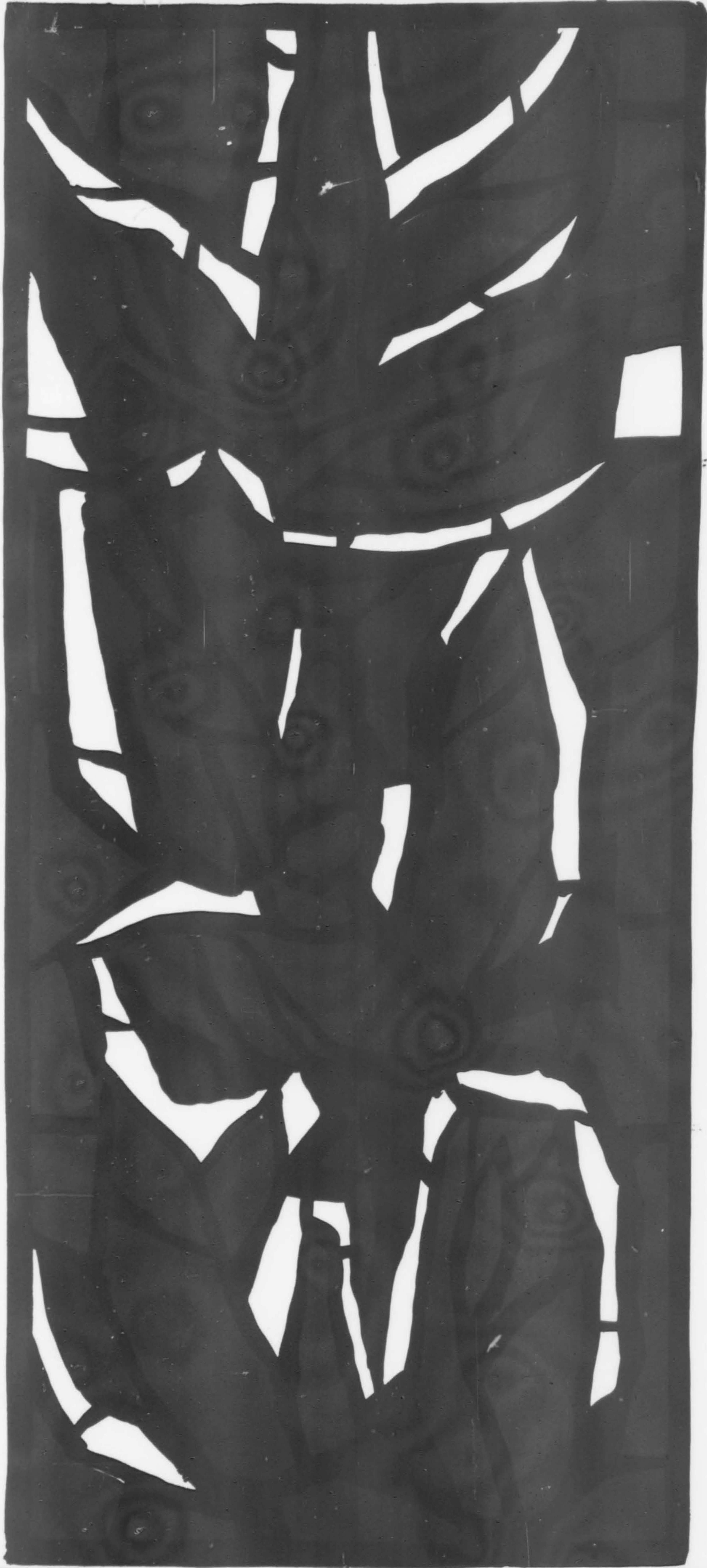


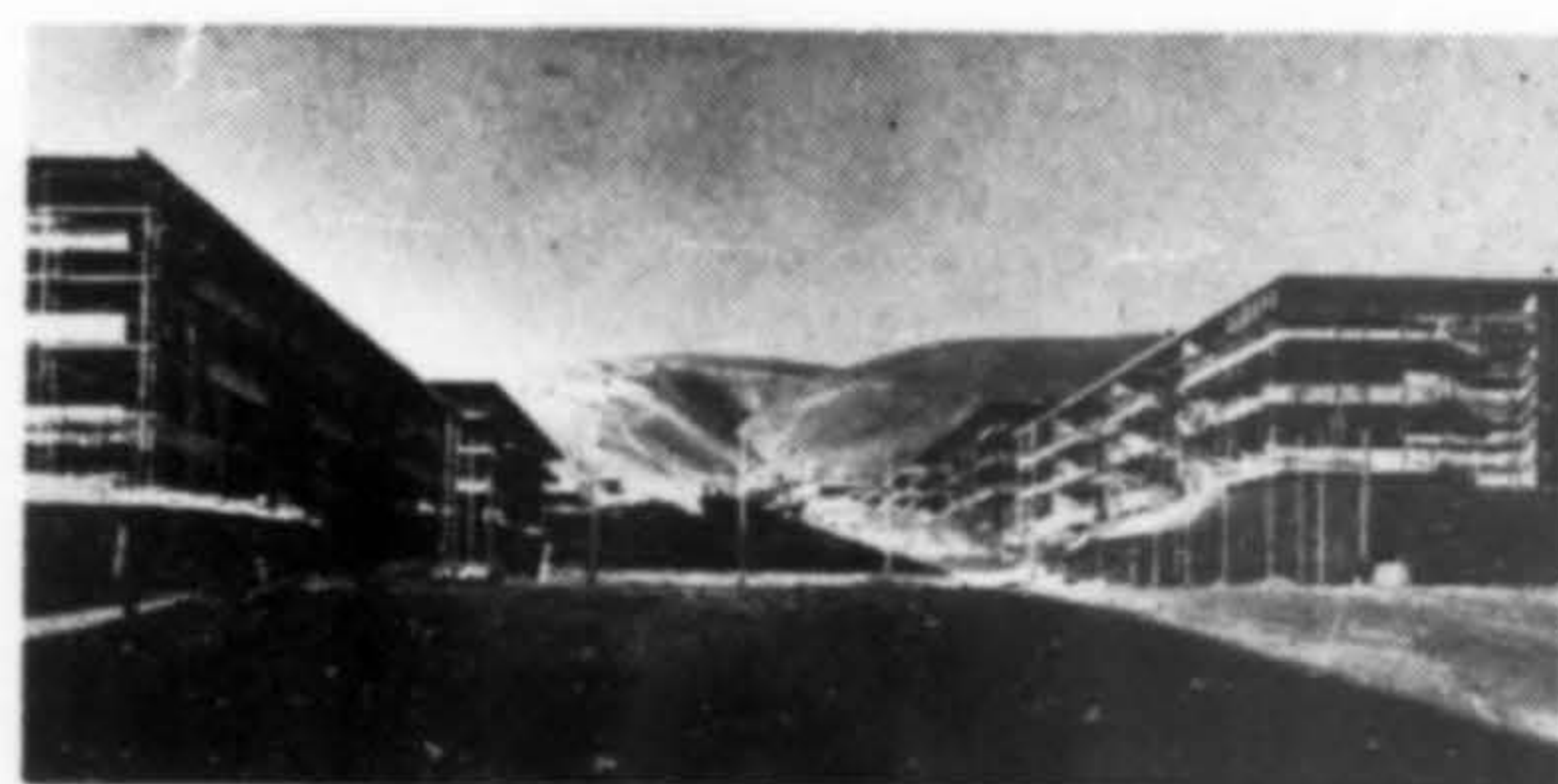
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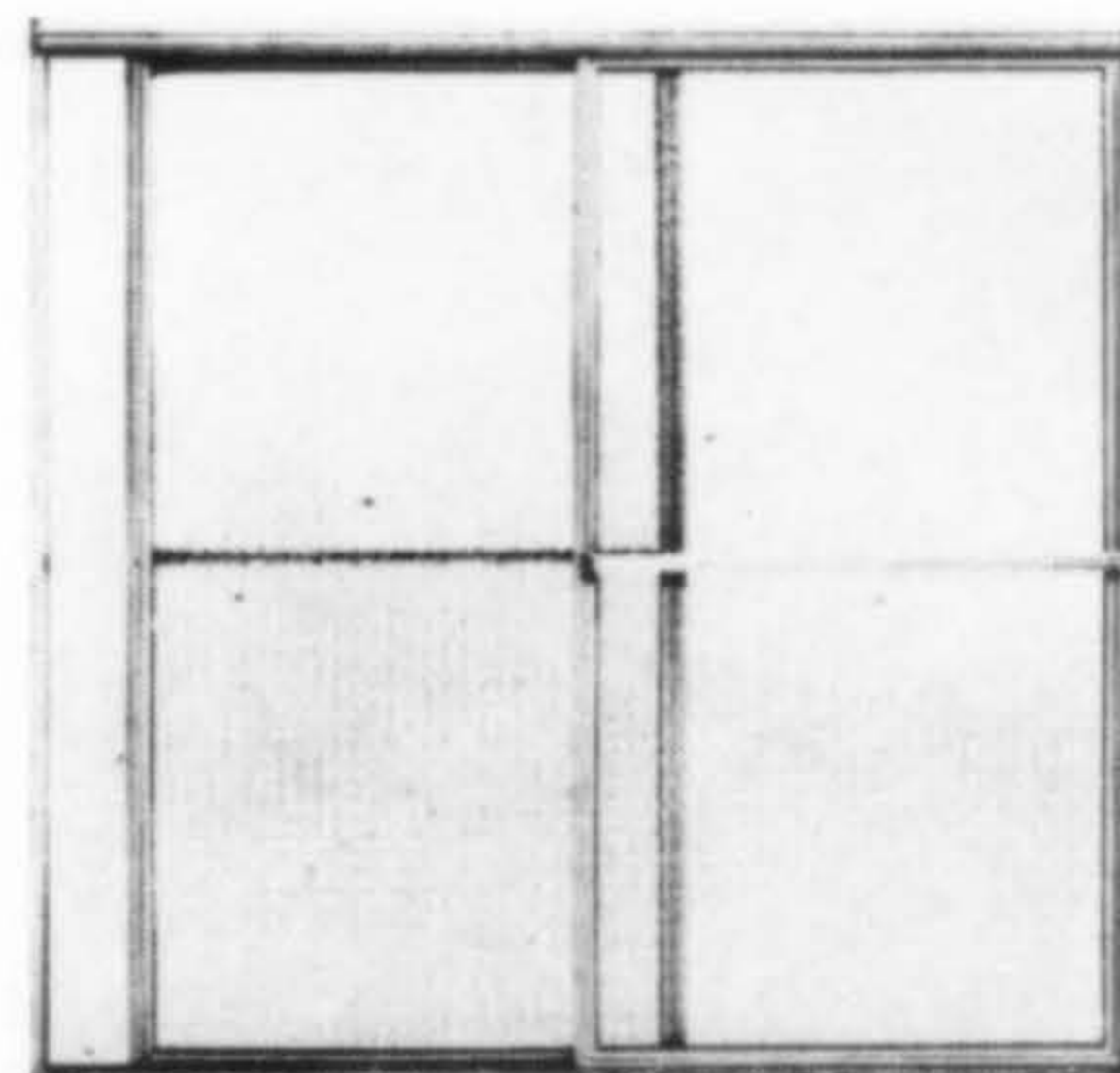
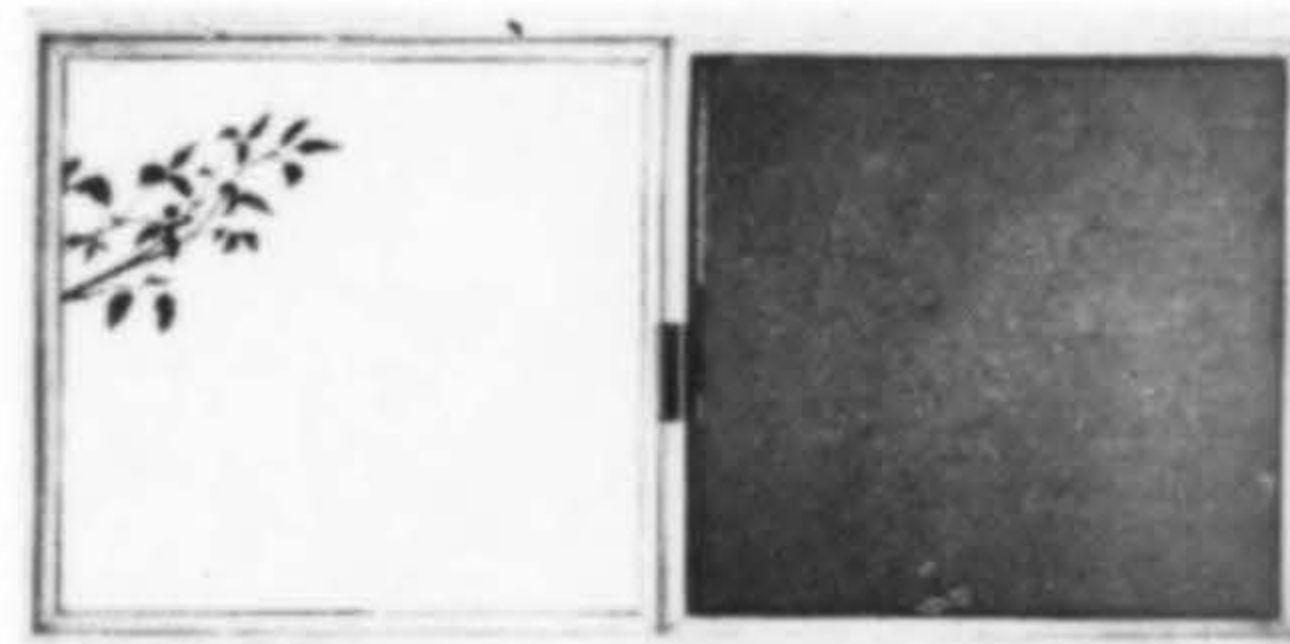
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Montana

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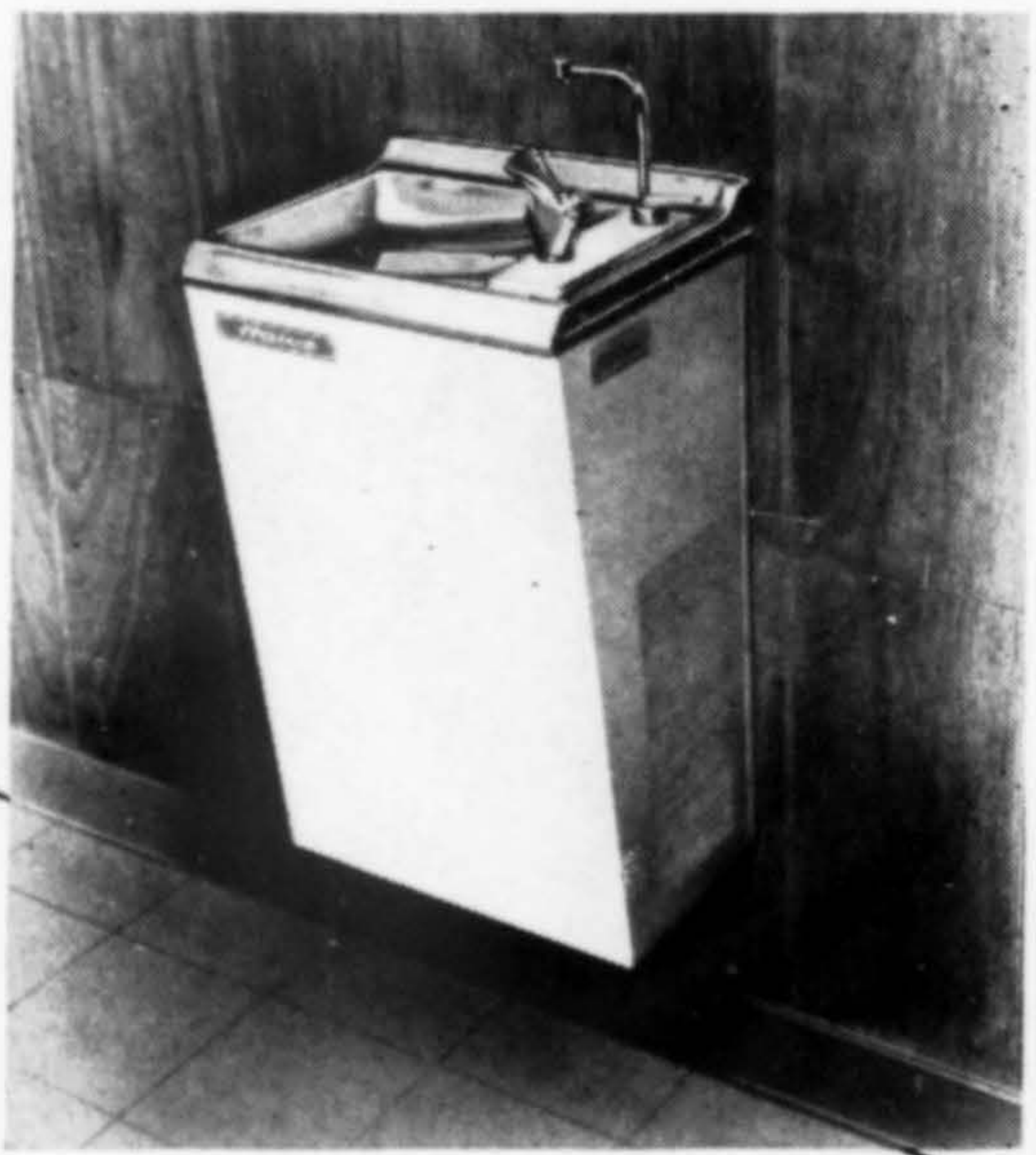
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THE COVER: "Peace", by Robert Pinart, stained glass designer. The olive branch symbolizes the central message of Christmas. The cover panel was especially designed for this issue of ARCHITECTURE/WEST by Mr. Pinart on a commission from the Cummings Studio.

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PLANTS IN CORONA,
RESEDA AND REDLANDS

HIGHLIGHTS and SIDELIGHTS—

Building construction rise seen in 1967—

Prediction that home building would recover from its slump by next year with the latter half of 1967 seeing more than \$20 billion in construction contracts was made at the annual convention of the Building Contractors Association of California in Honolulu last month. This would mark a new high in value and volume. The prediction was made by Sanford Goodkin, construction economist, who emphasized the temporary nature of the slump.

BART has \$151 million cost overrun—

The San Francisco Bay Area Rapid Transit District is faced with an indicated cost overrun of \$151,224,000 on the basic 75-mile system. The BART Board of Directors listed the following reasons for the overrun: (1) inflation in the economy; (2) delay in the actual start of engineering design; (3) major delays caused by alternate design studies demanded by various communities through which the system passes; (4) important additions to the project's scope. Construction is running two years behind schedule. They hope to alleviate the problem by exploring increased federal participation in the project; a temporary reinvestment of bond proceeds; instituting a rigid control program using alternate construction methods and new construction cost targets; the deferring of system elements not required for initial operation.

California: the shape of everybody's future—

A British Broadcasting Company documentary recently labeled California as "the shape of everybody's future." The program predicted that "The Pacific Coast already is the center of the world's most advanced technology and the pattern of the 21st Century can be projected realistically on the basis of progress already made in California and on the Pacific Coast."

Contractor law upheld in Washington—

The review of a Washington State Supreme Court decision upholding the constitutionality of a 1963 law requiring contractors to register with the state and post bond has been declined by the U. S. Supreme Court "for a want of a substantial federal question." The law, which took effect last summer, requires every contractor to register, to file a surety bond of \$2000 if a general contractor, and furnish satisfactory evidence that he has public liability and property damage insurance.

Redwood City \$176 million project approved—

Plans for a \$176 million urban community project on 4,530 acres near Redwood City, California, have been approved by the San Francisco Bay Conservation and Development Commission. The 20-year project, Redwood Shores, will include a 10-acre public park area.

\$15 million total community for Boulder, Colorado—

Ground has been broken for a \$15 million total community just below the Boulder (Colorado) Flatirons range. The new community will be included in the city of Boulder. The development, to be called Devil's Thumb after a projection in the mountain range, will have 432 residential units, including single family, townhouse units and apartments.

Pumped & sprayed concretes

Prepared as an industry service by Portland Cement Association

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For greater construction efficiency, today, more and more concrete is being delivered to its final location by means of mechanical or pneumatic pressure.

For spraying of concrete (shotcreting), equipment is available for handling either wet or dry mixes containing aggregate up to $\frac{3}{4}$ -in. size. The method provides a means of forming structural shapes with reduced formwork. Shotcrete bonds well to steel or concrete, and has high strength, density and durability.

Grouting consists of filling voids with a fluid mixture of cement, sand and water, usually under pressure. In one type of application, coarse aggregate is preplaced in a form and then grouted. For decorative effects, surface mortar may be removed later to expose the coarse aggregate particles.

Where placing of structural concrete by conventional methods is difficult because of inaccessibility to ready mix trucks, absence of hoisting equipment, or necessity for placing in unusual locations, pumping of concrete may provide an economical solution. Equipment is available for pumping high-quality concrete more than 1,000 feet horizontally, and 120 feet vertically.

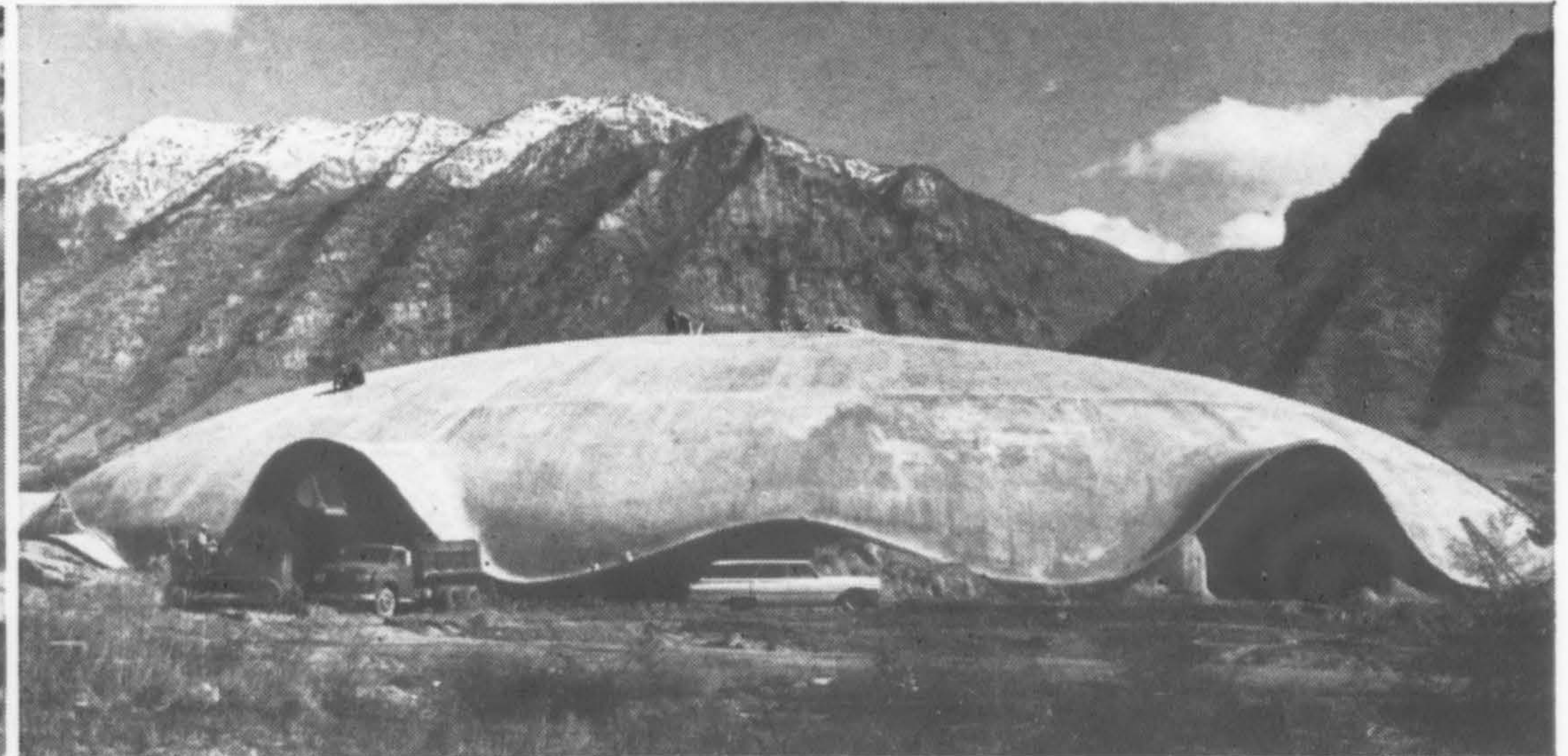
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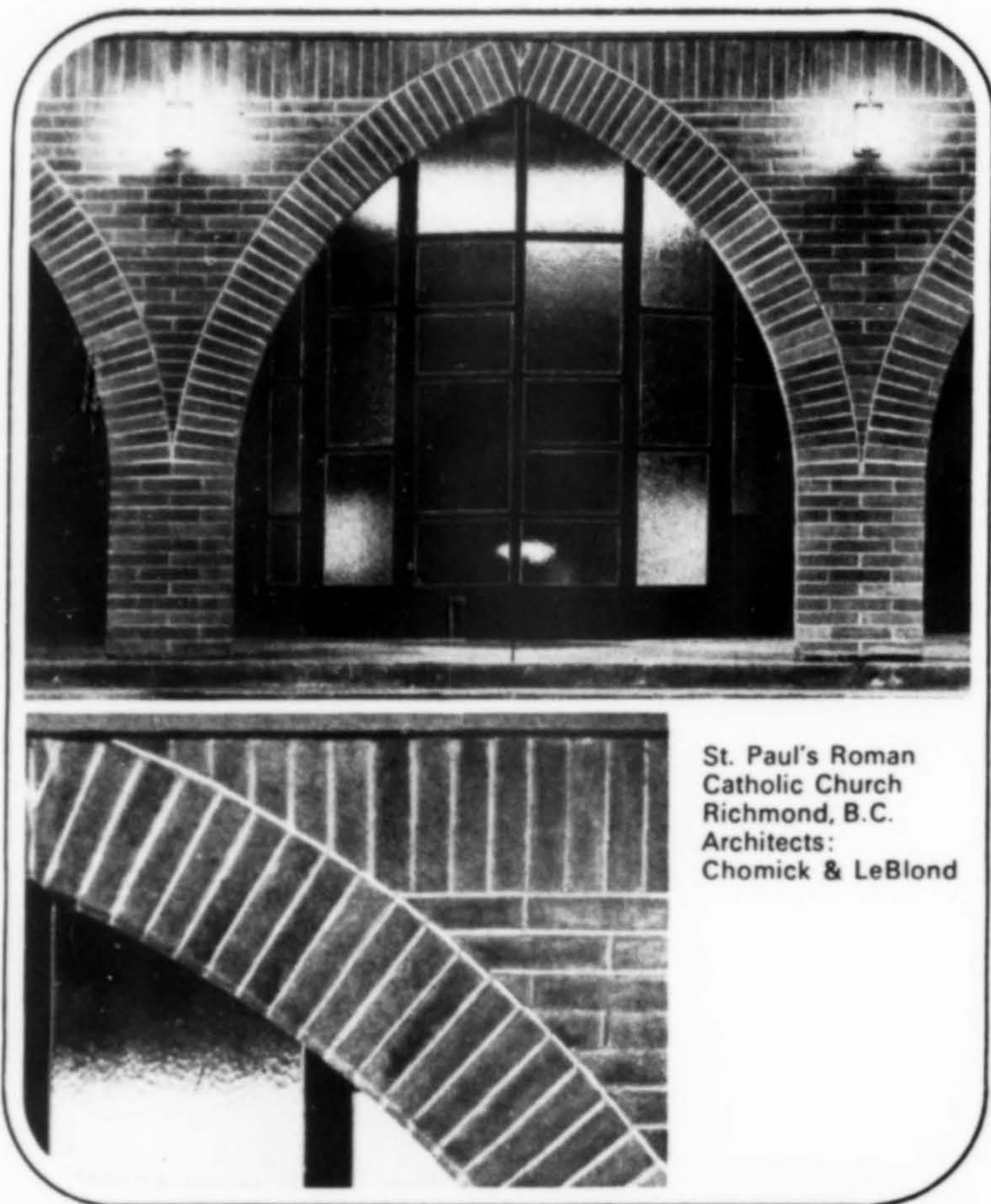
STRUCTURAL APPLICATIONS OF PUMPED AND SPRAYED CONCRETES

Construction Technique	Process	Equipment	Application
<i>Dry-mix shotcrete</i>	Portland cement and dry sand conveyed by air pressure and mixed at nozzle with water as it is blown onto receiving surface.	Mixer, compressor, and nozzle.	Thin slabs, roofs and sloping surfaces; repair of concrete surfaces; overhead applications; placement in locations which are not accessible for normal methods of placement.
<i>Wet-mix shotcrete</i>	Pre-mixed mortar and concrete are shot into place pneumatically.	Mixer-compressor, hose and nozzle.	Same as above.
<i>Preplaced-aggregate concrete</i>	Aggregates placed and compacted into forms and then grouted.	Mechanical & centrifugal pumping systems.	Use of exposed aggregates in decorative concrete; and for structures such as reactors, underwater foundations, dams.
<i>Grouting</i>	Portland cement-water slurry, pumped through hoses.	Pumps	Stabilization of foundations; bonding of strands in conduits for prestressed concrete.



A dramatic example of pneumatic concrete construction is this "triaxial ellipsoid." It is the Winter Gardens Ice Skating & Sports Arena in Provo, Utah. The structure, 160 feet wide and 240 feet long, was cast over a man-made mound of dirt. After the concrete had set,

frontend loaders moved into the entrances of the building, dug out the 40,000 cubic feet of dirt, and left the huge double-curved concrete shell. The architect was Lee Knell of Provo. The engineers were Harry Hodson, formerly of Provo, and Arnold Wilson.



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The BART tiff continues . . .

THE BAY AREA RAPID Transit tiff, arising from the resignations of architect Donn Emmons and landscape architect Lawrence Halprin from the BART advisory staff, still is headline news. The following sums up the issue as we go to press:

The Bay Area Council:

"Although we are not in a position to evaluate this situation, certainly we know that from the earliest planning it has been the effort of the district to have the rapid transit system be one of which our total citizenry will be proud in its engineering concept and aesthetic qualities . . . We are satisfied with the procedures of the board's architectural review committee."

The 14 project architects on BART stations:

A four-man committee to study architectural procedures and transit recommendations to the BART directors has been appointed: Vernon DeMars, Gerald M. McCue, John Lyon Reid, John Weese.

The San Francisco Board of Supervisors:

A resolution urging BART to adopt the recommendations of the two architects who resigned has been offered to the system. It is expected other communities along the transit routes may follow suit, confronting the appointed 11 members of BART's board of directors with a strange esthetic revolt at this crucial midpoint of their construction program.

The American Institute of Architects:

Cabell Gwathmey, regional director, presented the AIA's view in which they disagreed with Emmons and Halprin's contention that "an architect or planner should be the prime design professional responsible to the district." He cited a provision of the guide set up for collaborating design professionals and said that BART had carried out this duty "wisely and properly."

BART director Roger Lapham, Jr.:

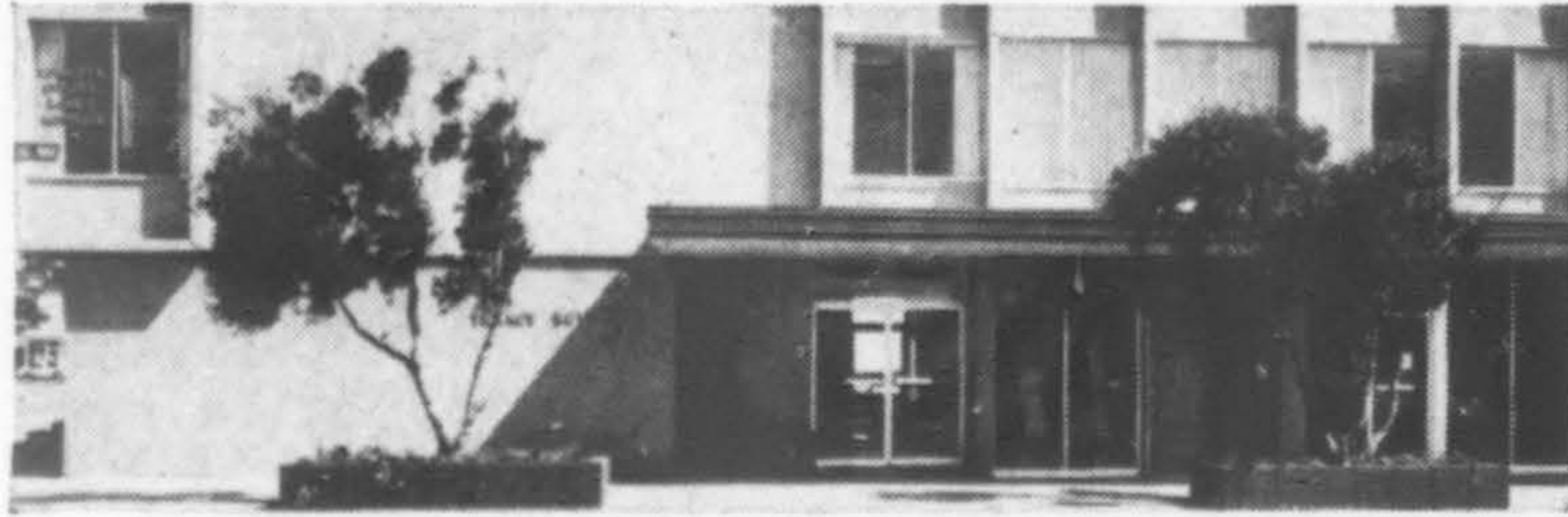
Two recent bids on general obligation bonds indicate that the nation's large financial institutions have confidence in the BART projects, since bids were far below the interest rates generally attracted by municipal bonds. "Despite the criticism, largely unwarranted, against the district, the staff, the directors and the engineers, it should be noted we would not have enjoyed such a favorable rate if the country's financial houses shared the belief of a few local persons."

B. R. Stokes, BART general manager:

In a 40-page report, he summed up the allegations and declared they were all false. "The abrupt resignations were admittedly staged for a dramatic effect, and were dismaying, of course." Halprin, he said, had filed no specific complaints except over budget limitations but that Emmons had questioned his role in the project for months. The complaints, boiled down: they did not enjoy as large a role in the project as they wished; the board is being denied its proper voice in design decisions; because of these 'improper' procedures, inadequate and mediocre design of the system is resulting. All false, Stokes says. "The written record substantiates that they did have a voice in all decisions."

BART:

The board of directors has approved a suggestion to have the nation's top urban affairs writers and transit experts come to San Francisco and see what kind of a job is being done on the 75-mile system—at their own expense. ("We don't want it to look like we were buying public opinion.")



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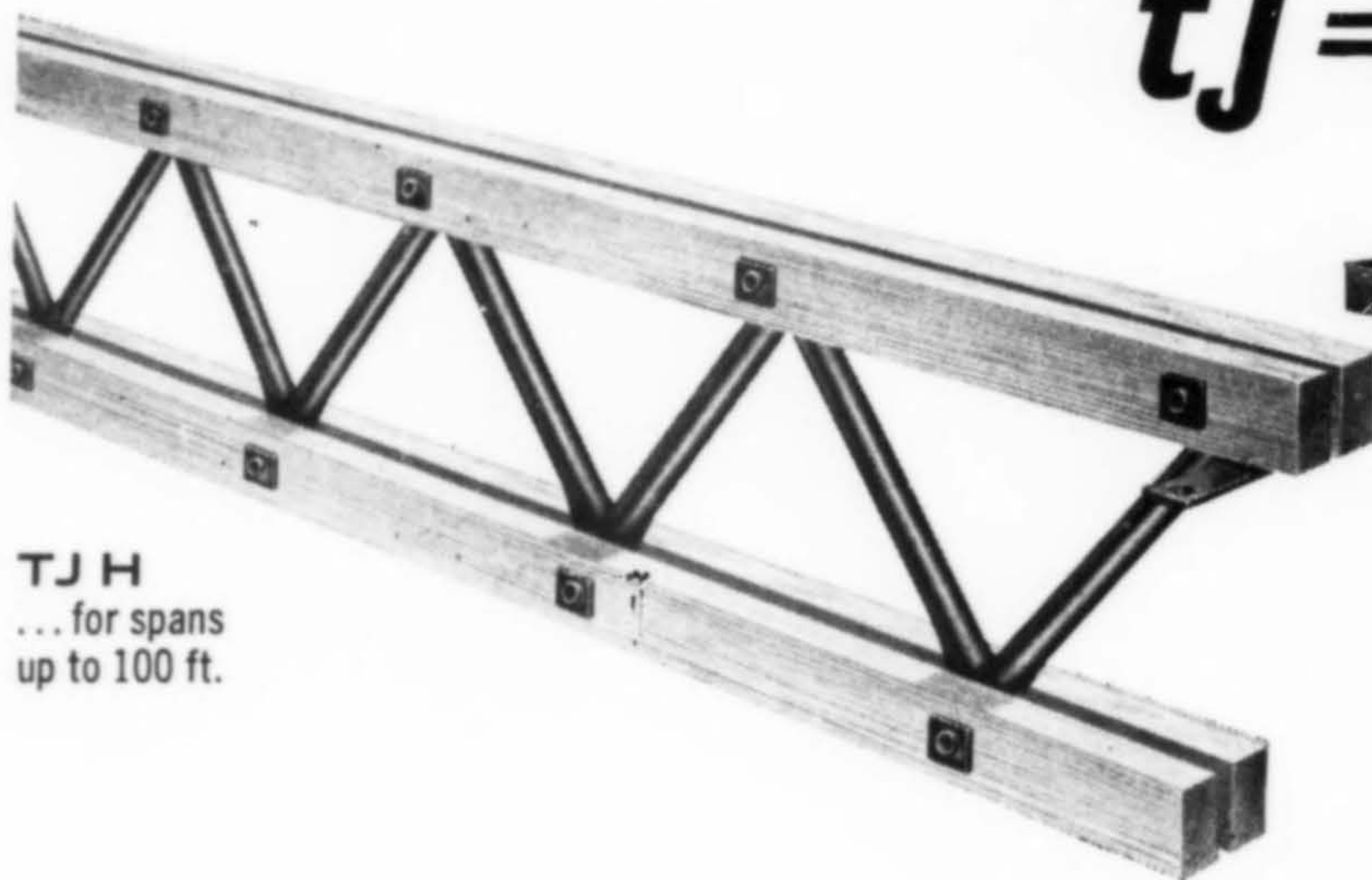
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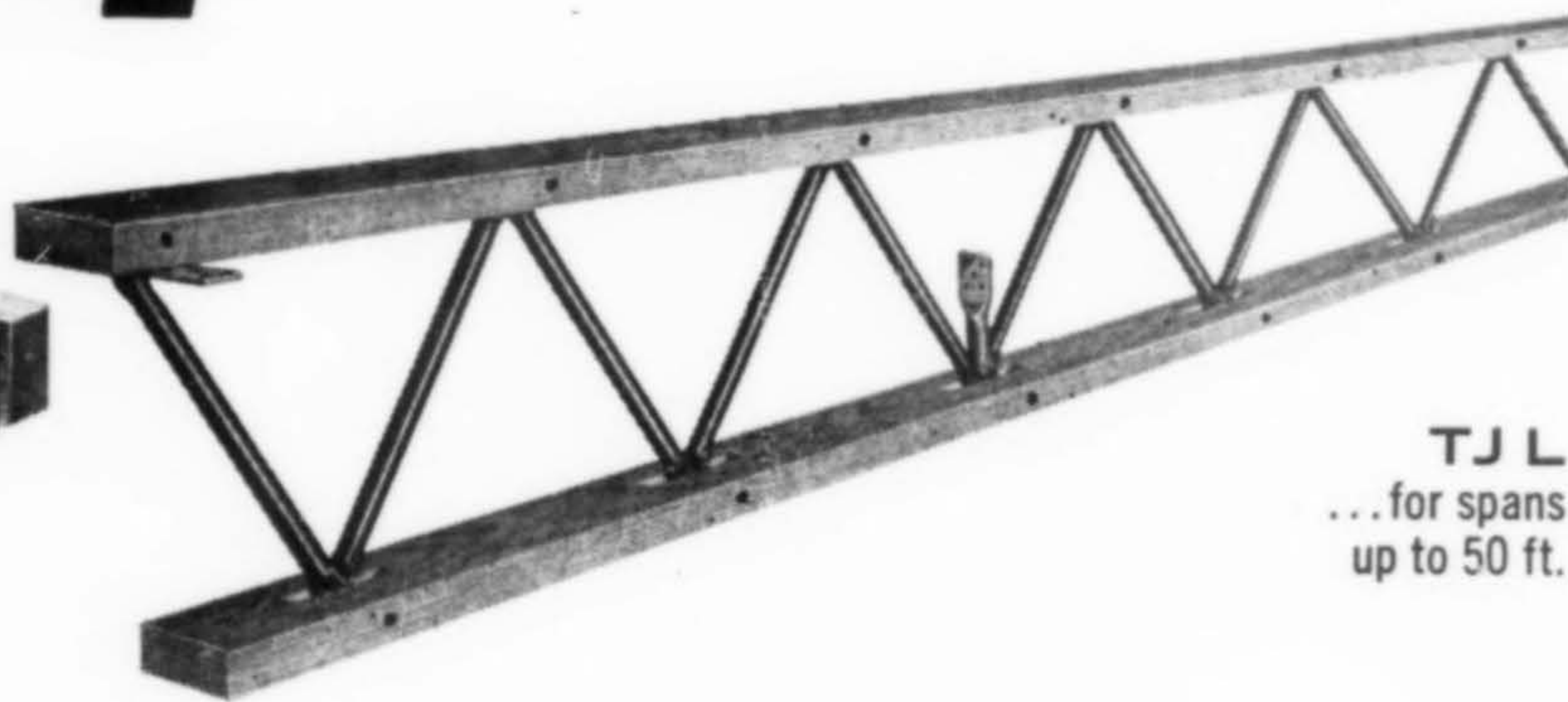
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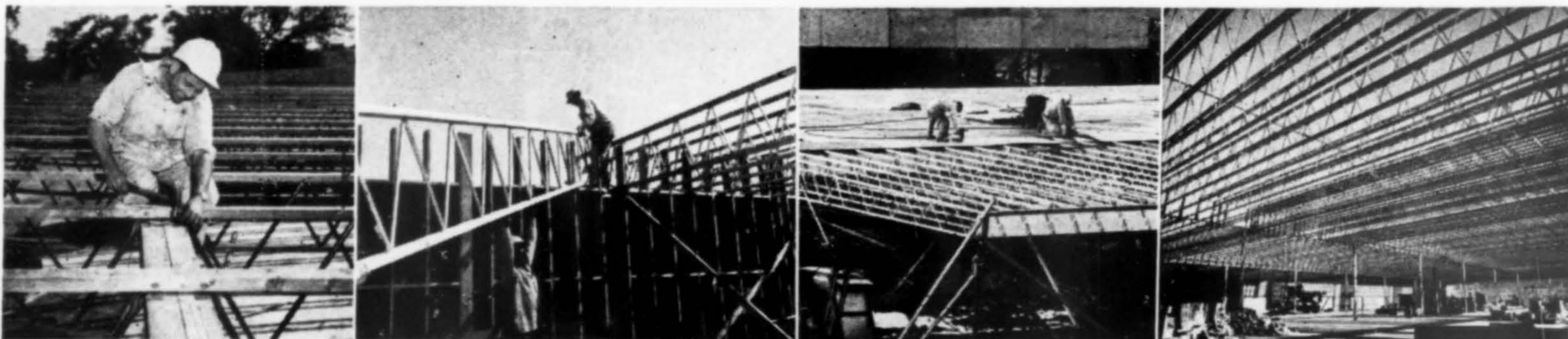
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New firms, associations, office changes

□ A new partnership has been formed between Portland, Oregon architects Saul Zaik and James Miller. The firm, to be known as Zaik and Miller, Architects, will maintain offices at 4621 S.W. Kelly, Portland.

□ The partnership of Lillis & Smith, Vallejo, California architects and planning consultants, has been dissolved and Tristan P. Smith has opened offices for the practice of architecture at 1612 Jefferson Street, Napa, California.

□ Graham Latta and Donald Lynch have formed a partnership for the practice of architecture. Offices are at 3363 Glendale Boulevard, Los Angeles.

□ The principals in the architectural and engineering firm of Walter Wagner & Partners, Fresno, California, announce the withdrawal from the partnership of Walter Wagner and a change in firm name.

The remaining partners, James Blayne, Harry Bode, Paul Harris, Paul Schoenwald and Will Thomas, have purchased the Wagner interest, and will continue the firm under the new name of Schoenwald, Thomas, Harris, Bode & Blayne, Architects & Engineers, 707 North Fulton St., Fresno, California. William M. Brooks, structural engineer, and Melvin S. Norwood, electrical engineer, are associates.

□ Thomas C. Gale and Donald H. Cramer have formed a partnership under the firm name of Gale and Cramer, Architects, with offices at 5305 North Seventh St., Phoenix, Arizona.

□ The Anchorage, Alaska firm of Coolidge & Mayo, Architects, was dissolved in August 1966. Architect D. J. Coolidge is continuing to practice at 328 East Fourth Avenue under his own name.

□ Architect Tobias T. Stapleton has been named an associate in the firm of Lawrence E. Matson & Associates, Idaho Falls, Idaho.

□ Darrell L. Smith, who has been with the firm of Balzhiser, Seder & Rhodes, Eugene, Oregon, for the past five years, has been named an associate. He has been chief draftsman since 1964.

□ The San Francisco architectural firm of Hertzka & Knowles has opened a branch office at 400 West Tenth Street, Santa Ana, California, with architect Robert E. McCoy in charge.

□ Sam Chang Architect & Associates announces the incorporation of the firm as of October 1, 1966. Sam Chang is principal and president. Associates are architects Owen Chock, Arlene Nishimura and Hachiro Ishizu. Offices are in Suite 906, the Ala Moana Building, 1441 Kapiolani Boulevard, Honolulu.

□ Architect Tracy Price has joined the architectural, engineering and planning firm of Daniel, Mann, Johnson & Mendenhall in Los Angeles as a commercial projects director.

□ Barry Upson, formerly with the Seattle World's Fair, has joined Smith and Williams, Pasadena, California, architects. He will guide plans for recreational aspects of the California Exposition facilities.

□ David E. Coldoff has been named to the position of executive vice president of Willis and Associates, Inc., architects, engineers, urban and community planners, San Francisco.

□ David B. Elwood has been named chief planner for Albert C. Martin & Associates, Los Angeles architect-engineering firm. Duties will include site planning and master planning of large projects.



Robert Farquhar, 94, dean of California architects now living in retirement in Berkeley, was presented with an Award of Honor for this landmark, the California Club, 538 S. Flower Street, Los Angeles, which he designed in 1930. The honor was presented by the Southern California Chapter, AIA, at their triennial Honor Award presentation.



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Appointments

□ Tacoma, Washington architect Alan Liddle has been appointed to serve on a five-man committee to advise Washington's Governor Dan Evans in his Design for Washington program.

□ Victor Hornbein, Denver architect, has been named chairman of the committee on environmental design of the Colorado Council on the Arts & Humanities.

□ Worley K. Wong, FAIA, San Francisco, has been appointed to the Board of Directors of the Oakland Museum Association.

□ Toshikazu Terasawa, of O'Leary and Terasawa, has been appointed to the Los Angeles City Board of Building and Safety Commission.

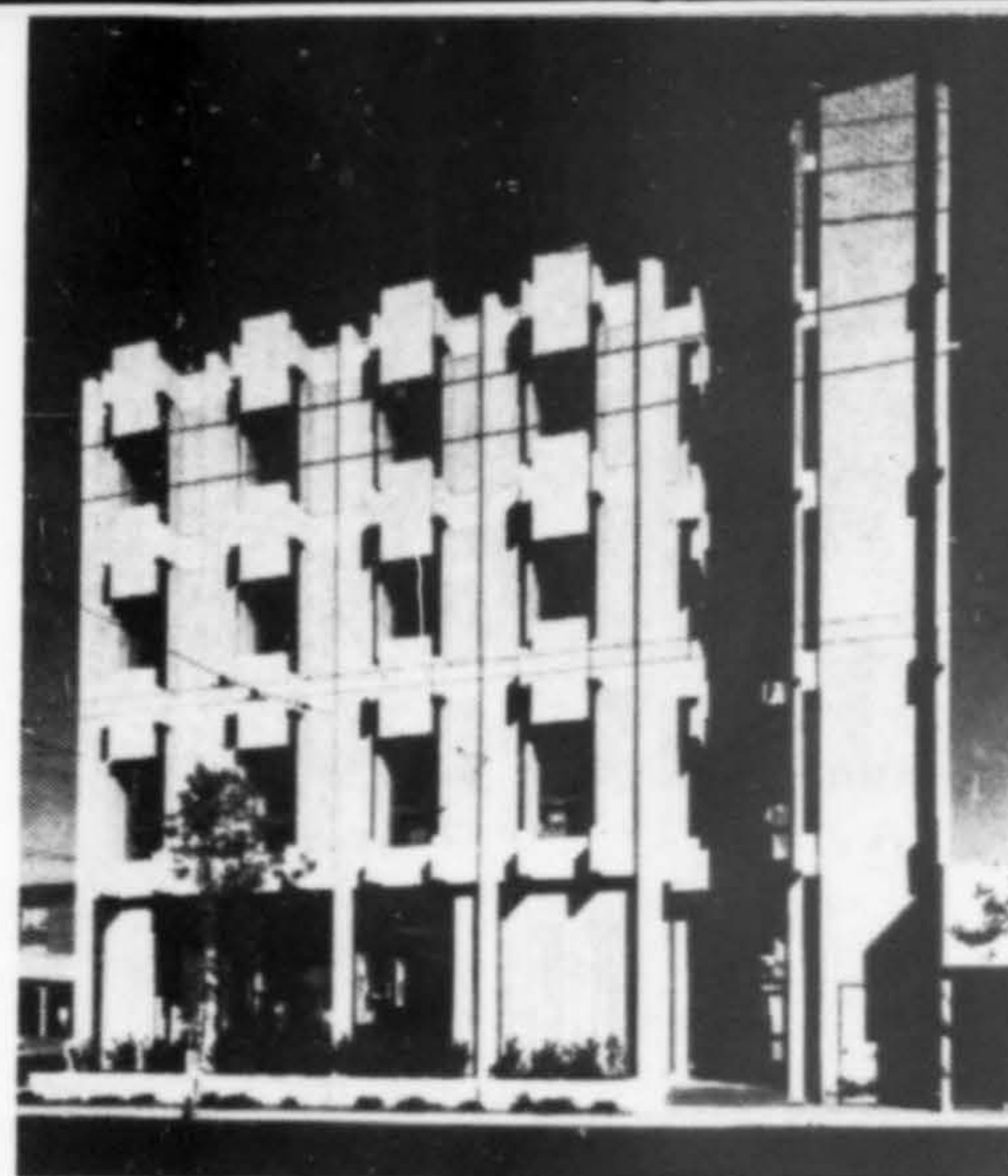
□ William A. Lockett has been elected chairman of the Planning Commission, City of Long Beach, California, to serve until July 1967.

□ Architect Gordon Johnston has been appointed to the City Planning Commission of Tacoma, Washington.

□ Richard Poper, president of the Cabrillo District, Southern California AIA Chapter, has been named to the Architectural Board of the Los Altos Association.

□ John S. Rowley, Cedar City, Utah, architect, has been reappointed to the Planning and Zoning Commission.

□ The Marin County, California Planning Commission has appointed Albert Solnit, assistant professor of architecture at the University of Cincinnati, as chief of advance planning.



The Century Building, Seattle, was named one of the winners in the 1966 Awards Program conducted by the Prestressed Concrete Institute. The building was cited in recognition of excellence in design in the use of precast and prestressed concrete. Architects: Bystrom & Greco; Anderson, Bjornstad and Kane, structural engineers.

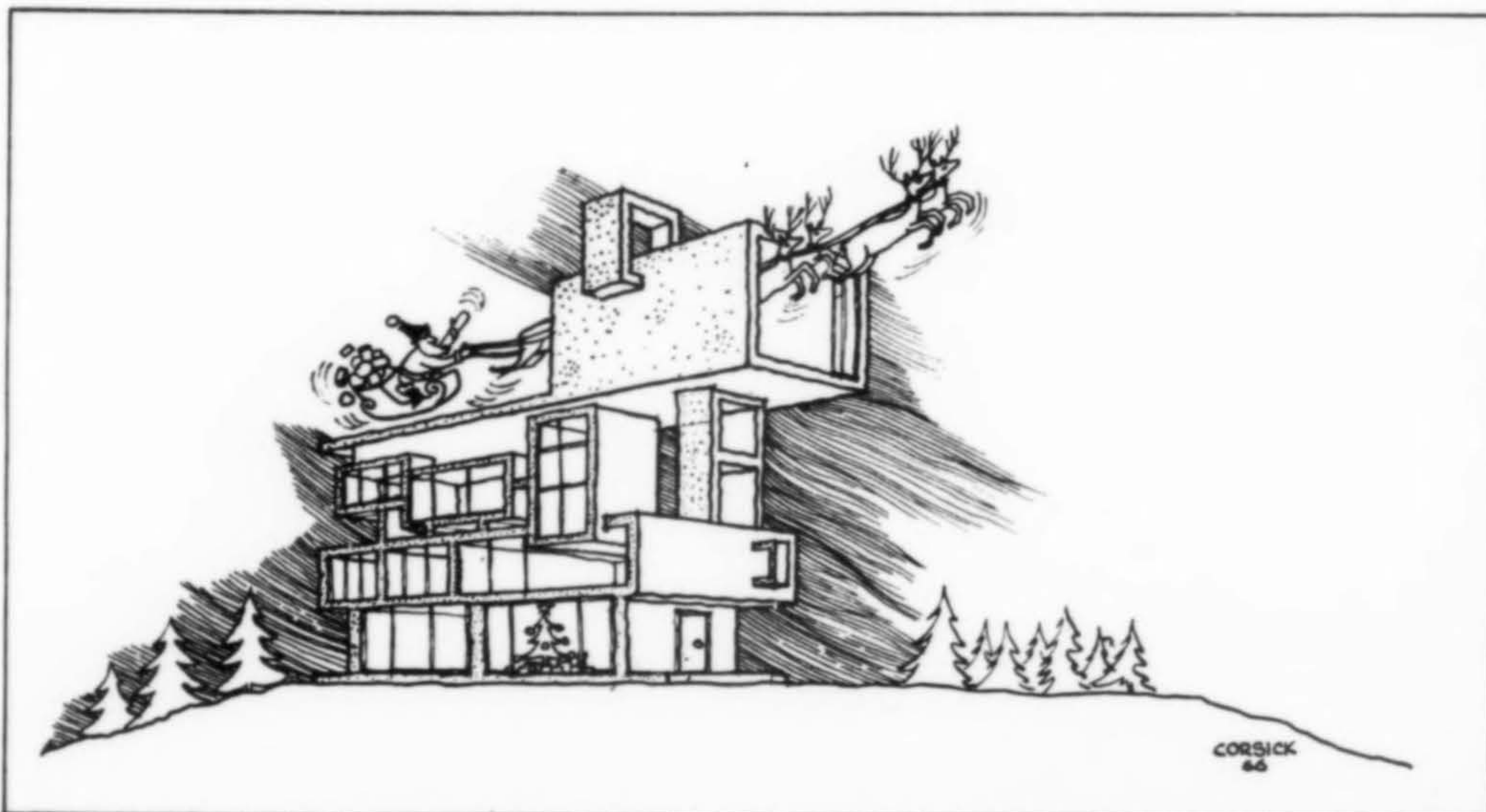
Elections

□ A new chapter of the American Institute of Architects has been chartered to serve architects of San Bernardino and Riverside counties in California. Membership includes 61 architects and 12 associates. Officers of the new Inland California chapter are:

Jack Causey, Ontario, *president*
William Cody, Palm Springs, *vice president*
James Caulkins, Hemet, *secretary*
Ross Herrick, Riverside, *treasurer*
Clare Day, Redlands, *director*.

□ The Montana Chapter, AIA, has named the following officers for 1967:
William Grabow, Bozeman, *president*

Vincent Werner, Great Falls, *vice president*
H. C. Cheever, Bozeman, *secretary*
Williard Johnson, Bozeman, *director*.



News notes

□ Arthur F. Dudman, assistant California state architect in charge of the Office of Architecture and Construction's design and planning services, Sacramento, retired October 1 after 35 years of state service.

□ James M. Hunter, FAIA, Boulder, Colorado, will chair the jury for the 1967 Honor Awards program of the American Institute of Architects. Vladimir Ossipoff, FAIA, Honolulu, is the only other Western architect on the six-man jury.

□ Entries for the 11th annual Reynolds Memorial Award are being accepted until January 31, 1967. An honorarium of \$25,000 and an original sculpture in aluminum to the architect selected will be awarded. The jury will judge on the basis of distinguished achievement in architecture with use of aluminum. Brochures may be obtained by writing The Reynolds Award, American Institute of Architects, 1735 New York Ave. N.W., Washington, D.C. 20006.

□ Charles Gordon Lee, 48, Littleton, Colorado architect, died on October 13, the result of a gunshot wound.

□ Allen Kichio (Anky) Arai, 65, Seattle architect, died suddenly while on a visit in Los Angeles. A graduate in architecture from the University of Washington, he obtained his master's degree from Harvard University in 1929. He was associated for many years with the Seattle firm of Durham, Anderson & Freed, and for the past year had been with Fentron Industries.

□ San Francisco architect Albert R. Williams, 80, passed away in that city in mid-October. He began an architectural apprenticeship in San Francisco in 1906, and graduated from the University of Utah. He was a past president of the Northern California Chapter, AIA. In late years he had specialized in memorial architecture.

□ James A. McGrath, 66, Seattle architect, died in Veterans Hospital in that city on October 18. He was associated with the General Services Administration. A graduate of Carnegie Technical Institute, he was the design architect on the Manhattan Project which developed the first atomic bomb in World War II. He also served the armed forces in Northern Ireland as design coordinator for construction.

New addresses

AZARIA ROUSSO—4029 E. Madison St., Seattle.

L. F. RICHARDS, FAIA—1250 Scott Boulevard, Santa Clara, Calif.

HARALD F. GERBER—109 Third Ave. North, Twin Falls, Idaho.

R. LEON EDGAR—2716 San Fernando Road, Los Angeles, from Encino.

RAYMOND GIRVIGIAN—1220 Wilshire Blvd., Los Angeles.

HENRY C. TOLL—10221 Menaul N.E., Albuquerque, from Denver.

FRANKLIN E. VAJRICK—1115 Cordova St., Pasadena, Calif., from Seattle.

CHARLES B. CEBULLA—1002 Madison, Helena, Montana, from San Jose, Calif.

GEORGE K. IKENOYAMA—1235-C Peach St., San Luis Obispo.

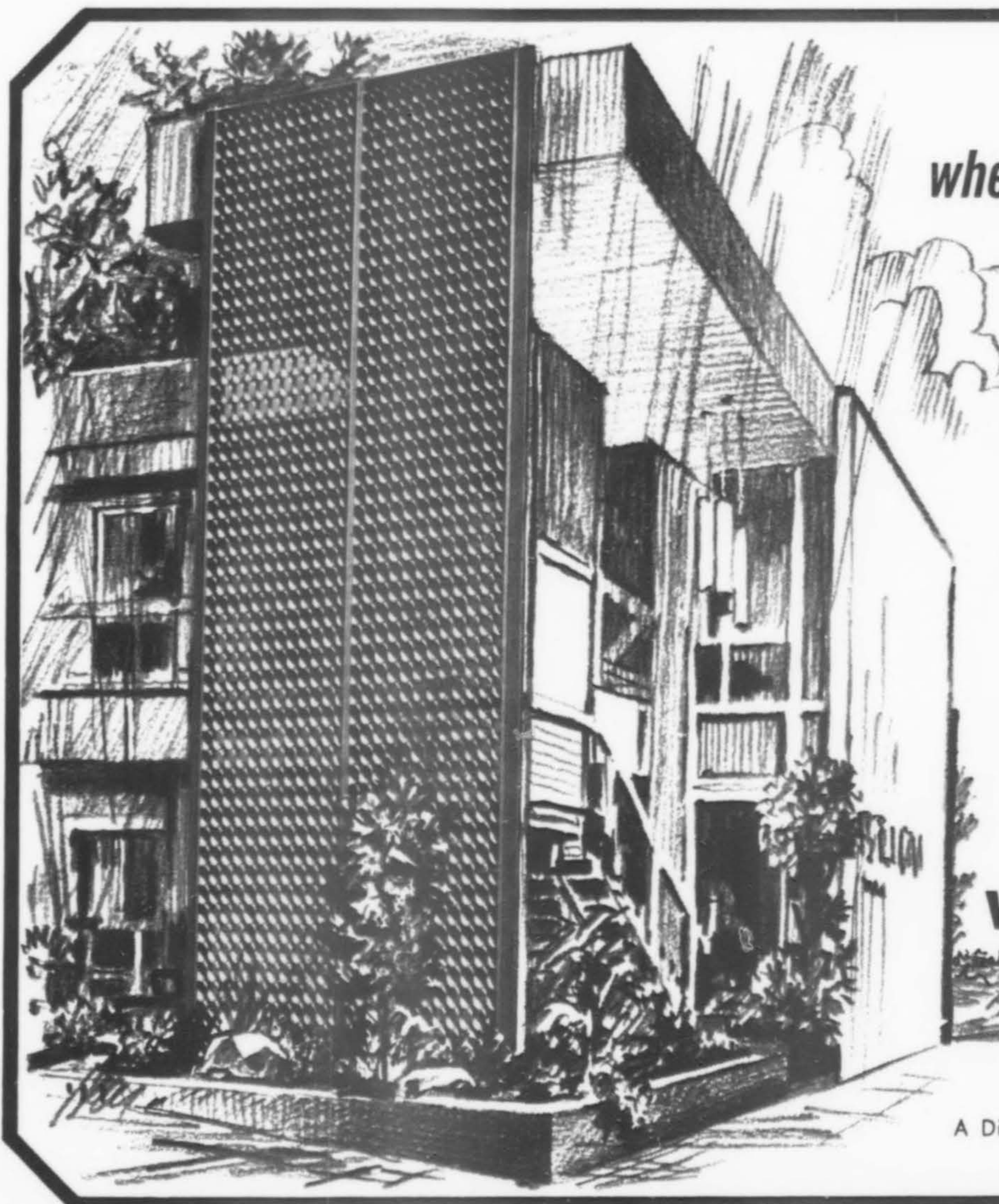
CORNWALL PETERSEN—425-A East South Temple, Salt Lake City.

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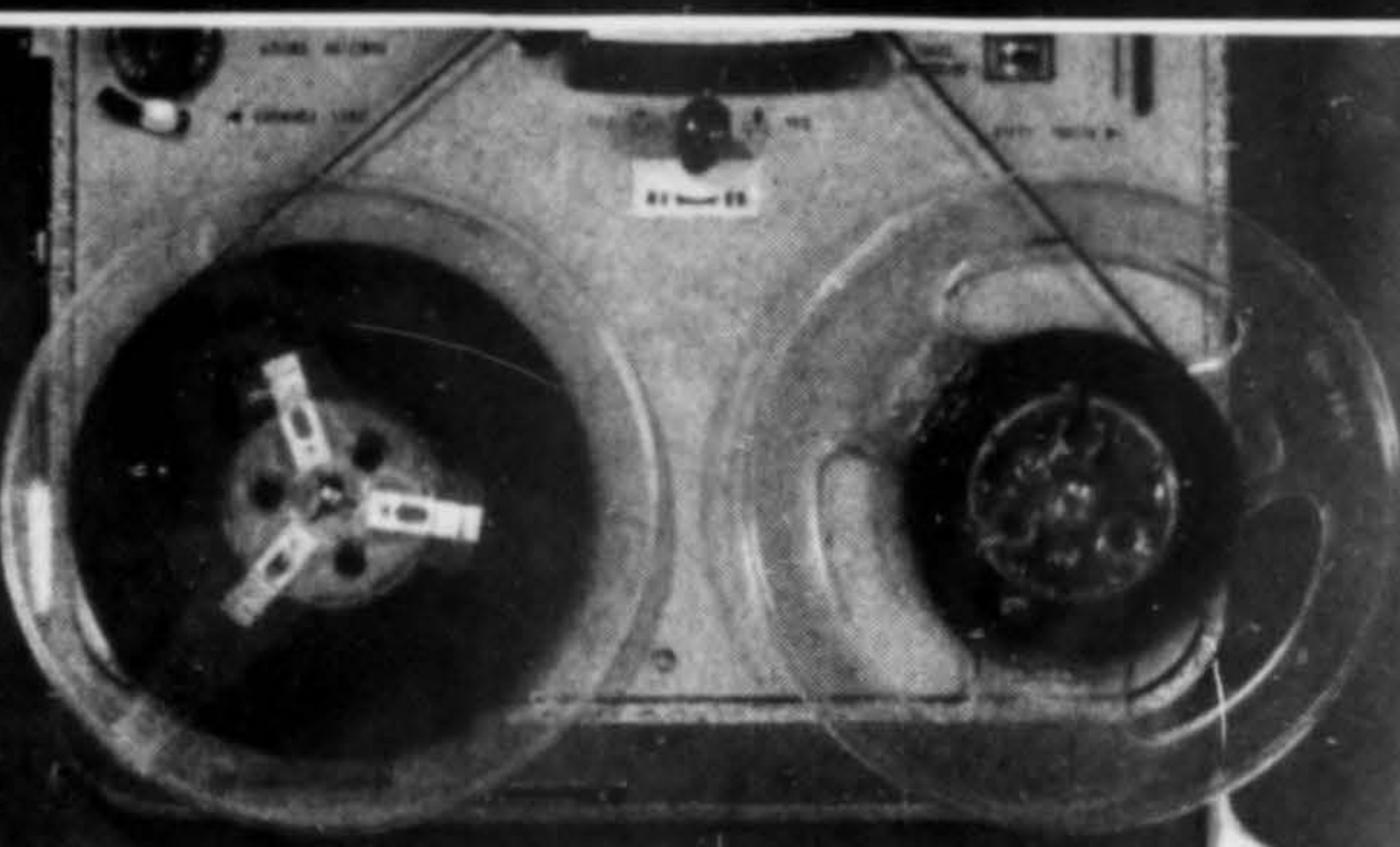
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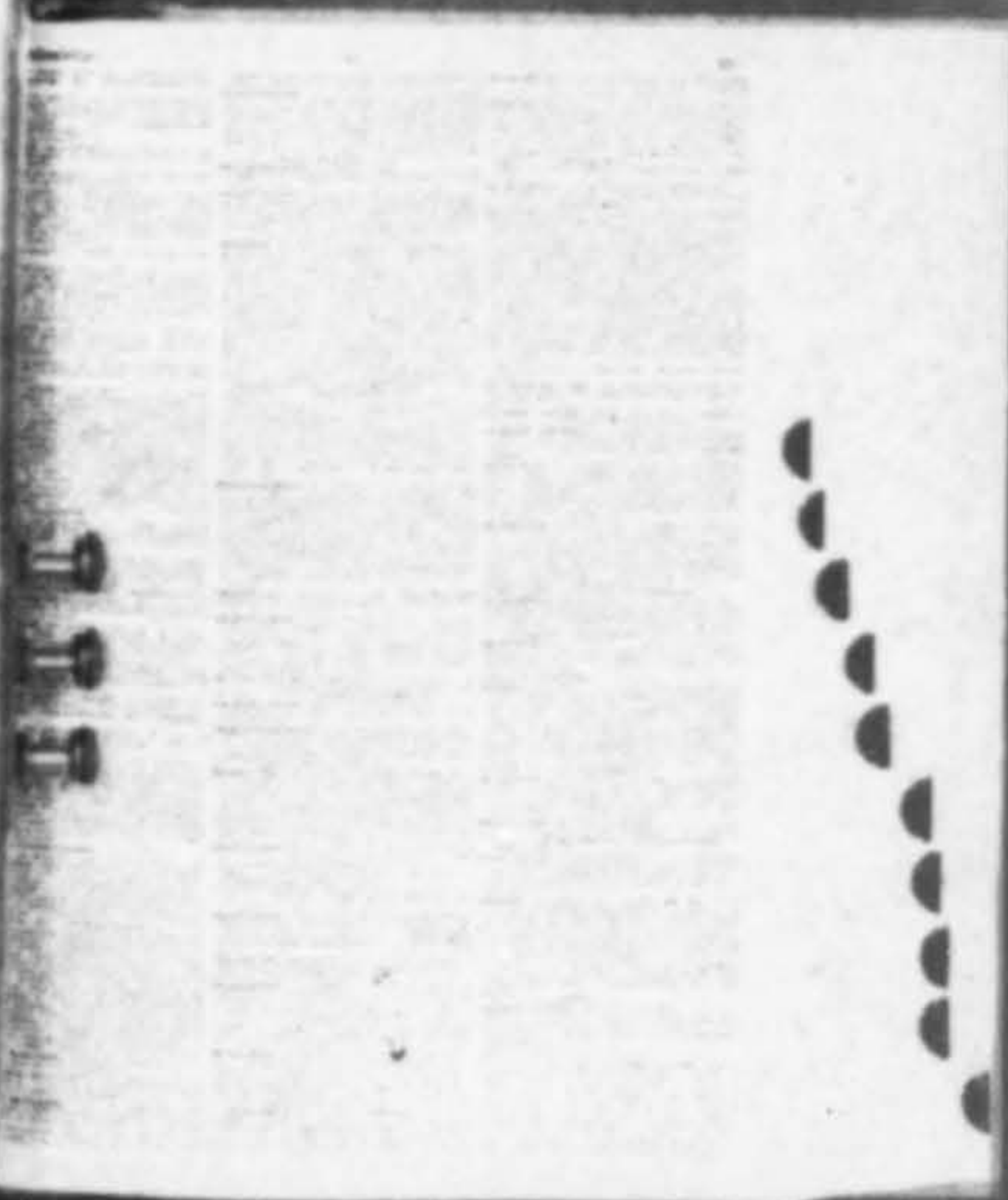
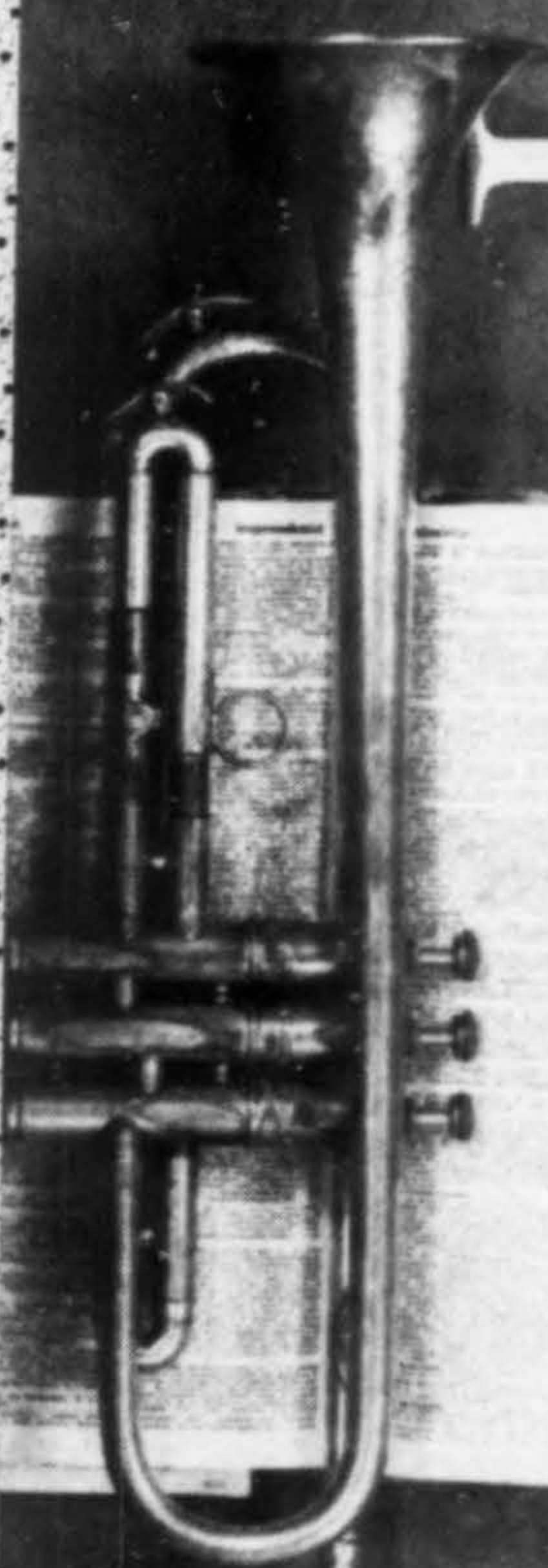
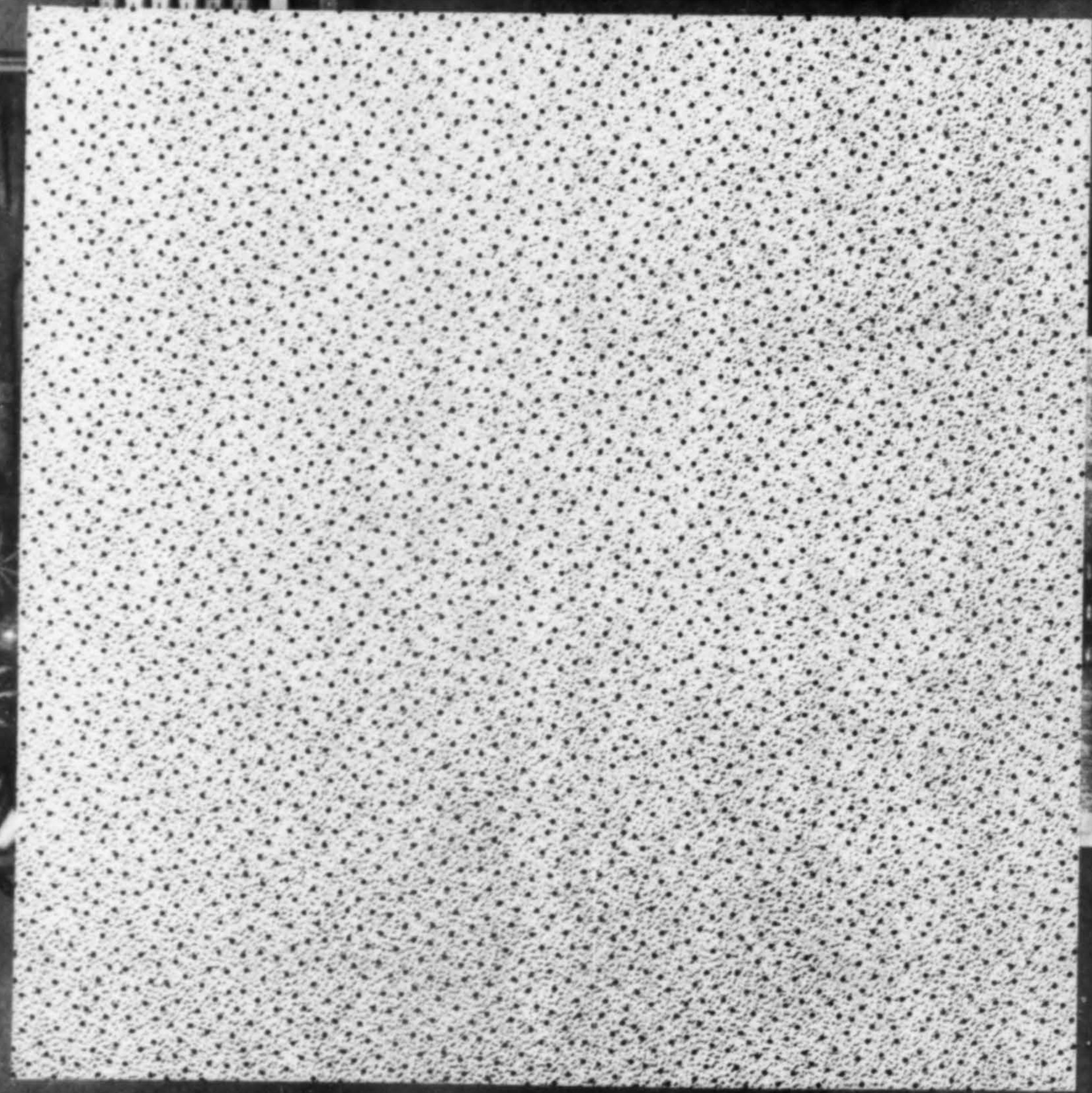
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MR. EDWARD WARDEN
 SATURDAY EVENING, June 17, 1954



LIBRARY



OPS 22

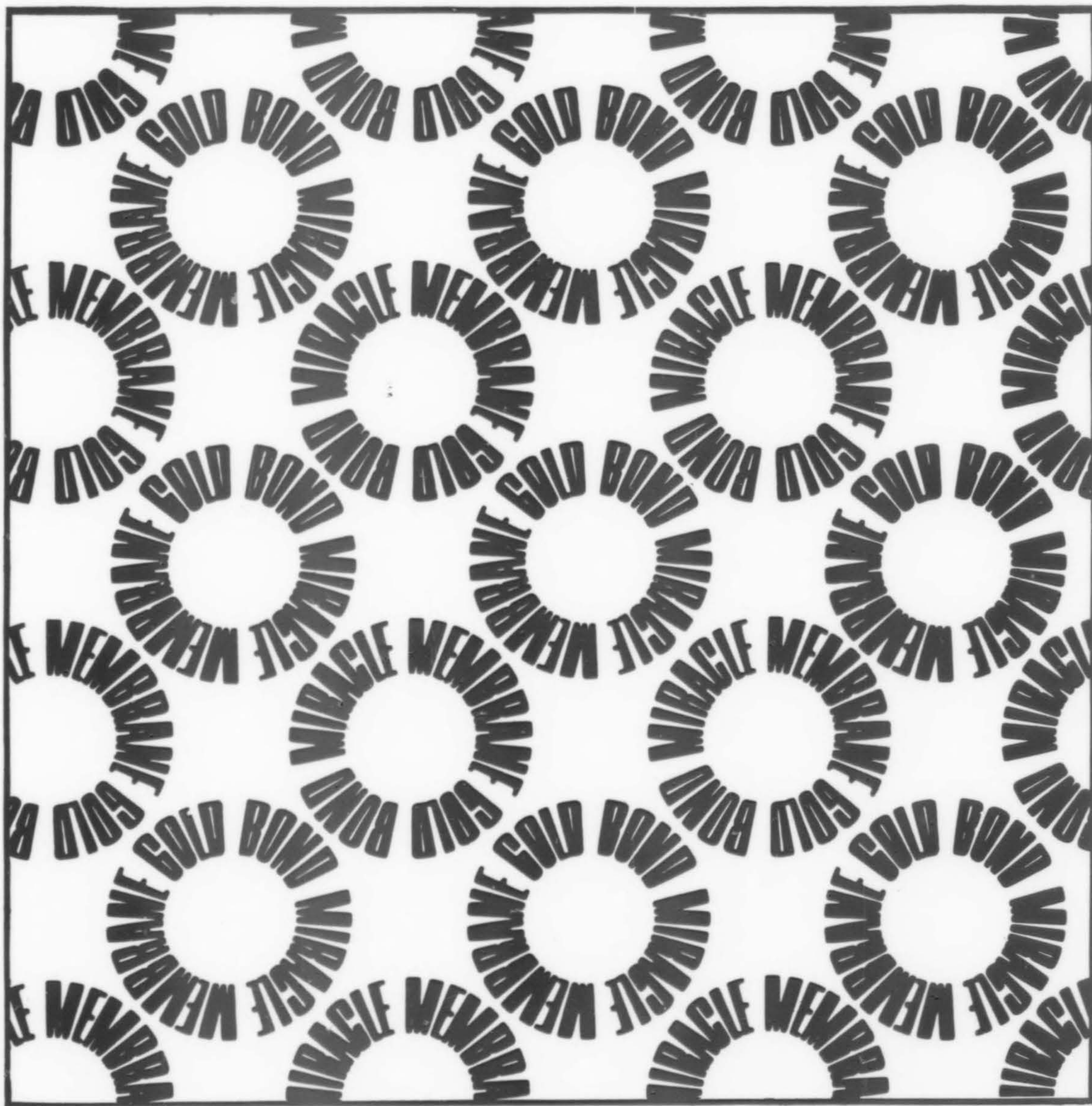
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"Total Architecture"

The 15th Northwest Regional AIA Conference . . .

AN ASSEMBLAGE of iconoclasts—not at all unusual for architectural gatherings—held forth in the Seattle Center from October 24 to 26 to document the theme of "Total Architecture" for the fifteenth annual Northwest Regional Conference of the AIA. Dire predictions, coupled with pronouncements on Seattle slums, were lobbed in all directions. No wonder that Seattle citizens were left slightly dazed with a very confused picture as one controversial statement after another was reported in the Seattle papers.

Most of these declarations had to do with our cities. Sibyl Moholy-Nagy, August Heckscher, Jan Lubicz-Nycz, Bernard Rudofsky lead off. Not until the address by William W. Caudill on the last day did there appear much hope for us as architects when he plead (with considerable humor—also a scarce commodity) that at least a few architects be trained who could still design buildings.

As several participants pointed out, this discussion on The City seemed an academic exercise given the site of the conference. The Seattle Center, the reclaimed site of the Century 21 Exposition, is one of the country's showplaces on urban development. The brilliance of the autumn leaves, the myriad fountain displays, young lovers strolling the greens, Indian summer weather—and even a touch of Seattle "dew" on the last day—enhanced the setting. The American Institute of Architects so recognized Seattle Center with one of its Community Award citations: "More than just a 'fair', the total design and rebuilding of a significant segment of Seattle. A well executed design concept, conserved and adapted into a permanent asset for the city and region".

From the opening party in the elegantly refurbished buildings of the city's Pioneer Square to the champagne dinner that closed the conference, the pace was that of a big city. Governor Dan Evans welcomed delegates with a warm, impressive address that created some discussion among out-of-state architects who saw Washington's governor in action for the first time and heard his concern for the future of the Northwest.

Mrs. Moholy-Nagy sharply divided the delegates with her penetrating, often scathing, attack

upon architects and architecture. (As one noted: "Why do we pay people to come and insult us?" and another: "Does us good to be stirred up, we need to think.") The presentation of the Jan Lubicz-Nycz slides on his proposals for urban development, both in this country and abroad, drew much comment from the participants. The sometimes cutting remarks about the profession made by Bernard Rudofsky was softened somewhat with his preface that no conference should be held in a city like Seattle whose beauty seems too good to be true.

The federal government's role in urban development was pursued by Robert B. Pitts, regional director of the Department of Housing and Urban Development, San Francisco. He emphasized that "before the architect can become involved, the citizens have to care. Only an informed city can demand the kind of total involvement which must be had from our professional people."

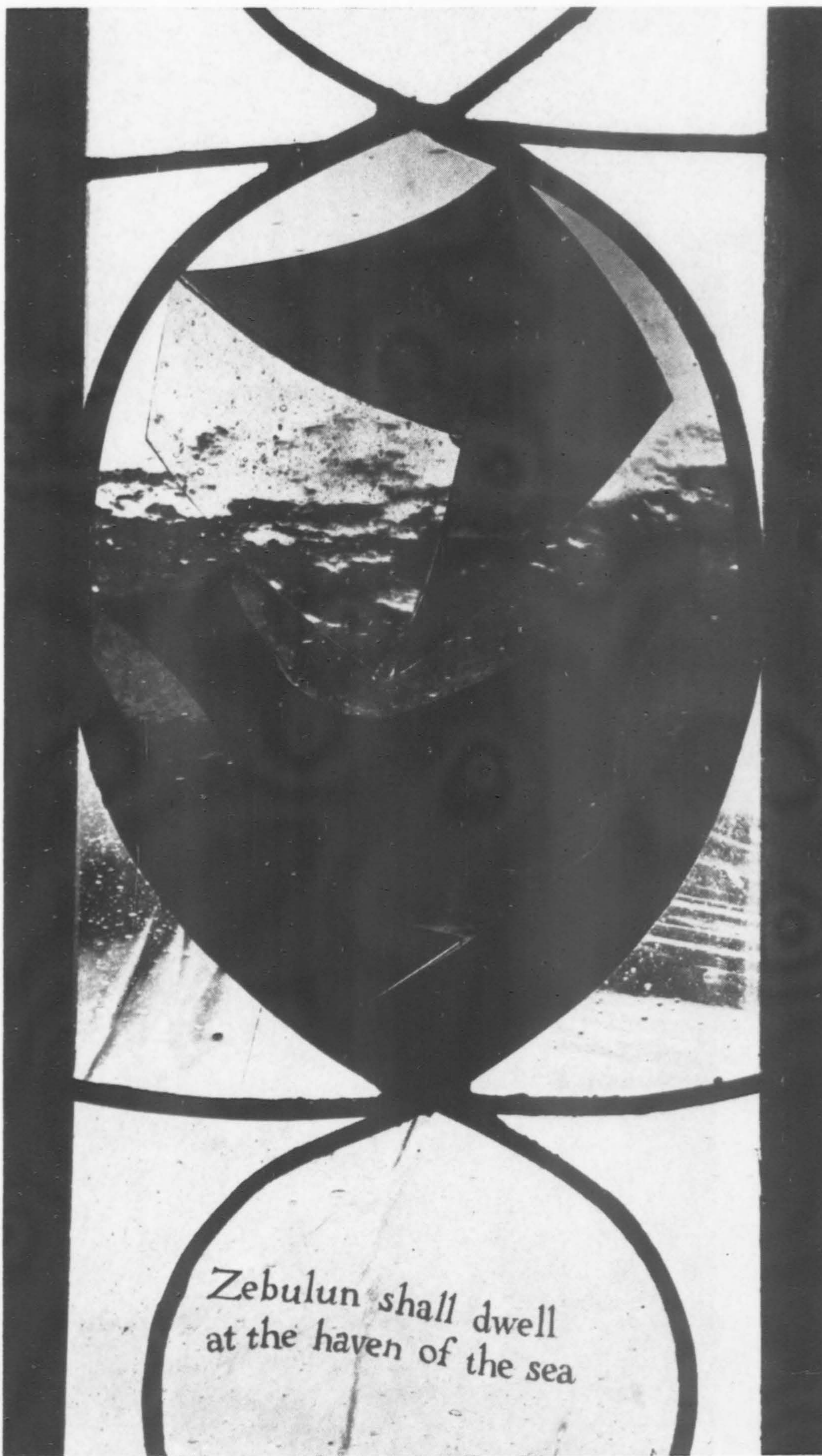
Charles Nes, Jr., president of the AIA, delivered the closing address at the awards banquet, with a challenge to architects to meet the changing needs of people, the cities, the land. The AIA's Community citation award was made by regional director Robert Martin to Mayor J. D. Braman with a special award to Paul Thiry, FAIA, who was design consultant for the Seattle Center.

Two afternoon seminars took delegates across the Center grounds to the Pacific Science Center (designed by Minoru Yamasaki) where professional members from a variety of backgrounds (planning, landscaping, city, state and federal officials, and the various speakers) fielded questions from the audience.

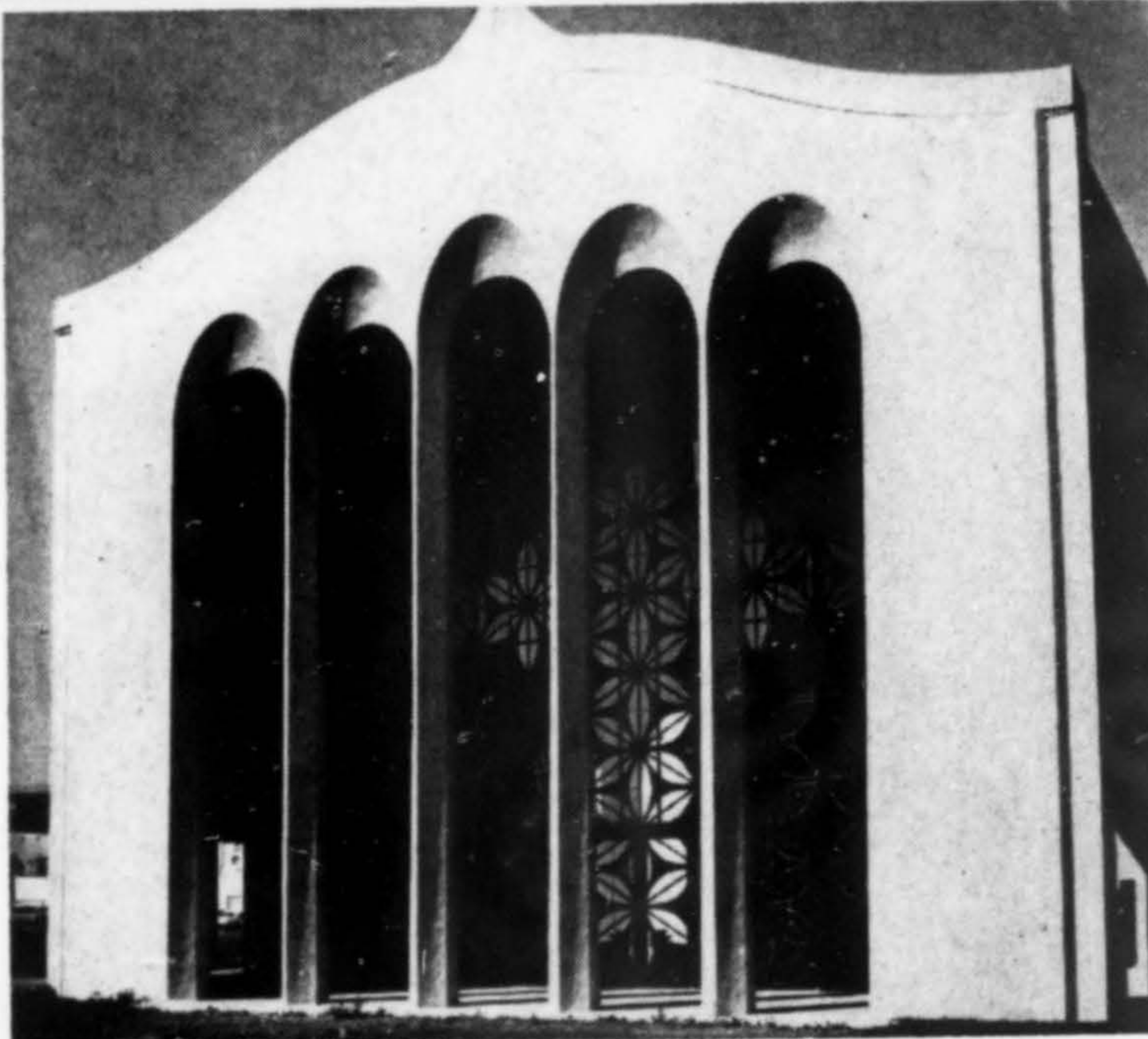
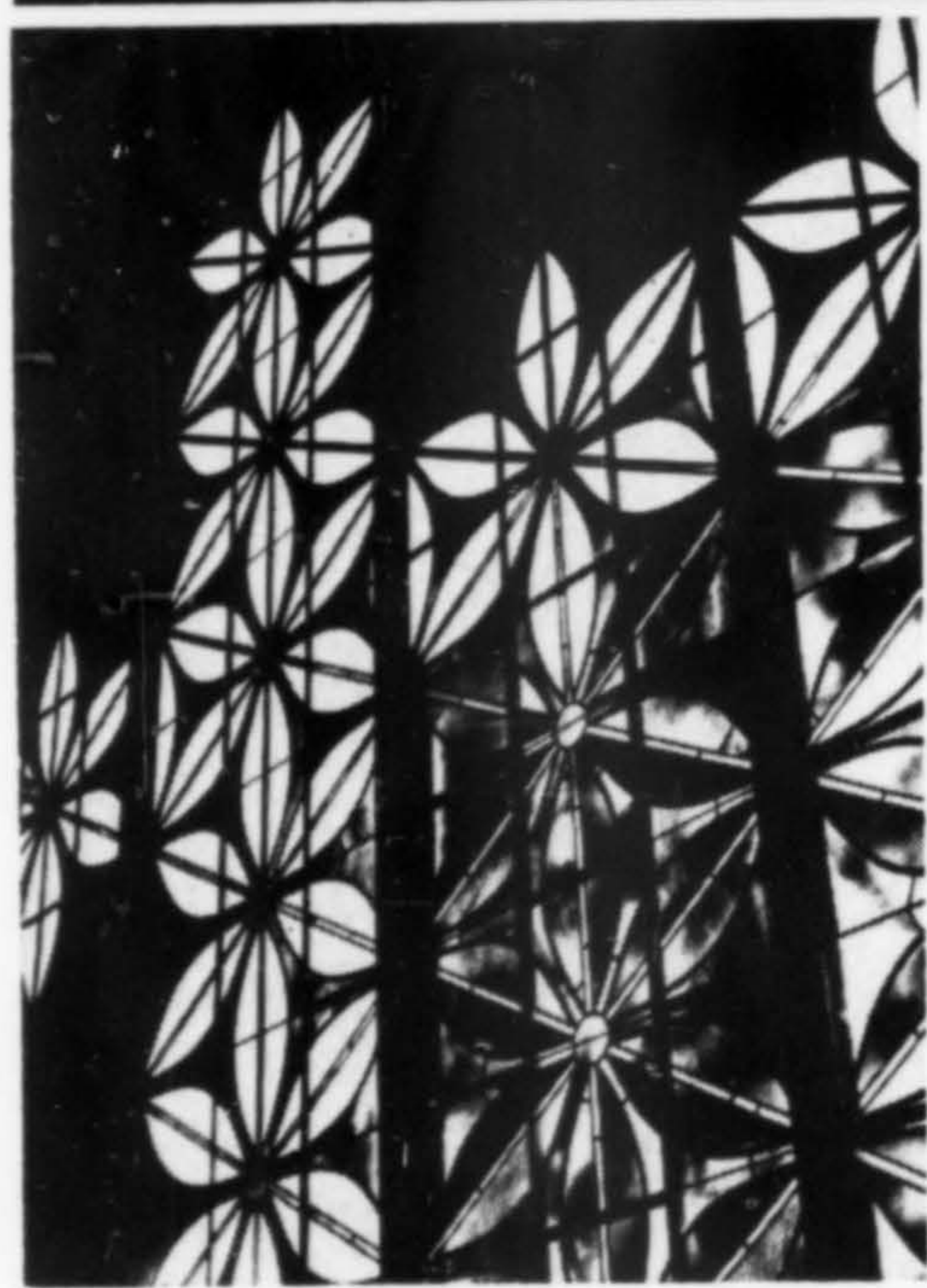
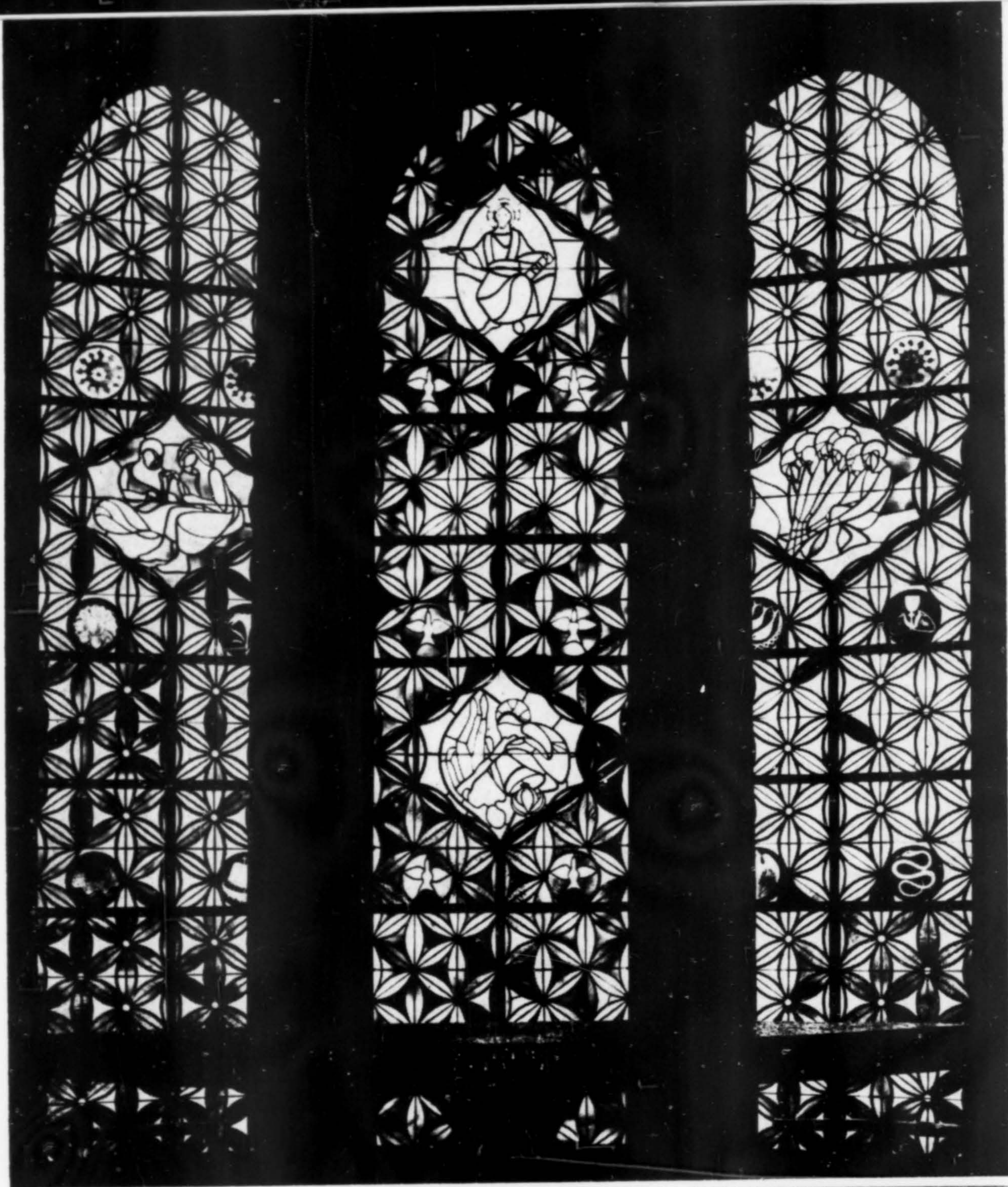
More than 500 delegates and guests enjoyed the hospitality of the Seattle Chapter, the highly successful utilization of the Coliseum corner complex for the conference (the manufacturers' displays were especially effective and well attended), the hospitality room backed with music from the Chuck Mahaffey trio, and the many outside events hosted and planned by a hard-working committee headed by Jean and Clayton Young as co-chairmen. Spokane will host the 1967 conference with Fred and Evelyn Creager as co-chairmen.

*Stained
Glass:*

An
integral
art
form



A series of lancets representing the Twelve Tribes of Israel designed by Jane Marquis for the Temple Rodef Sholom, San Rafael, California. The colors and shapes in each medallion evoke a whole mood appropriate to its subject: "Zebulun shall dwell at the haven of the sea" shows a placid boat against tranquil seas.



Designer Donald Cochrane worked closely with the Cummings Studios in the concept of the Community Methodist Church, Santa Clara, California. Giving bold scale to the entire area (1,450 sq. ft.), a Triumphant Cross in white reads from both inside and out. It was conceived to be seen through a series of arches about twelve feet in front of it. From the exterior the white cross is etched against the dark curtain-wall pattern, visible for several blocks. In the chancel windows, the designer set an orange-gold leaf motif against red in the center lancet and against blue in the side lancets. The result manages to be both vibrant and poised.

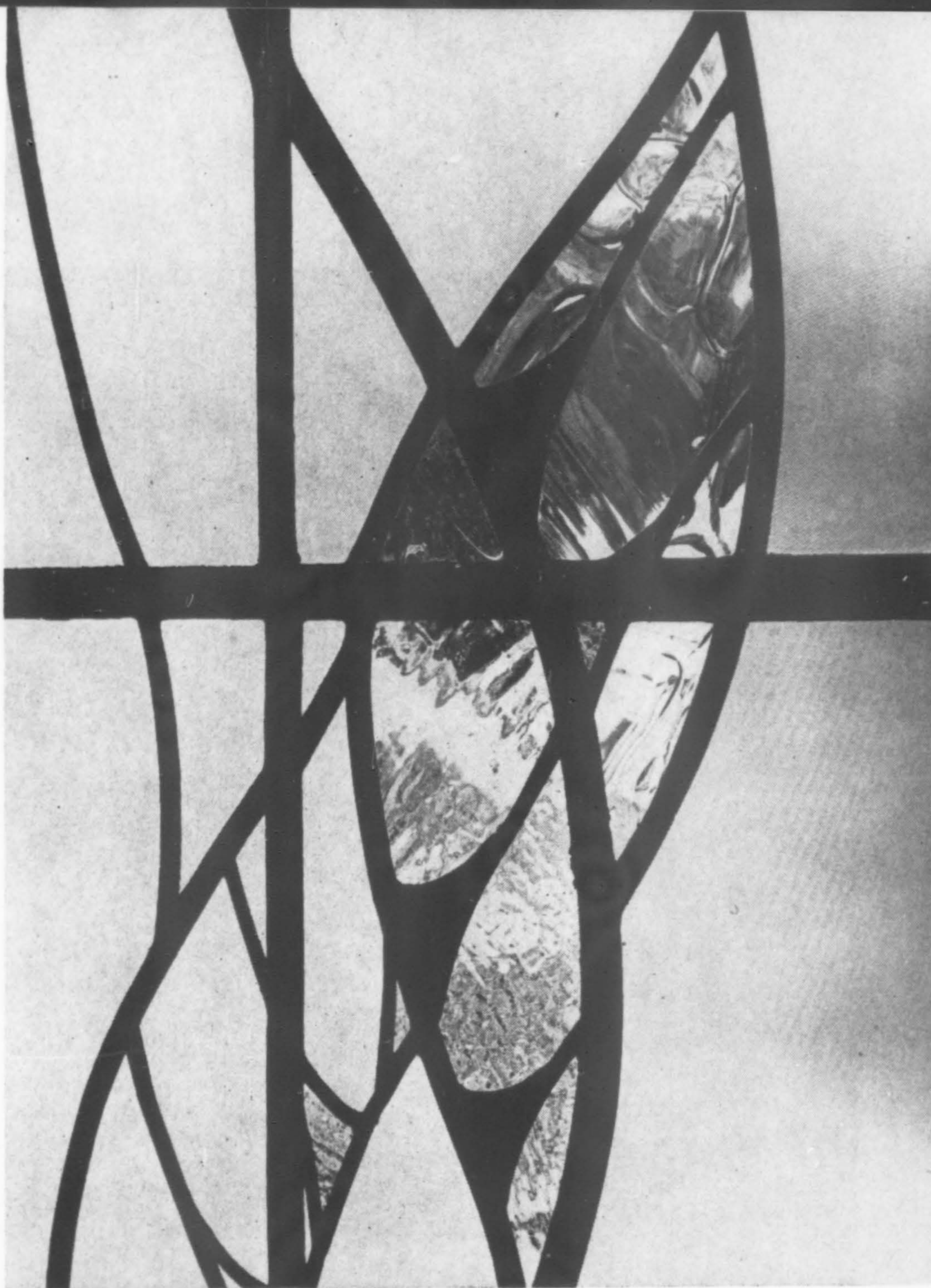
No material is ugly in itself. It is only the relationships in which it appears that makes it so.

THIS TRUISM seems unrelated to the handsome and esthetic designs in stained glass which have become an integral part of each church here illustrated. Yet it is in the design and use of the glass, the blending with commercial glass and other architectural elements, that this statement is emphasized.

The assignment given Jane Marquis for the Temple Rodef Sholom was not an easy one: to represent the Twelve Tribes of Israel in a series of lancets 12 inches wide by 12 feet tall. A pale "curious antique" glass was chosen for the entire field, a glass visually remarkable for its "liquid" qualities. Against this quiet ground, medallions in full color were set.

Bold in both scale and concept, the stained glass at Community Methodist Church, Santa Clara, is among the most striking recent work in a field long hung up on cliches. Designer Donald Cochrane approached his assignment architecturally, seeking a solution which would be an intrinsic part of the architecture rather than a decorative appendage. The result is two window compositions which enhance the Spanish-Moorish flavor.

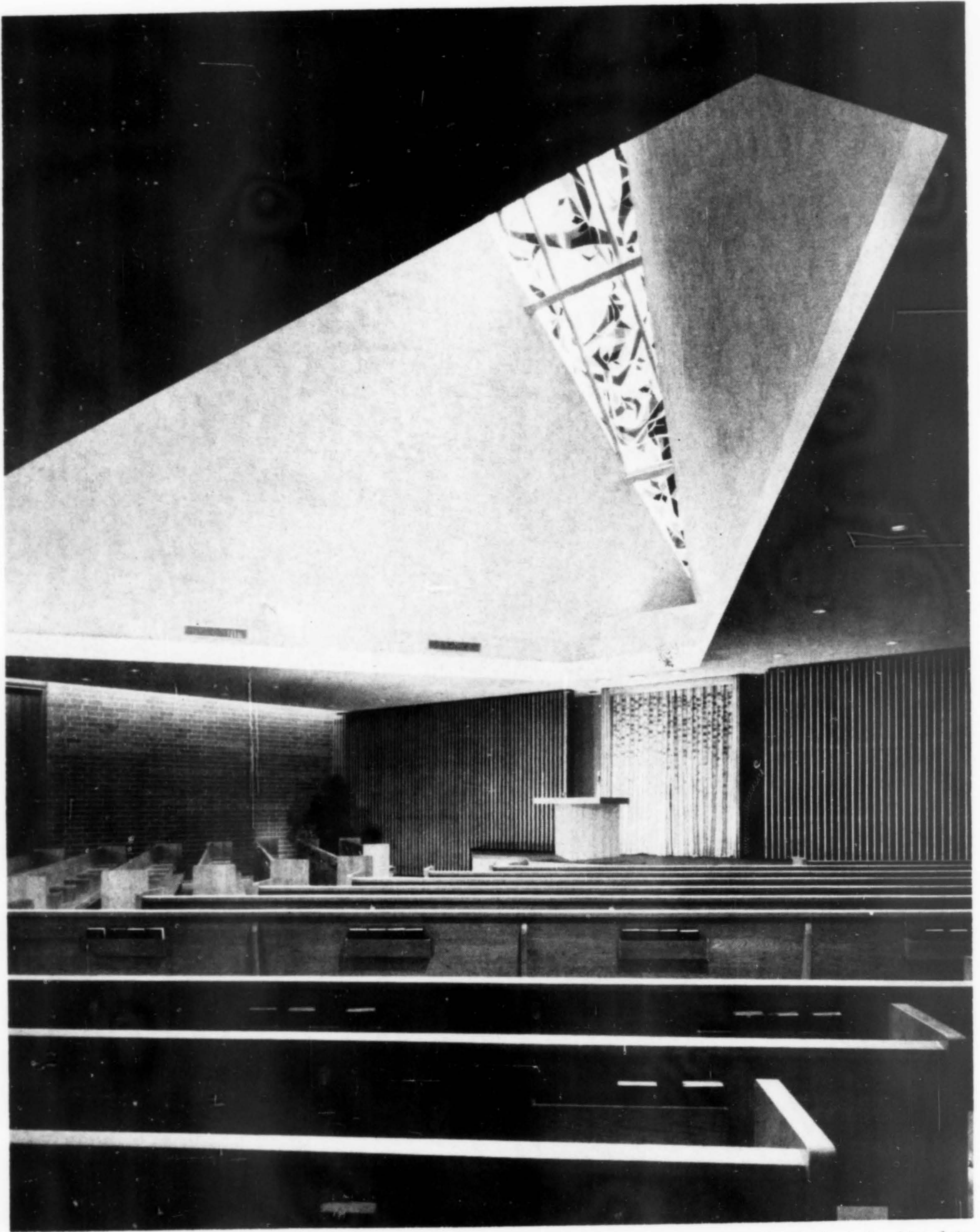
The stained glass designed by Hilda Sachs for the First Church of Christ, Scientist, at Menlo Park proves again the truism of the statement. Perhaps two-thirds of the area involved is glazed with commercial glass heretofore seen only in office partitions and bathrooms. The commercial glass totally obscures the traffic outside the window while admitting maximal light. Color is confined in the windows to a small percentage of the total area, and yet it reads as a green wall. This is a fine example of transformation of a utilitarian product.



In the First Church of Christ, Scientist at Menlo Park, California, Hilda Sachs designed a motif which uses the classic Japanese device, the unfinished statement. The windows which flank the reader's desk are part of a church planned around two enclosed garden courtyards. Similar openings are glazed in solar grey glass. The composition of the design focuses toward the desk as do the seats which are arranged in a wide semi-circle.

Fabrications by
THE CUMMINGS STUDIOS
San Francisco, California

Ned Martin photos



Ezra Stoller & Associates photos

THE TEMPLE RODEF SHOLOM | San Rafael, California

THE GREAT SIMPLICITY of this structure is in keeping with the Tenets of Judaism: *The true temple of the Lord is within each man himself.*

Built for the Congregation Rodef Sholom (Seekers of Peace), a young, growing Jewish congregation in Marin County, the Temple sets on property which slopes gently upward from the road and on which many fine old trees are growing. It has been placed well back, at the top of the rise, affording a clear view of the hills to the north. The area next to the road is used for parking with steps and a ramp leading up to the entry, which is on an axis with the Sanctuary. The Sanctuary itself is the only architectural element which penetrates the large, flat roof plane. It is a tapered, faceted form sheathed in copper.

Walls are reinforced grouted brick, exposed on the interior. The facet of the roof directly above the pulpit is made entirely of stained glass symbolizing the burning bush. (The architects worked closely with various artists in an effort to achieve an integrated result. Stained glass, designed by Jane Marquis, is featured on page 15 of this issue.)

Surrounding the Sanctuary is a large auditorium-social hall, used for a variety of activities. It is separated from the Sanctuary by a folding partition so that it may be used for additional seating for High Holiday services. The hall also opens out to the central courtyard for the use of these spaces in conjunction with one another.

Consultants included Eric Elsesser, structural engineer; Daniel Yanow, mechanical engineer.

MARQUIS & STOLLER, Architects

LAWRENCE HALPRIN & ASSOCIATES
Landscape Architects

ZOELLNER CONSTRUCTION COMPANY
Contractors



TEMPLE RODEF SHOLOM

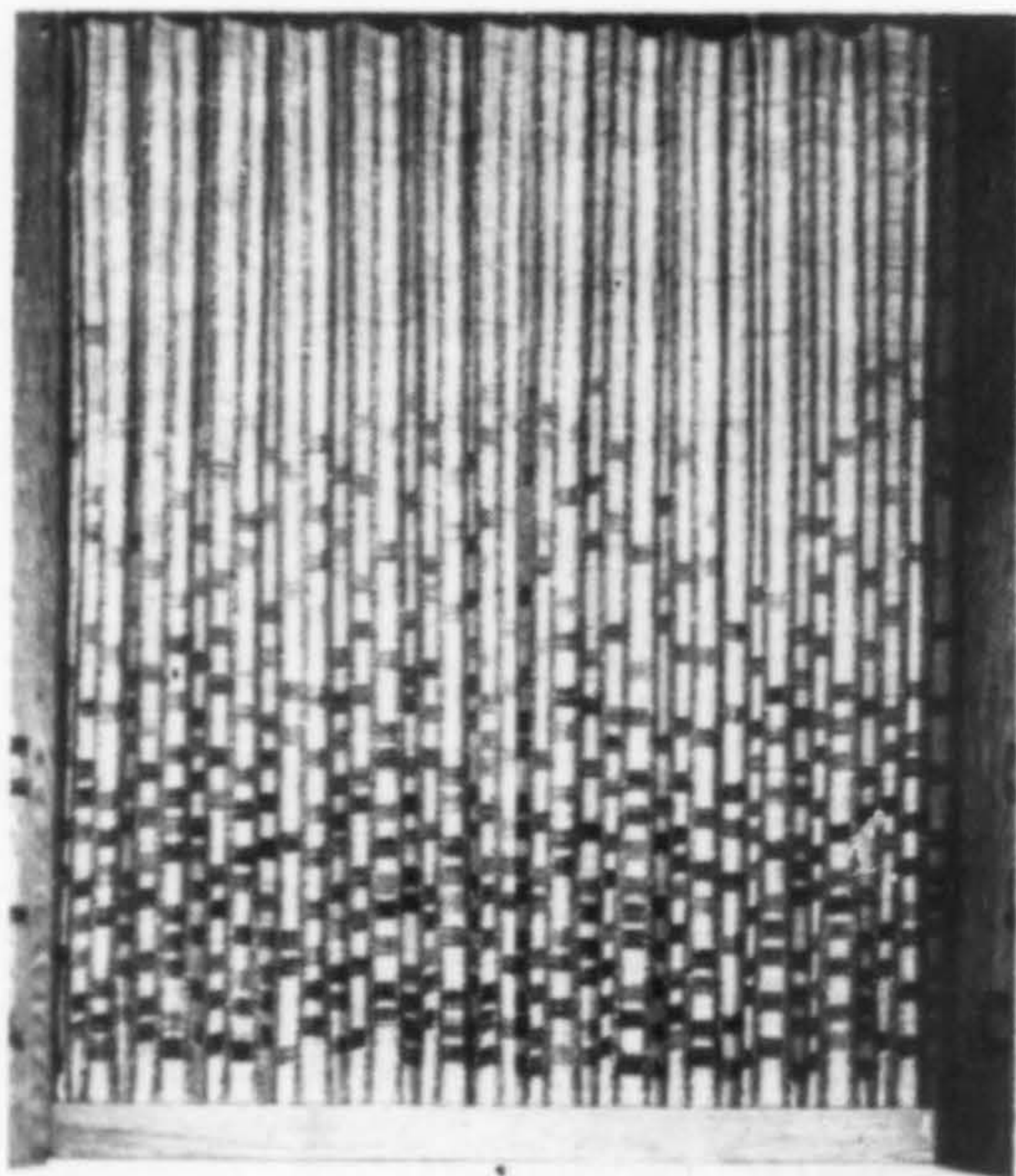
MARQUIS & STOLLER, Architects



Entry doors to Sanctuary.



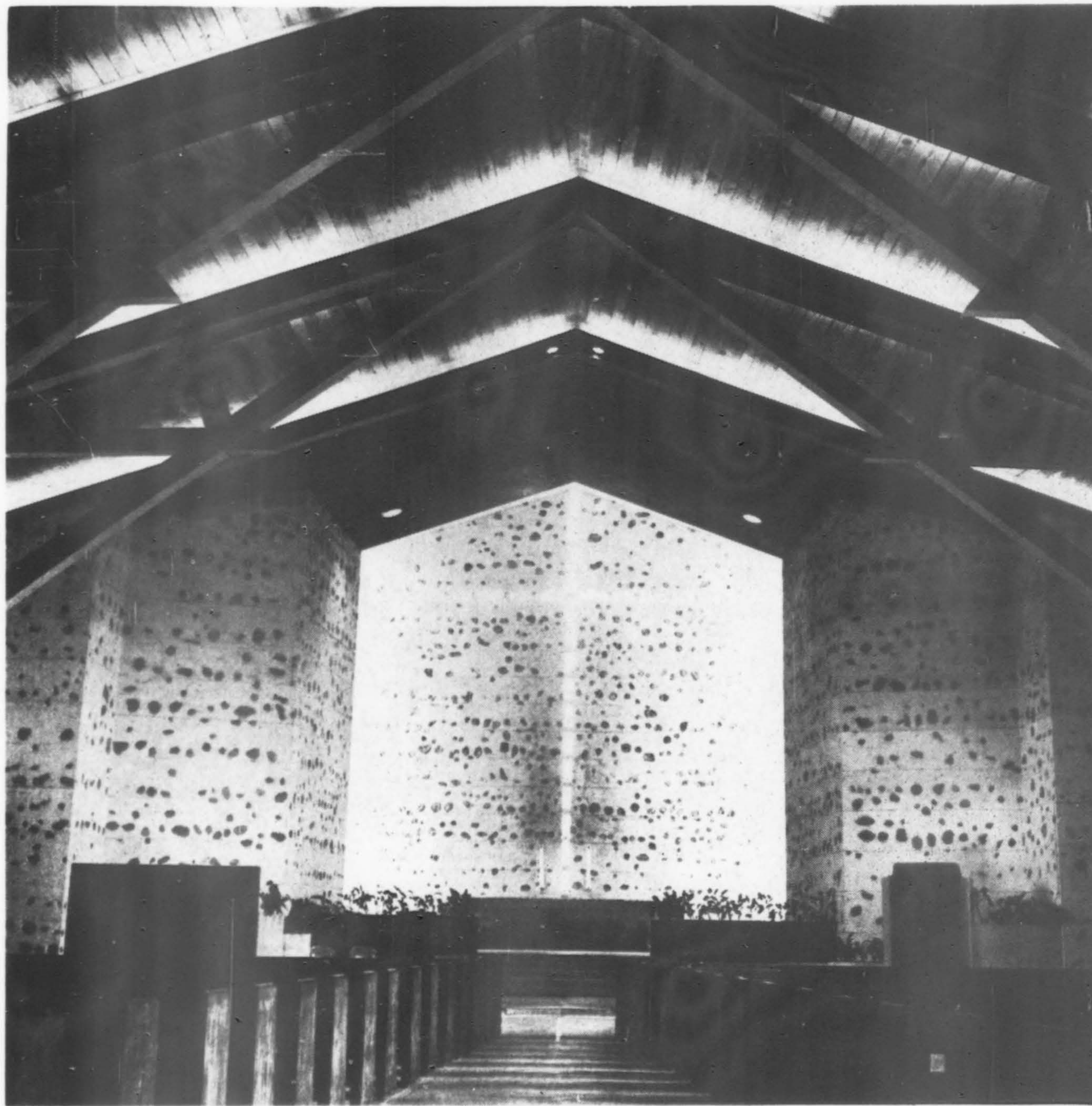
Menorah sculpture at door.



Ark curtain.

Sculptor
BELLA TABAK FELDMAN
Stained Glass in Sanctuary
ANN KNORR
Weaver, Ark Curtain
TRUDE GERMANDPREZ
Eternal Light
VICTOR RIES
Stained Glass at Doors
JANE MARQUIS

Church Complex Strong in Concept, Concern



FIRST METHODIST CHURCH, Honolulu, Hawaii

ALFRED PREIS, Architect

Thomas T. Tanaka, Contractor, Sanctuary

Y. Kobayashi, Contractor, Office Wing

K. & M. Sakamoto, Contractor, Mission Headquarters, Educational Wing

FIRST METHODIST CHURCH, Honolulu



DEEP, STRONG feelings of this congregation that their church architecture should demonstrate in design their concern with the community, with each other and with a strong concentration upon the altar enabled the architect to take full advantage of native materials, the tropical plants and the climate.

The church is sited at a noisy intersection, on a difficult lot. The master plan includes Mission headquarters, offices, an educational wing and kindergarten. Design was begun in 1949 and construction of the last four increments, the Mission headquarters, was completed in 1963.

The concrete coral aggregate walls of the Sanctuary, which are embedded with river-washed lava rocks, sand-blasted for soft texture and to expose the smooth boulders,

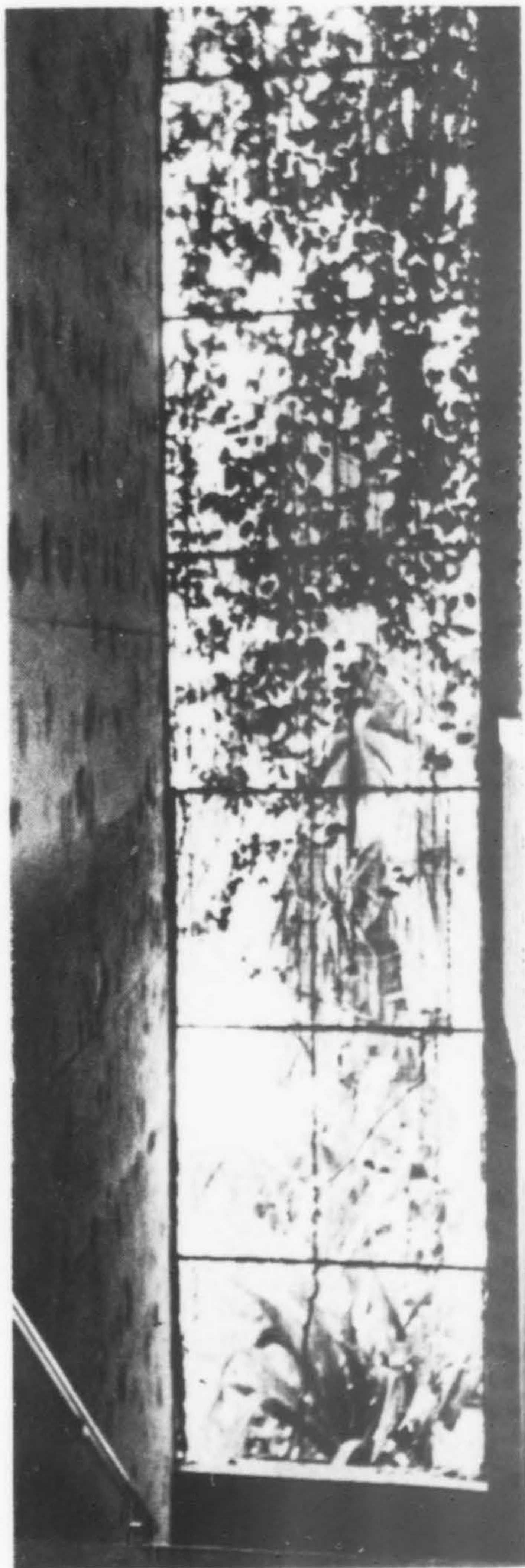
approach one another like inverse transepts, then expand at the altar.

The streetside narthex, also of boulder concrete, is relieved by a ceiling-high vertical mid-strip cross of single clear glass blocks. The narthex houses the choir or overflow attendance. The chapel is below and beyond Mission headquarters' offices, facing the educational wing which is surrounded by elderly Hawaiian trees across a small parking area.

The church received the Hawaii Chapter AIA Honor Award in 1955, the National Church Architectural Award in 1956.

George S. Walters was responsible for site landscaping; K. D. Park, structural; E. L. Ralston, electrical. Sculpture in the chapel was by Edward M. Brownlee, on the exterior by Jerome Aidlin.

Alfred Preis, Architect



Beatrice Howell photos

Entrance is gained to the nave through double doors and sliding glass walls, the latter surmounted by trellises trailing Hawaiian ferns and vines. The pulpit, woodwork and furniture are of dark stained Lauan; the sanctuary trusses covered with dark stained redwood.

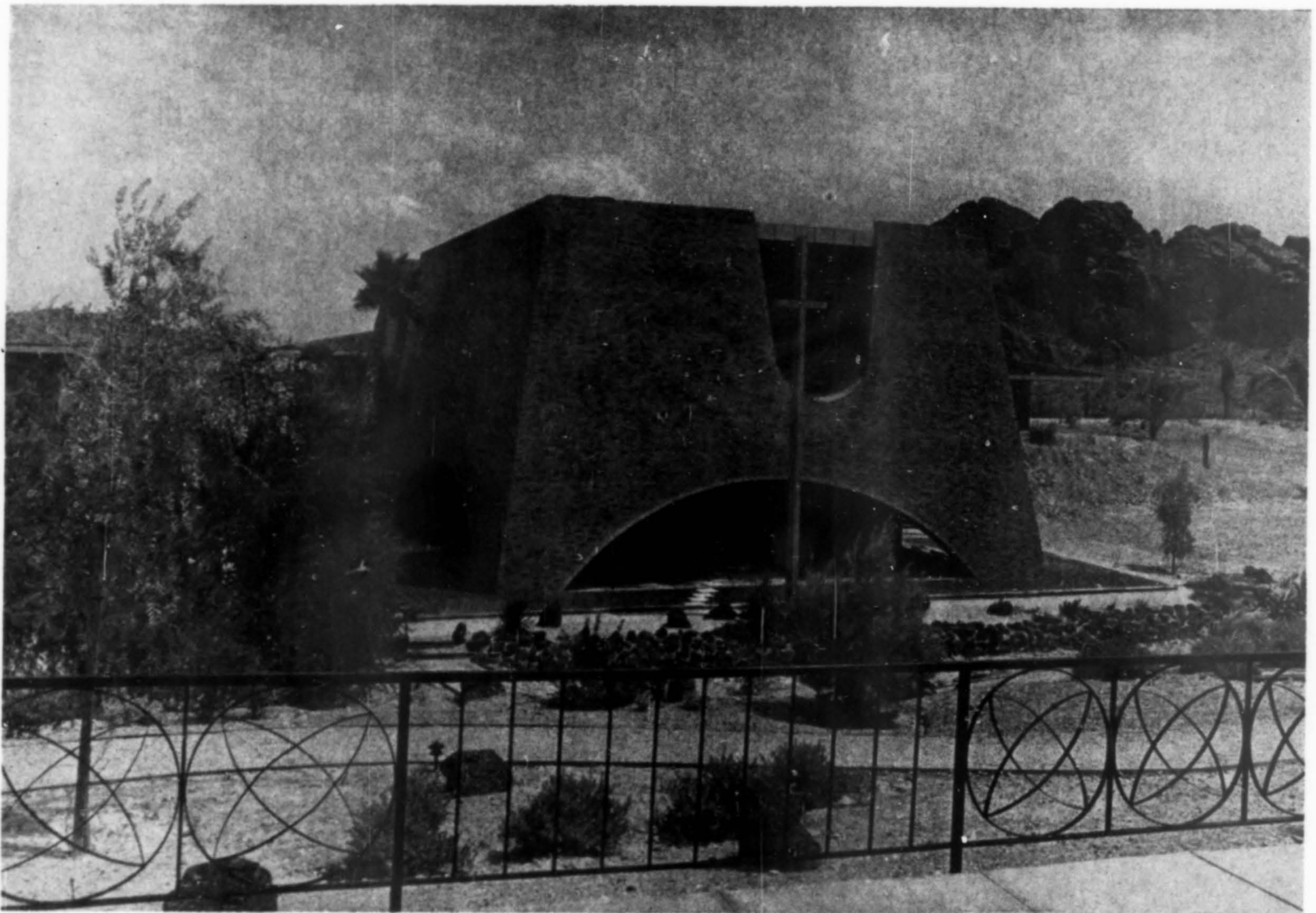


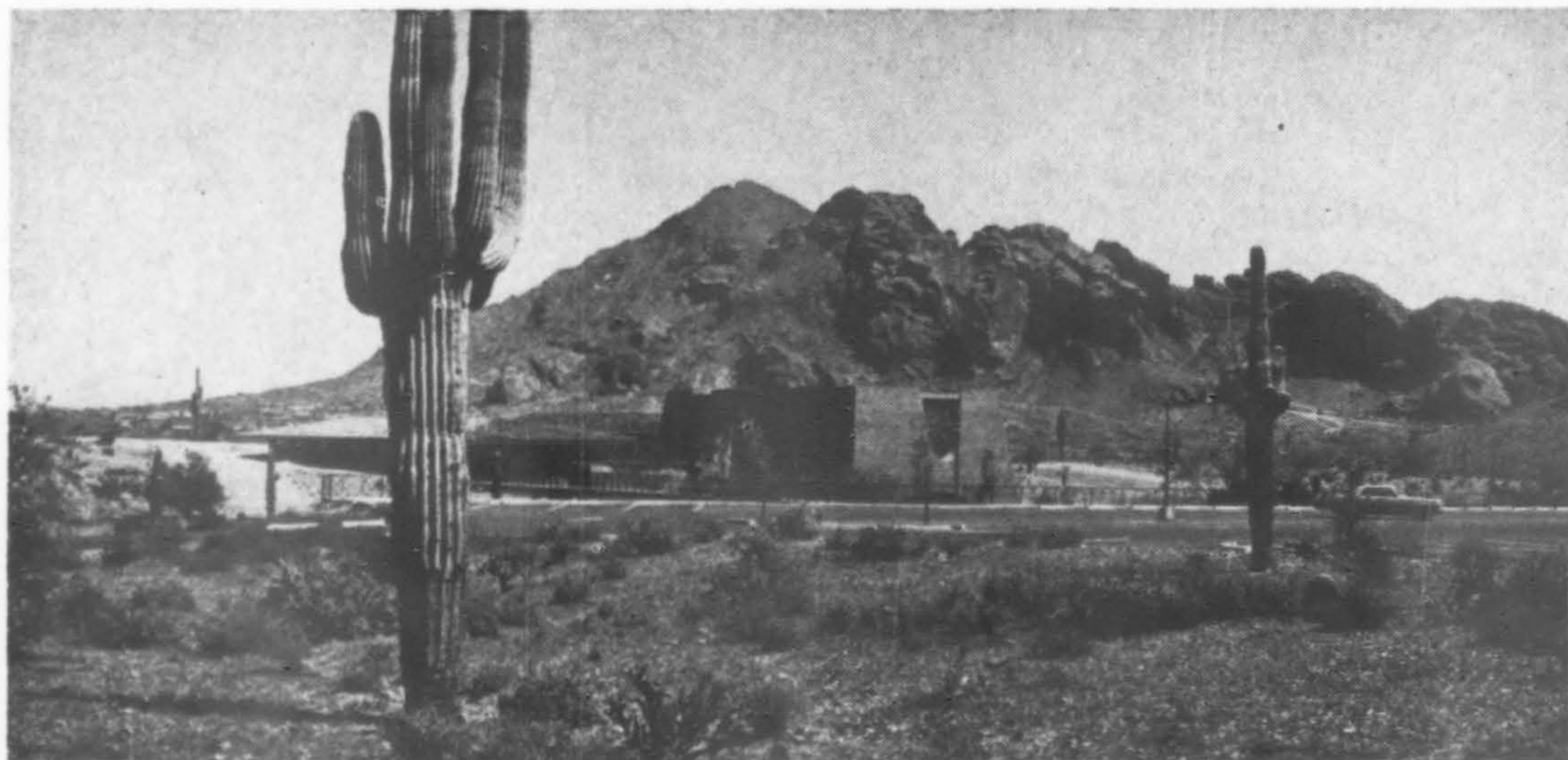
A place of worship in the desert

PARADISE VALLEY METHODIST CHURCH, Phoenix, Arizona

HAYER, NUNN & JENSEN, Architects

LANDSCAPING UNLIMITED, Landscaping



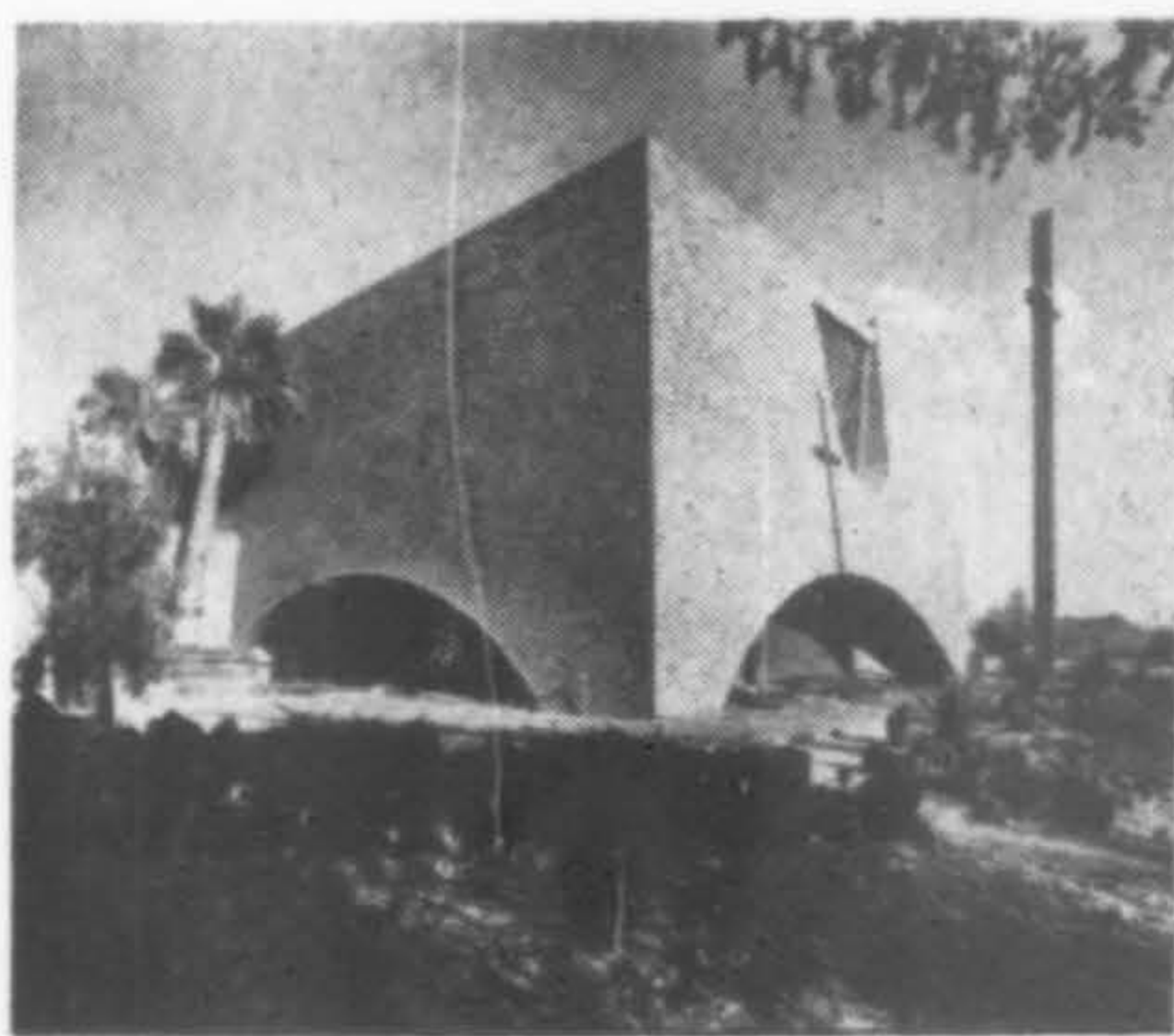


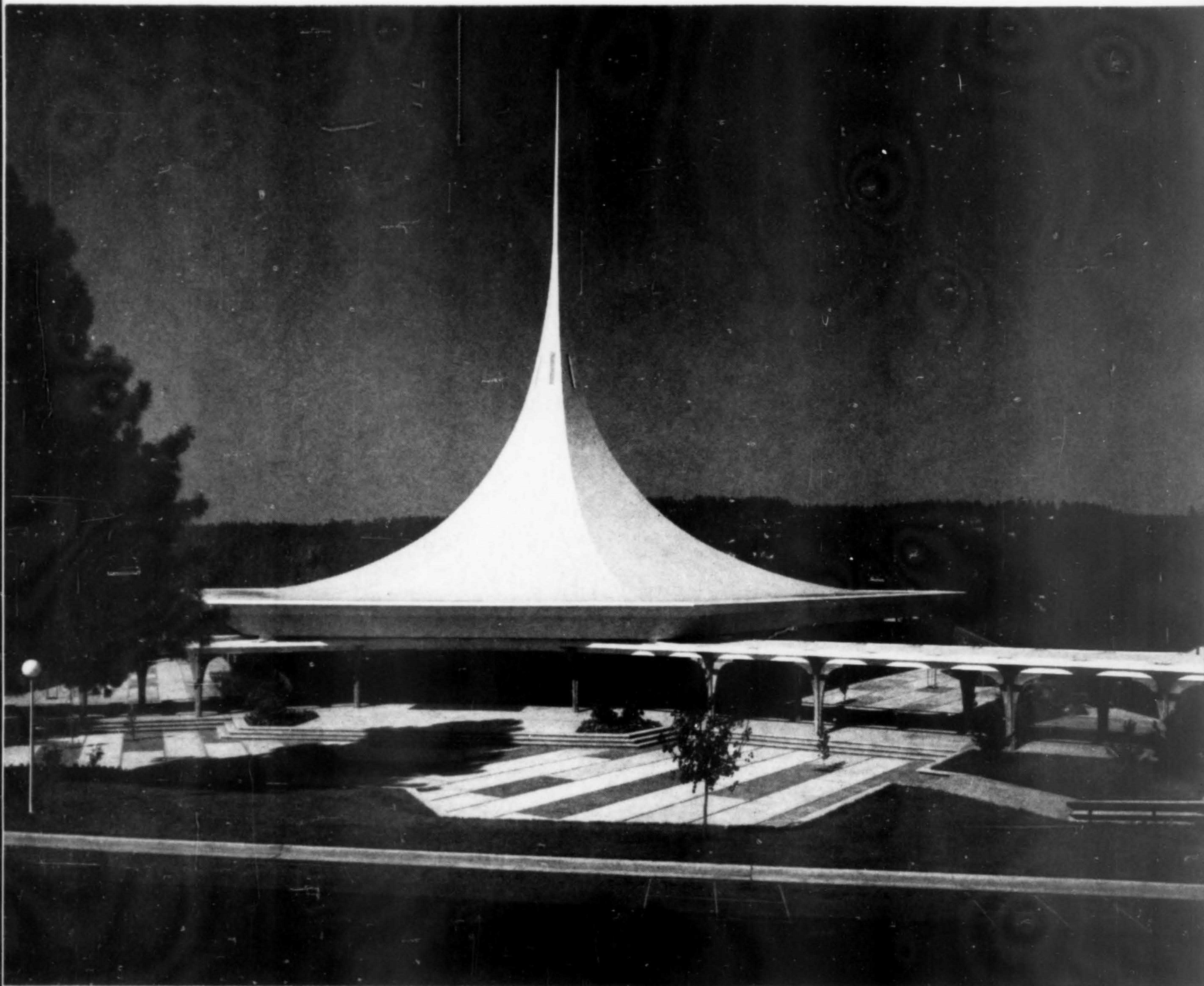
IN PARADISE Valley Methodist Church, the architects were presented with a large unmarred desert site and a new congregation desiring a striking facility. The present church is the first phase of a larger complex, which will ultimately include an 800 seat sanctuary, a large fellowship hall, classrooms arranged by age grouping, and a caretaker's residence.

Advantage was taken of a large arroyo which cut the site to isolate the parking area from the building complex. Passing over a bridge, one enters a large landscaped court which serves as a focus for the activities of the church. The classroom and fellowship hall buildings are subdued in character and the mass of the sanctuary dominates the ensemble.

The Sanctuary, which rises directly from the floor of the arroyo is of red common brick with reinforced concrete floors and a concrete roof over steel beams. The interior has exposed brick walls and a suspended wood ceiling which conceals ducts and provides the base for a flexible system of lighting. Altar, pulpit and font were designed by the architects who also assisted in the commissioning of artisans who executed the stained glass and altar equipment.

Aleppo pine, olive trees, African sumac, Rose of Sharon and Cyprus from the Bible lands are combined with native shrubs in the Prayer Garden surrounding the church proper.





Edmund Y. Lee photos

This is the church and this is the steeple

ST. JOHN THE BAPTIST CATHOLIC CHURCH, Milwaukie, Oregon

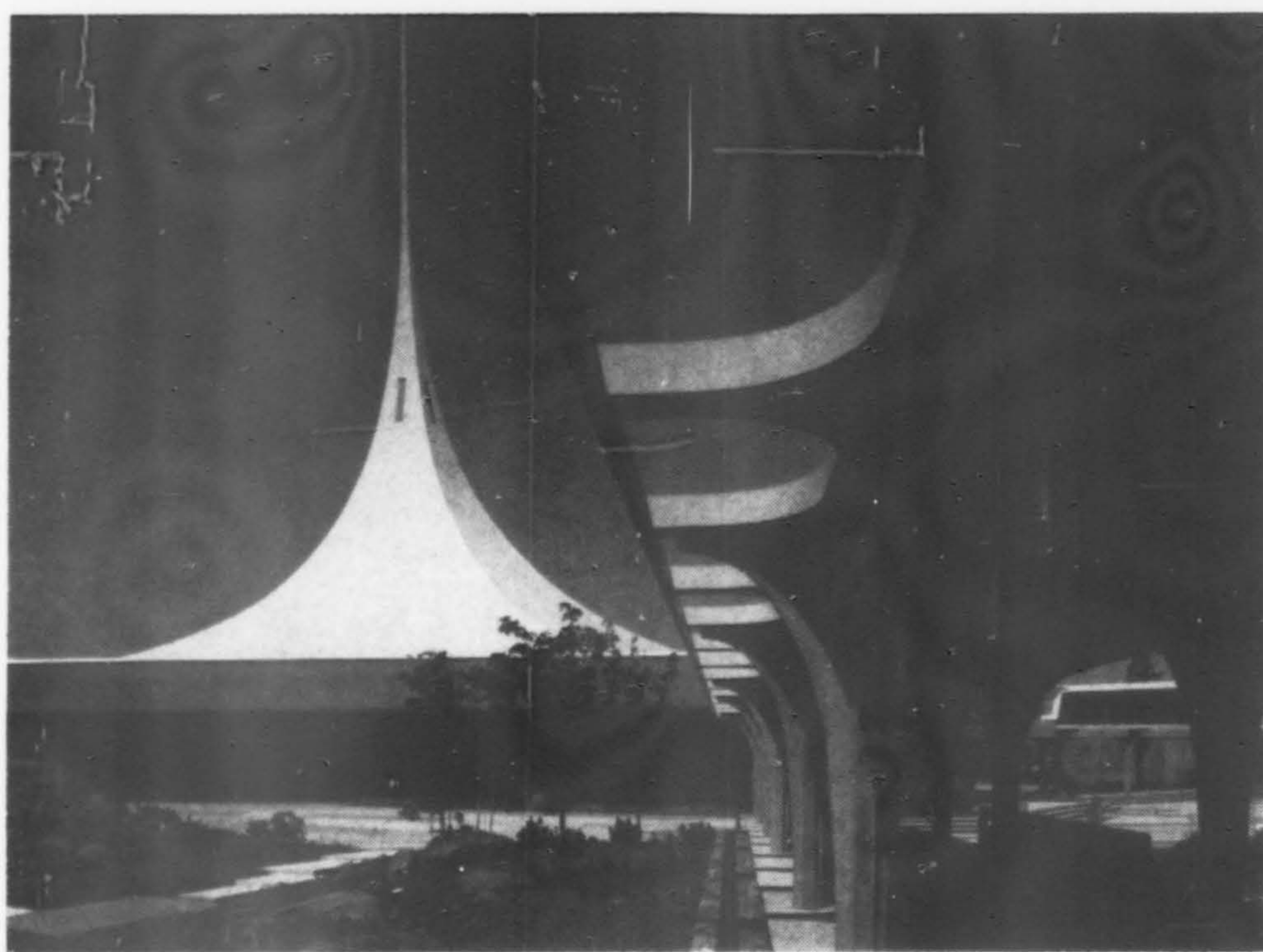
STEARNS, MENTION & MORRIS, Architects

MITCHELL & McARTHUR, Landscape Architects

JUHR & SONS OREGON LTD., General Contractor



Integration of this new center with the drab existing buildings into an awkwardly divided site (a block-long lateral street divides the property) has required careful long-range planning of the entire area, providing for future decisions on whether school facilities will be retained or not as the suburban areas siphon off younger families with school-age children.



Two covered walkways lead from the street to the main door of the church. A broad and spacious forecourt becomes a commons to which the entire parish can relate. Integration of the landscaping has provided paved areas alternating with pools and plantings.

THE BASIC DESIGN considerations were to plan a church, rectory and parish hall which not only anticipated future growth of the parish, but which also took into account the changing character of the entire neighborhood (the block and a half of parish property is immediately adjacent to business and commercial areas); the creation of a place of worship leading men into an inspiring religious experience and reflecting all the rich Catholic traditions as well as the new thoughts on liturgy promulgated by the recent Vatican Council.

The resultant structure has a gleaming white roof which can be viewed for miles. The glu-laminated timbers, decking and exterior plywood which form the upward sweep of the roof are finished with a protective coating of Gacoflex neoprene-hypalon. Above the roof proper, a 70-ft. steel tower is tipped with a lightning rod.

Total area of the church is 15,224 sq. ft. Footings are reinforced concrete with walls of natural Yucatan and native Oregon stone. Main floor is terrazzo supported by a steel structural system—open web steel joists, beams and posts. Window walls are solar bronze glass.

Consultants on the \$500,000 project were Balzhiser & Colvin, mechanical and electrical; Burgstahler Engineering, structural.

To serve a Japanese-American community



THE SITING of this church on a small building lot, 100x110-ft. (four 25-ft.-wide residential lots) posed the first design problem. The lot, facing west, sloped sharply to the northeast without benefit of view or any natural formations. Further, the homes in this area (the church serves a predominately Japanese-American community) were all single family, two and three stories high, built against each other with no side yards.

Although the building area was limited, a small Japanese-type garden was placed between the street and the church narthex as a semi-barrier against the noises and congestion of the nearby traffic.

The chapel seats approximately 190 persons with an overflow provision for an additional 60 during holidays and on special occasions. The Social Hall accommodates a similar number. A "warming" kitchen is used primarily to prepare simple menus and as a serving area for food prepared elsewhere. Space was allowed for the Issei (older) groups to worship and two pastor's offices were included, one for the Japanese-speaking groups. Twelve classrooms were required, most of them convertible for other uses as needed. All various elements of the church are individually heated to save costs.

The church was constructed at a cost of \$240,000. Consultants were: T. Higashi, mechanical; Chin & Hensolt, structural; Harold Wright, electrical.



Wood was selected as the main structural and finish element since the Japanese culture has a close affinity for natural wood. Plaster was finished in an off-white reminiscent of Japanese plaster construction and contrasting to the stained redwood.

Joshua Freiwald photos





ST. LEO'S CATHOLIC CHURCH
Solana Beach, California

HOMER DELAWIE, ALFONSO MACY
Architects

Honors for

"No-budget" parish project



Because of budget limitations, work on the interior was also kept to a bare minimum. The painted walls of the Sanctuary were accented with panels of rough sawn cedar siding. Unfinished wood ceiling trusses were left exposed and existing steel windows were filled with stained glass. Except for carpeting at the center aisle and Sanctuary, floors were left natural concrete. Treated paper lanterns have been used for lights.

George Lyons photos

ST. LEO'S is the result of much hard work by an enthusiastic young pastor (Father Eugene Speno) and his dedicated parishioners.

Starting with only a partially completed social hall, the architect chose simple materials and methods of construction that could be done by members of the parish in the conversion of the church. It was felt that the best exterior treatment for the remodeling would be to cover the building with planting to better relate it to the ground. With this in mind, the exterior walls were surrounded by trellis work, also extended at the new entrance to accent that area. An open structure wood tower was constructed for the old church bell.

Honored as one of four churches to win national citations at the 37th annual National Conference on Religious Architecture held in San Francisco earlier this year, the jury commented:

"A building whose complete modesty—achieving maximum results under absolutely minimum conditions (no budget, no costs!) and with very perceptive placement and arrangement of the sanctuary and baptismal font—epitomizes what can happen when a sensitive architect applies himself to a problem in which the results are normally disastrous."

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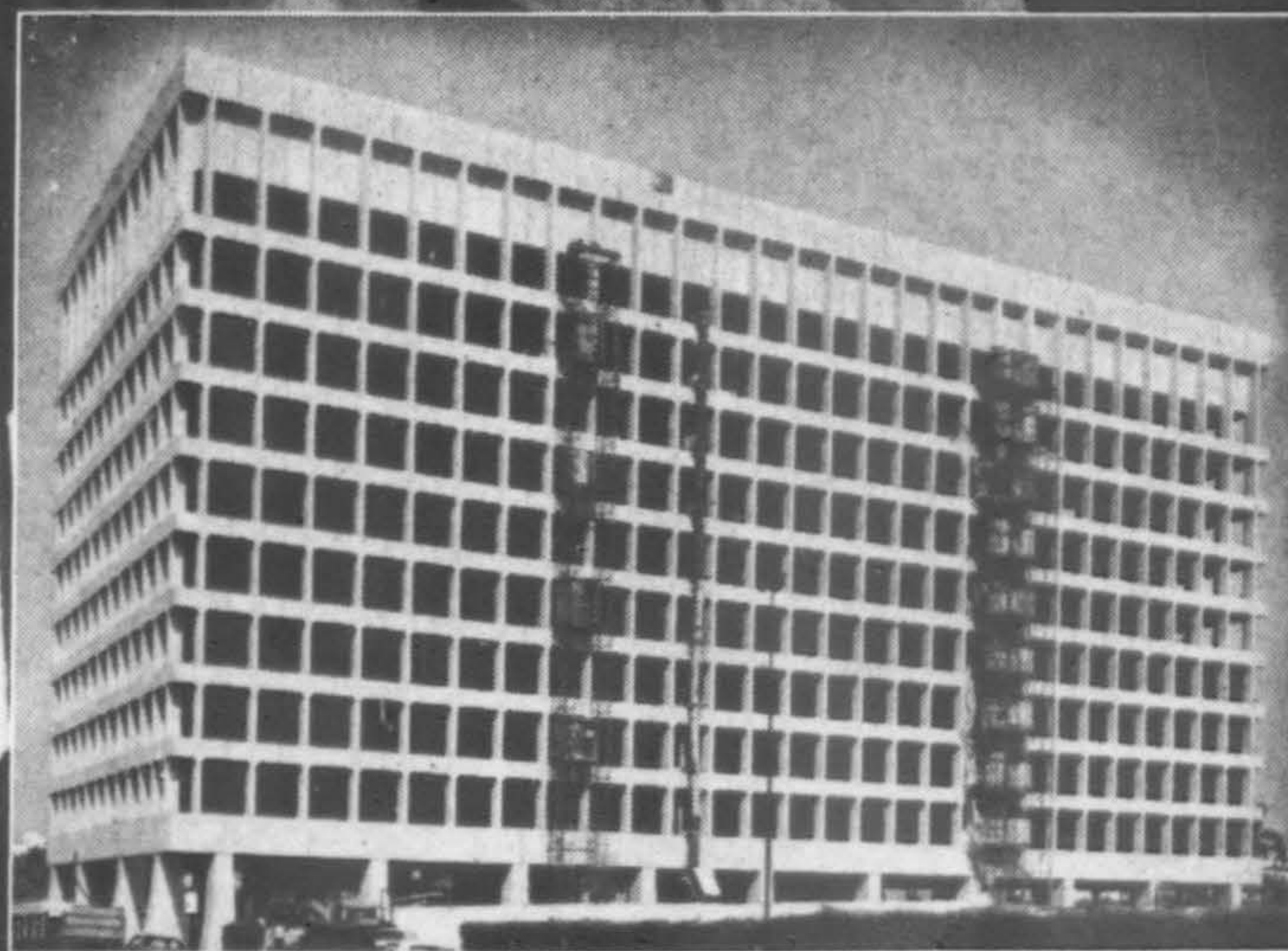
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dining facility plans

The dining hall or tray make-up systems of nursing homes and senior citizens residences has been developed into a highly flexible series of arrangements with prepared sets of drawings. The flexibility permits adapting needs of small institutions serving less than 100, up to very large ones of 300 to 600 persons. Each plan offers a service flow, space economy, flexibility for future requirements.—Lincoln Manufacturing Co. (A/W), Fort Wayne, Indiana.

contemporary office chairs

A new group of contemporary office chairs, the Matador line, includes executive, conference, side, swivel and secretarial models. Standard features are a form-fitting contoured back, flexible backstrap, contoured latex rubber seat. All metal surfaces have a polished chrome finish. Selection is offered in the cantilevered arms with solid oil finish walnut, fixed base or revolving and self-return base.—McDowell-Craig (A/W), Norwalk, Calif.

circular slide rule

A new card-mounted Circular Slide Rule, laminated for permanent printing, comes in two sizes, 4½-in. and 6-in. diameter. Both units offer an opaque base printed in black on two sides. The upper transparent disc with the B, C and C1 scales is imprinted in red to aid in simplified setting of needed scale combinations. The smaller unit has the scales on the face dial with instructions on the reverse; the larger one has the same basic construction as the smaller and incorporates the S, L and T scales on the back of the base dial.—C-Thru Ruler Co. (A/W), 833 Windsor St., Hartford, Conn.

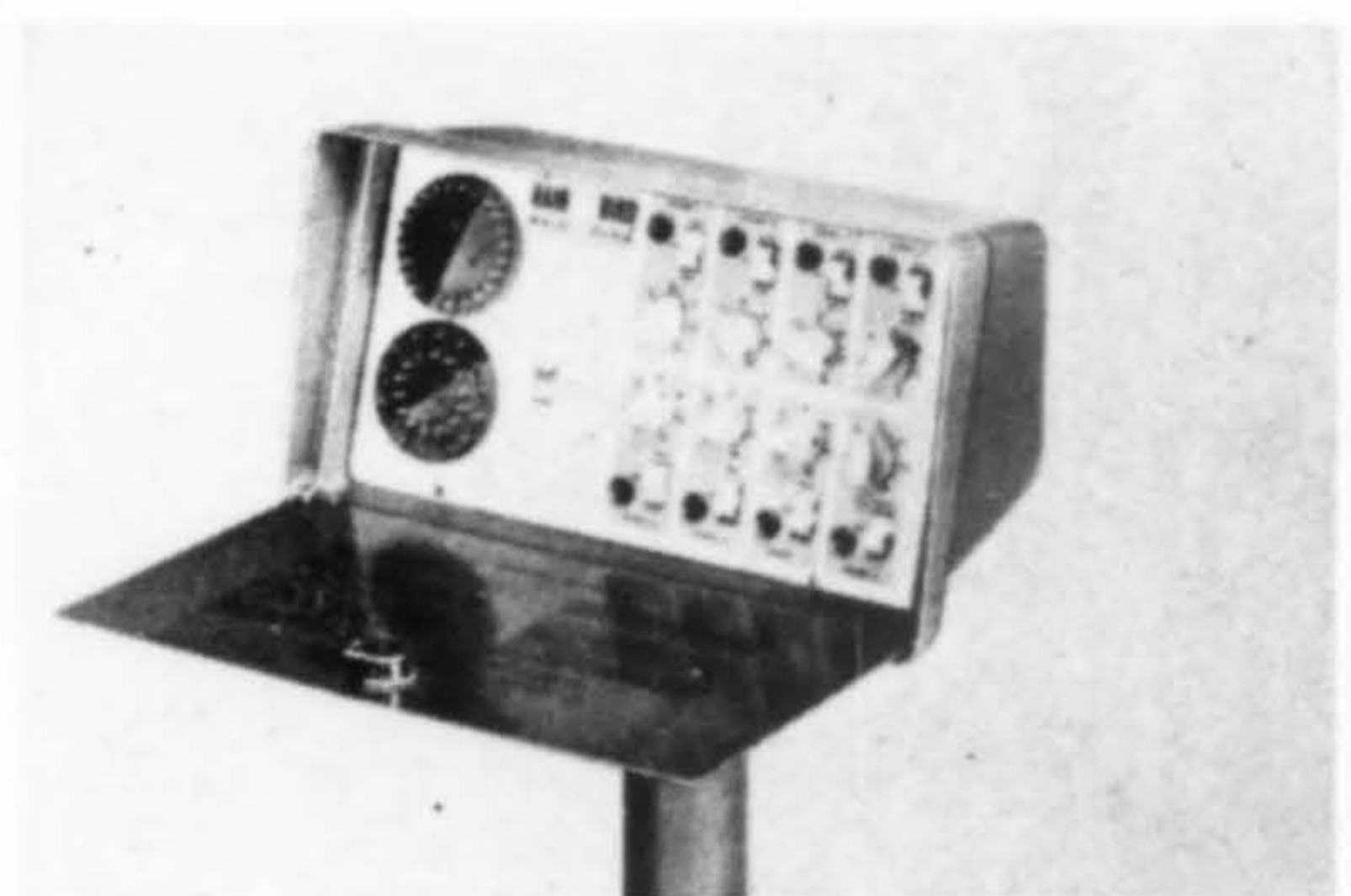


whimsical planters

Three stoneware figures, 14½ to 15½-in. high, are weatherproof, whimsical indoor or outdoor planters for flowers, real or artificial. The three, Simon, Henrietta and Lily, are also suitable as statuettes or desk caddies.—Everthine (A/W), 7960 West Third St., Los Angeles.

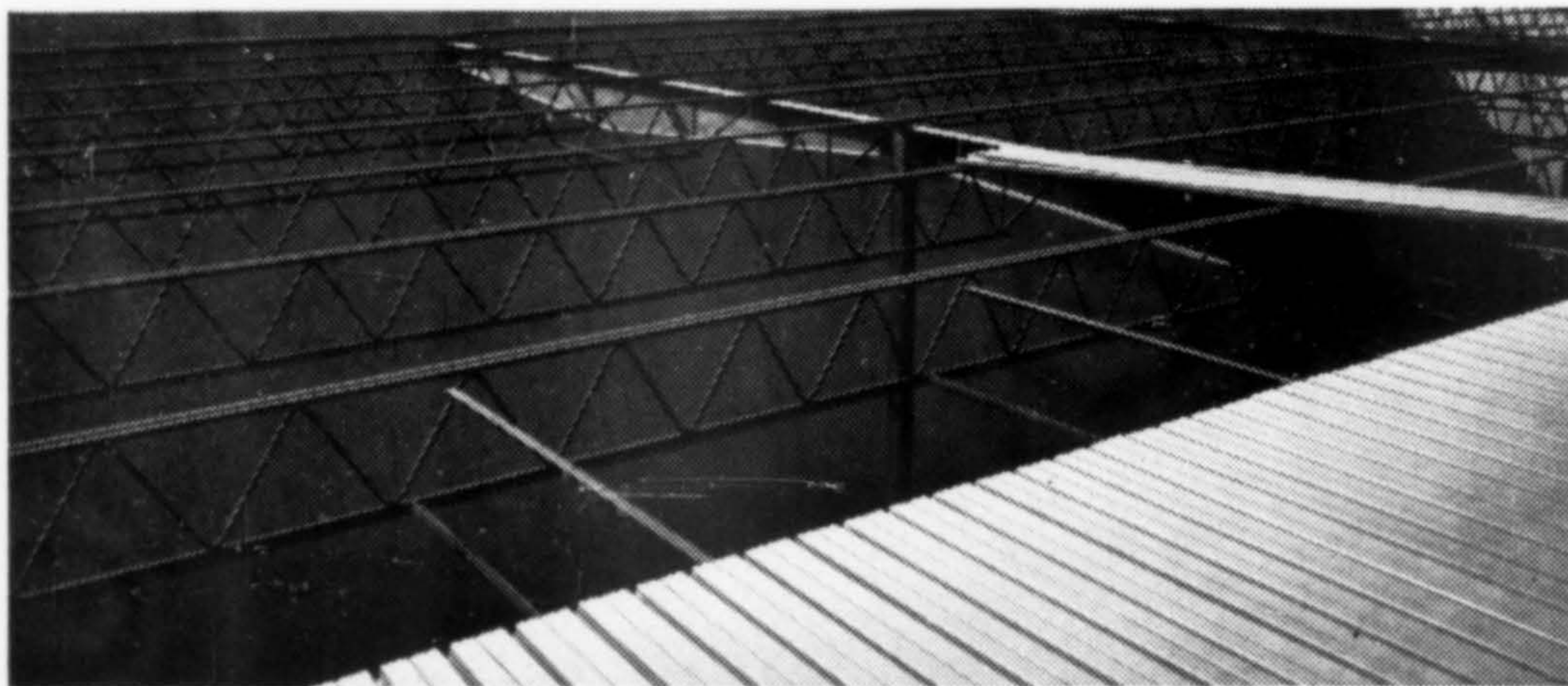
thermostats in color

A thermostat that will blend or contrast with an individual room decor is being introduced this fall. The General Controls COLORSTAT control will emphasize the beauty of color to brighten interiors. Six finishes will be included: yellow glow, sea mist green, newport blue, walnut, copper and silver. They can be painted or covered to blend with wall finishes. Three models will be available.—International Telephone & Telegraph Corp. (A/W), 6842 Van Nuys Blvd., Van Nuys, Calif.



electronic sprinkler system

Now available is a new electronic sprinkler system controlled by the Rain-Clox 8, and especially recommended for residential buildings. It is a small version of the electronic controller used to water golf courses, parks, etc. There are eight separate stations operating independently so that varying water schedules for lawns, shrubs, play areas, can be programmed. Watering cycles are from one to 30 minutes duration and watering intervals range from one to 14 days.—Rain Bird (A/W), Glendora, Calif. 97140.



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Electric air conditioning is paying off in sales for the Larwin Company at Tanglewood.



The Larwin Company is using electric air conditioning as a selling tool at Tanglewood—a community of 1700 all-electric townhomes in Cypress, California.

All 1700 units will be cooled electrically, and sales have been brisk.

"Electric air conditioning has been very helpful in attracting buyers," according to Michael L. Tenzer, Vice President and Director of Marketing for the

Larwin Company. "People are moving in as fast as construction permits, and certainly electric air conditioning has been influential in a good many sales."

Suggestion to other far-sighted builders: use electric air conditioning as a selling tool.

It is paying off for the Larwin Company. It should work for you.

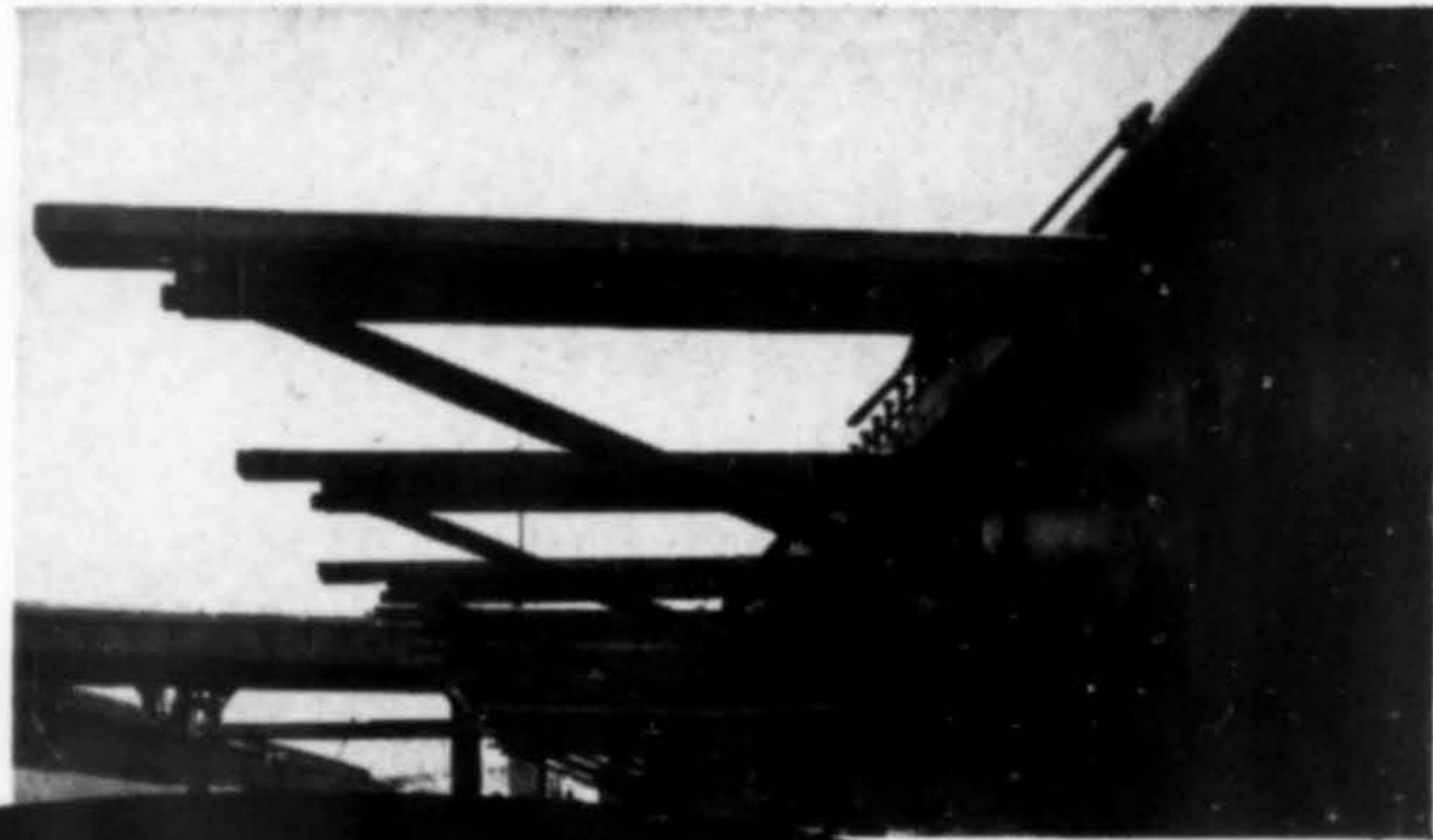
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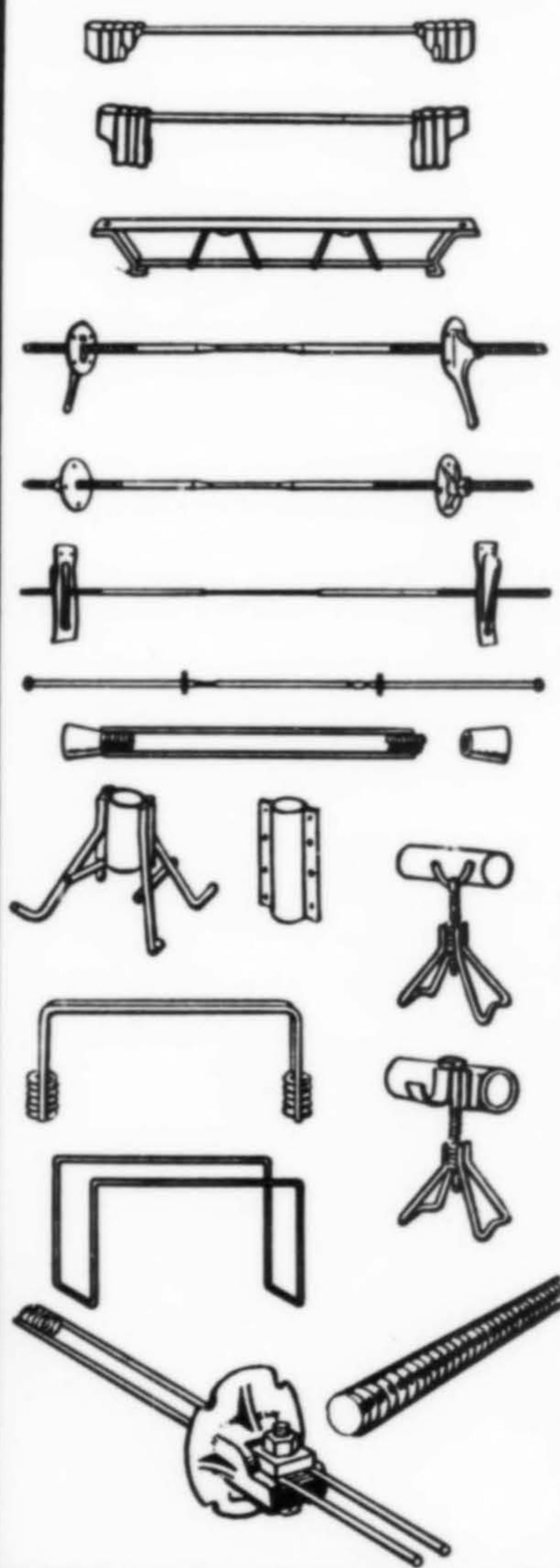
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LITERATURE

Custom Doors: shows at a glance the many styles of doors offered from hand carved work to simple applied molding. Custom designs are available. Other products are listed including custom door hardware, room dividers and ornamental grills, sculptured facades.—Architectural Specialties, Inc., 850 South Van Ness Ave., San Francisco 94110.

Miami Brick Stone (AIA 3-F-3): displays the colorful appearance achieved by use of Miami Stone and Brick precast concrete products in a wide range of commercial buildings, highlighting a church, a shopping center, a school and an apartment project. Full color, 4-pp.—Miami Stone of America, Inc. 4550 Bluff Road, Indianapolis, Indiana.

Special Form Designs for High Rise Structures: describes and illustrates special steel forms designed to solve specific concrete forming problems on high rise structures. Detailed drawings and photographs demonstrate practical and economical solutions to some of these problems.—Universal Form Clamp Co., 1238 N. Kostner Avenue, Chicago, Ill. 60651.

Standards for Structural Glued Laminated Members: contains the latest compilation of standards being followed by Western laminators. Tables are streamlined to cover only the strength levels most commonly used. 8-pp.—Western Wood Products Association, Yeon Bldg., Portland, Ore. 97204.

Church Lighting Beauty: describes the quality construction and advantages of hand-crafted cast aluminum and bronze fixtures. Shows how Hadco church fixtures can be individualized through design variations and the use of different components and embellishments. Information on low voltage lighting and custom designing included. Three-color, 8-pp.—Hadco Products, Inc., P. O. Box 128, Littlestown, Pa. 17340.

Bigelow Custom Carpets: contains four-color illustrations of the Dorothy Liebes designs as well as those created by the Bigelow custom design studio. Commercial and residential installations are shown. 32-pp.—CCB, Bigelow-Sanford, Inc., 140 Madison Ave., New York, N. Y. 10036.

The Growing Case for the Daylighted School: discusses the economics and emotional advantages of good school fenestration. Several schools are illustrated. Included are tables for construction, operating and maintenance costs. Two colors, 8-pp.—Architectural Aluminum Manufacturers Association, Suite 1502, 35 East Wacker Drive, Chicago, Ill. 60601.

• **Glide-All Division, Woodall Industries, Inc.:** Jerry Allen has been named general sales manager of the El Monte, California manufacturing firm, producers of Bi-Fold and sliding wardrobe doors. Prior to this appointment he was affiliated with the Rangeventer Manufacturing Co. in Montclair, California.

• **San Valle Tile Kilns:** The Southern California manufacturer of clay roofing tile has purchased the plant facilities of El Camino Clay Products and Building Supply in Redlands. It will operate as the Redlands plant of San Valle Tile according to Sam Greenbaum, president. Abel Murillo will manage the new operation.

• **American Plywood Association:** The National Building Code of the American Insurance Association has accepted 1½-in. thick 2.4.1 plywood as a roof decking material for heavy timber construction. The decking has passed U/L fire tests which show that it provides the same good performance as nominal 2-in. tongue-and-groove lumber decking.

• **Zonolite Division, W. R. Grace & Co.:** The sixth Dyfoam polystyrene producing plant in the nation, and the company's first on the West coast, has been opened at Vernon, California, near Los Angeles. The 11,000 sq. ft. facility is capable of turning out Zonolite's full line of polystyrene insulations.

• **Concrete Products Association:** Robert E. Jose of Union Concrete Pipe Co., Parker, Washington, was elected president of the association at their 37th annual convention recently held at Alderbrook Inn on Hood Canal. Other officers are Robert H. Hopkins, Layrite Products Co., Spokane, vice president; Robert G. Dawes, Lind Gravel Co., Bellingham, secretary; William B. Judah, Graystone-Kent, Kent, Washington, treasurer.

• **Halo Lighting, Inc.:** Robert Ranases has been appointed representative for the Illinois firm in Hawaii. He will work with John Cummings, regional manager, Los Angeles.

• **United States Gypsum Co.:** Terence C. Cady has been named Oakland district sales manager. He was formerly a sales engineer in the firm's Electric Heat Division.

• **Timber Structures, Inc.:** Ed Cohn, Jr. has been appointed director of manufacturing, working from the Portland headquarters.

• **Producer's Council:** For the third straight year, the Denver Chapter has been named winner of the Council's Silver Bowl award for outstanding chapter programming. Los Angeles chapter was a runner-up.

• **J. H. Baxter & Co.:** Treating facilities at the Alameda and Southern California plants have been expanded to meet the increasing demand for the fire-retardant Baxco-Pyresote wood studies and Chemonited wood.

• **Miami-Carey Div., Philip Carey Manufacturing Co.:** Harold Mears, Western division general manager, has announced the appointment of James W. Adams as sales representative in Oregon and Western Washington, and George Clough as representative for company sales in Montana and Eastern Washington.

• **Evans Products Co.:** Arthur F. Kasper has been appointed advertising and sales promotion coordinator for the Plywall Division. He will headquarter at the Corona, California, division.

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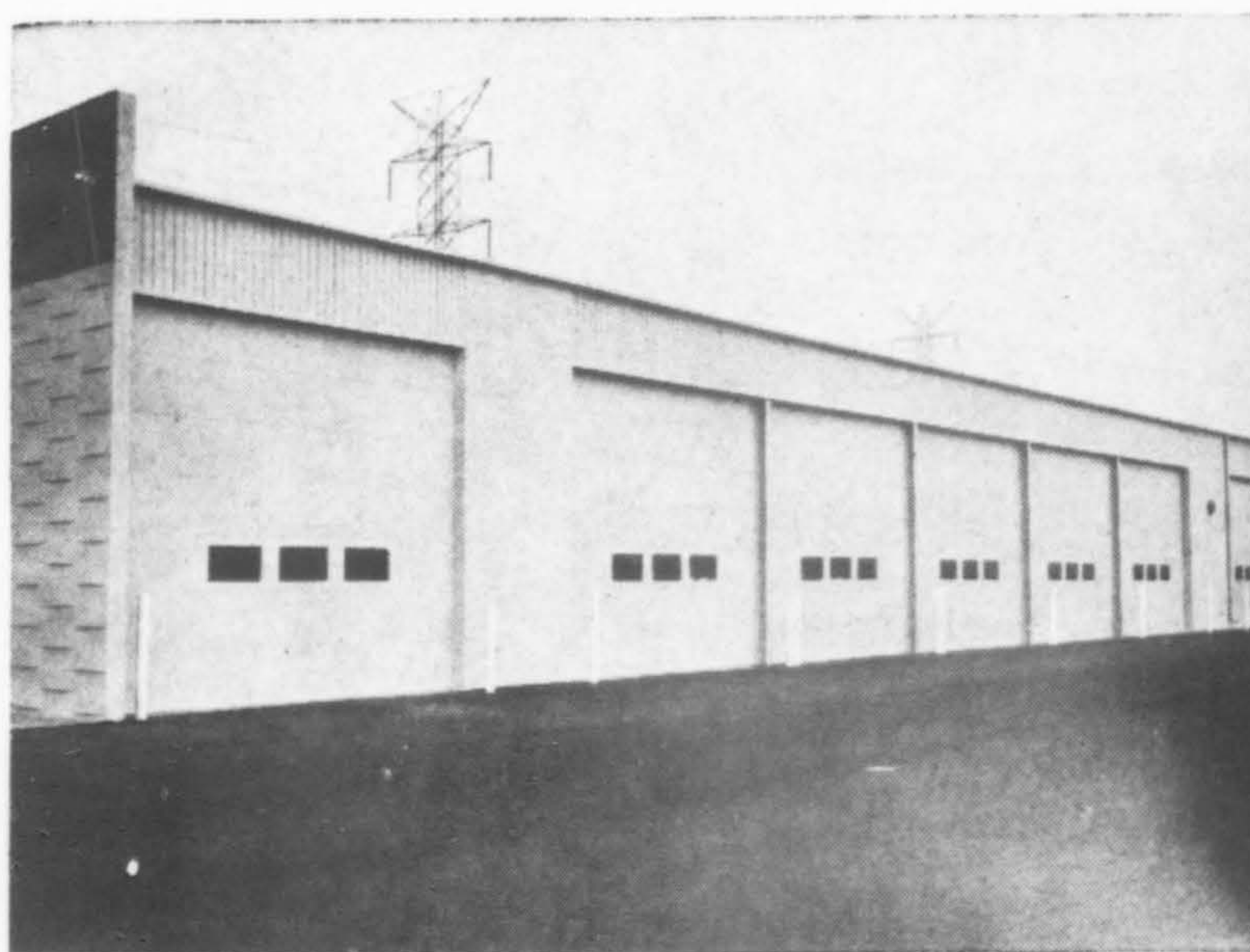
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Architecture/West

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San Francisco, Calif.—Eighteenth Street Apartments for the elderly—Campbell & Wong & Associates	June	10

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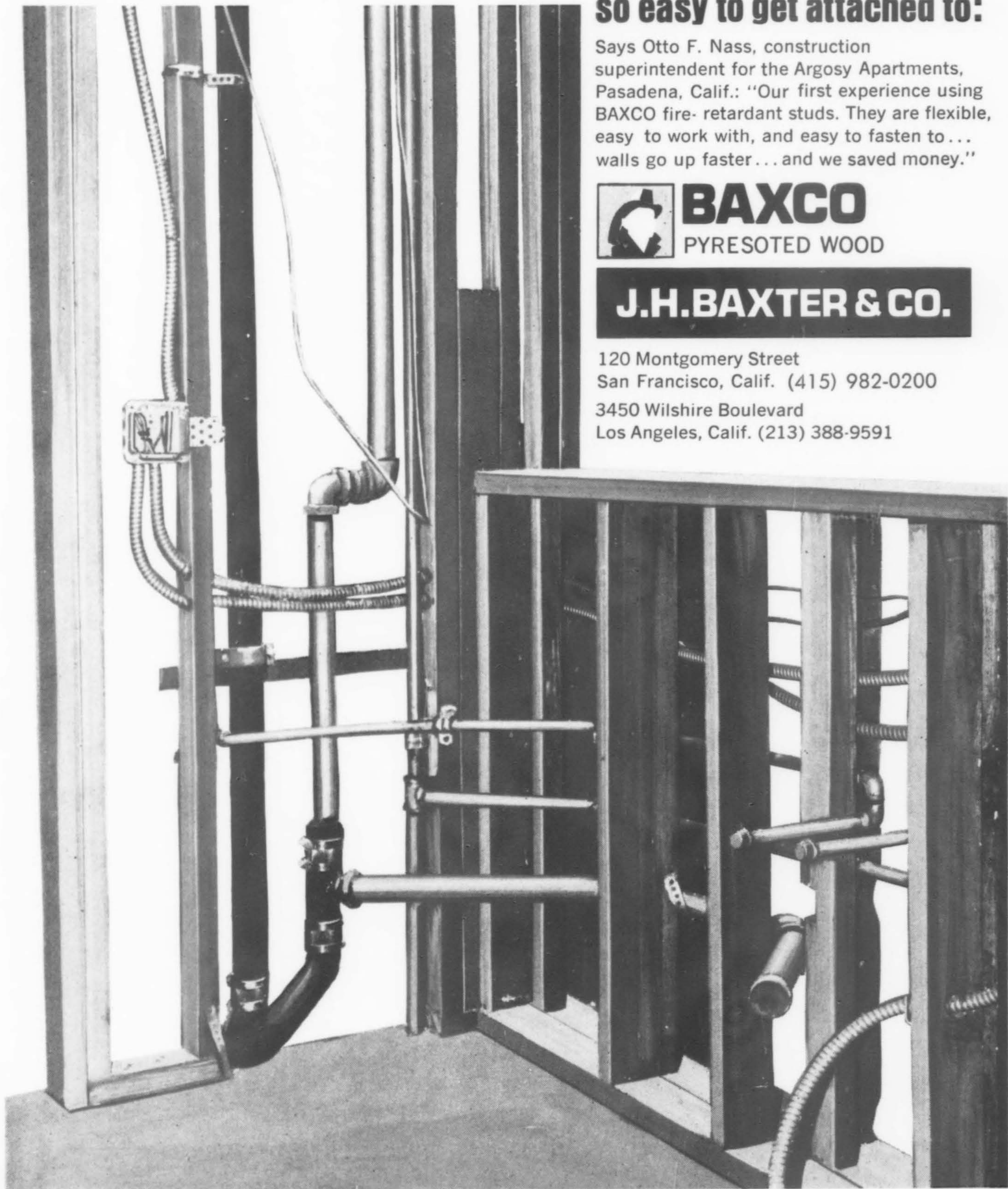
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Seattle, Wash.—Plymouth Congregational Church—Naramore, Bain, Brady & Johanson	Sept.	10
Seattle, Wash.—Seattle First National Bank headquarters—Naramore, Bain, Brady & Johanson; Pietro Belluschi	Mar.	4
Socorro, New Mexico—Chemistry and Biology building, New Mexico Institute of Mining & Technology—John Reed	Oct.	29
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Stockton, Calif.—Humphreys College—Mortensen & Hollstien	Oct.	29
Sun Valley, Idaho—Bank of Idaho branch—Wayland, Cline & Smull	Oct.	8
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Tacoma, Wash.—Men's dormitory, Pacific Lutheran University—Robert Billsbrough Price	Oct.	28
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Tucson, Ariz.—Basic Sciences building, University of Arizona—Friedman & Jobusch	May	9
Turlock, Calif.—Wells Fargo branch bank—Garretson-Elmendorf-Klein-Reibin	Sept.	14
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