEN, 1961

TO THE POINT

SPECIFICATION RED TAPE CAN INFLATE YOUR COSTS

An Important Obligation the architect accepts is to co-ordinate the building design with appropriate building products. However, we do not believe the architect should attempt to redesign these products by preparing elaborate specifications on their fabrication—when manufacturers have standard products with superior performance characteristics.

Take the case of hollow metal doors. Frequently, architects will provide rigid specifications on fabrication techniques to assure flatness of the door surface, when all that is really required is a statement of the flatness required or the maximum deviation permitted—and the manufacturer will do the rest.

Rather than detailing how molding should be made, the architect should simply insist on flush molded doors, or say "no overlapping moldings." For paints, he should specify a mar and chip-resistant finish of a particular gloss. He should also indicate the need for adequate strength in hardware reinforcements.

Take advantage of your supplier's research. Get a superior and less expensive product by stating the end result desired and insist on a manufacturer's warranty of at least one year, to assure a quality product. Don't let specification red tape inflate your costs.

* * *

Don't Put Round Pegs in Square Holes when preparing your hardware specs for U/L labeled doors and frames. We frequently find that hardware has not been co-ordinated with U/L requirements, and cannot be used with U/L labeled construction doors or frames.

First, we recommend that you contact your Architectural Hardware Consultant when preparing your specifications. Second, write for the 1961 Fire Doorater, a comprehensive brochure on Overly's U/L labeled doors and frames, with helpful data on appropriate hardware.

Overly

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Overly Manufacturing Company, Greensburg, Pa.

Please send the following literature:

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I would suggest the following subject for "To The Point."

Name _____ Title _____

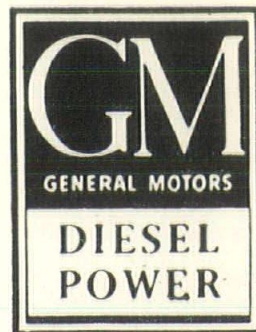
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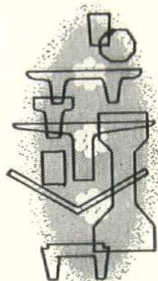
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STRONG ELECTRIC

A new brochure which describes the application of follow spotlights in schools, theaters, auditoriums, hotels, arenas, amphitheaters, stadiums, rinks, night clubs, fairgrounds, circuses, race tracks and traveling shows, and shows typical installations of this equipment, will be sent free to any reader addressing a request to *The Strong Electric Corporation, 41 City Park Avenue, Toledo 1, Ohio.*

WHEELER J-LINE FEATURE — DESIGNED FOR COOLER OPERATION

A new fluorescent fixture design introduced by Wheeler Reflector has resulted in longer ballast and tube life on the job. An air space, provided by an ingenious embossment in the end of each reflector, separates the channel from the reflector. Cool air circulating freely through this space ventilates the entire fixture so that both tubes and ballasts operate at lower temperature. The increased life of these components means fewer replacements, less maintenance and dark-time. *For complete information write Wheeler Reflector Company, Hanson, Mass.*

NEW GLAZED BLOCK DATA

A 16-page technical brochure and file folders of complete "Test Reports" and "Construction Details" have just been made available on SPECTRA-GLAZE glazed concrete masonry units. The brochure describes product features, and details advantages of specific shapes included among the total 37 illustrated. Four pages of full-color plates show accurately the 18 standard and 26 accent colors available.

"Test Reports," reprinted from consulting laboratory originals, give results of tests on all major physical and chemical properties of the glaze itself and concrete shapes finished with it.

The "Construction Details" folder contains loose-leaf sheets of drawings and descriptions of modular construction methods and problems.

All three pieces are available from The Burns & Russell Company, Box 6063, Baltimore 31, Maryland. . . OR Plasti-concrete Glazed Products Corporation, 45 Skiff Street, Hamden 14, Conn.



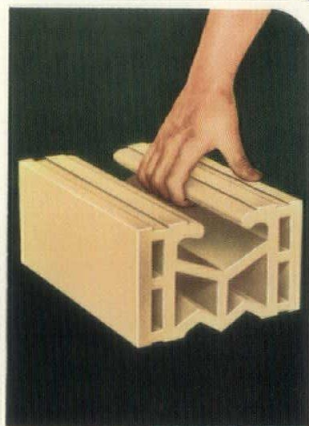
The National Biscuit Company's Fair Lawn, N.J., plant, showing exterior walls of Natco Dri-Speedwall tile.

NABISCO RECIPE FOR A BEAUTIFUL, MODERN BAKERY

26,624,850 lbs. Natco
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3,272,992 lbs.
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Modern architectural
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Natco Dri-Speedwall tile.
Nominal face size 5½" x 12"

Almost 30 million pounds of Natco structural clay tile products went into the construction of Nabisco's new Fair Lawn, New Jersey bakery.

Exterior walls were constructed of Natco Dri-Speedwall tile. This tile is designed to form a series of interior "V-type" channels. Any small amount of moisture that may penetrate through the exterior mortar joints is directed through these open channels and is drained off through weep holes at required locations.

Interior walls of smooth, attractive Natco Vitritile—a ceramic glazed clay facing tile—assure *complete* sanitation in mixing, baking, packaging and other inside areas.

For complete information write for catalog S-61.

Today's idea becomes tomorrow's showplace... when Natco structural clay products are in the picture

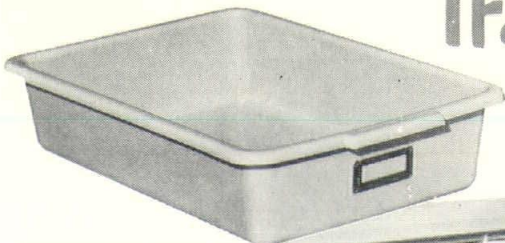
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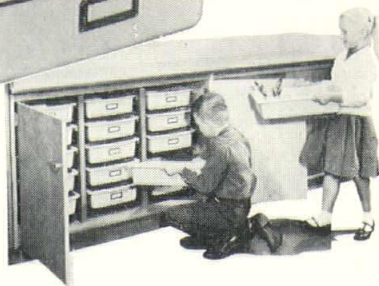
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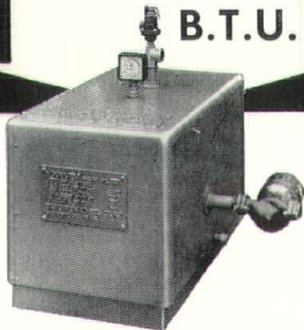


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LOW INCOME HOUSING TO BE AIR CONDITIONED

Worthington Corporation announced today that they have received a contract from Alfo Engineering Company, Brooklyn, New York, to supply air conditioning units for mammoth Penn Station South, a \$35 million low income cooperative housing project currently under construction in the Chelsea area near Pennsylvania Station.

According to Worthington this is the first time that a housing project of this type will be completely air conditioned.

Under joint sponsorship of the International Ladies Garment Workers Union, and United Housing Foundation, the project being built by Mutual Redevelopment Houses, Inc., calls for the construction of ten 20-story apartment houses, serving 2,820 families. Worthington is providing 6,700 fan coil air conditioning units—the largest single order of its kind in the company's history.

Located in a six block area running from 23rd to 29th Streets, between Eighth and Ninth Avenues, the development will include a shopping center, playgrounds, parking facilities, gardens, as well as service and community rooms.

Apartments will range from 2 rooms to 5 1/2 rooms. Tenant owners will invest approximately \$650 per room. Rentals are expected to average \$22-23 per room per month.

The Worthington fan coil air-conditioning units in the new development consist of a basic water coil and air distribution fan with speed switch, control valve, motor and filter.

The units allow comfort control on a person-by-person basis, with a minimum of complication in fitting the equipment to the structure.

They can perform all the important functions of complete air conditioning; circulation, ventilation, filtering, heating, cooling, dehumidification.

A Worthington unit will be installed in each living room and bedroom in the new housing development. The units are connected to a supply and return water piping system emanating from a central heating and cooling system which delivers hot or chilled water. All the air handling takes place at each room conditioner location, and conventional ductwork to the units is not required. The water flow and air delivery may be individually regulated at each unit, thus providing the ultimate in a zone controlled system.

Assembled within an attractive, functionally-designed cabinet, these units will assure coolness in summer, warmth in winter and modulated climate between seasons.

A manual control switch is furnished with all models, for individual regulation of air delivery.

Consulting Engineer is William H. Dusenbury.

PAN AM BUILDING TO HAVE MO-SAI "CURTAIN WALLS"

The use of Mo-Sai pre-cast concrete "curtain walls" on a Manhattan skyscraper represents a new trend in design for America's big buildings.

The 59-story Pan Am Building, which will rise in the next two years adjacent to Grand Central Terminal on Park Avenue, will be covered with Mo-Sai, a pre-cast concrete curtain wall material that has a distinctive texture and color, partly imparted by the very hard exposed quartz aggregate. Many of the new skyscrapers built in New York and other metropolitan centers in the last decade have been sheathed with metal skins, but developments during the past few months indicate a new trend is toward textured masonry, such as Mo-Sai.

Facades of aluminum or steel, accented by tinted glass, somewhat dominated big building architecture after World War II, but building plans of new skyscrapers as well as low sprawling office and business buildings going up across America reflect a shift in faces to facades with the texture and tone of the new masonry materials such as Mo-Sai.

Many architects maintain the prominence of new masonry products for skyscrapers came as a result of the search for facades with warmth, depth and texture, in contrast to the slick cold surfaces of aluminum, glass and steel. When completed in 1962, the massive, eight-sided Pan Am tower will accommodate 25,000 office workers, and will be the largest office building of its type ever built by man. The structure will stand 830 feet tall, and will contain 2,400,000 square feet of office area.

In the case of the Pan Am Building, 600,000 square feet of outer surface will be covered with 11,000 units of pre-cast Mo-Sai, manufactured by The Dextone Co. of New Haven, Connecticut. Dextone was awarded a \$2,350,000 contract for the Mo-Sai erected on the building.

According to Mr. Louis Falco, president of The Dextone Company, each Mo-Sai tower unit will be manufactured in one piece, 6 feet by 13 feet, spanning from floor to floor. They will be pre-fabricated under precise plant controls at their North Haven plant and shipped by flatbed trailer to the construction site at 200 Park Avenue.

"One economical aspect of Mo-Sai is the use of integral lightweight concrete in the spandrel of each Tower unit," Mr. Falco said. "Lightweight concrete cast integrally in the manufacturing process at our plant makes a sturdy, fire-safe backing that adequately meets the New York Construction Code without need for further masonry backing on the job."

White translucent quartz will be used as the aggregate for the face of each Mo-Sai unit, so when completed the building will take on a clean, egg shell-colored hue and give the New York skyline a novel and unique building.



Mr. Falco said 125,000 cubic feet of concrete, 20,000,000 pounds of quartz, 600,000 pounds of reinforcing steel and 7,500 barrels

of white cement, will be used in the manufacturing process.

From the eighth floor up, where the octagonal tower soars into the sky, the Mo-Sai units will give the building aesthetic, vertical lines, as well as a textured, shadowed effect. Each unit will frame a window, with vertical fins jutting out 13 inches on each side, a simple spandrel panel below and window lintel above. Aluminum-framed windows on pivots will be attached to each unit. In place, the individual Mo-Sai unit will span one whole floor.

Each unit is simply bolted to steel outriggers attached to the super-structure of the building.

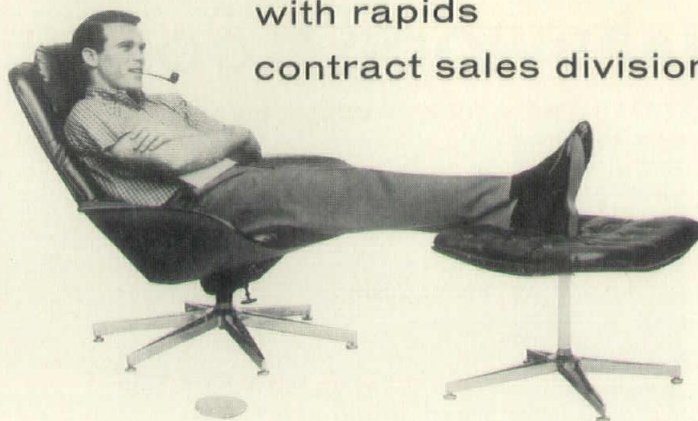
The Pan Am Building was designed by a team of architects, consisting of Emery Roth & Sons, Walter Gropius and Pietro Belluschi, all famous names in the world of architecture. It is being sponsored by Erwin Wolfson of New York and Jack Cotton of London. General Contractor is Diesel Construction Co. of New York City, Carl A. Morse, President.

For 53 years The Dextone Company has led in expanding the use of pre-cast products. The creation in 1936 of the architectural exposed masonry panel known as Mo-Sai was the result of its continual research, the development of new skills and close application of a systematic understanding. In order to control closely the supplies of aggregate for its manufacture the company maintains an up-to-date crushing and grading plant with testing equipment to maintain the quality of the product.

The latest research leads The Dextone Company to believe that application of the principle of prestress in manufacturing Mo-Sai will produce larger panels covering a greater wall area and that, in turn, will mean more economical construction.

new england ARCHITECT and BUILDER, illustrated—NUMBER TWENTY-SEVEN, 1961

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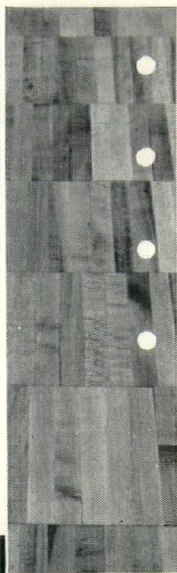
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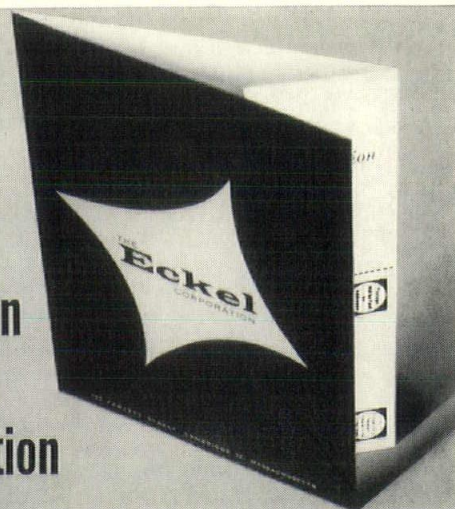
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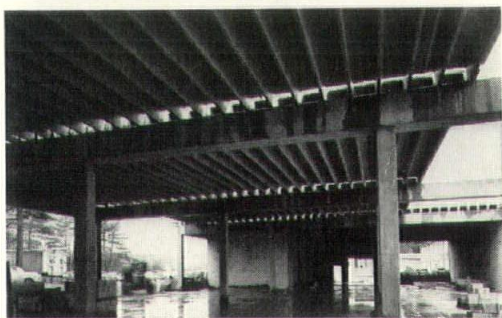
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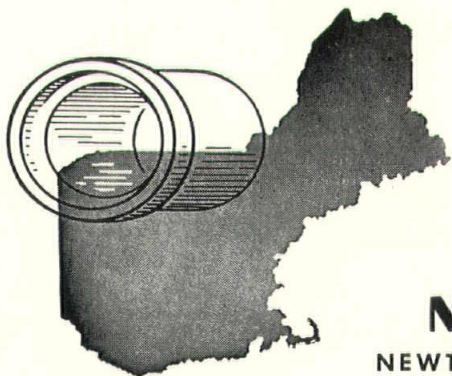


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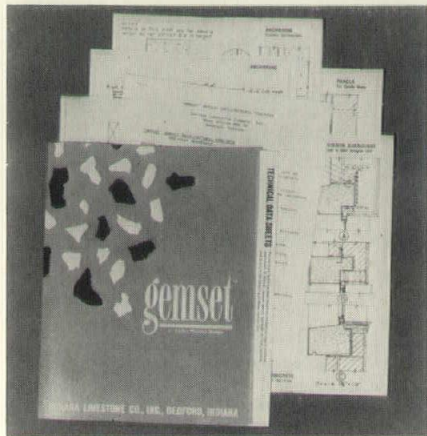
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A new file folder of *Gemset Technical Data Sheets* is now available to help architects in detailing applications for the manufacturer's exposed special aggregate pre-cast architectural concrete. A



series of transparent vellum tracing sheets provide scaled details for a number of applications, including panels, spandrels, window surrounds, copings, soffits, lintels, steps and stringers. Other similar sheets illustrate details relevant to hoisting, erection, anchoring, joining, and paving. In addition, a complete set of specifications is included, providing comprehensive information about materials, quality, extent of work, manufacture, handling, and erection. For a copy of the new publication, write *Indiana Limestone Company, Inc.*, Bedford, Indiana. A.I.A. File No. 4-K-1.

New Fiberglas Sound Control Blankets, installed within interior stud walls during construction, prevent substantial amounts of irritating noise from passing to adjacent rooms. Performance is better than a six-inch concrete wall in reducing sound transmission.

**NEW BURGESS-MANNING "b.t.u."
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COMPANY PUBLICATION**

The Architectural Products Division, Burgess-Manning Company, Libertyville, Illinois, has just released the first issue of its completely new external house publication—"The b.t.u."

Of prime interest to architects, consulting engineers, building owners, school and hospital administrators, "The b.t.u."—a 4-page illustrated publication—provides information, new trends and technical data on Radiant Heating, Cooling and Acoustic Ceilings.

Featuring case histories of Burgess-Manning Radiant Ceiling installations at schools, hospitals and office and commercial buildings, "The b.t.u." also includes technical data of especial interest to architects, engineers and contractors, and other useful information on radiant heating and cooling with acoustic control.

"The b.t.u." will be mailed monthly, at no charge, upon letterhead request to Burgess-Manning Company, Architectural Products Division, 749A East Park Avenue, Libertyville, Illinois.

**COMPREHENSIVE PRODUCT AND
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OFFERED BY CERAND CORPORATION**

A new 12-page brochure, detailing their experience and facilities, has recently been released by The Cerand Corporation of Boston, Mass., an affiliate of the Clarkson Engineering Company, also of Boston. A unique organization, Cerand is engaged in bringing the techniques of product and market research and development to the fields of civil engineering and construction. The firm is active in developing new products for the construction industry, developing new uses for raw materials and solving complex civil engineering problems.

The new brochure contains a step-by-step

chart and explanation of how Cerand works in conjunction with management and other departments of its client companies. One section of the brochure outlines present production and market development opportunities for all possible suppliers to the construction industry. Another section describes civil engineering applications of interest to military, federal, state and municipal authorities as well as industry. Also included is a listing of some of The Cerand Corporation's major study, research and development projects.

The Cerand Corporation's new brochure is described as a valuable aid for all organizations interested in product and market development. Copies are available from The Cerand Corporation, 285 Columbus Avenue, Boston, Massachusetts.

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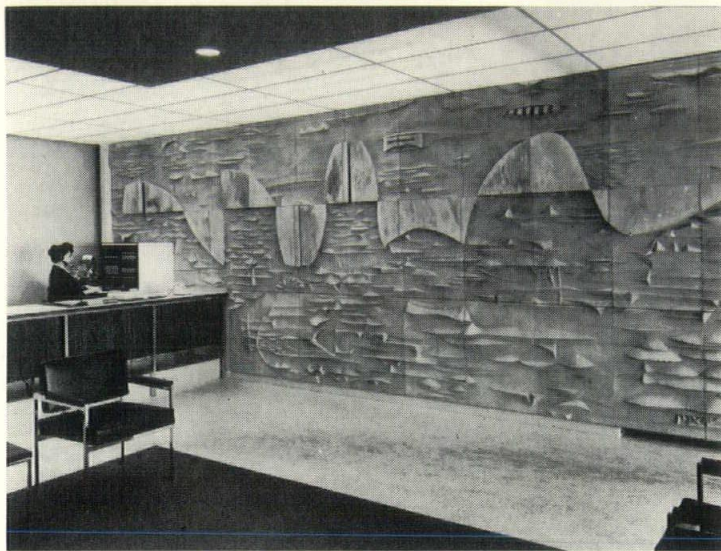
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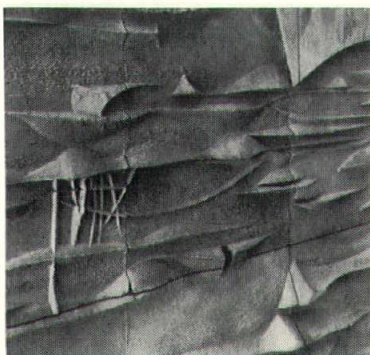
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CONCRETE RELIEF MURALS are now practical and economical as impressive decoration in traditional or contemporary buildings. The process, developed in the Plasticrete laboratory, allows the sculptor to use any effect he wishes, even undercut projecting elements, in his design. The mural is pre-cast in durable concrete panels at the Plasticrete plant, delivered to the site, and speedily installed. Shown above is a 25 ft. mural at Cuno Engineering Company, Meriden, Conn.

CLOSE-UP VIEW of mural shows relief detail. Note the various textures, the thin edges, the curved and angled projections. The flexibility of the molding process gives the artist complete freedom in creating the effect he wants. Since the mural is assembled from panels, there is no limit to the area that can be covered.



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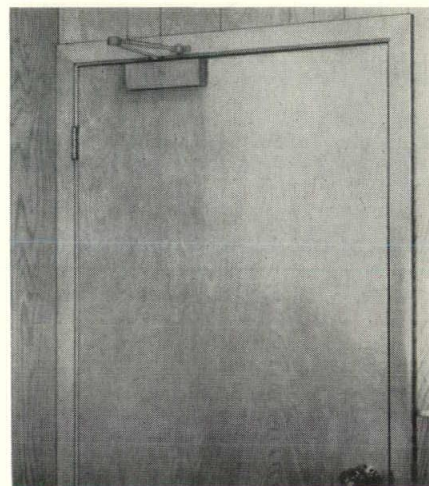
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UNDERLAYMENT COMBATS HEAVY-FOOTED WOMEN

The dainty spike-heeled shoes on the feet of a 120-lb. woman can exert a localized force of 3420 lbs. per sq. in. on a floor. At each step, she puts about two-thirds of her weight (80 lbs.) on the back edge of her heel, which covers a floor area about $\frac{3}{8}$ -in. by $\frac{1}{16}$ -in. Not considering possible impact, this is enough to dent asphalt tile and more than enough to drive the heel through inadequately-supported resilient tile. A free booklet about *Underlayment*, a plywood grade developed to combat this and other floor problems, is available free from Douglas Fir Plywood Association, Tacoma 2, Wash.

NORTON DOOR CLOSER

Norton Door Closer Company announces the availability of a new series of wood-grain covers for Series 7000 surface-mounted narrow-projection door closers. For the first time, closers are available covered with the same woodgrain exterior as the doors they control.



The door closer covers are metal with a thin lamination of wood veneer (Flexwood) bonded to the exterior. They are available from stock in six of the most popular woodgrains and as a special order from a selection of 69 exotic and native woodgrains. Covers for these Norton Door Closers may be ordered from stock in Honduras Mahogany, Flat Cut Oak, Red Birch, Flat Cut Walnut, Teak and Cherry.

The wood is supplied natural so it may be finished by the decorator to perfectly match the finish of the wood door.

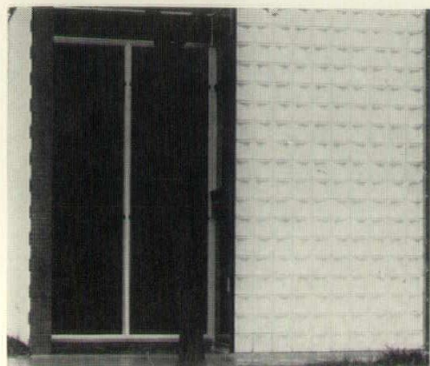
Series 7000 door closers are full rack-and-pinion hydraulic operating closers that project less than two inches from the surface of the door. They are available with regular, parallel, holder or fusible link arms for either right- or left-handed doors.

Dual controls permit a wide range of regulation for both closing and latch speeds.

For complete details and specifications for these new woodgrain covered door closers write for Bulletin "WG," Information Department, Norton Door Closer Company, 372 Meyer Road, Bensenville, Illinois.

NEW SCULPTURED GLASS WALL HAS COLOR, TEXTURE — AND ADMITS LIGHT

New office of the Dun-Well Construction Company in Wyandotte, Michigan, features a wall of pure white Sculptured Glass Modules.



The Modules—hollow units with a design pressed in both faces—have a white ceramic finish on their outer faces. The color, which is fused onto the surface, is translucent and allows light to pass through.

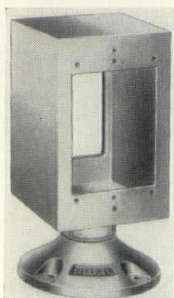
Recently introduced by the Pittsburgh Corning Corporation, the Modules are available in four patterns—"Pyramid," "Wedge," "Leaf," and "Harlequin"—and eleven colors.

Architects Dezur & Reese of Bloomfield Hills, Michigan, chose white "Wedge" units for the Dun-Well office. The units are 12-inches square and 4-inches thick. Their interior is at a partial vacuum which gives them excellent insulation characteristics.

The modules are mortared in place so they form a strong, practically maintenance-free wall, yet one that allows the architect an almost unlimited freedom of design through the use of various colors, patterns and even placement of individual blocks.

KILLARK INTRODUCES VERSATILE FLANGE FITTING

A flange fitting that makes it easier and quicker to install many kinds of electrical equipment has been developed by Killark Electric Manufacturing Company. Receptacle outlets, switches, pilot lights, electrolets, FS fittings and similar units can be used with this handy fitting. It can be mounted on 3/4" outlet boxes, junction boxes, or directly on table tops or other surfaces. The new device is all rust-proof aluminum; four holes are provided for attaching screws or bolts.



Further information can be obtained from Killark Electric Manufacturing Company, 3940 Eastern Avenue, St. Louis 13, Missouri.

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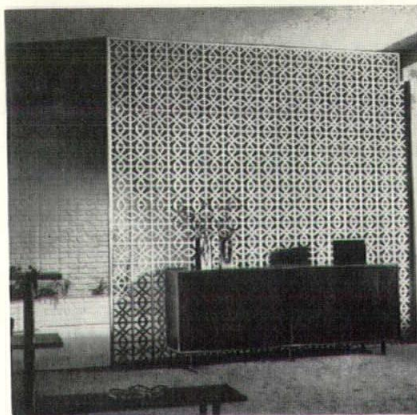
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SCULPTA-GRILLE WINS TOP AWARD

Harvey Design Workshop, Inc. of Lynbrook, Long Island, N. Y. has been named the recipient of a Top 15 Editorial Award for 1960 for the development of its Sculpta-Grille decorative grillwork. Selected on the basis of interest shown in it by architects and builders throughout the country, Sculpta-Grille was the only product manufactured in the New York-Metropolitan area among the honored fifteen.

The special award was presented at the annual National Association of Home Builders Convention in Chicago by "Building Products," a national trade magazine of the construction industry. Sculpta-Grille is a versatile architectural grille panel concept in sculptured plastic



for interior and exterior decorations. Embodying the finest technique in plastic engineering, impact-resistant Sculpta-Grille is fully molded on all sides for richness in depth and detail. (The attached brochure fully explains and illustrates the design features and specifications of this outstanding product by the Harvey Design Workshop.)

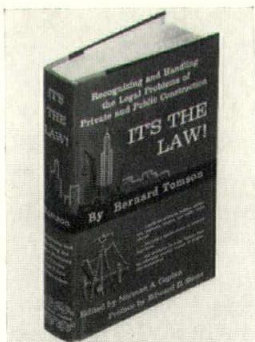
Sculpta-Grille has been installed in the new Air-India ticket office on Fifth Avenue, New York; John Wanamaker, Philadelphia; T. Eaton Co. Department Store, Toronto; Benjamin Franklin Hotel, Philadelphia, as well as in many other commercial buildings and residential homes.

If you wish any further information, please contact Mr. Richard Harvey, Harvey Design Workshop, Inc., 612 Merrick Road, Lynbrook, Long Island, N. Y.

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DEERE LANDSCAPE SEEDER

A new landscape seeder with the flexibility to provide exact, accurate work on a wide variety of seeding jobs has been developed by John Deere engineers.



The John Deere 265 Landscape Seeder used with the John Deere 5/8-yard Wheel Loader on a lawn-seeding project.

The new seeder—the John Deere 265—can be used for planting any lawn or cover-grass mixtures, including legume seeds. It has a wide range of seeding settings. It can plant at the light seeding rate of 1/2 pound to an acre for seeds such as red fescue. Its range extends as high as a 360 pound per acre setting for seeding grasses such as bermuda or some clovers.

It has a similar wide range of performance for spreading fertilizer, being able to spread granular fertilizers at a range anywhere between 100 to 800 pounds per acre.

The new seeder, now in production, is a three-point-hitch unit which can be attached or removed from any three-point-hitch tractor in minutes. In one operation it finishes a prepared seedbed, applies a six-foot band of seed and fertilizer, and then covers both. It operates at speeds up to 4 1/2 miles per hour.

Specially designed fluted feeds, driven by a spiked roller, provide the machine with its positive and accurate seeding.

In operation, adjustable, flexible tines smooth the surface and loosen crusted ground to make a well-prepared seedbed.

The spiked-tooth roller presses a cover over the seed and breaks clods and aerates the soil. A trailing chain covers exposed seed and spreads a cover of pulverized soil over the entire planted area.

The "265" is equipped with a Multi-Luber system. The frequent lubrication desirable on a machine of this type is provided by pushing in one plunger. This provides metered pressure lubrication to all bearings which require greasing. The machine was designed to meet the most exacting requirements of landscapers, nurserymen, park systems, and golf-course builders in addition to street and highway building and maintenance departments.

PARKING LOT MANUAL TELLS HOW TO AVOID PITFALLS IN PLANNING

Western Industries, Inc., has announced a new planning aid for city officials, architects, contractors, and hospital, hotel, school, and industrial management concerned with the parking problem.

The 1961 edition of a comprehensive, 40-page manual titled "How to Lay Out a Parking Lot" takes into account the dimensions of all 1960 and 1961 model cars, including the compacts which can be placed effectively in reserved areas.

Detailed sketches and photographs provide a variety of parking lot plans, including layouts for parking at 90-degree, 60-degree, and 45-degree angles, with recommended individual stall dimensions, aisle widths, and entrance and exit sizes. Parking lot patterns described in detail include straight row parking, perimeter and island parking, slanted stalls, herringbone pattern parking, and v-shaped patterns.

Minimum space requirements are provided for specialized parking lots serving differing facilities, such as amusement centers, stores, stadiums, banks, bowling alleys, churches, offices, hospitals, hotels, factories, night clubs and theaters.

Mechanical aids, such as coin, token, ticket and key operated electric parking gates, electronic vehicle detectors, ticket printers, and other automatic equipment are discussed in the manual. Other equipment, including parking barriers and guides, also are described.

For copies of "How to Lay Out a Parking Lot," write to Western Industries, Inc., Parking Gate Division, 2742 West 36th Place, Chicago 32, Illinois.

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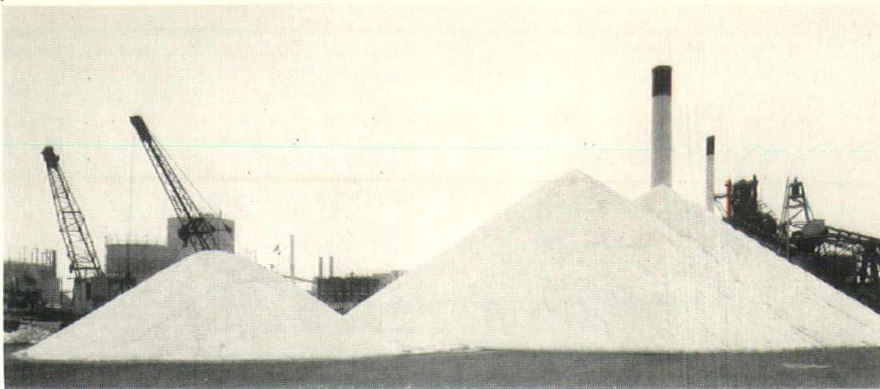
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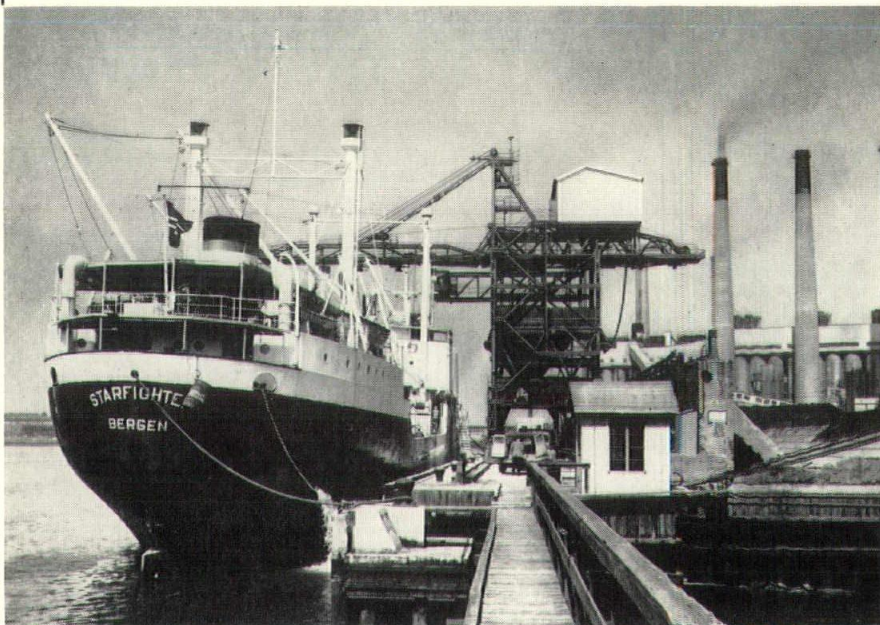
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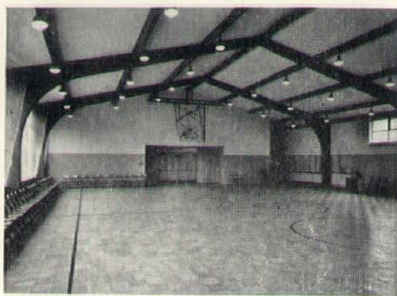
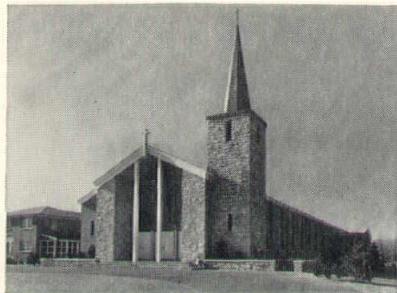
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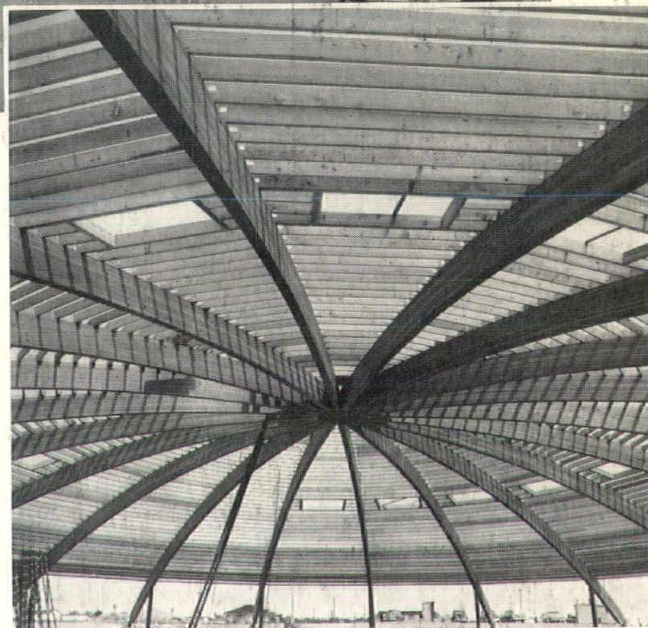
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