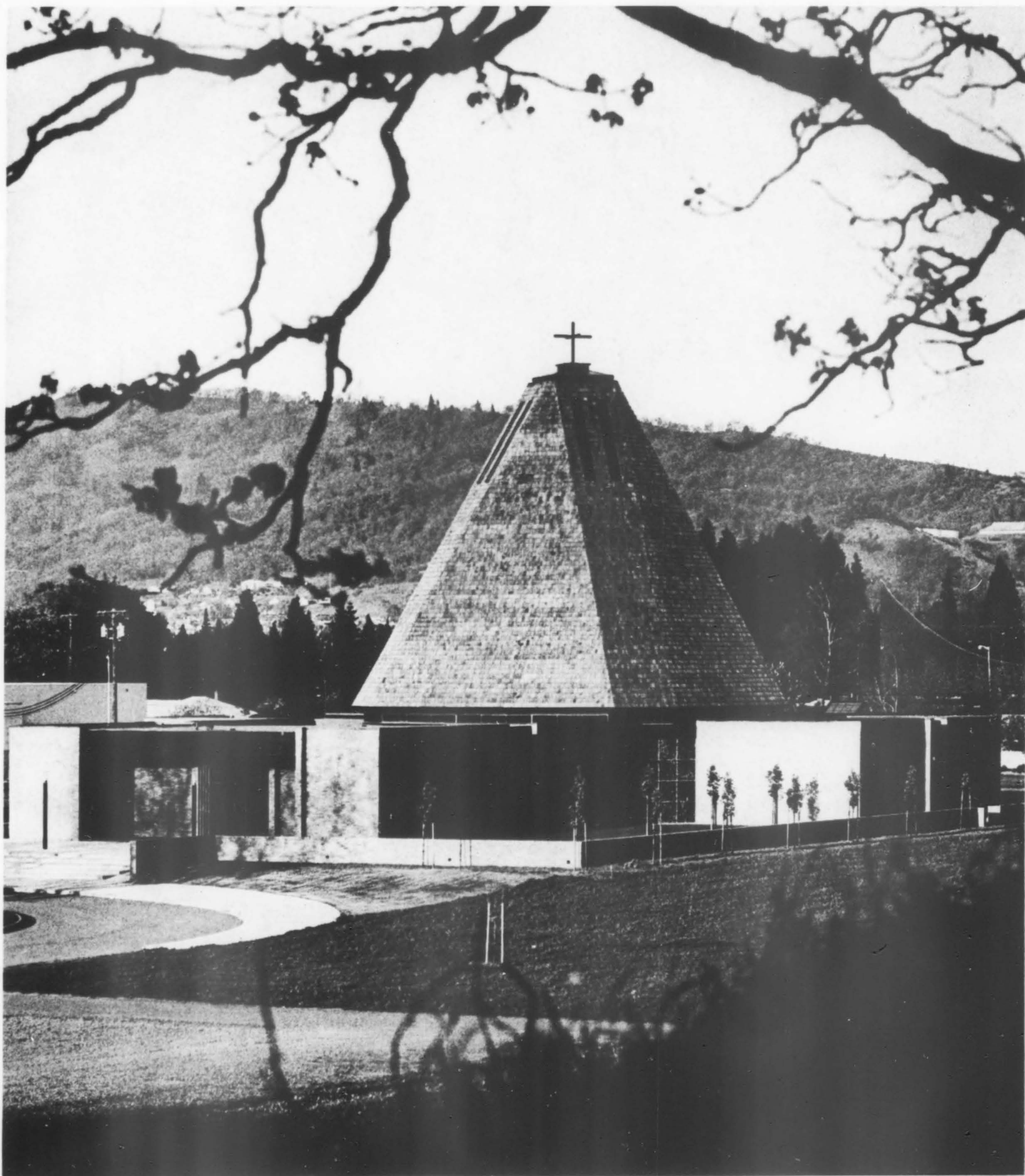


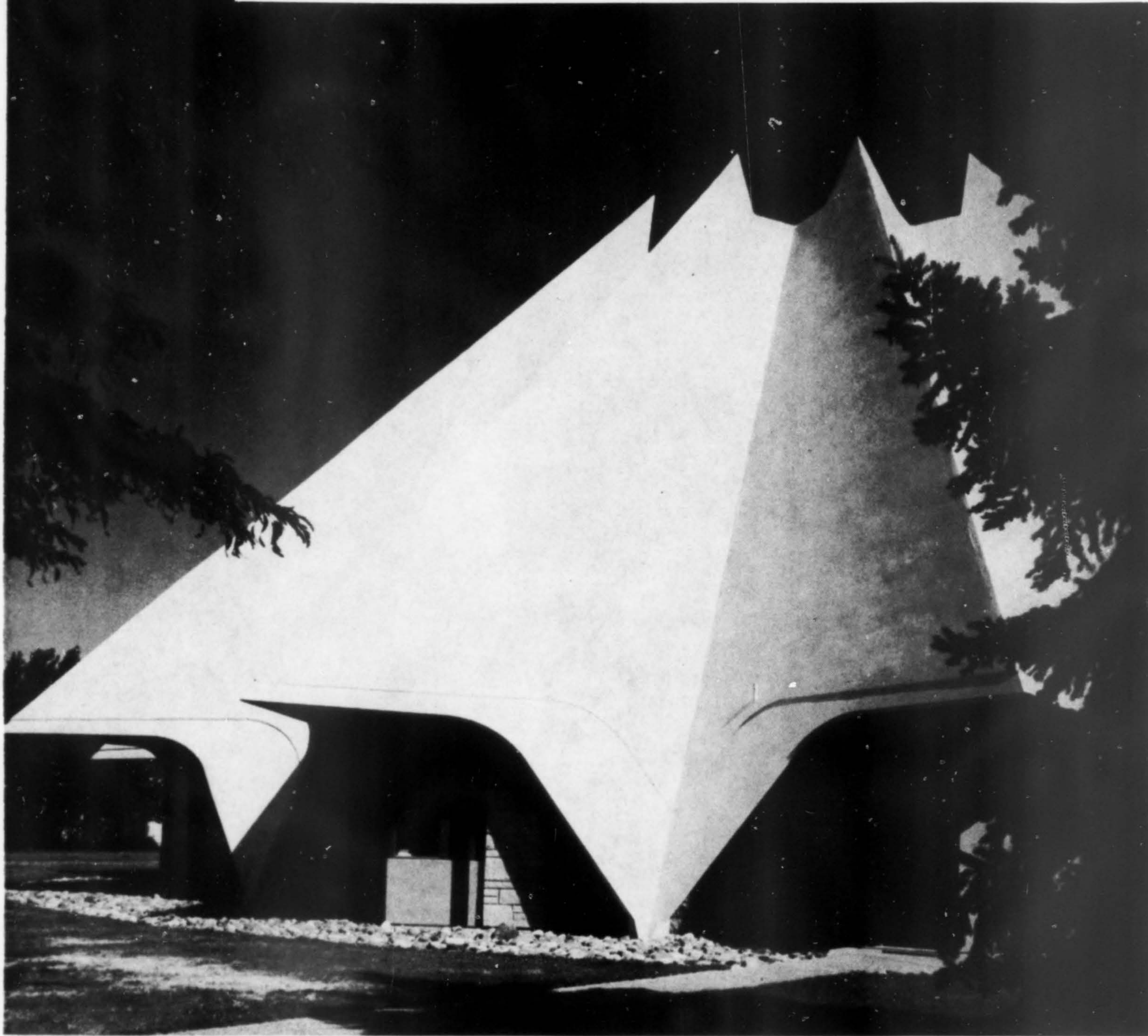
# Architecture / West

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DECEMBER 1969



# Innovations in excellence



*"And let them make me a sanctuary, that I may dwell in their midst." Exodus 25-8*

RICHLAND LUTHERAN CHURCH, Richland, Washington. Funk, Murray and Johnson, Architects, Spokane, designed in symmetry the "tent of meeting" using post tensioned concrete folded plates. Resplendent in beauty and simplicity, and reflecting permanence of materials by using concrete, the "tent of meeting" announce expectancy and hope, calling men to worship. Twelve concrete piers support 24 plates all precast on the site. Plates are 65-ft. long, allowing a 50-ft. clear interior ceiling. The precast Gospel Tower is 96-ft. high.

ARCHITECT-ENGINEER: Funk, Murray and Johnson

CONTRACTOR: ADSCO Construction Co.

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# Architecture/West

December 1969

Volume 75, Number 12

RELTA GRAY  
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Design Consultant

PEGGY HANSEN  
Contributing Editor  
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JAMES D. GOUGH JR., AIA  
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(Montana)

JAMES MAWSON, AIA  
Contributing Editor  
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ARCHITECTURE/WEST  
(incorporating the architecture and  
building edition of  
Southwest Builder & Contractor)  
is published monthly by  
Construction Publications/West, Inc.  
1945 Yale Place East  
Seattle, Washington 98102  
Printed in U.S.A.  
Copyright 1969 by  
Construction Publications/ West, Inc.  
Controlled circulation paid at  
Seattle, Washington

Subscription price:  
\$6 a year;  
\$10 outside 13-state West

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THE COVER: St. Joseph Parish Church, Roseburg, Oregon; Wolff-Zimmer-Gunsul-Frasca-Ritter, architects; Photo-Commercial Studios. Page 22.

# A/W News Highlights

## Washington to Investigate School Construction Costs

WASHINGTON State Superintendent of Public Instruction Louis Bruno has named two architects, Theodore Litzenberger, Tacoma, and Thomas Adkinson, Spokane, to a special committee to investigate and report on possible areas in which school construction costs can be lowered. Research will include financing practices, codes, school building designs and building details. Established by House Resolution 69-73 in April, the committee will also include school directors, educators, contractors and private citizens.

## Pan-Pacific Citation Honors Sachio Otani



SACHIO OTANI, Japanese architect, has been named as recipient of the 1969 Pan-Pacific Citation, presented annually by the Hawaii Chapter, AIA, to an outstanding designer working in the Pacific Rim countries. In the above photo are Herbert Luke, president of the Hawaii Chapter, Mrs. Luke, Sachio Otani and Gordon Bradley, AIA, who presented the certificate.

Among outstanding Otani buildings are the Kyoto International Conference Hall and the Sumitomo Fairytale Pavilion at Senri, Osaka, for Expo '70.

## Overseas Study Grants for 1970-71 to Close December

GRANTS FOR graduate study abroad, available under the 1970-71 competition, and offered by the United States government under the Fulbright-Hays Act and by various foreign governments, universities and private donors, will close in December. A total of approximately 500 grants will be offered. Information is available through the Institute of International Education, 809 United Nations Plaza, New York City 10017, or through Fulbright program adviser in the colleges and universities.

## Four Groups Share Portland Office

THE PORTLAND chapters of the American Institute of Architects, the American Society of Landscape Architects, the American Institute of Interior Designers, and the Producer's Council, Inc., have combined offices at Suite 200, Dekum Building, 519 S.W. Third Avenue, Portland. The combined offices are in the interest of better cooperation for service to the community.

## Landscape Board Members Appointed in Washington

SPOKANE ARCHITECT Thomas Adkison has been named to a five-year term on the newly created Washington State Board of Registration for Landscape Architects. Governor Daniel J. Evans also named A. Sidney Malbon, Bainbridge Island landscape architect for the Federal Bureau of Outdoor Recreation; C. Mason Whitney, Pullman, Washington State University landscape architect; J. D. Zachariah, Bellevue, of Lewis-Redford Engineers, and Marland D. Edwards, Olympia, to the board created by the 1969 legislature.

## Nixon Reappoints Thiry

PRESIDENT Richard Nixon has reappointed Paul Thiry, FAIA, Seattle, to a second six-year term as chairman of the National Capital Planning Commission. Thiry was appointed to his first term in 1963 by President John Kennedy.

## Mackinlay on Reynolds Jury

THE JURY for the 1970 R. S. Reynolds Memorial Award will include Ian Mackinlay, AIA, of Orinda, California. Also serving will be George Kassabaum, FAIA, St. Louis, chairman; William W. Caudill, FAIA, Houston; Samuel M. Brody, FAIA, New York, and Boyd Auger, London, England, recipient of the 1969 award. The annual award, established in 1957, offers \$25,000 and an original sculpture in aluminum.

## Rible Named to USC Post

ULYSSES FLOYD RIBLE, FAIA, partner in the Los Angeles firm of Allison, Rible, Robinson and Ziegler, Architects, has been named on a new board of councilors for the Von KleinSmid Center, University of Southern California. He is one of a group of 19 business, professional and community leaders, named to the board.

## Ventures in Design Commission to San Diego Designer



DOUGLAS DEEDS, San Diego, California industrial designer, has received a \$2,000 commission in Alcoa's Ventures in Design Program. His entry was a cylindrical core system for free-span roof structures. The system consists of two aluminum sheets bonded by a core of small aluminum cylinders, a concept that can be expanded to any length, width or thickness. Because the cylinders fit on a curve, the structure is capable of being fabricated into almost any shape, including compound curves. Deeds notes that possible applications include free-span roof structures such as arenas, churches, and marine, aircraft and industrial buildings.

Ventures in Design was introduced by Alcoa this year to recognize young designers for imaginative use of aluminum.

## Library Award Program Accepting Submissions

THE FIFTH semi-annual Library Buildings Award Program, sponsored by the American Institute of Architects in cooperation with the American Library Association and the National Book Committee, will accept submissions until January 23. Entry forms and criteria are available from Mrs. Marie Murray, manager, awards programs, AIA, 1735 New York Avenue N.W., Washington, D. C. 20006, or Mrs. Ruth Frame, library administration division executive secretary, American Library Association, 50 E. Huron St., Chicago 60611.

### Three Western Buildings Cited in AISC Annual Competition

THREE of the twelve winners in the tenth annual competition for steel framed buildings, sponsored by the American Institute of Steel Construction, are Western projects. Cited were the Seattle-First National Bank 50-story headquarters building in Seattle, designed by Naramore, Bain, Brady & Johanson; the Roscoe Mapes athletic pavilion at Stanford University on which John Carl Warnecke & Associates were architects; and the Ice House concourses San Francisco, designed by Wurster, Bernardi & Emmons, Inc.

### Flood to be Consultant

DAVID JAY FLOOD, Los Angeles architect and recreational planner, has been appointed as a special consultant to American Central Corporation, a subsidiary of International Paper Company, developers of a vacation home concept at Stratton Mountain in southern Vermont. He will retain his own firm, David Jay Flood and Associates.



### UIA Seminar on Schools in Vienna, May 24-31

AMERICAN ARCHITECTS are invited to attend an international seminar in Vienna on the emerging social role of schools. The International Union of Architects (UIA) meeting is planned for May 24-31 with Mario Celli, FAIA, Pittsburgh, as general chairman of the seminar. Speakers will include educators pioneering in the application of space systems technology and methods in building schools. Registration and information are available from the Congress Coordination Center, 9 East 38th Street, New York 10016.

### Course on Thin-Walled Shells Offered at USC in February

A TECHNICALLY-specialized short course on "Stability of Thin-Walled Shells" will be offered February 2-6, 1970 by the University of Southern California school of engineering. Designed for structural analysts, designers and engineers in mechanical, civil, aeronautical and aerospace engineering, the course will cover the most up-to-date analysis methods and design criteria in the subject area. Tuition is \$275. Further information can be obtained by contacting Noncredit Programs Office, Adm. 355, USC, University Park, Los Angeles 90007.

### Scottsdale Implements Design Review Control

THE SCOTTSDALE, Arizona, City Council has amended an ordinance to require that design of all commercial, industrial and professional buildings be approved by a design review committee. Scottsdale has for several years had design review control over buildings in specified districts, including the downtown areas. The amended ordinance broadens the scope to include all buildings except residential use structures. No other city in the Southwest has such control on construction.

### Los Angeles County Urged to Restrict Building

LOS ANGELES County officials have recommended that county supervisors pass a law forbidding the issuance of building permits in hazardous earthquake areas, as designated by the county engineer.

### FCH Opens Western Office

THE FOUNDATION of Cooperative Housing, the nation's largest private developer of low cost housing, has opened a Western regional office at 1182 Market Street, San Francisco. Senior vice president Wendell G. Addington will manage the new office.

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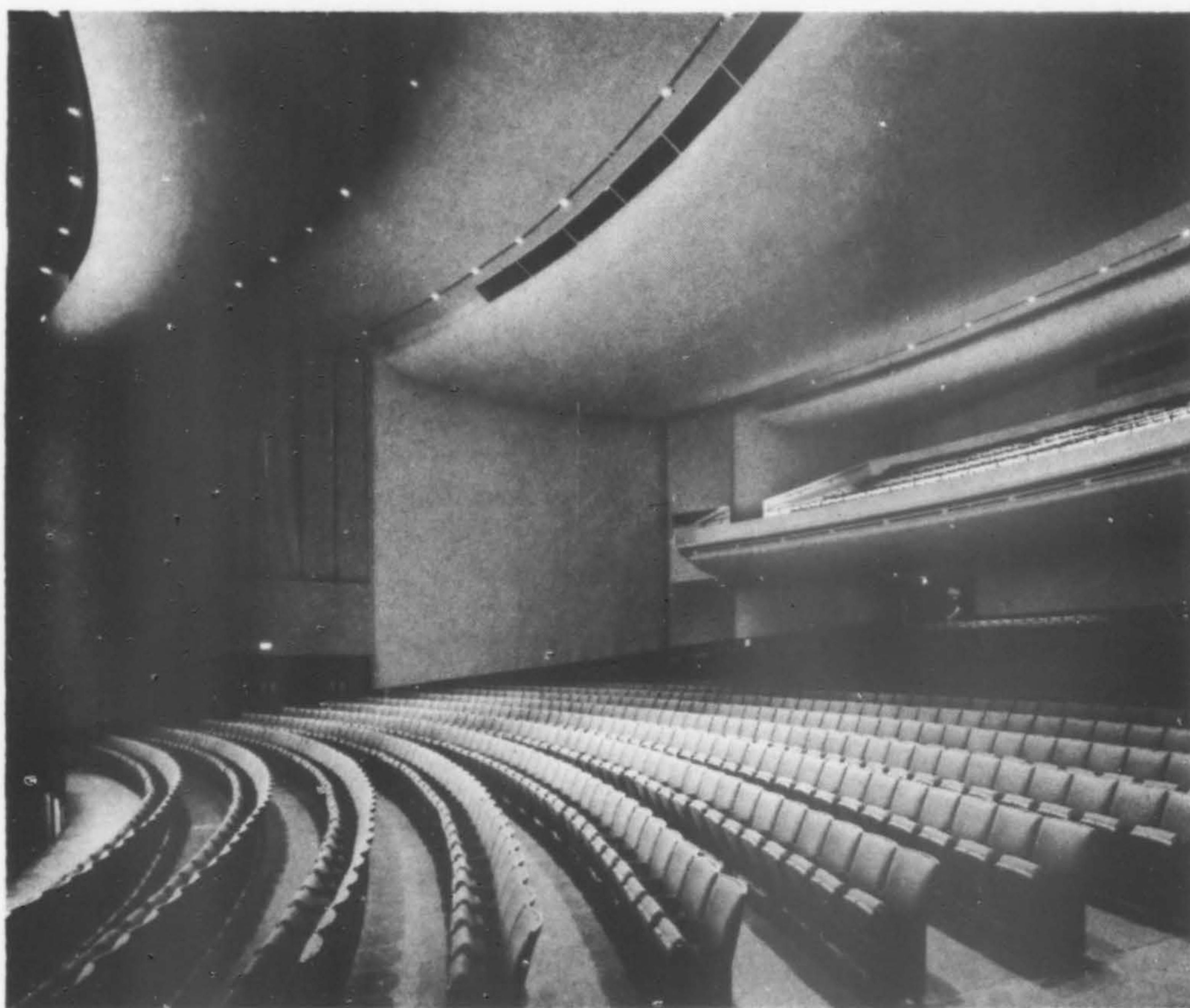
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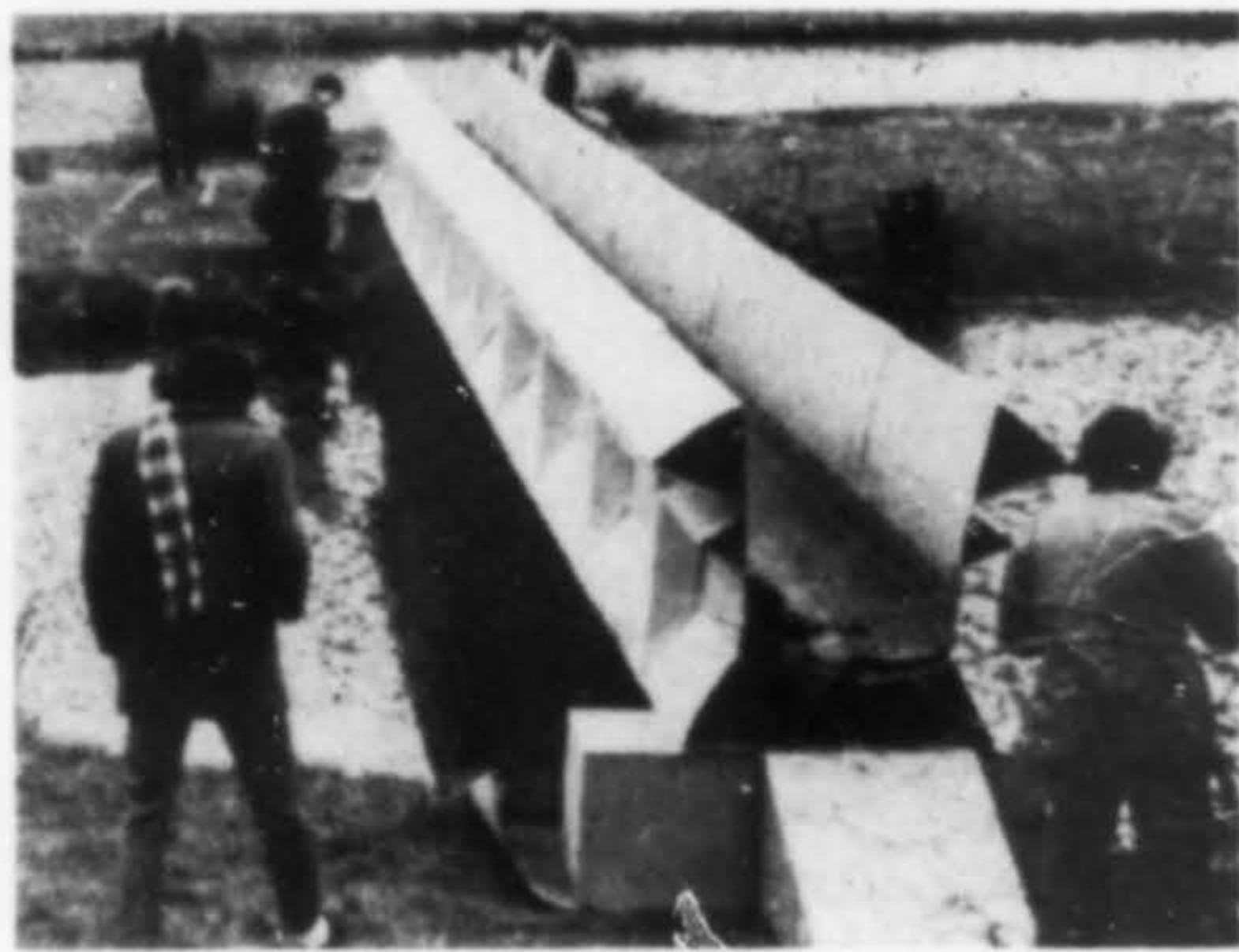
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## U. of O. Students Build 50-ft. Paper Bridge



STUDENTS in Architecture 487 at the University of Oregon, in an experiment with paper products, have built a 50-ft. bridge and a full-size A-frame shelter from large sheets of corrugated board, the same material from which shipping containers are fabricated. A series of tests were conducted by the group prior to actual construction. Using 7x10-ft., 200-lb. test, A-flute board, supplied by a Georgia-Pacific plant, plus glue and tape, the students found that the fluting acted as a truss as opposed to a series of beams. The bridge, 4.3-ft. wide by 3.5-ft. high, was supported by box beams, and tested to a point of failure. To be sure of failure, the design was extended to a 50-ft. unsupported span.

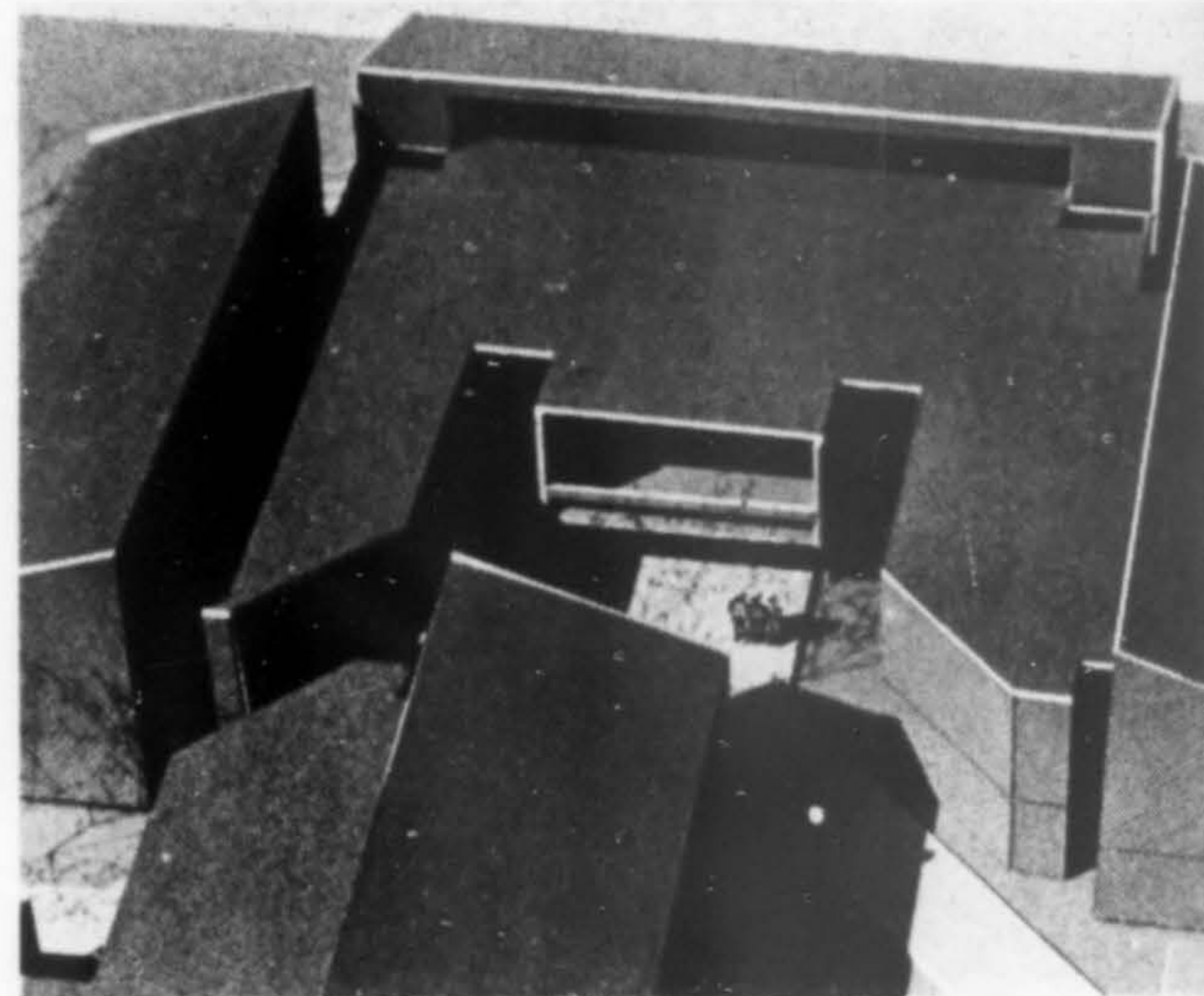
## Arizona Highways Consider Physically Handicapped

FACILITIES for the physically handicapped will be included in the new rest stop areas to be built along the interstate highway system in Arizona. Aids will feature rampways from parking areas to sidewalks, wider restroom cubicles, grab bars and rails, installation of wash basins and similar facilities at heights permitting use from wheelchairs. The Arizona State Highway Department cited national statistics showing that approximately one out of seven persons in the United States has a permanent disability. Construction on the first area is expected to start soon.

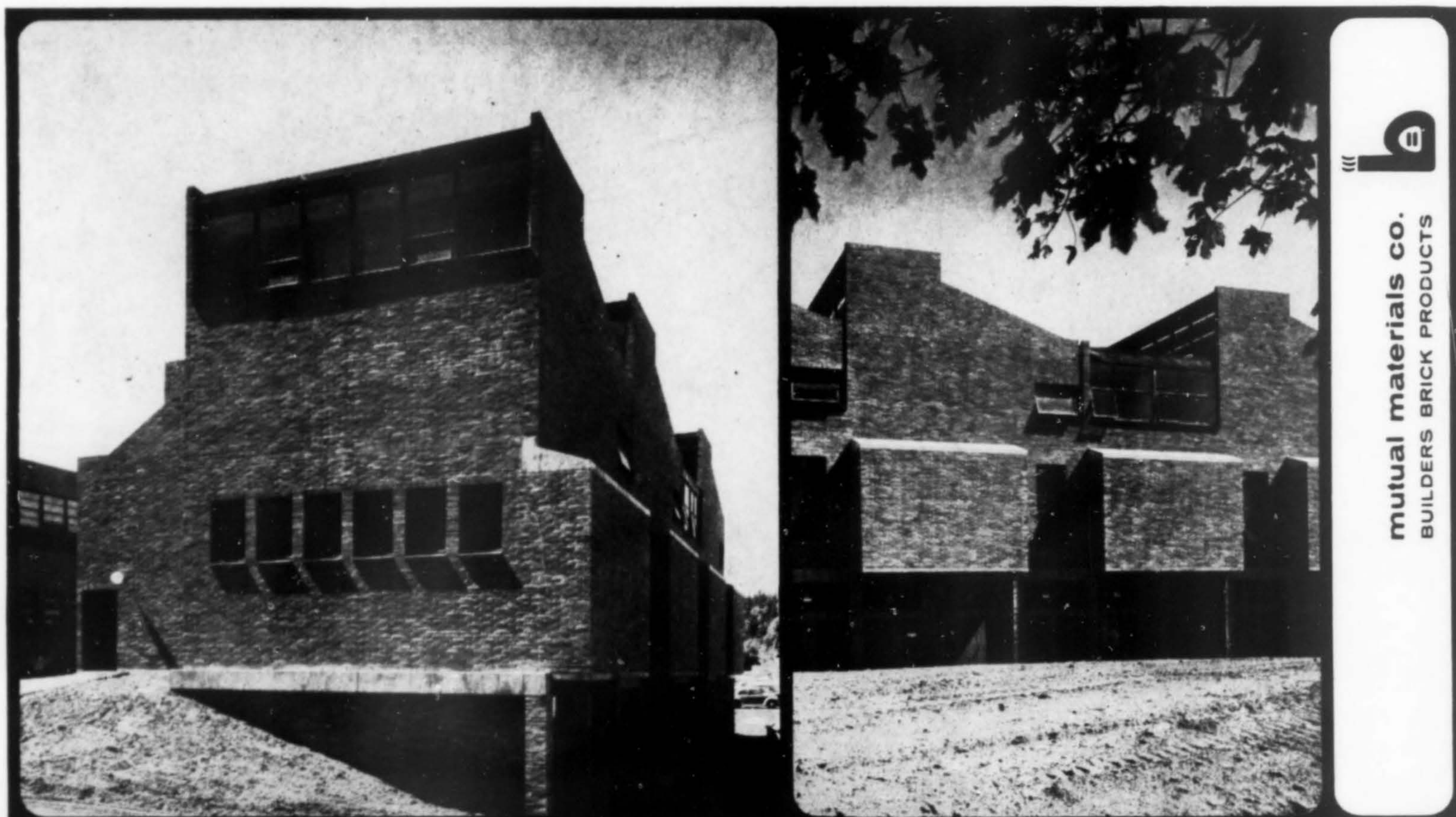
## 10,500 Homes Needed in Portland in 1970-71

THE FEDERAL Housing Administration reports that Portland, Oregon will need 10,500 new homes a year for the next two years. An additional demand of 400 units a year is expected to be met with mobile homes. The annual construction, according to the FHA, should include 6,000 single-family homes and 4,000 multi-family units. Builders anticipate that new home construction in the Portland area this next year will increase about four percent over that of 1969.

## Credits Incorrect on Dorms



CREDITS were incorrectly given on the dormitories at California State College, San Bernardino (above), when a preview item appeared on page 9 of the September issue of *Architecture/West*. The eight two-story buildings, to be constructed in small interrelating clusters around open, planted courtyards, were designed by Morganelli-Heumann & Associates. Working drawings will be provided by Harnish, Morgan & Causey. The coed dormitories will house 400 students, combining bedrooms with separate living and study rooms for 10 students. Construction will be of rewood and stucco.



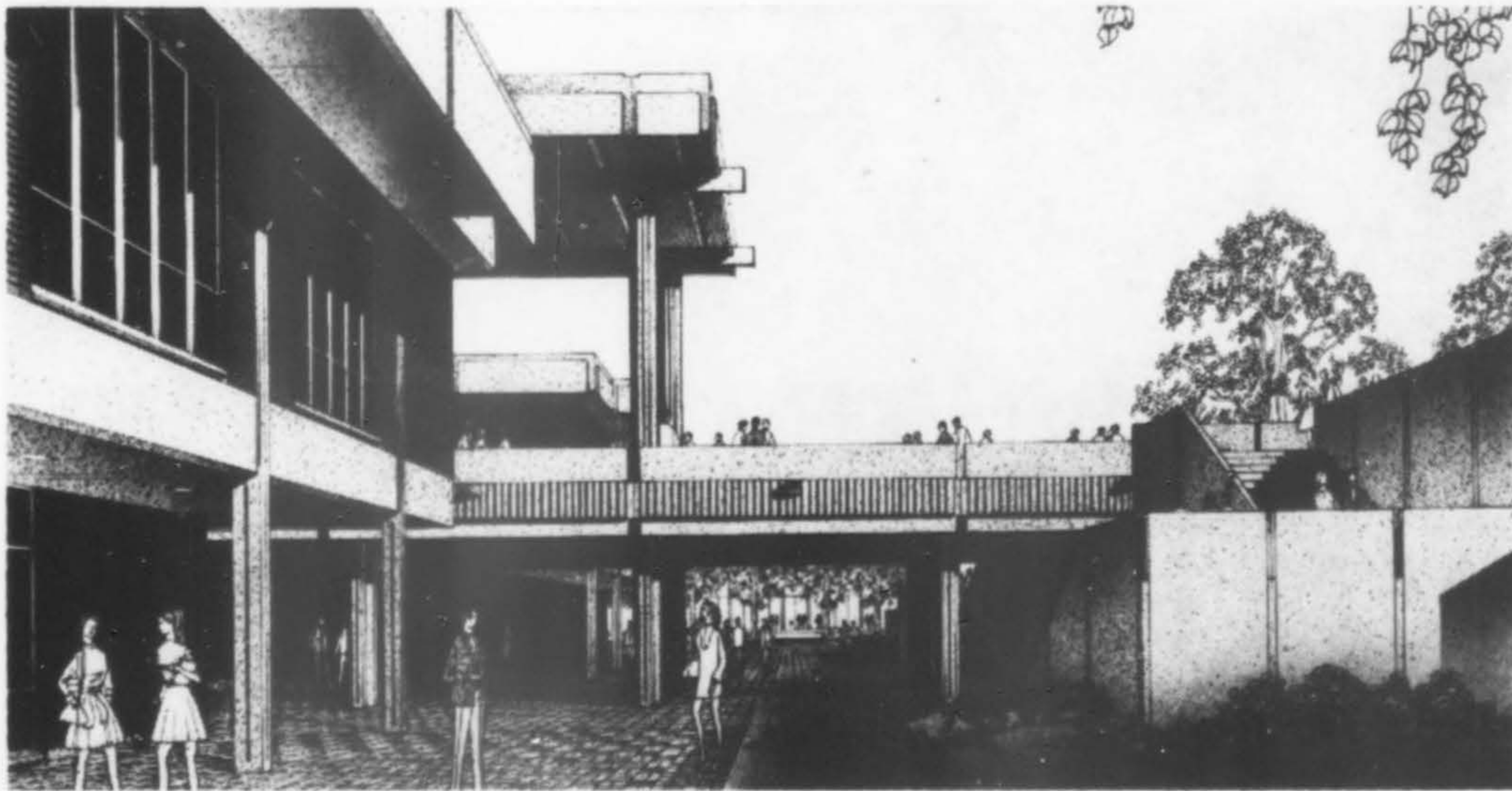
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## Preview

**CALIFORNIA STATE COLLEGE**, Bakersfield, California, is designed for an eventual peak enrollment of 12,000 full time students, projected for the year 2000. The master plan, by Gruen Associates, includes the "Live and Learn Village," a cluster of dormitories which incorporate classrooms. The new college is situated on a 375-acre site. First elements are scheduled to open in September 1970. Architects for initial building complex: Victor Gruen Associates in association with Eddy & Paynter Associates.



**COMMUNITY COLLEGE**, Edmonds, Washington, Phase IA, is a two-story building comprised of two units connected by an entrance lobby. First floor access is on grade; second floor access, from the parking area, is via a bridge into the entrance lobby at that level. Lecture rooms are two-story spaces creating a core which runs through the center of each unit with concrete bearing walls on either side. Structure exterior is integrally colored and textured concrete surfaces with brick infill panels. Concrete towers provide penthouses for mechanical equipment. Completion date: Summer 1970. Architect: Waldron & Pomeroy.

**CONVALESCENT HOSPITAL**, Burlingame, California, will be five stories, accommodate 297 beds. An interlocking room plan will minimize foot travel distance. Separate seating bays or lounges are featured in each patient's room. The roof was designed as a roof garden with recreational therapy equipment and patio space provided. Construction is post-tension concrete. Estimated cost: \$3.0 million. Completion: August 1970. Architect: Simpson & Gerber in association with Ted DeWolfe; Jackson & Nolan, contractor.



**FREEDOM BANK of Finance**, Portland, Oregon, is a structure planned for and by the black community. The two-story building abstractly reflects the culture and heritage of Africa. Roof is copper clad and the structure is sand blasted aggregate concrete. Architects: Wilmsen, Endicott, Greene, Bernhard & Associates.



# Ralphs Market goes all-electric too.

The new Ralphs Market in Covina at the Rancho Badillo Shopping Center is another example of all-electric

buildings owned by companies who want maximum value for their dollars. In case after case, going all-

electric reduces owning and operating costs substantially. Electric heat and air-conditioning systems can cut installation costs up to 50%. Operating costs also drop when money-saving electric heat recovery systems are included in the plans.

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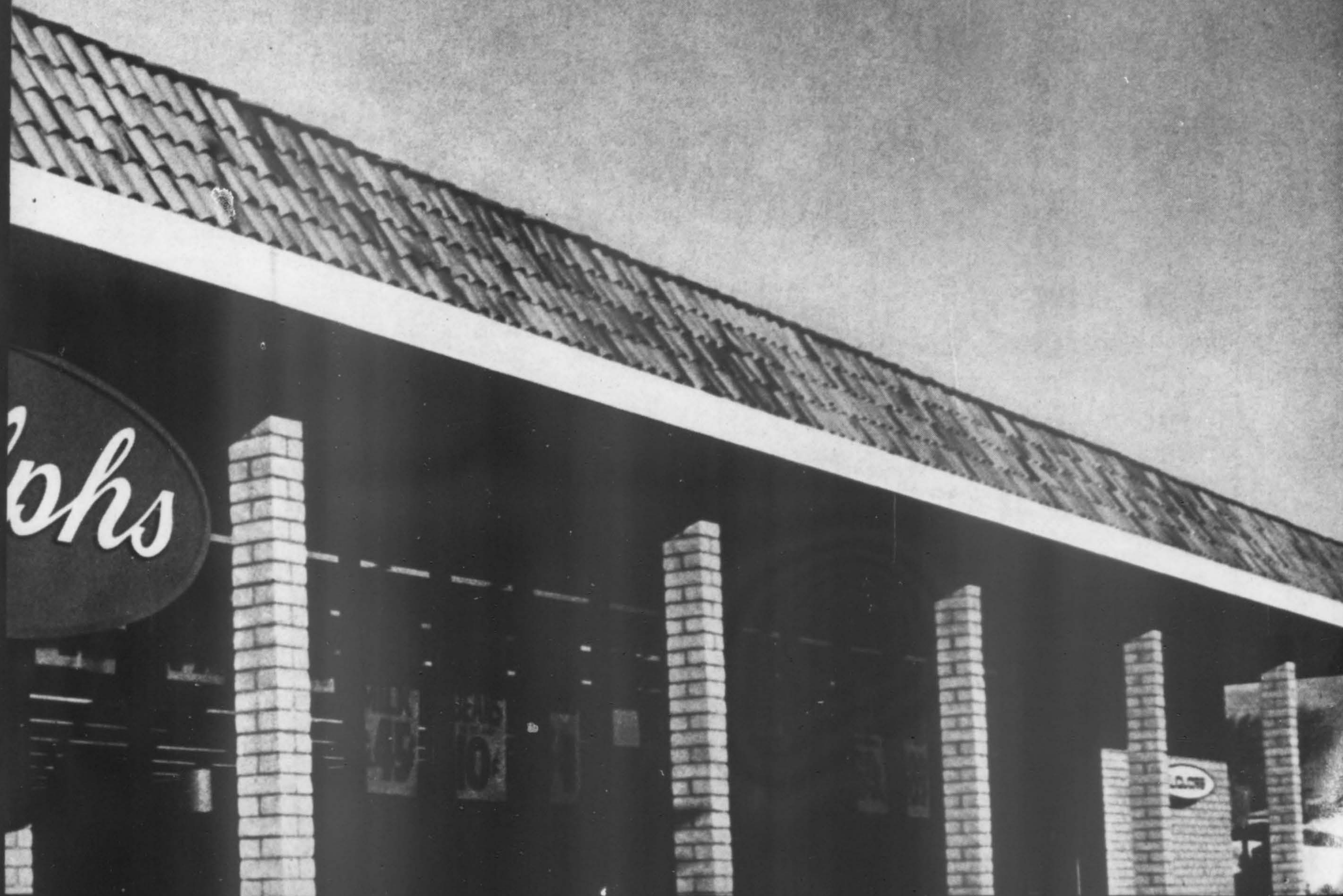
and save space. They can also work with you and provide cost and operating information on individual electrical systems for lighting, heating, air conditioning, water heating and food preparation.

Write: Marketing Engineering Department, P. O. Box 62, Terminal Annex, Los Angeles, California 90051.

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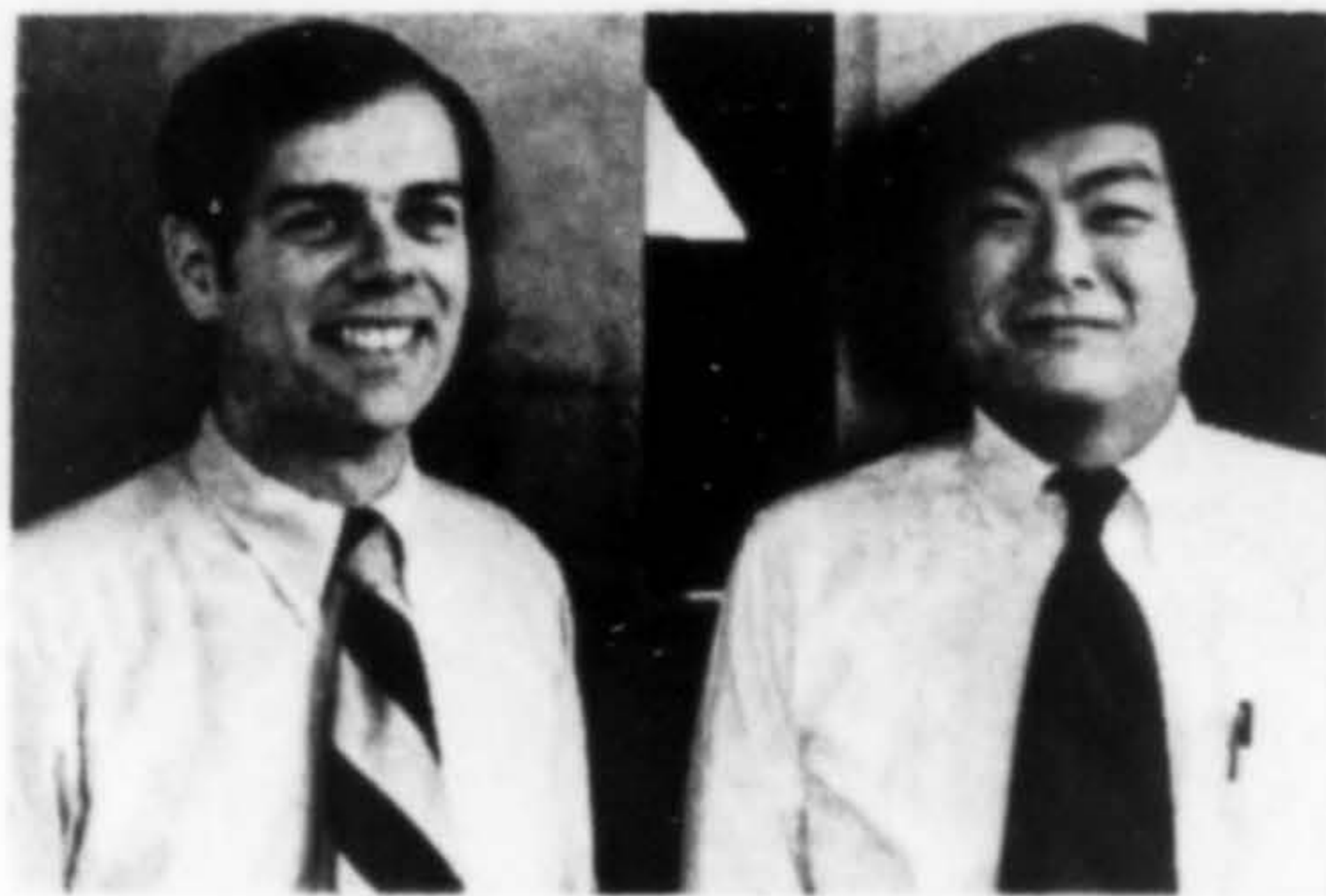


## Offices

RICHARD E. DROVER, partner in the firm of Weaver & Drover, Phoenix, announces that WALLACE E. WELCH and JAMES F. LINDLAN have become principals in the firm and a name change to: DROVER, WELCH & LINDLAN, Architects. Welch was with the firm from 1959 to 1965 when he became principal architect with the California Institute of Technology, returning in 1968 to Phoenix. Lindlan has been with the firm since 1961. Offices were recently moved to 4502 North Central Avenue. The reorganization occurred following the death of senior partner Frederick Weaver, early this year.

The San Francisco firm of Reid & Tarics, Architects and Engineers, announces the incorporation of the firm and a change in name to REID & TARICS ASSOCIATES. Principals in the firm are JOHN LYON REID and ALEXANDER G. TARICS. Named as associates are RICHARD B. CAMPBELL, JOHN E. COYLE, JOHN P. CUTLER, LEO P. T. DESTIN, HOWARD EILENBERGER, TIBOR F. FECSKES, ROBERT F. OLWELL, LILYA S. REID, PAUL SAARMAN and CHARLES F. SCHRADER. Offices are at 1019 Market Street.

HAROLD R. CARVER, AIA ARCHITECT, has opened a branch office at the Crossroads of Vail, Vail, Colorado. GEORGE OLSON and KEN WELLS, architects, will be staff members at the new location. The main office is in Arvada, Colorado.



HOBBS, FUKUI

Richard W. Hobbs Associates, Seattle, announces the naming of DAVID H. FUKUI as a partner and a change in firm name to HOBBS/FUKUI ASSOCIATES. The architecture and planning firm has moved to larger facilities at 523 Pine Street. Fukui has been with the organization since its formation in 1968. He is design consultant for ARCHITECTURE/WEST.

In a major reorganization, the architectural firm of SBC Design, Inc. has changed its name to ROBERT H. SKINNER & ASSOCIATES, and announced a program to extend services in the fields of site planning, architecture, engineering and interior design. Announcement was made by ROBERT H. SKINNER, AIA, president of the company and a former partner in the firm of Ternstrom & Skinner, AIA. RICHARD BANTA is vice president in charge of overall operation of the firm and WILLIAM BOUEY is responsible for production administration. Offices are at 11570 West Olympic Boulevard, West Los Angeles. SBC Design was formed in October 1967.

OLEG B. LOPATIN has been named a project architect for KURT MEYER & ASSOCIATES, Los Angeles.

Architect JAMES A. PURCELL has joined the Santa Barbara, California, firm of CHARLES K. SCHMANDT, Architects, as vice president of the firm. He has been most recently vice president of the San Diego firm of Deems, Lewis, Martin & Associates, Architects.

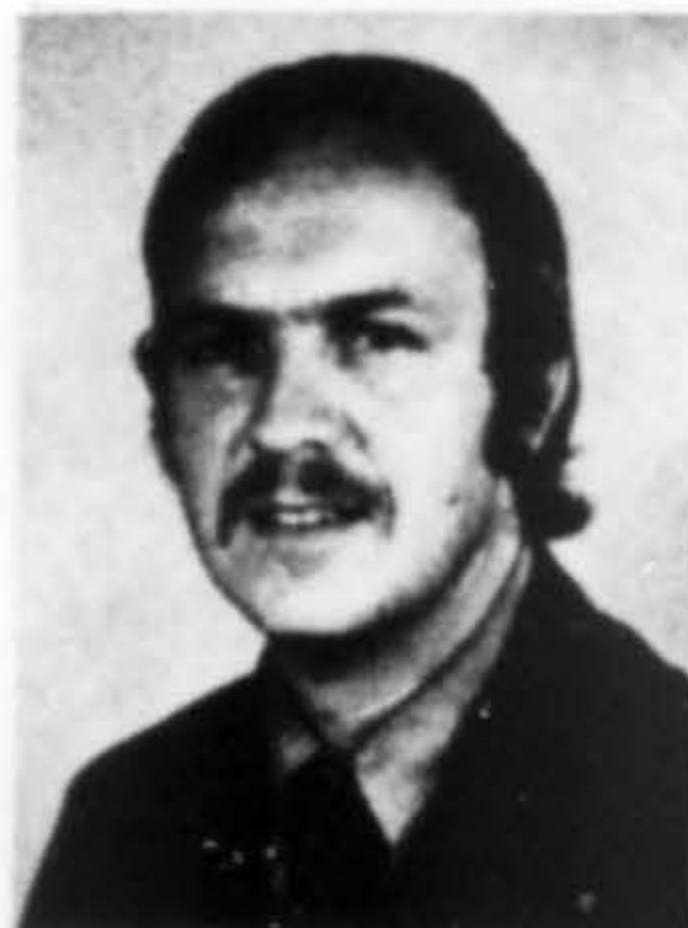


PURCELL

The Seattle firm of A. O. Bumgardner & Partners announces a change in name and the appointment of three new associates. The firm, located at 2017 Broadway E., will be known as THE BUMGARDNER PARTNERSHIP: BUMGARDNER/DREYER/WRIGHT. TED GRANGER, ROD A. KNIPPER and GARY SORTUN are associates. Principals in the firm are A. O. BUMGARDNER, ALVIN DREYER, DAVID WRIGHT.

The firm of FLATOW-MOORE-BRYAN & FAIRBURN, Inc., architects of Albuquerque, New Mexico and Phoenix, Arizona, announce the appointment of six new associates: WILLIAM O. JETTE, associate architect in the Phoenix office; LEON A. ROSS, GEORGE H. BOLLING, DONALD M. SHAFFER, associate architects in the Albuquerque office; JAMES A. INNIS and CLARENCE W. VIA, associate engineers, also in the Albuquerque office.

RONALD J. HERRON, member of the group of six British architects known as Archigram, has joined the architectural and planning firm of WILLIAM L. PEREIRA & ASSOCIATES, Los Angeles, as director of urban design. He served for eight years as senior architect with the London County Council before establishing his own practice in 1967.



HERRON

RON GOLDBERG has joined the architectural department of CTA-Architects-Engineers-Planners in Billings, Montana. He has been with John E. Toohey & Associates in Worland, Wyoming, where he was recently named an associate.



INMAN, SHETTER

The firm of WALKER/MCGOUGH/FOLTZ/ARCHITECTS, LYERLA & PEDEN ENGINEERS, Spokane, Washington, has named JACK L. SHETTER and PAUL R. INMAN as senior associates. Shetter, who has been with the firm since 1966, specializes in project management and programming. Inman will head the mechanical and electrical engineering design department.

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VAN LOM, ASHTON, BRICE

TRAVERS/JOHNSTON, ARCHITECTS AND PLANNERS, Portland, Oregon, have named architects DONALD J. ASHTON, VERNE E. BRICE and JOSEPH M. VAN LOM as professional associates, and JEANE L. MARTIN as business associate. Ashton will be responsible for the firm's technical systems and consultant coordination; Brice, in charge of specifications and technical data; Van Lom will direct progress of all projects; Mrs. Martin will coordinate all business functions.



KNIGHT

JOHN C. KNIGHT, architect, has joined the planning and architectural firm of WILLIAM L. PEREIRA & ASSOCIATES, Los Angeles, as executive architect. He was formerly associated with Welton Becket & Associates.

ADRIAN WILSON ASSOCIATES, Los Angeles, announces the appointment of SHOJI SHIMIZU as director of planning and design. He has been a member of the firm since joining one of the Japan offices in October 1951. He will be headquartered in the corporate offices in Los Angeles.



SHIMIZU

The formation of CONRAD ASSOCIATES to engage in architecture, engineering, planning and parking consultation has been effected by the merger of T. Y. LIN ASSOCIATES of Los Angeles and Chicago, and CONRAD ENGINEERS of New York and Los Angeles. Offices of the new firm will be maintained in all three cities. Officers of the company are EDWARD K. RICE, president; RAYMOND ITAYA, HOWARD R. MAY, JOHN Y. FUJIWARA and CHARLES M. BOLDON, vice presidents.



NEWELL

The Seattle firm of James A. Jessup, AIA, Architect, announces the appointment of architect ROGER H. NEWELL to partnership status and a change in firm name to JESSUP & NEWELL, AIA, ARCHITECTS. Offices are in a Lake Union houseboat at 2031 Fairview East.

WILLIAM R. MCKOWN, former community development coordinator for the city of Inglewood, California, has joined the firm of GRUEN ASSOCIATES, Los Angeles, as a specialist in city planning.

J. SHIRL CORNWALL, Salt Lake City architect, has joined Beverly Enterprises, 80 South Lake Avenue, Pasadena, California.

PAUL J. JOHANSSON has been named vice president of JOHN CARL WARNECKE & ASSOCIATES, San Francisco.



MC CAGG, VAN DER WAL, DUTHWEILER

THE RICHARDSON ASSOCIATES, Seattle, announces the advancement of four staff architects to associate members of the firm. JAMES D. COWAN has been named senior associate and assistant production director. Named as associates are EDWARD K. MCCAGG II, a member of the firm since 1964; LUDWIG DUTHWEILER, who joined the company in 1963, and COENRAAD VAN DER WAL, who has been with the firm since 1964.

BURKE, KOBER, NICOLAIS & ARCHULETA, Los Angeles-based architectural and engineering firm, has formed a multi-unit research division to coordinate marketing and financial feasibility studies with multi-unit architectural projects. SADAHIKO AKIMOTO has been named director of the new division.



AKIMOTO

The following change of address notices have been received:

C. A. BAYLON & COMPANY—Suite 3, 1600 149th Pl. N.E., Bellevue, Wn.

DON MUNTZ & ASSOCIATES—700 La Vereda, La Habra, Calif., from Los Angeles.

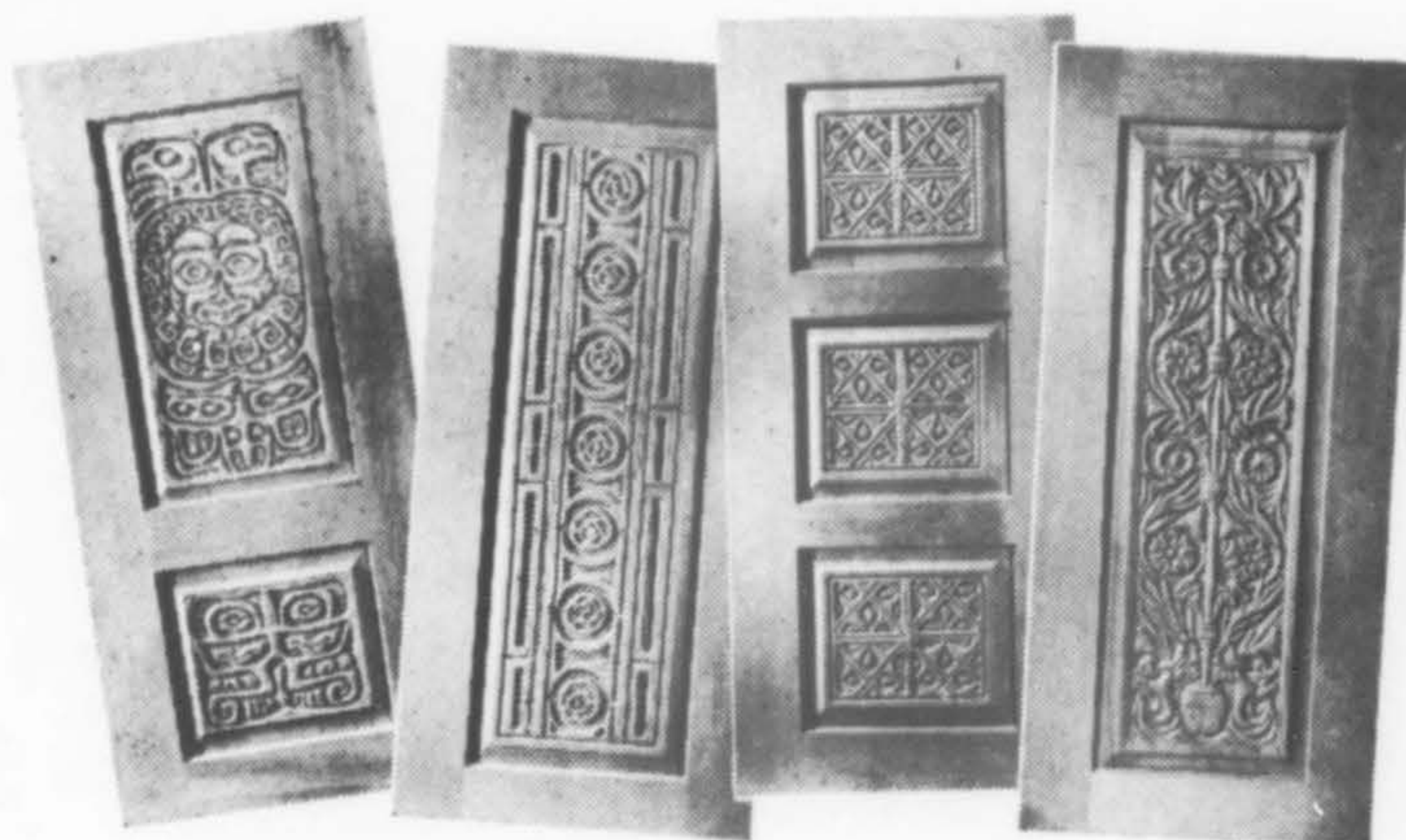
JAMES A. GRESHAM—6601 E. 22nd Street, Tucson, Arizona.

ALFRED WATTS GRANT, AIA—97 Old Broadmoor Road, Colorado Springs.

HOOPS-GARDINER-VAN OSOL, Architect, Planners, Engineers—11661 San Vicente Blvd., Los Angeles, from Ventura, Calif.

PETER KAMPF—22 Park Avenue, Irvington, New York, from Orinda, Calif.

F. WAYNE WHITE, ARCHITECT—111 South Pearl, Ellensburg, Wash.



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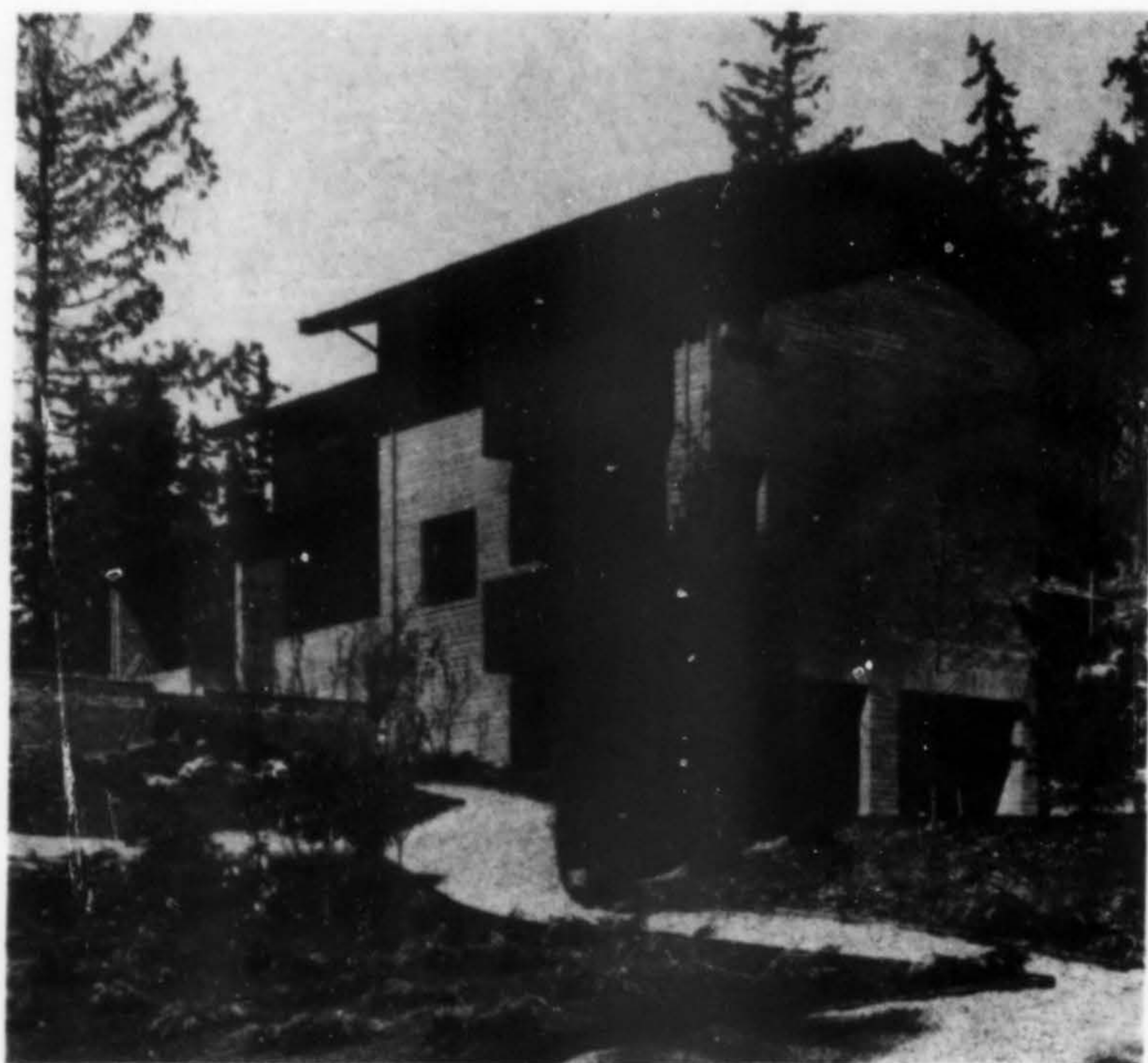
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## Organizations

Officers and directors of the SOUTHERN CALIFORNIA CHAPTER, AIA, 1970; ROBERT ALEXANDER, president; ARTHUR MANN, vice president; JAMES PULLIAM, secretary; CHARLES KANNER, treasurer; REDMOND COGHLAN, RICHARD DORMAN, RAYMOND KAPPE, KURT MEYER, ARTHUR SILVERS, EVERETT BERTOIA and WILLIAM PAYNTER, directors.

The PORTLAND CHAPTER, Inc., AIA, has elected the following: ROGER SHIELS, president; RICHARD NORMAN, vice president; STEVE JOHNSTON, secretary; JOHN HINCHLIFF, treasurer; ALLEN GREENE and PATRICK LOUKES, directors; Ken WALLIN, GARY MICHAEL and FRED RUDAT, hold-over directors; JACK ANNAND, TOM POTTER, JOHN MASLEN, Oregon Council delegates.

THE SEATTLE CHAPTER, AIA, has named the following to office for the 1970 term: ROBERT NIXON, president; EDWARD BURKE, first vice president and president-elect; OMER MITHUN, second vice president; ANTON MUELLER, secretary; DONALD WALLACE, treasurer; DAVID HODEMAKER, PHILIP JACOBSON, DAVID WRIGHT, AUSTIN GRANT, JAMES COWAN, WILLIAM BAIN, JR., directors.

HAWAII CHAPTER, AIA, has elected the following officers: GERALD L. ALLISON, president; JOSEPH G. F. FARRELL,



FARRELL, ALLISON, SUTTON, DURLAO

vice president and president-elect; DON C. W. DURLAO, secretary; CHARLES R. SUTTON, treasurer; SIDNEY SNYDER and GILMAN HU, directors.

HERBERT LUKE, OWEN CHOCK and GEORGE KEKOOLANI will continue to serve as directors.

The SOUTHWEST WASHINGTON CHAPTER, AIA, has elected the following officers: MARY LUND DAVIS, president; HARRY BERRY, first vice president; ROBERT ECKERT, second vice president; RON ROWE, secretary, DUANE BERG, treasurer; TED LITZENBERGER, ROY LUNDGREN, IRVING FLOTREE and JAMES MCGRAHANAN, directors.

Officers of the COLORADO CENTRAL CHAPTER, AIA, for 1970 are: WILLIAM C. MUCHOW, president; VICTOR HORNBEIN, first vice president; ARTHUR J. BUSH, JR., second vice president; PATRICK W. DULANEY, treasurer.

EAST BAY CHAPTER, AIA (California) has elected the following to office; KENNETH CARDWELL, president; LEE DARRROW, vice president; HAIG ASHJIAN, secretary; TED MILHOUS, treasurer; BURNS CADWALDER, GEORGE LARSON, ROBERT ODERMATT, JACOB ROBBINS, PAUL KELLY, directors; ROBERT DURST, BILL HULL, JOHN TAKEUCHI, CCAIA delegates.

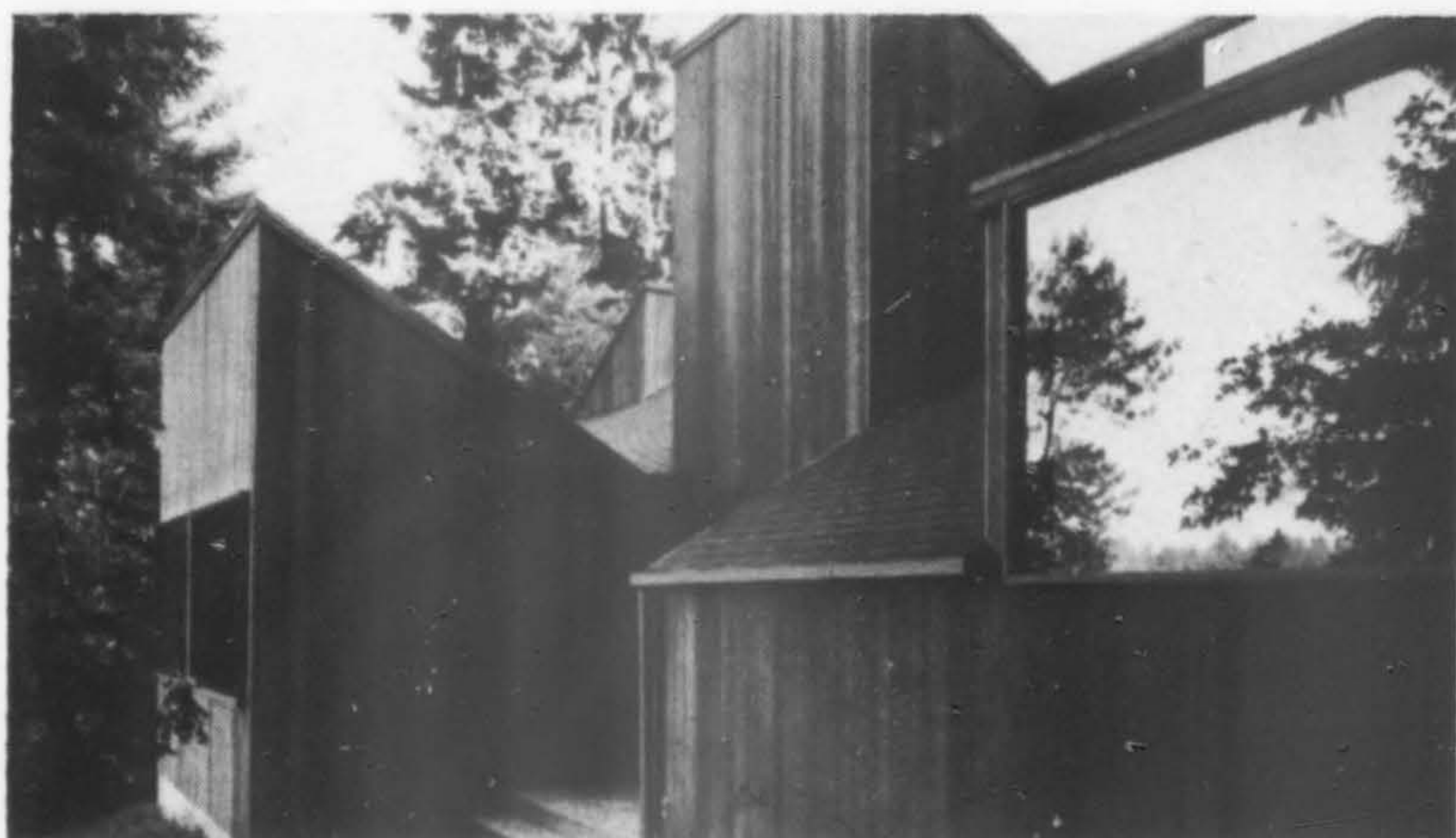
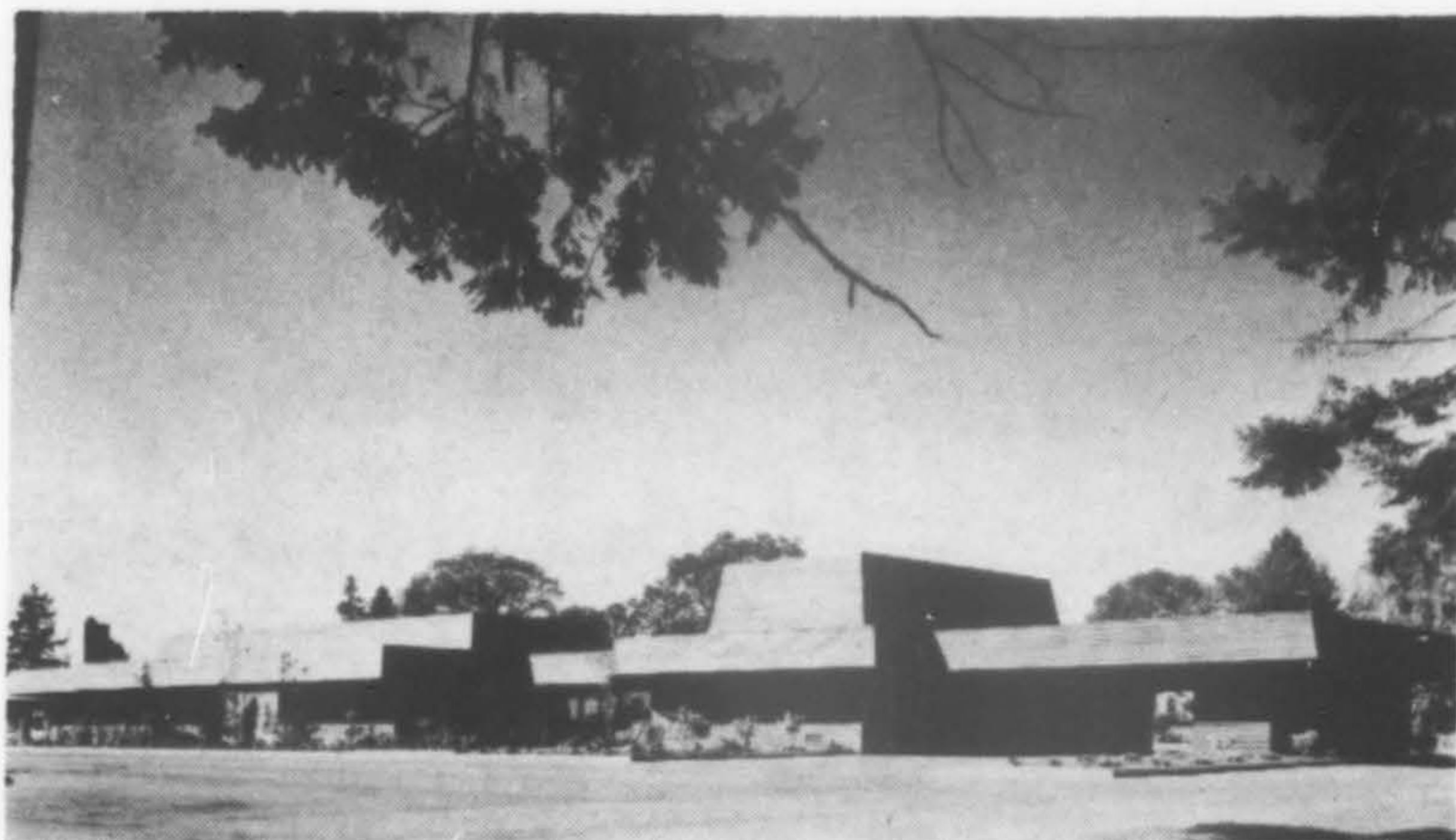
ROBERT E. FEHLBERG, partner in CTA architects-engineers-planners, Billings, Montana, has been elected president of the BILLINGS ARCHITECTURAL ASSOCIATION. Other officers are: CHARLES SUMMER, Graham Associates, vice president; TOM REGAN, J. G. Link & Company, secretary-treasurer.

The SOUTHWESTERN OREGON CHAPTER, AIA, has named the following to office for 1970; ROBERT S. HARRIS, president; JON KAHANANUI, vice president; DARREL L. SMITH, secretary; RICHARD G. WILLIAMS, treasurer; ROBERT FRITSCH, MIKLES METZGER, JAMES BERNHARD, directors; P. DANIEL READ, delegate to Oregon Council of Architects. All are Eugene, Oregon residents with the exception of Metzger and Read who are from Corvallis.

**Eight Buildings Honored  
by Southwest Washington AIA**

FOUR OF the eight awards in the Southwest Washington Chapter, AIA, honors program were captured by one firm, Harris, Reed & Litzenberger. Jurors, all architects, were David Hodemaker, Seattle; Bruce Walker, Spokane; William Church, Portland. Mary Lund Davis was chairman of the 1969 competition.

**BROOKSIDE MORTUARY**, Tacoma. Honor Award. Harris, Reed & Litzenberger, architect.

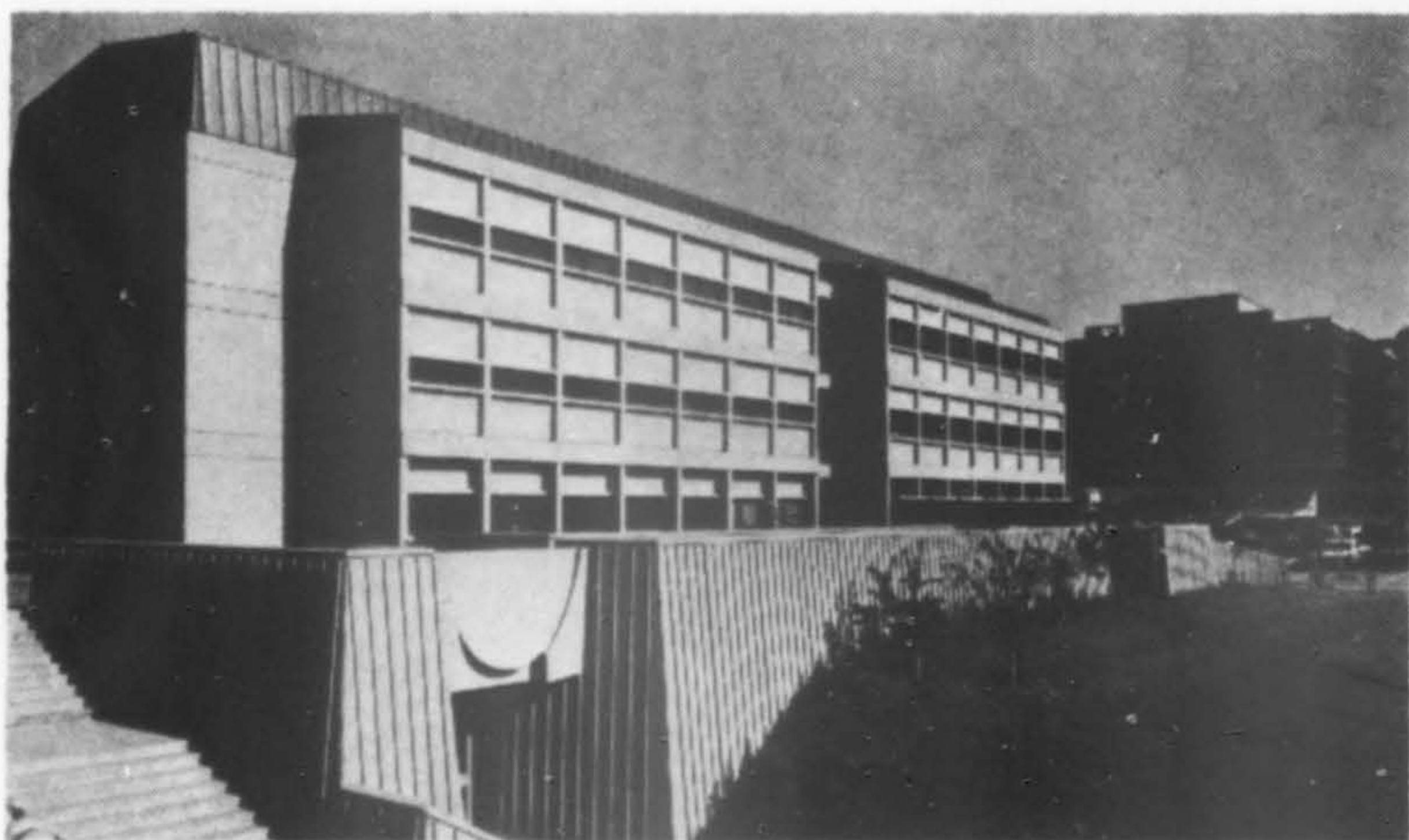


**LIDDLE RESIDENCE**, Tacoma. Honor Award. Alan Liddle, architect.

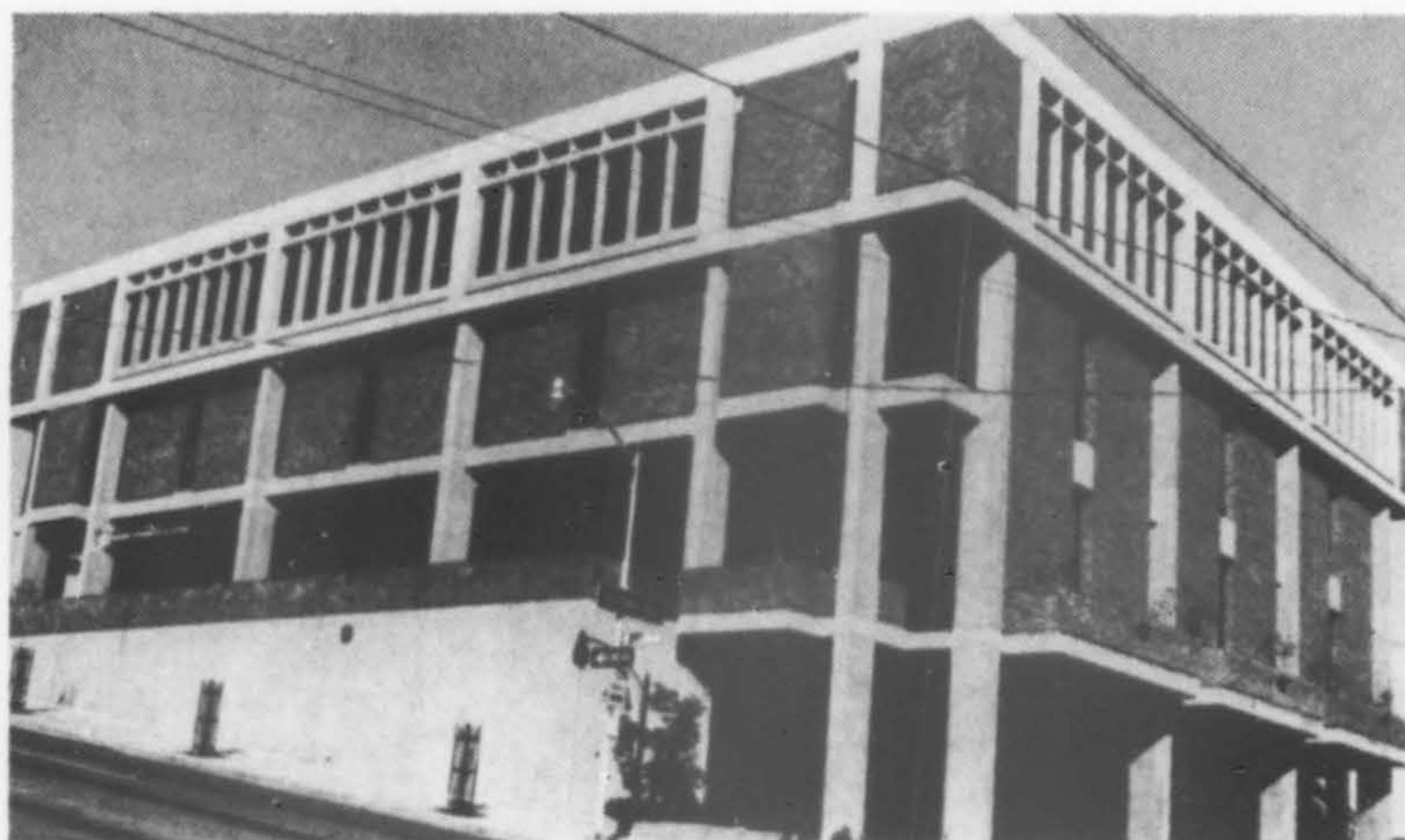


**YOUNGER RESIDENCE**, Cosmopolis. Honor Award. Street & Lundgren, architect.

**OCEANOGRAPHY Building**, University of Washington, Seattle. Honor Award. Liddle & Jones, architect.



**STATE SAVINGS & LOAN**, Tacoma. Honor Award. Johnson/Austin/Berg Associates, architect.



**SOUTHWELL'S Schwinn Cyclery**, Tacoma. Merit Award. Harris, Reed & Litzenberger, architect.



**GOVIG RESIDENCE**, Parkland. Merit Award. Harris, Reed & Litzenberger, architect.



**GLACIER GAUGING Station**, South Cascades. Merit Award. Harris, Reed & Litzenberger, architect.

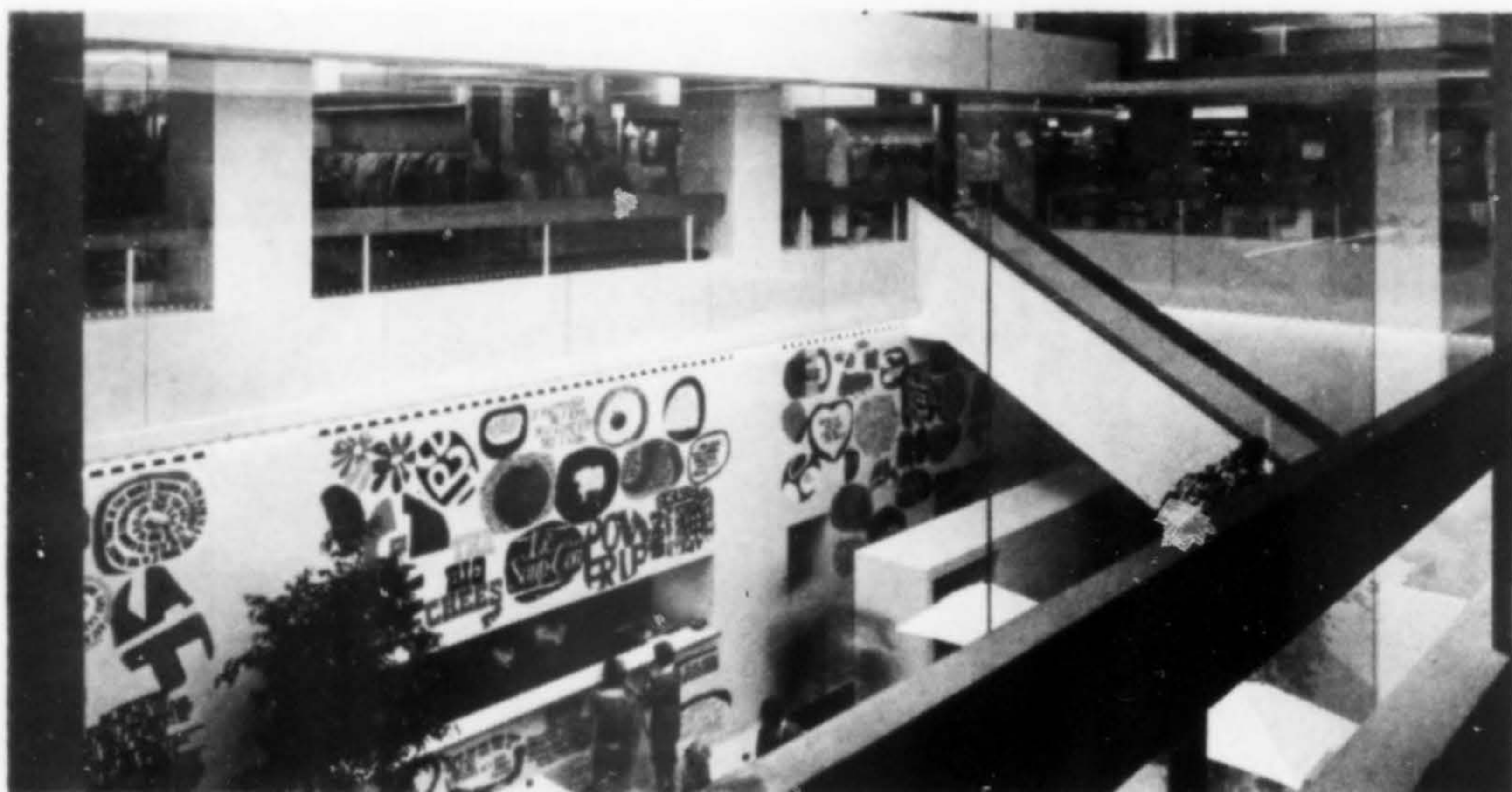


## Southern California AIA Triennial Program Cites 12 Buildings

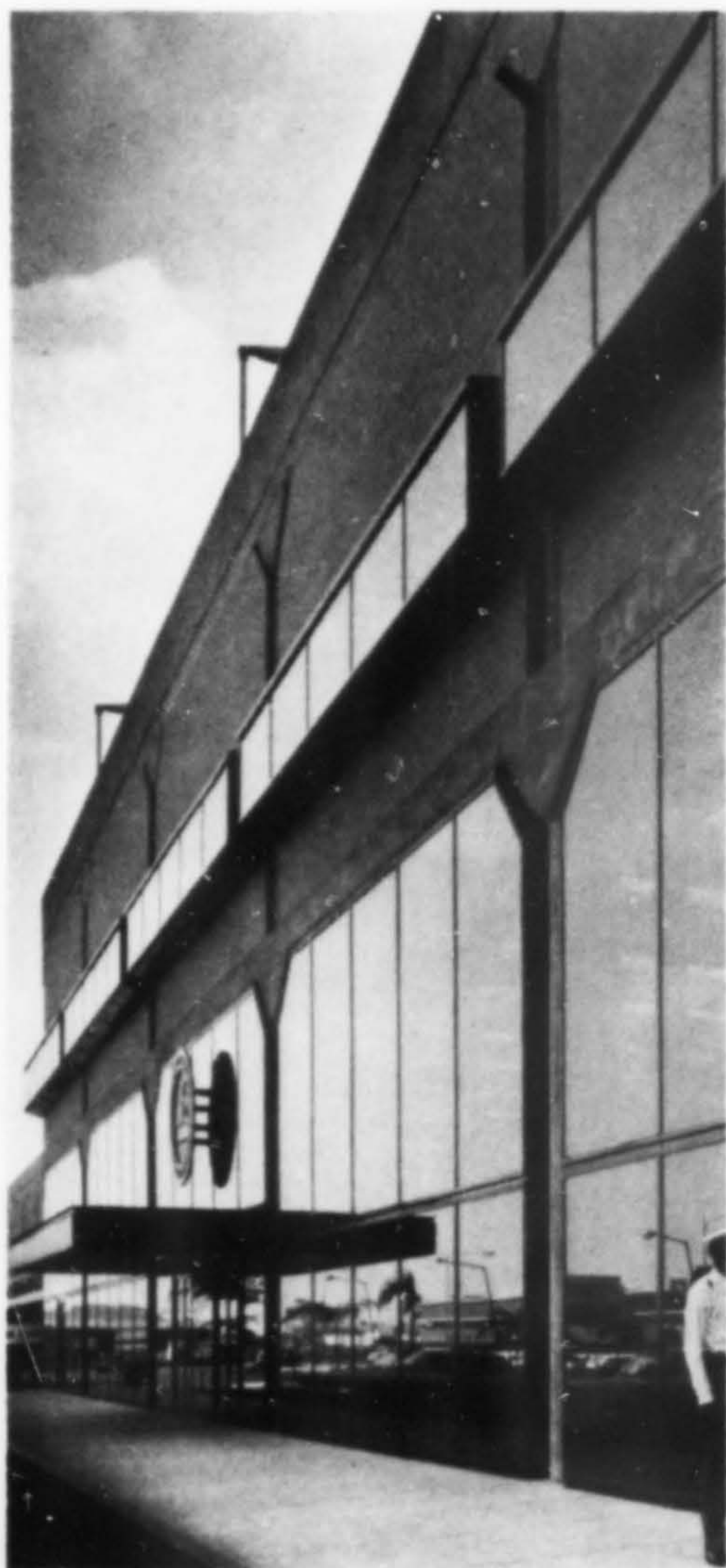
TWELVE BUILDING projects were cited in the triennial awards program of the Southern California Chapter, AIA. More than 125 entries were judged by a jury composed of: Elisabeth Thompson, FAIA, San Francisco; Charles Bassett, AIA, San Francisco; Harwood Taylor, FAIA, Houston. The jury commented: "The value of any awards program is to set standards for design and for community recognition which developers of future buildings will take seriously. . . . The buildings are examples of work of which the architects and the cities . . . should be proud."



**THE STEPHEN S. WISE TEMPLE**, Los Angeles. Honor Award. Daniel L. Dworsky, FAIA & Associates, architects.



**JOSEPH MAGNIN Store**, Costa Mesa, California. Honor Award. Frank O. Gehry & Associates, architects.



### MERIT AWARDS:

**Hollywood Wilshire District Health Center**; Honnold, Reibsamen and Rex, architects.

**"The Barn,"** Jones residence, West Los Angeles. A. Quincy Jones, FAIA, and Frederick E. Emmons, FAIA, architects.

**Kengott-Brossmer Studio**, Los Angeles. Carl Maston, FAIA, architect.

**1900 Avenue of the Stars Building**, Century City. Albert C. Martin, FAIA & Associates, architect.

**Evco Building**, Hollywood. Leroy B. Miller, architect.

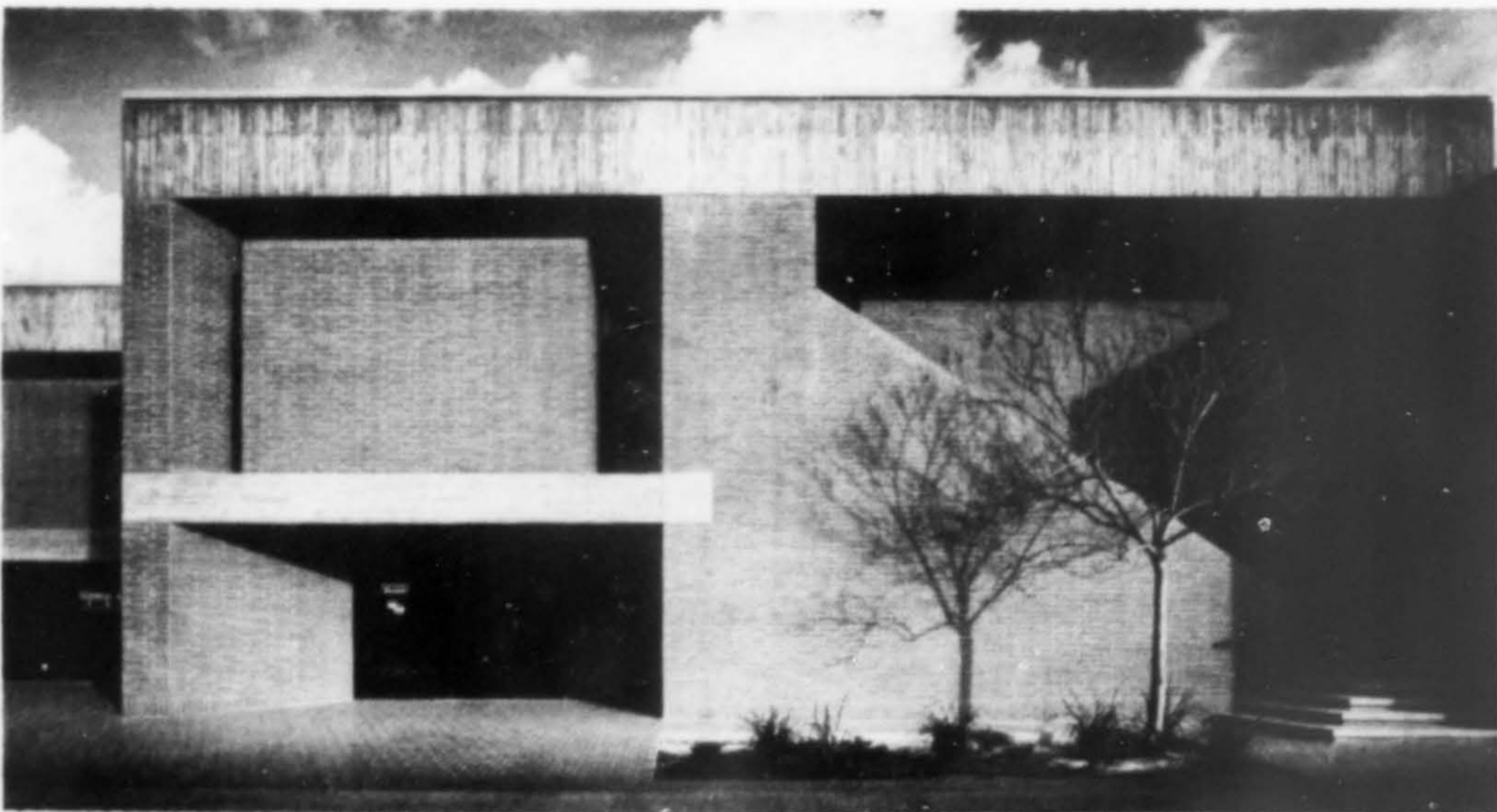
**Computer Center**, Newbury Park. Maxwell Starkman & Associates, architects.

**Third Street Tunnel**, Los Angeles. Daniel, Mann, Johnson & Mendenhall, architects.

**Thrifty Drug Store**, Beverly Hills. Daniel Dworsky, FAIA & Associates, architects.

**WORLDWAY POSTAL CENTER**, Los Angeles International Airport. Honor Award. Daniel, Mann, Johnson & Mendenhall, architects.

**EQUITABLE SAVINGS & LOAN** branch, Long Beach, California. Honor Award. Daniel L. Dworsky, FAIA & Associates, architects.



## Orange County, AIA, Honors 16 Buildings in Program

THE ORANGE COUNTY (California) Chapter, AIA, biannual program named three projects for Honor Awards and 13 for Merit Awards. Jurors were Frederick E. Emmons, FAIA; Donn Emmons, FAIA, and Eugene Nowlen.

**MERIT AWARD** winners were: the Rinker residence, Ellerbroek-Koteles, architects; George Hall residence, Ron Yeo, architect; Bray Medical building, Fred M. Briggs, architect; R. A. McCormack residence, David Klages, architect; California Computer Products, Inc., Grillias-Savage-Alves, architects; Residence Hall Unit 2, University of California Irvine, Grillias-Savage-Alves, architects; Dynamic Environment Test Facility Jet Propulsion Laboratory, California Institute of Technology NASA, Grillias-Savage-Alves, architects; Saddleback High School, William Blurock & Partners, architects; Orange Coast College Library, William Blurock & Partners, architects; Buena Park Main Library, William L. Pereira & Associates, architects; Irvine Towers, William L. Pereira & Associates, architects; Huntington Pacific Apartments, William L. Pereira & Associates, architects; Santa Ana Fire Training building, Burrows-Allen-Knowles, architects; County of Orange Law Library, Burrows-Allen-Knowles, architects.

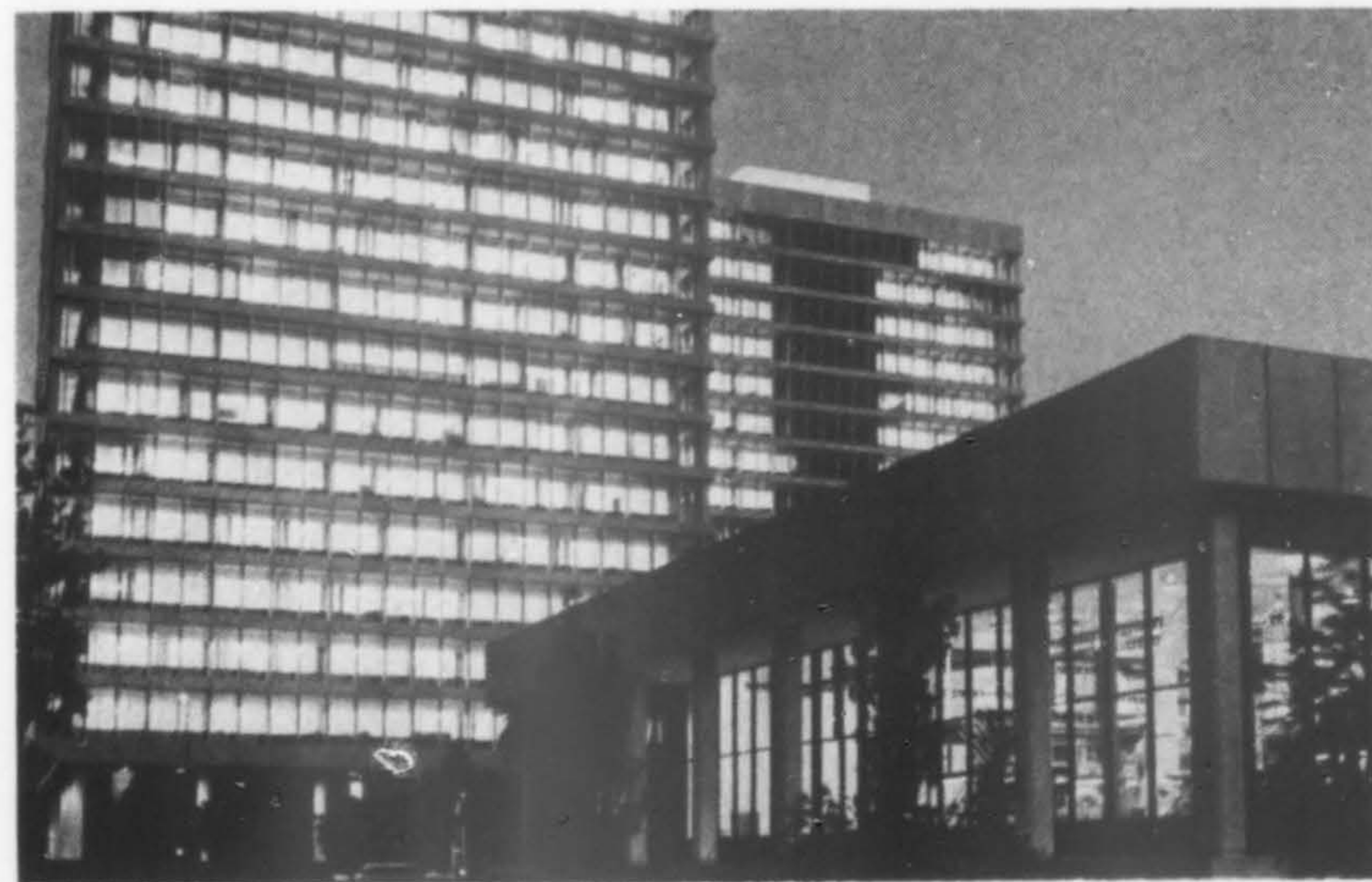
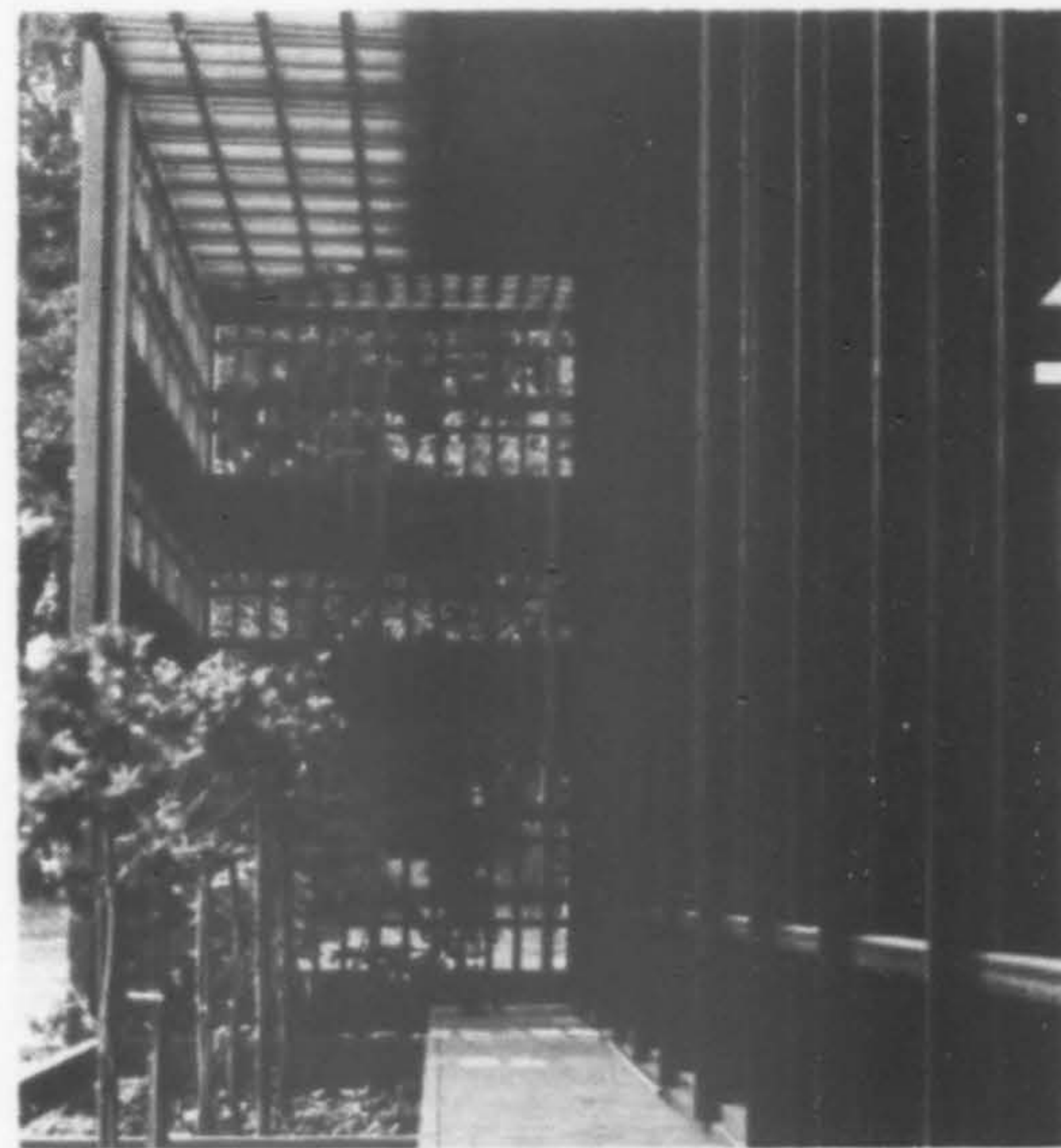
**LOS ANGELES TIMES** satellite plant, Costa Mesa. Honor Award. William L. Pereira & Associates, architects.

**KNOWLES RESIDENCE**, Palos Verdes. Honor Award. Burrows-Allen-Knowles, architects.



**KXTV Studios**, Sacramento. Honor Award. Starks, Jozens, Nacht & Lewis, architects. (A/W, Feb. '69)

**BUHLER MORTGAGE** building, Sacramento. Honor Award. Dean F. Unger & Associates, architects.

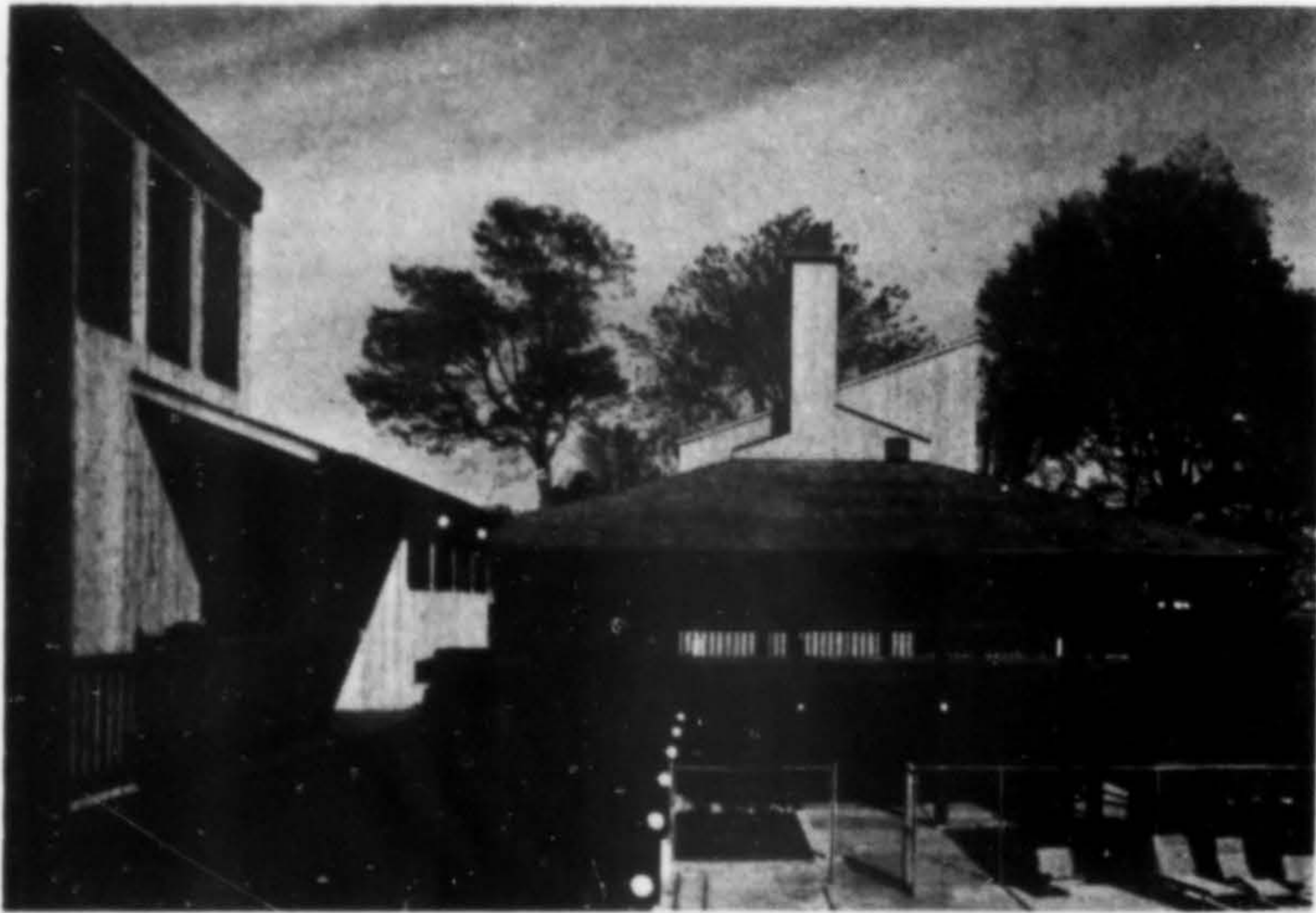


**OFFICE BUILDINGS** No. 8 and 9, Department of General Services, State of California. Honor Award. Office of Architecture & Construction, Fred Hummel, state architect, with Skidmore, Owings & Merrill, design consultants.

## Central Valley, AIA, Citations

THREE HONOR Awards and six Merit Awards were presented in the Central Valley (California) AIA chapter bi-annual program. Jurors were Vernon DeMars; George J. Hasselein, and Edward A. Killingsworth.

**MERIT AWARDS:** Sheet Metal workers school, Higgins & Davidson, architects; Central Heating and Cooling Plant, Office of Architecture & Construction, Fred Hummel, state architect, with Skidmore, Owings & Merrill; John F. Kennedy Senior high school, Stafford & Peckinpaugh, architects; and three buildings by Dean F. Unger & Associates—The California State Automobile Association, Planteen Residence and the Central California Federal Savings & Loan Association.



### Seattle Chapter, AIA, Honors Six Projects

A JURY of three architects, a city planner, and a research engineer selected three projects for Honor Awards and three for Merit Awards in the 1969 annual competition of the Seattle Chapter, AIA. A total of 21 firms submitted entries. Jurors were architects Paul Thiry, FAIA, Robert Frasca and Alan Liddle; Jack Robertson, engineer, and Einer Syvertsen, planner. Chairman for the 1969 program was Gary L. Shavey.

**BEACH CLUB**, Port Ludlow, Washington. Honor Award. A. O. Bumgardner & Partners, architects.



**OUR SAVIOR'S** Lutheran Church, Everett, Washington. Honor Award. Grant, Copeland, Chervenak, architects.



**ENGINEERING LIBRARY** and Loew Hall, University of Washington. Honor Award. Fred Bassetti & Company, architects.

**GRAHAM RESIDENCE**, Clyde Hill, Washington. Merit Award. Hobbs/Fukui Associates, architects.



**FINE and APPLIED ARTS** Building, Central Washington State College, Ellensburg. Merit Award. Kirk, Wallace, McKinley & Associates, architects.



**COLLEGE PLACE** Medical-Dental Center, Lynnwood, Washington. Merit Award. Mithun & Associates, architects.







## Where the Architects Hang Their Hats

**HOBBS/FUKUI ASSOCIATES**  
Seattle, Washington

you have the foundation of a new architectural firm. Richard W. Hobbs and David H. Fukui, who joined forces in 1968, are products of the University of Washington school of architecture. Like many young architects, they are involved in community and professional affairs.

Their immediate needs were: inexpensive office space; a way to divide said space in an interesting manner; and the means to establish a firm. The solution came with the renting of an abandoned second-floor music studio in an old theater, showing sex films, near city center. Space was divided with 1,000-lb. puncture corrugated cardboard, providing an economical and flexible element within the space. The cardboard was located at a diagonal to the space and cut-outs were punched for interest. The means to establish the firm came with the winning of three design awards.

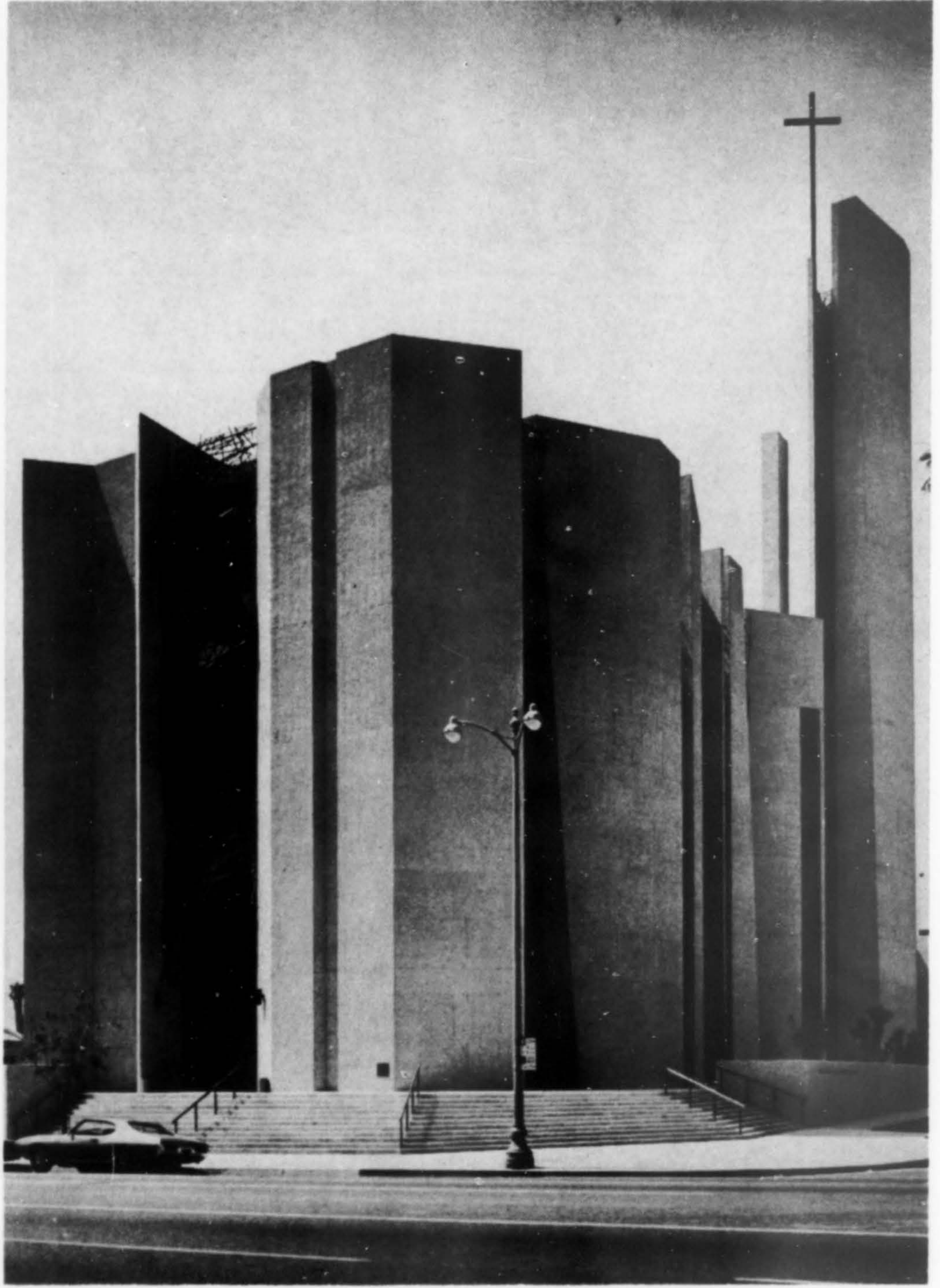
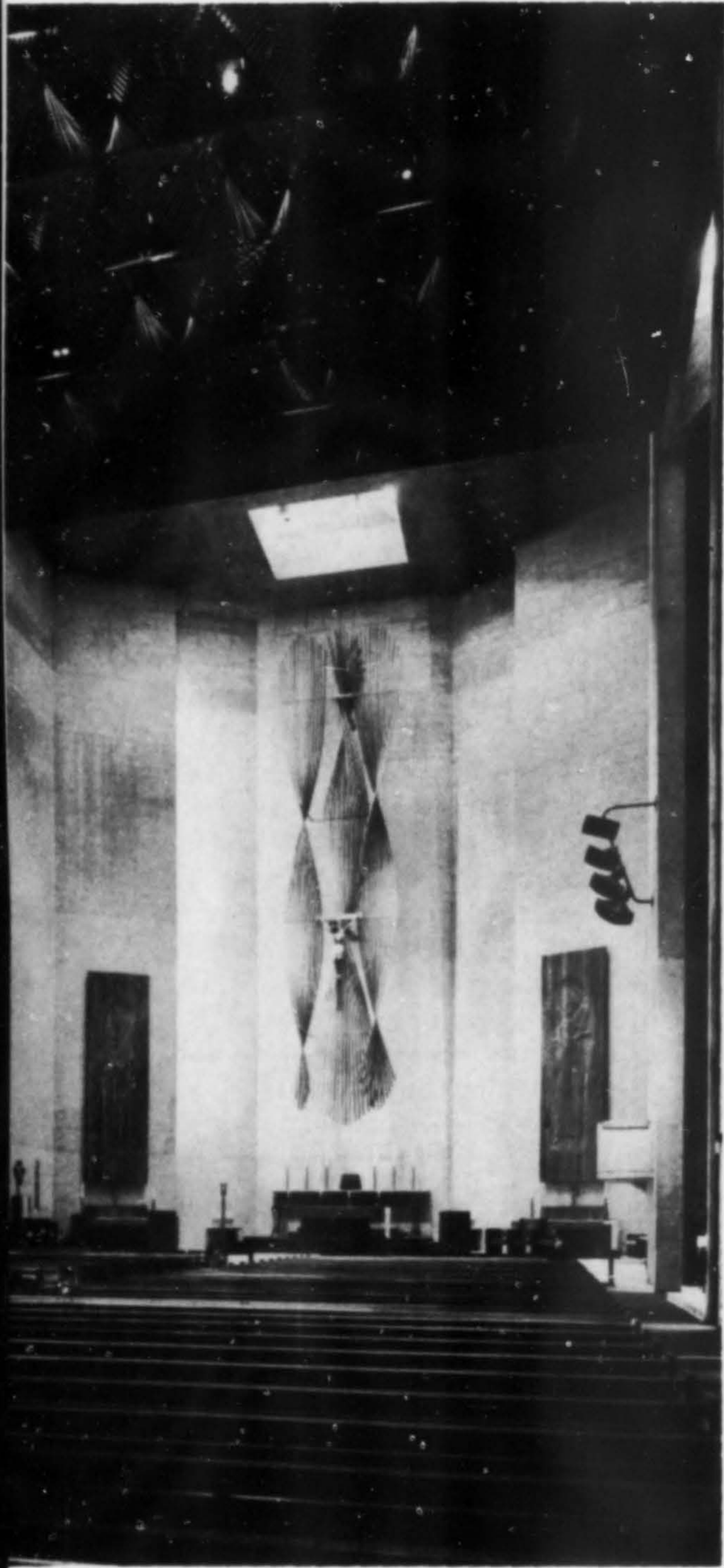


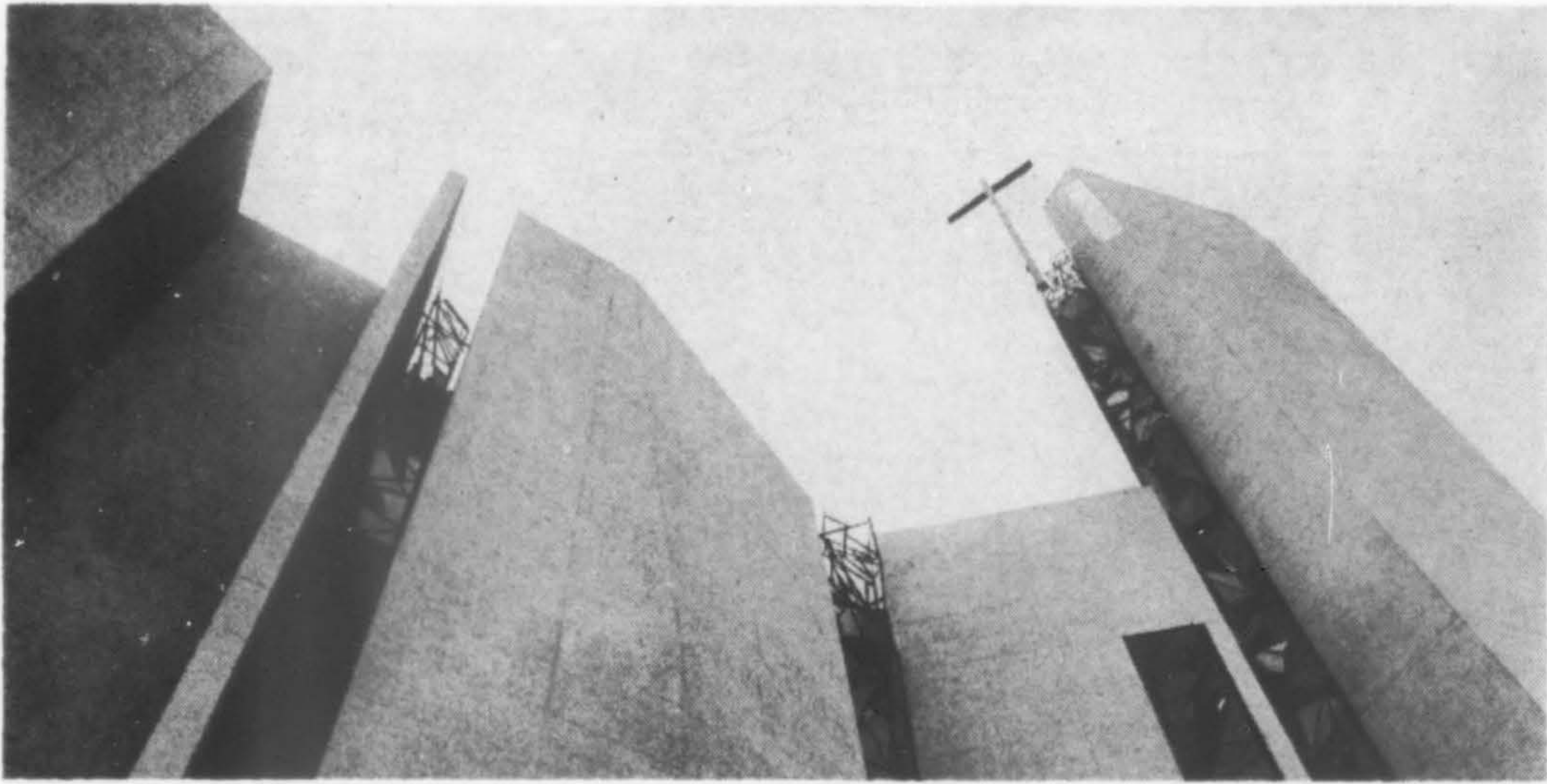
David H. Fukui photo

TAKE TWO talented young architects (under 30), a shoestring (a bit worn) and the desire to be on their own, and

Art Hupy photos unless otherwise noted







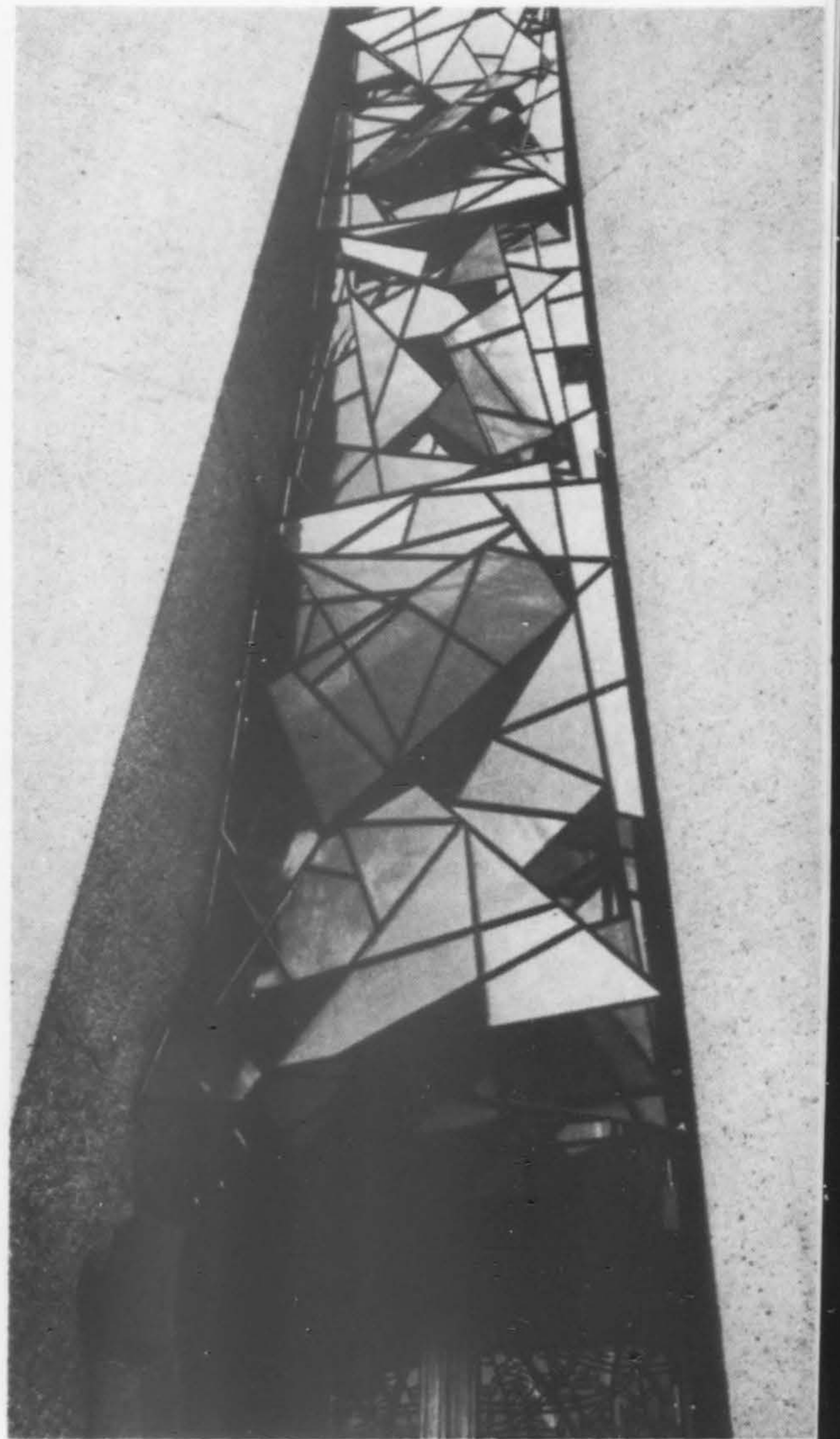
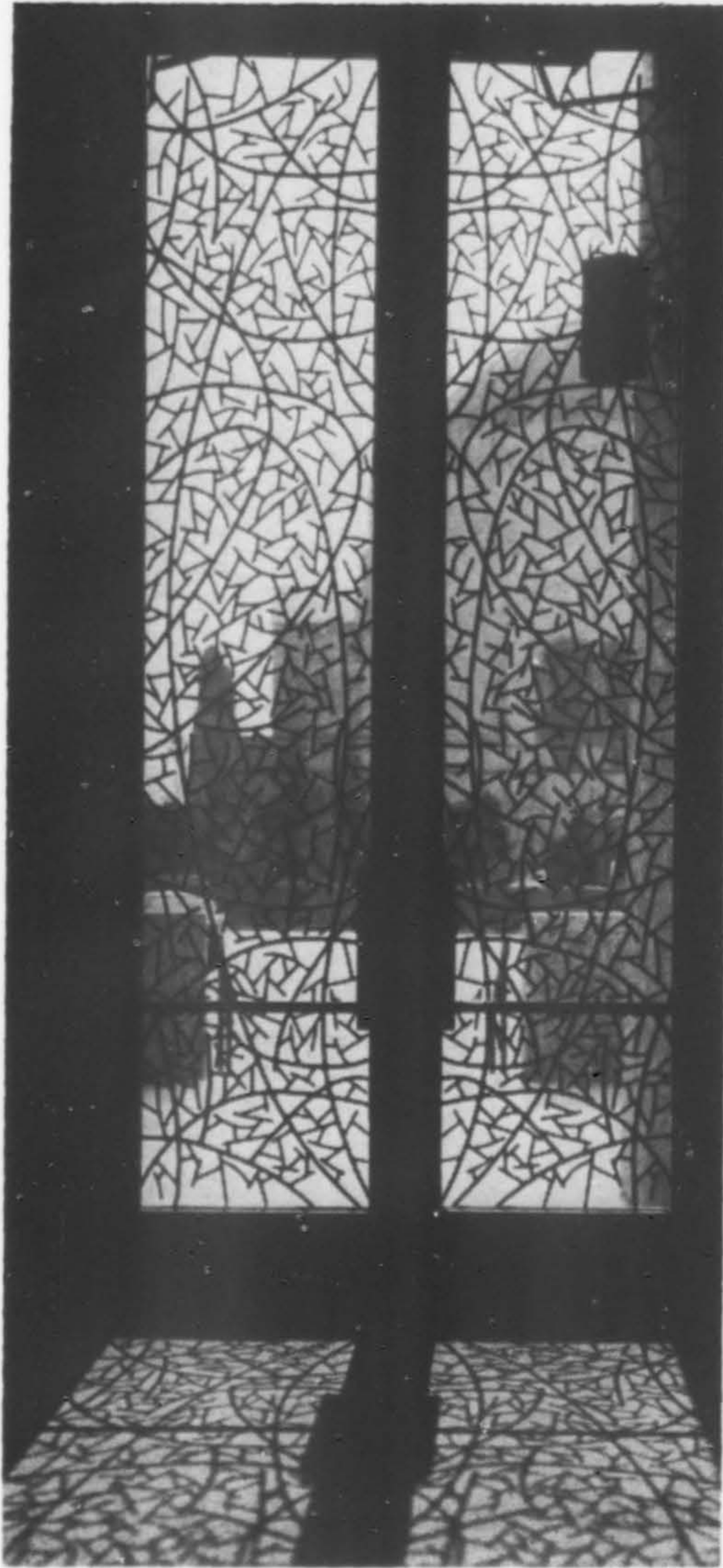
## IN DOWNTOWN . . .

**ST. BASIL CATHOLIC CHURCH**  
Los Angeles, California

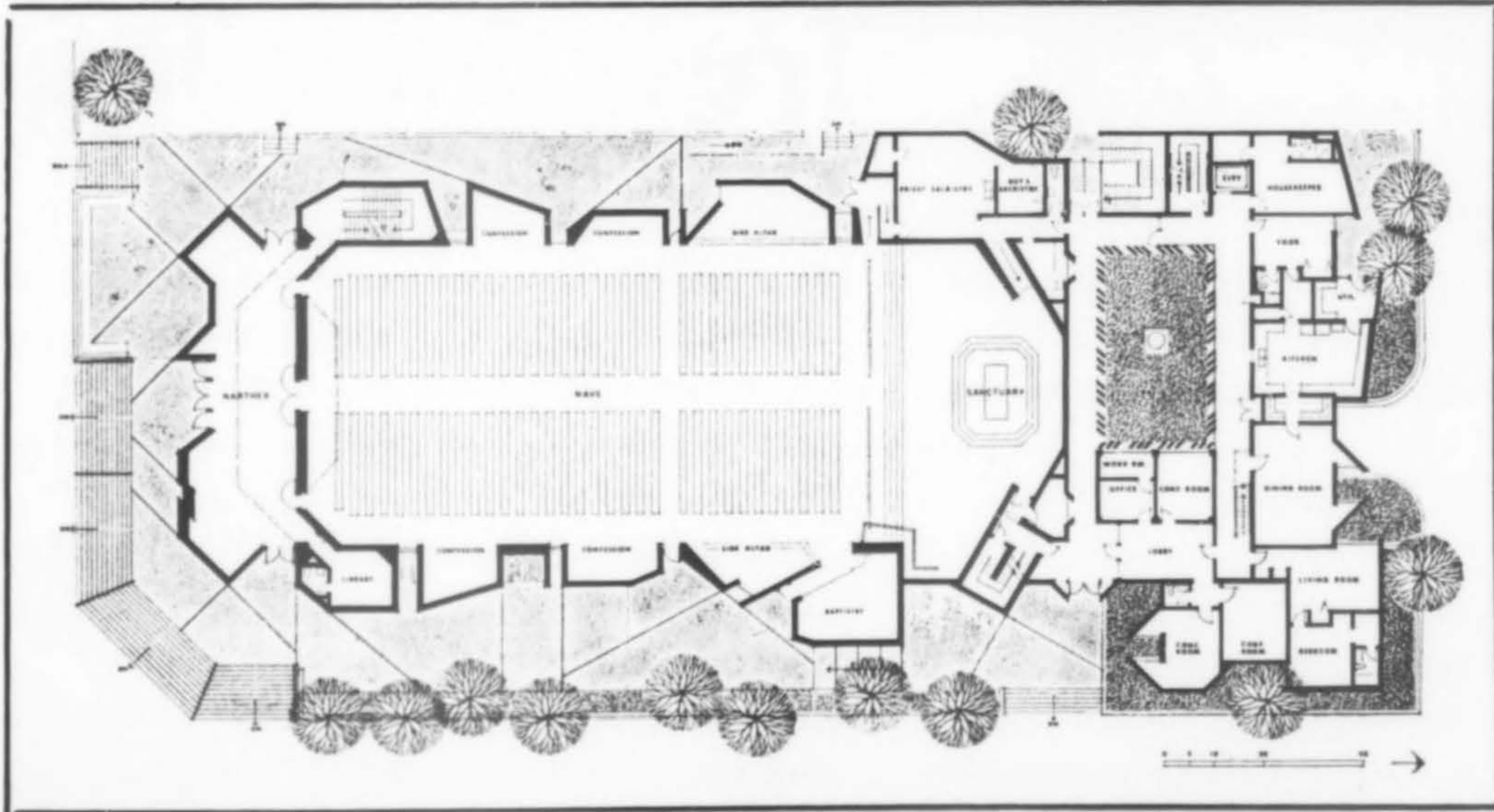
**ALBERT C. MARTIN & ASSOCIATES**  
Architect

ST. BASIL'S embraces a church and parish hall with an attached rectory, the episcopal residence of the Archbishop of Los Angeles. It is sited on 1.8 acres in Wilshire Center, the downtown area of the city. The design concept is a marriage of early Christian with contemporary, devoid of external embellishments as were the early churches. The structure is formed by 12, separate irregular towers (80-ft. high). Exterior concrete walls are bush-hammered and interior walls sandblasted, reminiscent of the early churches. (A special mix was used to create warm, mellow tones.) Form is given the ceiling by 2,400 aluminum tubes, seven feet in length, attached at various angles.

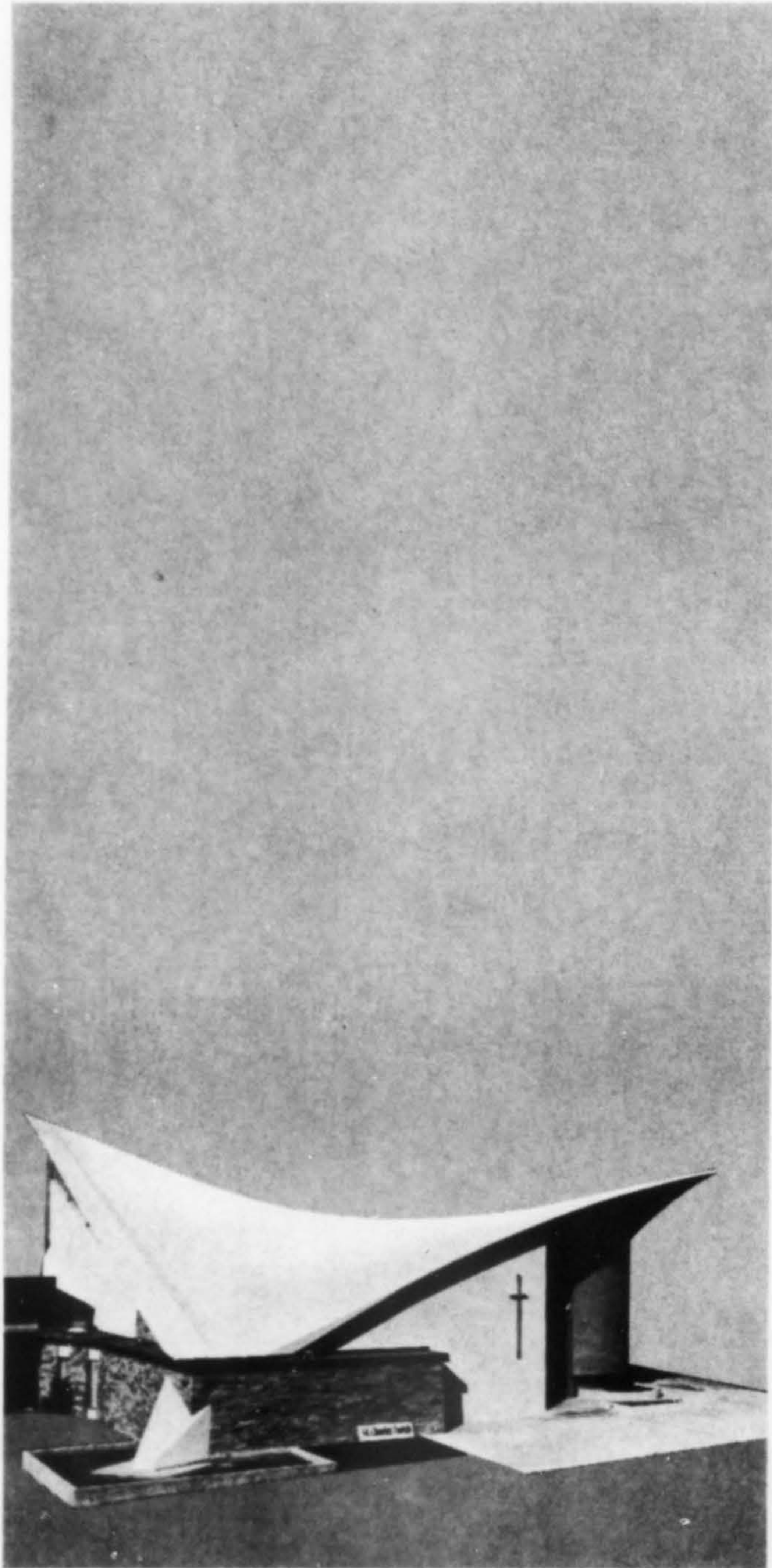
The full-height window sculptures, designed by artist Claire Falkenstein, are made of overlapping sheets of colored glass. The baldachino, suspended directly over the altar, is curved to give dimension to the 13th century Tuscan crucifix it frames.



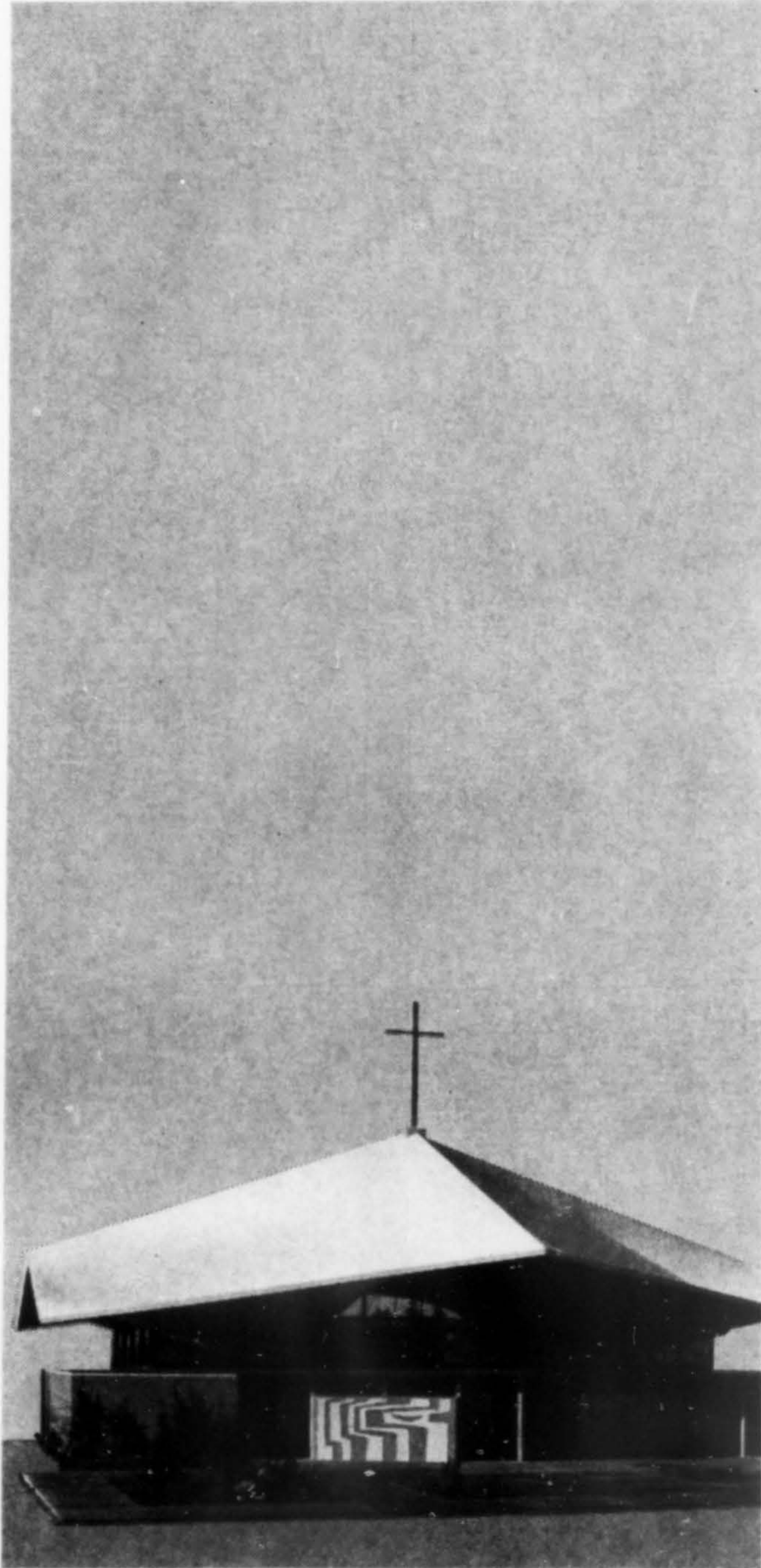
*Marvin Rand photos*



St. Charles Parish, Spokane, Washington.  
Architect: Funk, Murray, & Johnson. Applicator: Don Larsen.



Mercer Island Presbyterian Church, Mercer Island, Washington.  
Architect: Paul Thiry. Applicator: Crow Roofing & Sheet Metal, Inc.



St. John The Baptist Catholic Church, M...  
Architects: Stearns, Mention & Morris, A...



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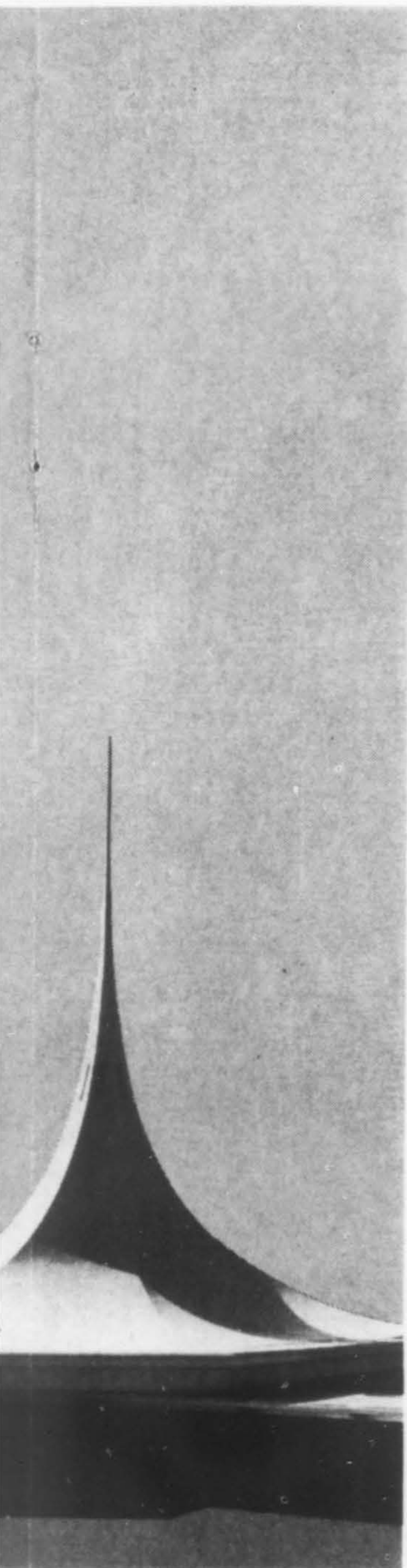
chemicals. Gacoflex carries a UL label, FHA approval, American Plywood Association certificate of qualification, and meets air pollution control regulations.

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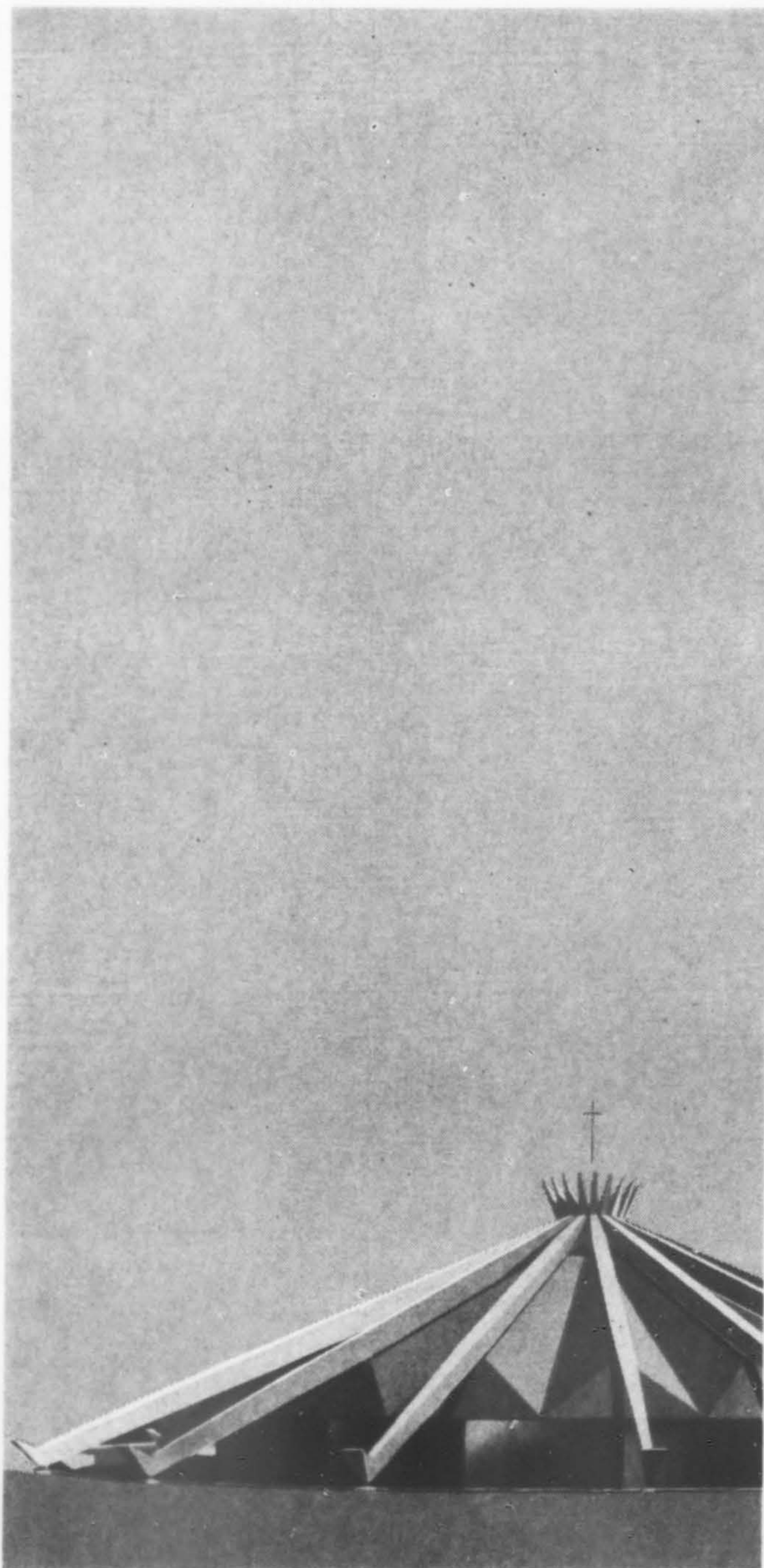
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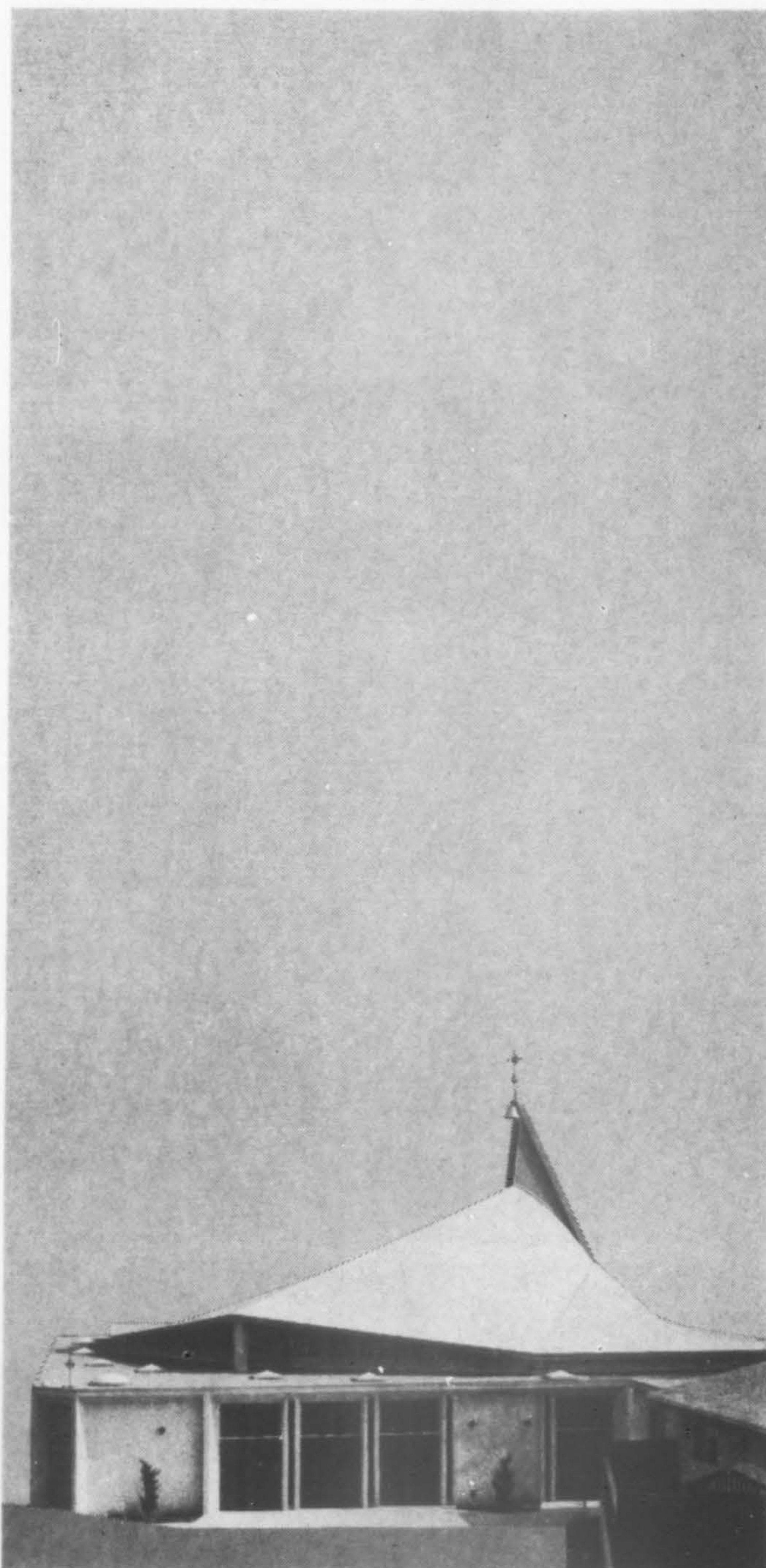
h, Milwaukie, Oregon.  
is. Applicator: Corey A. Gustafsson.



St. Peter's Church, Pacifica, California.  
Architect: Mario J. Ciampi. Applicator: Harold A. Price.



St. Rose of Lima, Crockett, California.  
Architect: Jack Buchter. Applicator: Jack Ostrander.



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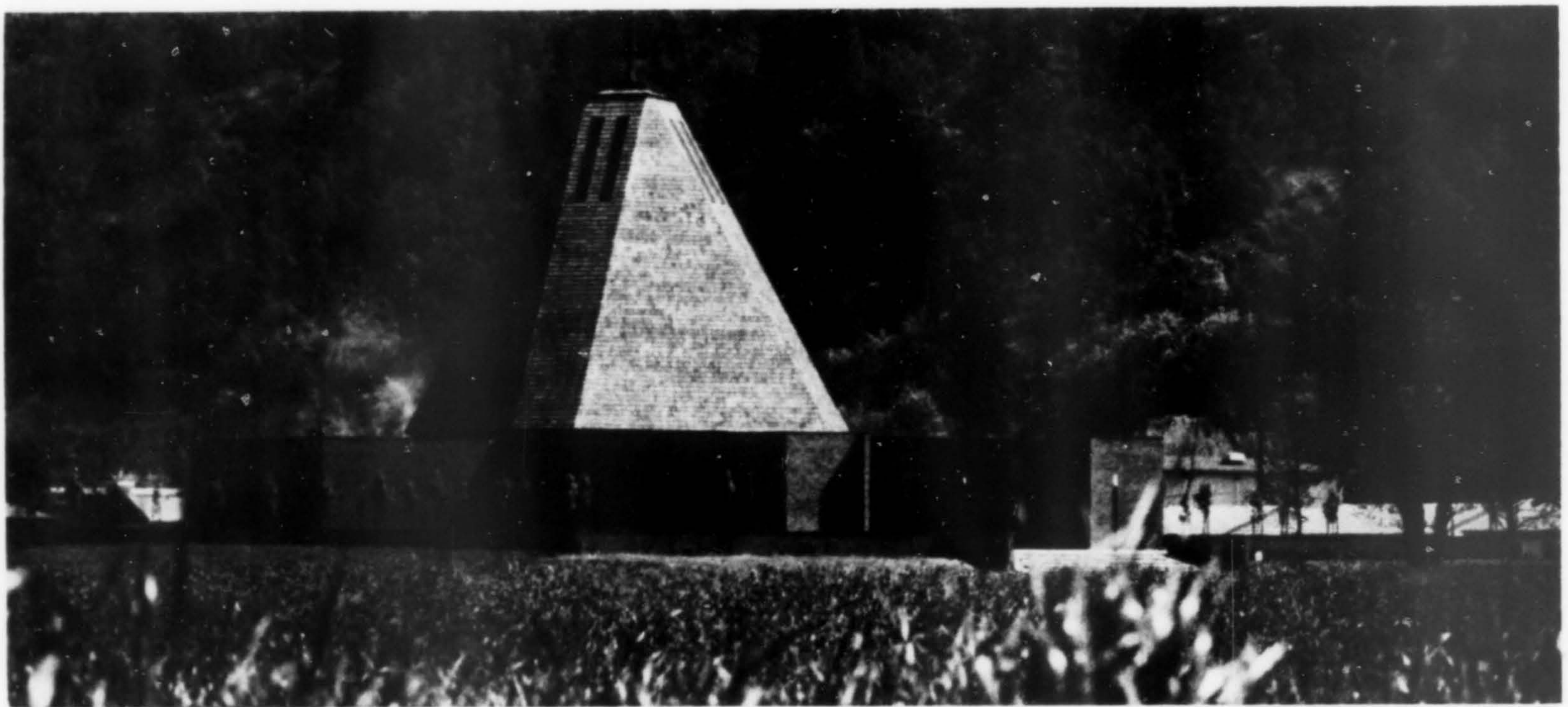
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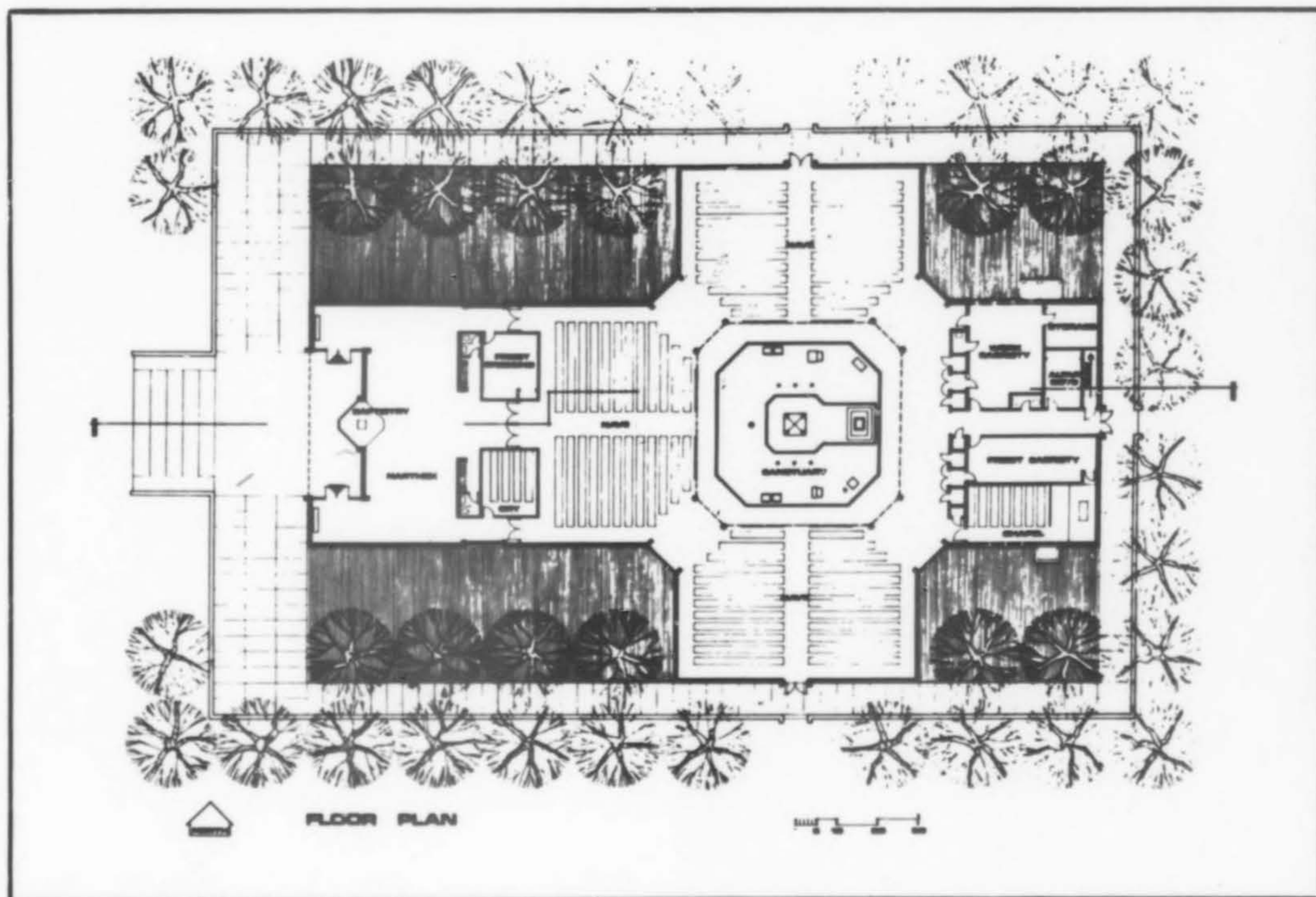
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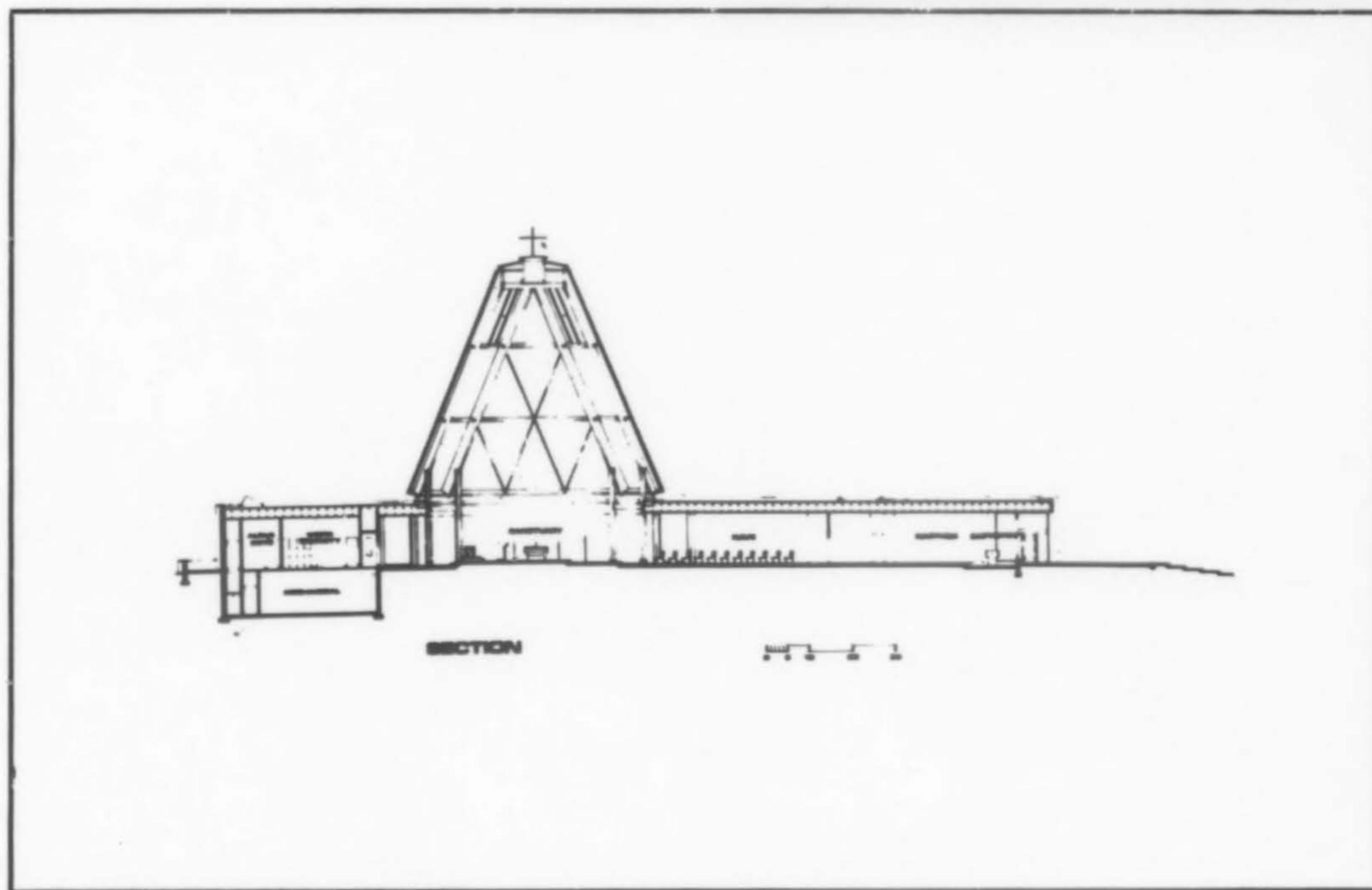
## IN THE COUNTRY . . .

**ST. JOSEPH'S PARISH CHURCH**  
Roseburg, Oregon

**WOLFF-ZIMMER-GUNSUL-  
FRASCA-RITTER, Architects**

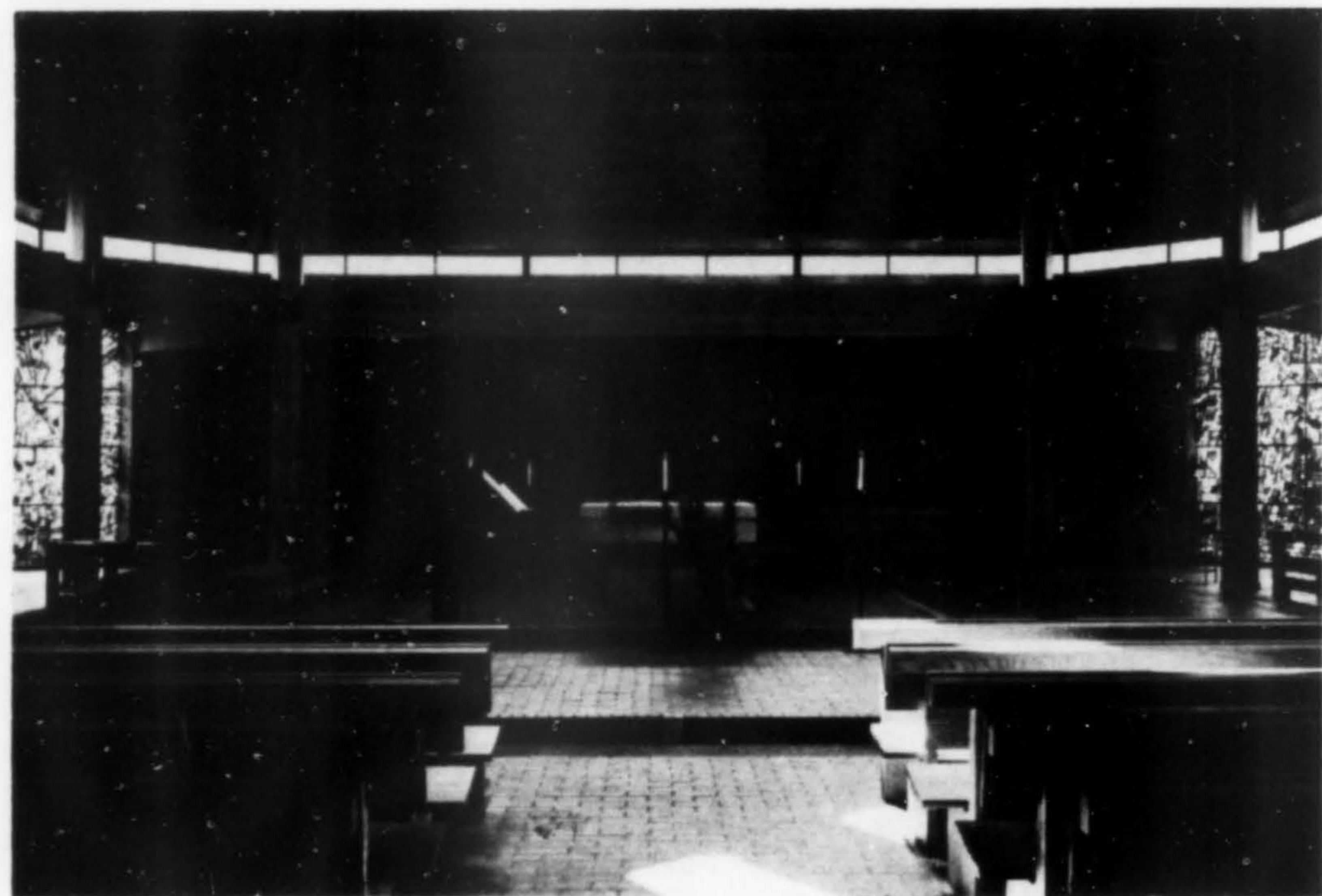
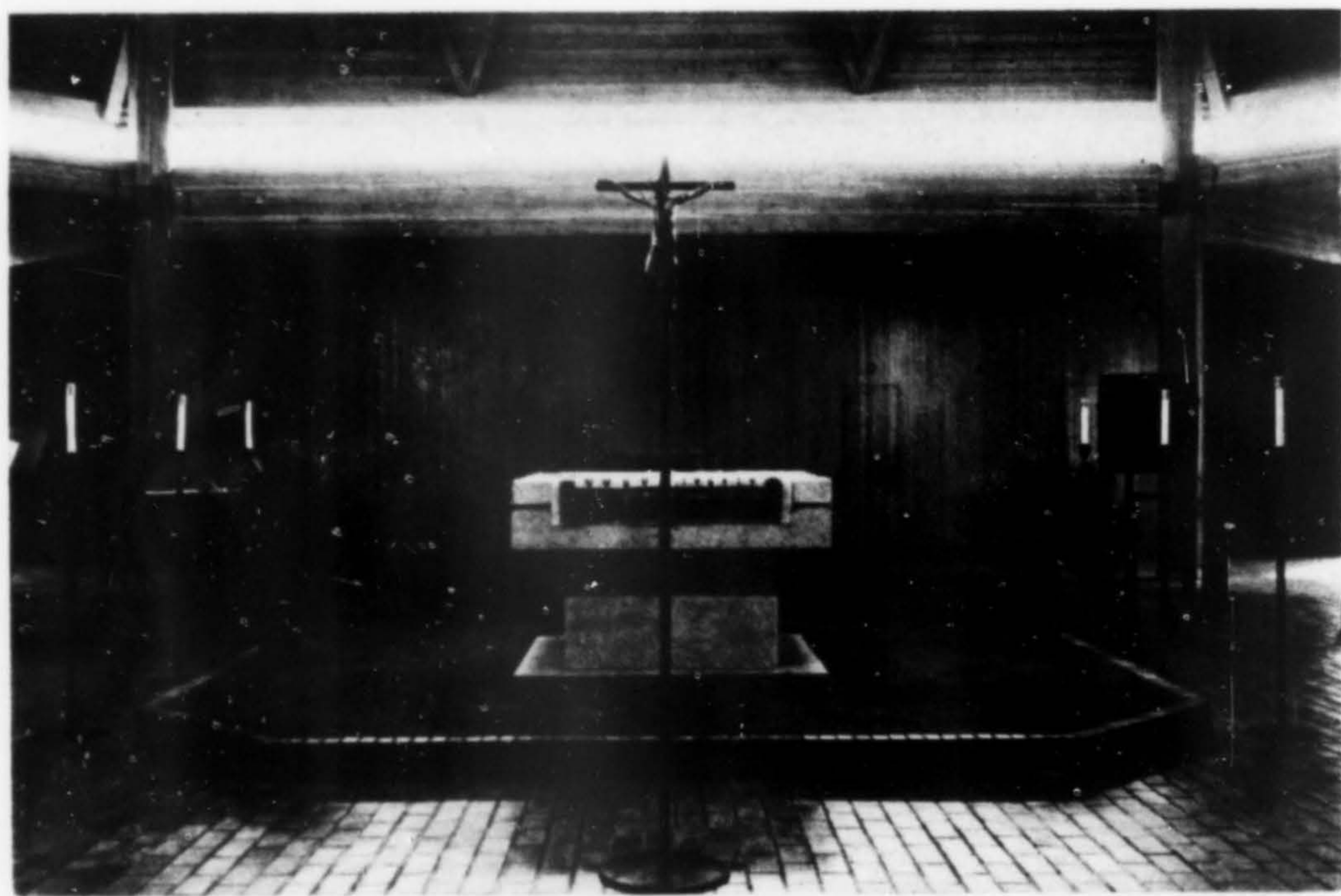
THE PROBLEM was to site and construct a church of 800 capacity for a Catholic parish in a small community in south-western Oregon. In the design of the building, the architects were asked to attempt to resolve functionally and spiritually the then recent ecumenical pronouncements, anticipate other changes and at the same time not deprive the congregation of all the traditional aspects of the church, giving nothing in return. Convenient access to the existing secondary school and parish house were major factors in locating the building.

The structure attempts to express the meanings which were implicit and explicit in the liturgical change: the congregation should participate more in the mass and with each other in the celebration of it. It says that in the modern world, God should be understood more than feared and it should therefore follow that His house should be more residential than regal in scale.



The rotunda is constructed of glue-laminated timbers and wood decking. Eight main girders spring from eight laminated wood columns free of the exterior walls. Lateral forces are transferred through the wood roof diaphragm to eight masonry shear walls at the points of the compass. Floors are of brick pavers throughout with exterior walls of solid brick masonry. Interior walls and ceilings are natural finished Hemlock panels.

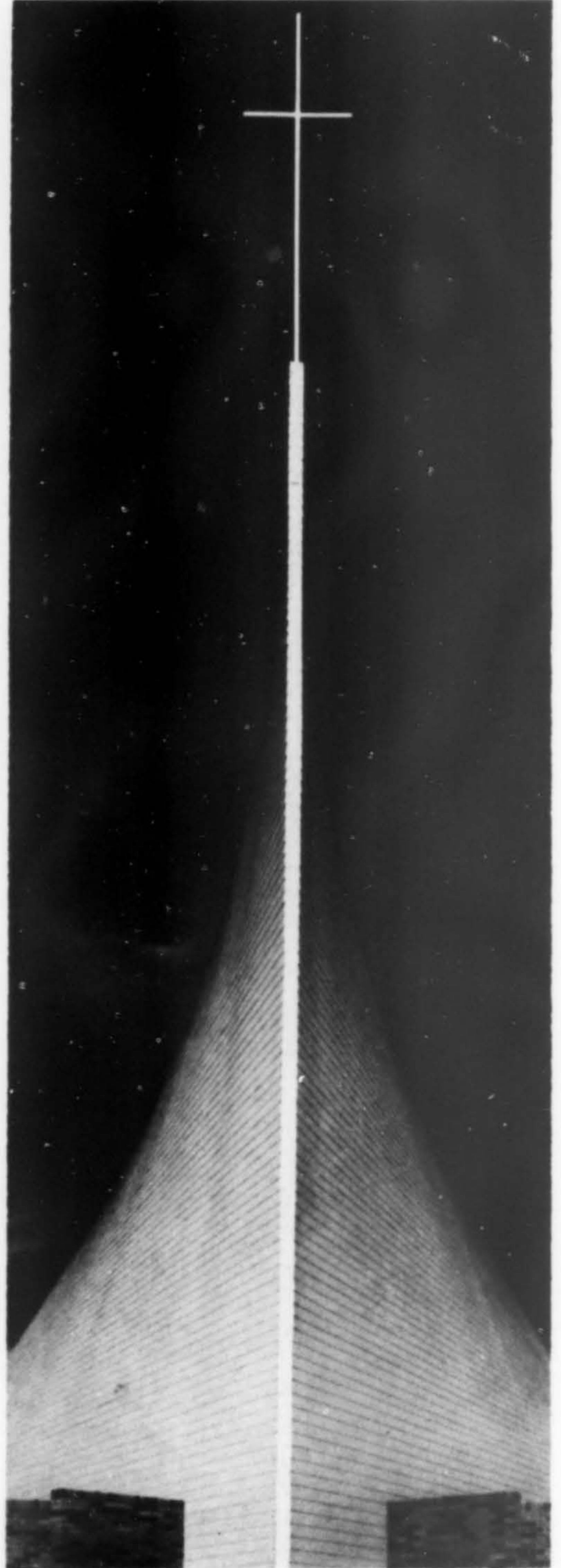
IN THE COUNTRY . . .

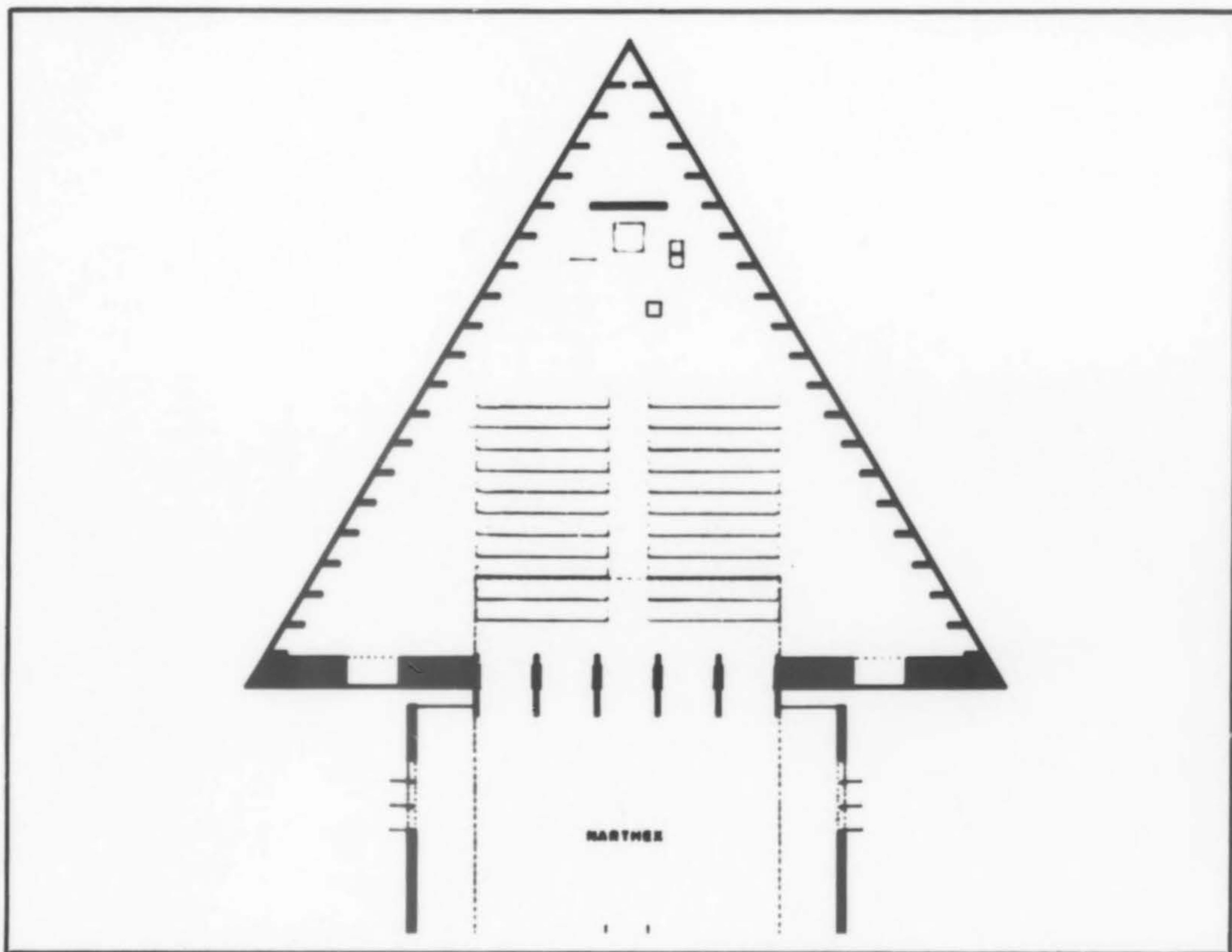




**RISE  
to the  
HEIGHTS**







## TO THE HEIGHTS . . .

**UNITED METHODIST CHURCH**  
Laramie, Wyoming

**MUCHOW ASSOCIATES, Architects**

THE LOCATION of the church, in a low part of the city, emphasized one of the principal requirements: a sanctuary design that would create a focal point in the neighborhood. The structure is an addition to an existing classroom, accommodating 250 persons. It has been treated as a simple, white geometric form which becomes the dominant element of the building complex. The three-dimensional form both strongly inflects the interior space toward the communion table and encloses the minimum-area plan to give great height with relatively small volume.

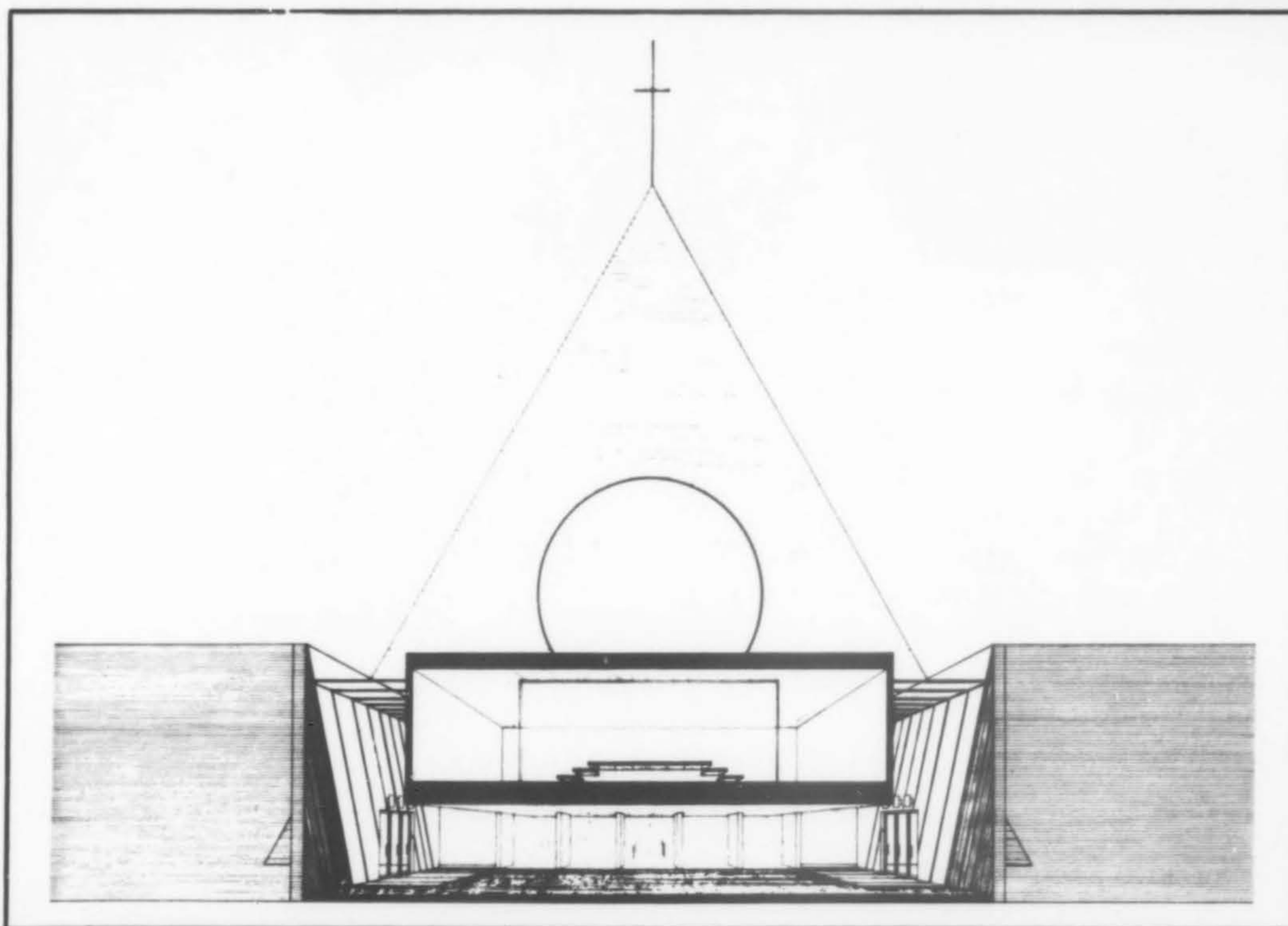
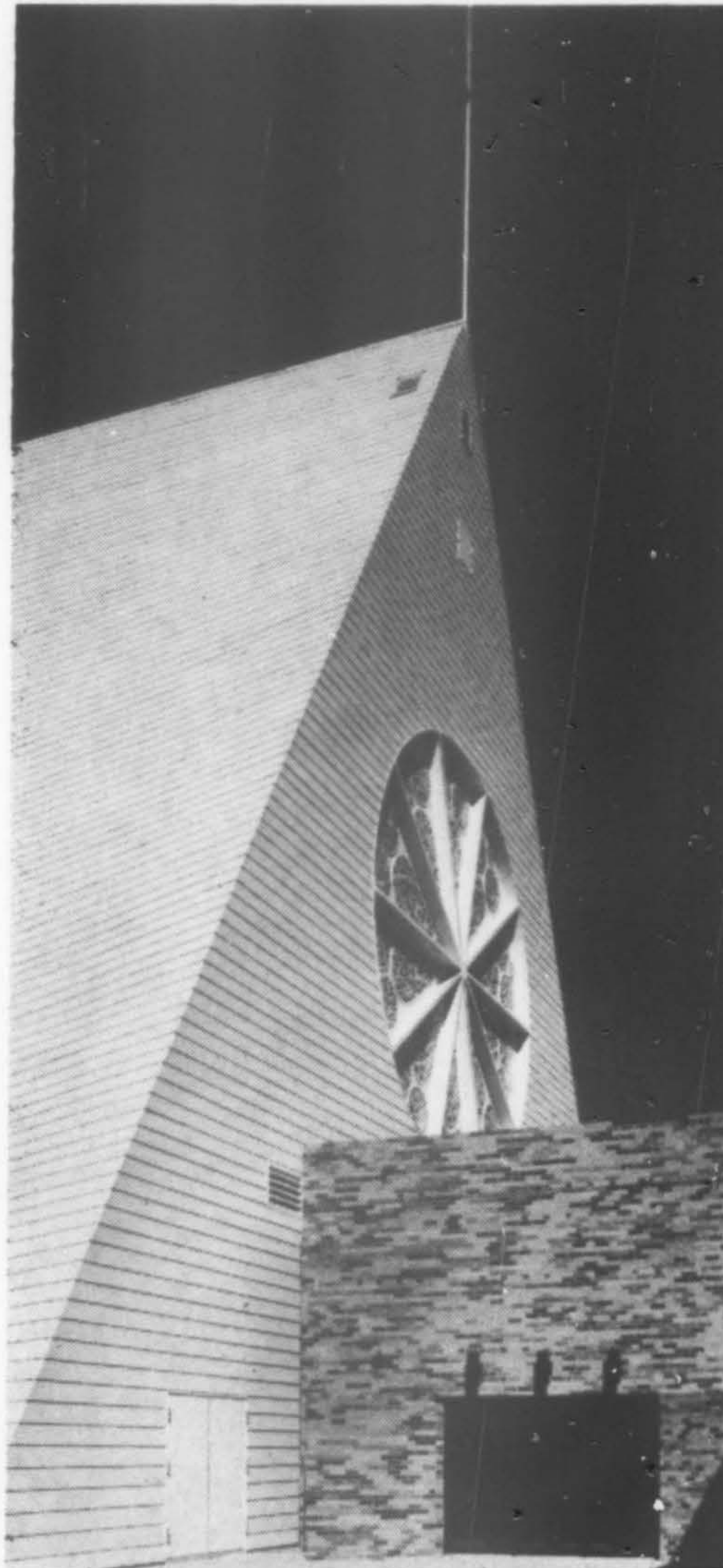
A large walled courtyard space, a place of refuge from the high winds and blowing snow of Wyoming, forms a transition from city street and parking to the quiet place of worship. The classroom building forms the east wall of the court and the one-story raised terrace on the north forms another side. The high garden walls on the south and west complete the enclosure. Future classrooms will be built beneath the terrace with full height windows opening onto the courtyard. The choir/organ loft and choir robing/practice room are the visual tie between the two buildings.

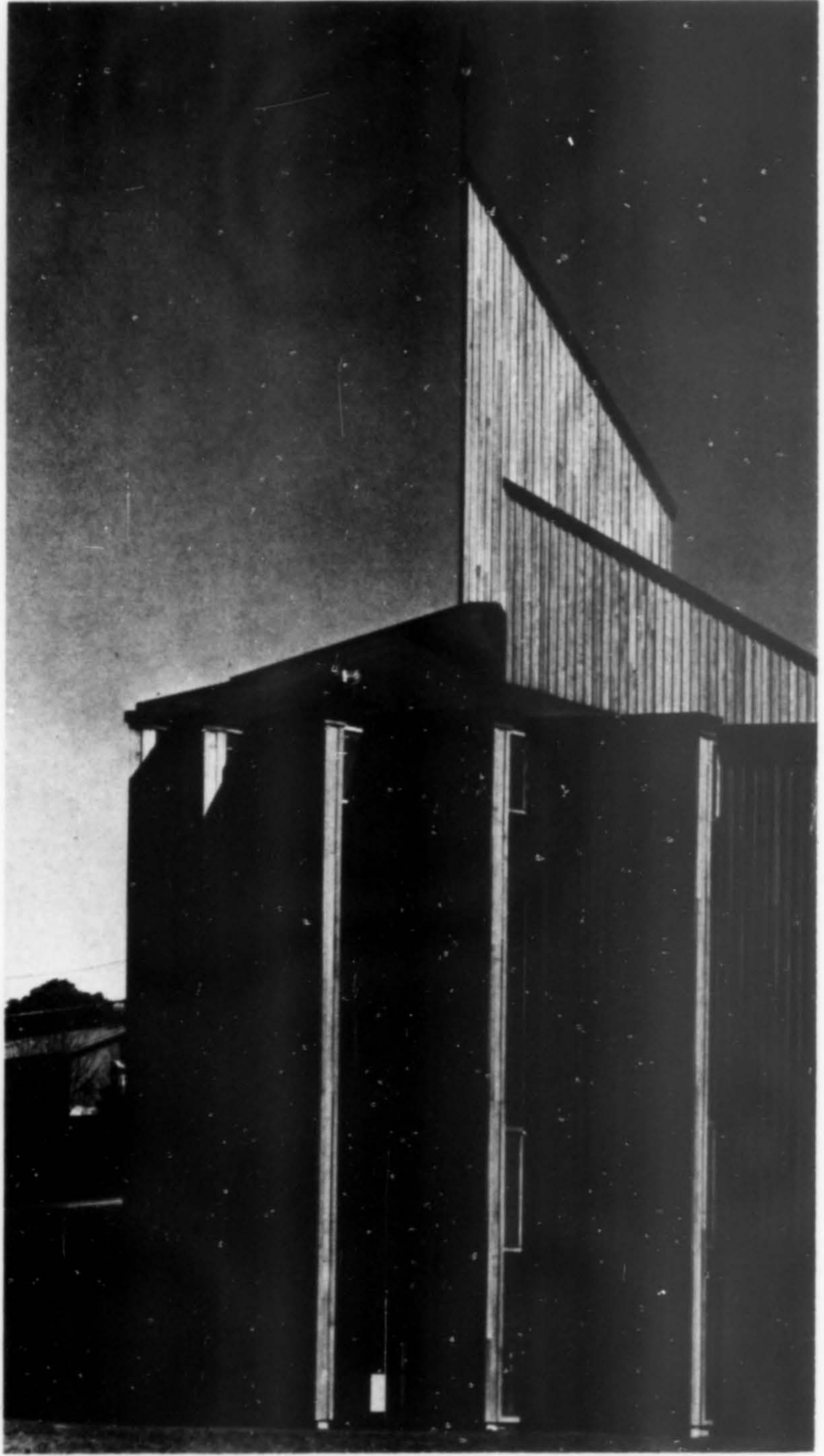
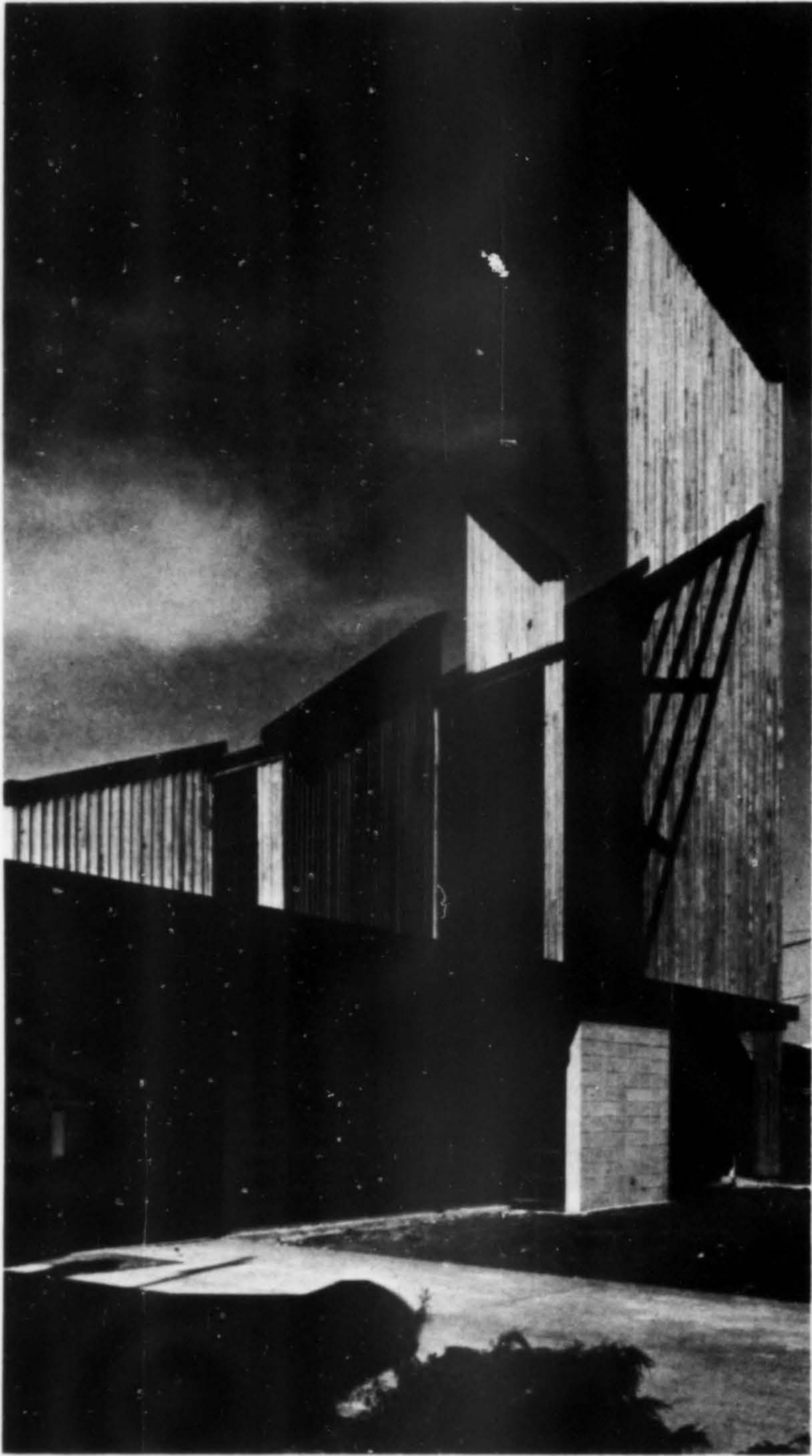
Straight line members form the warped surface. A one-and one-half inch structural wood skin spans between glue-laminated structural beams. A tedlar-coated plywood is the finish siding. Court walls and narthex walls

are brick to match the existing building. A dominant feature is the 30-ft. diameter stained glass rose window by Gabriel Loire. Floors are white terrazzo; walls of gypsum board and laminated beams, painted white; wood pews are finished with white plastic laminate.

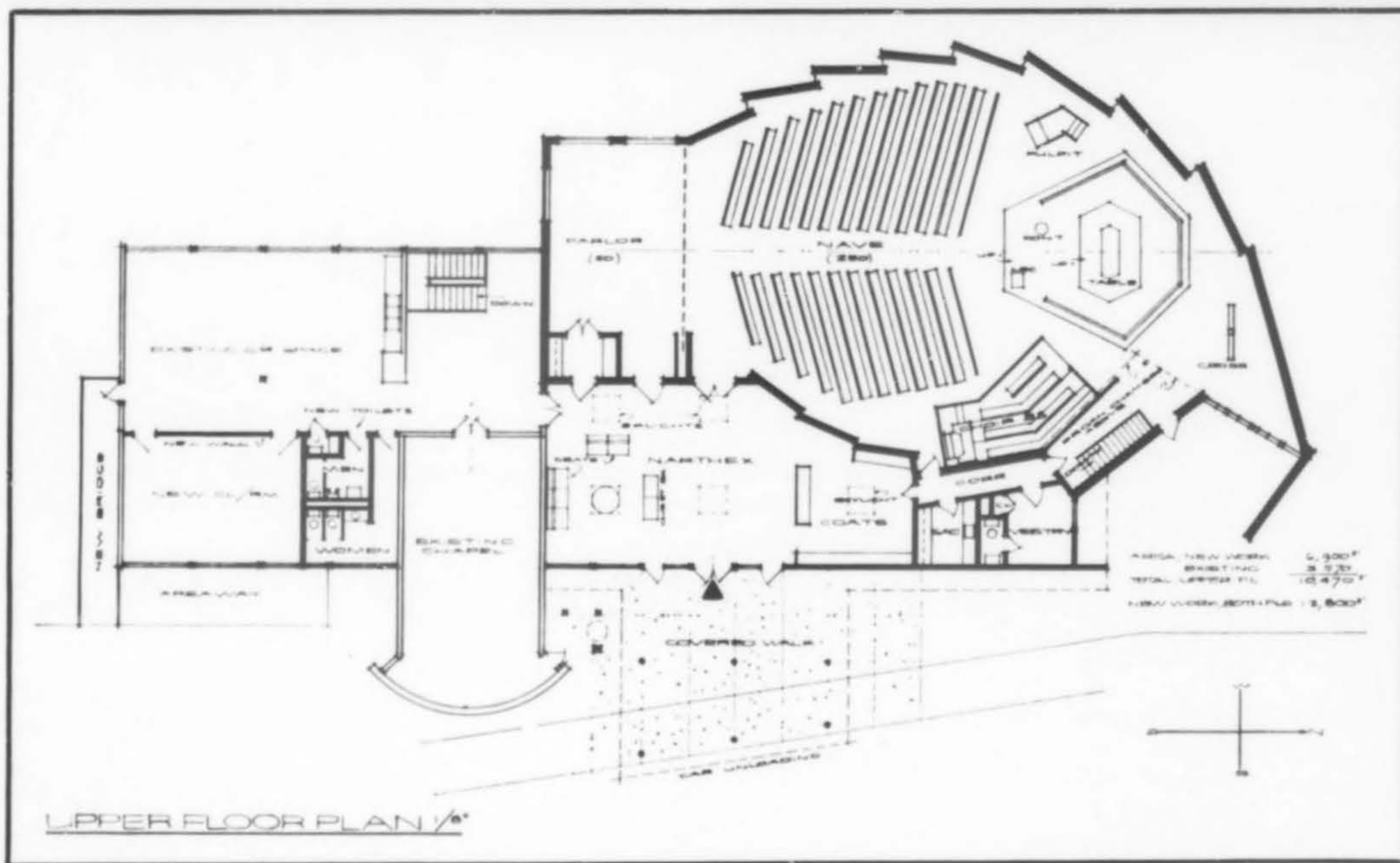
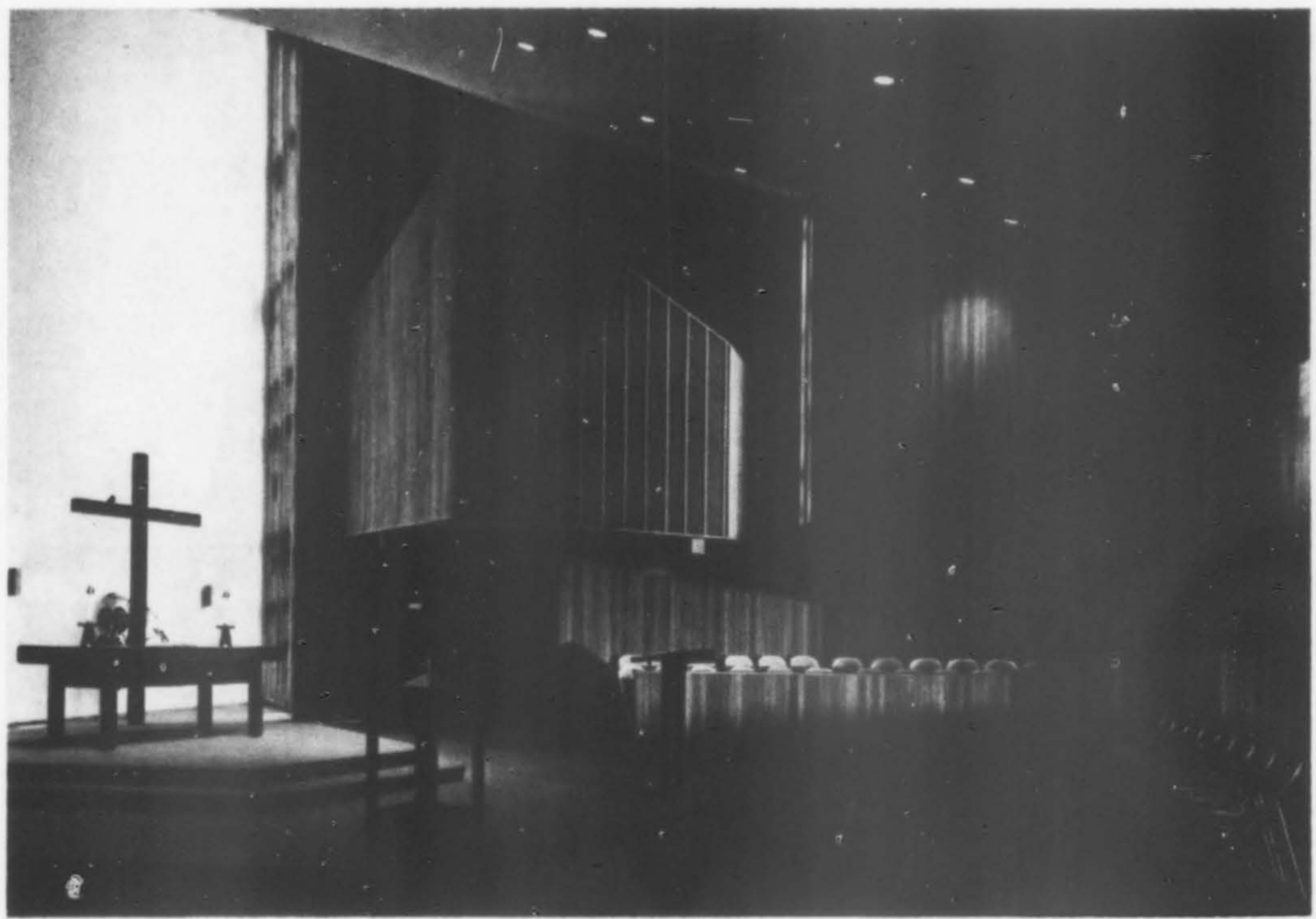
Consultants were Ketchum, Konkel, Barrett, Nickel & Austin, structural; McFall and Konkel, mechanical; Swanson-Rink & Associates, electrical; Thomas Morrissey, acoustical.

*Ted Edeen photos*





*Hugh N. Stratford photos*



## ON THE CREST . . .

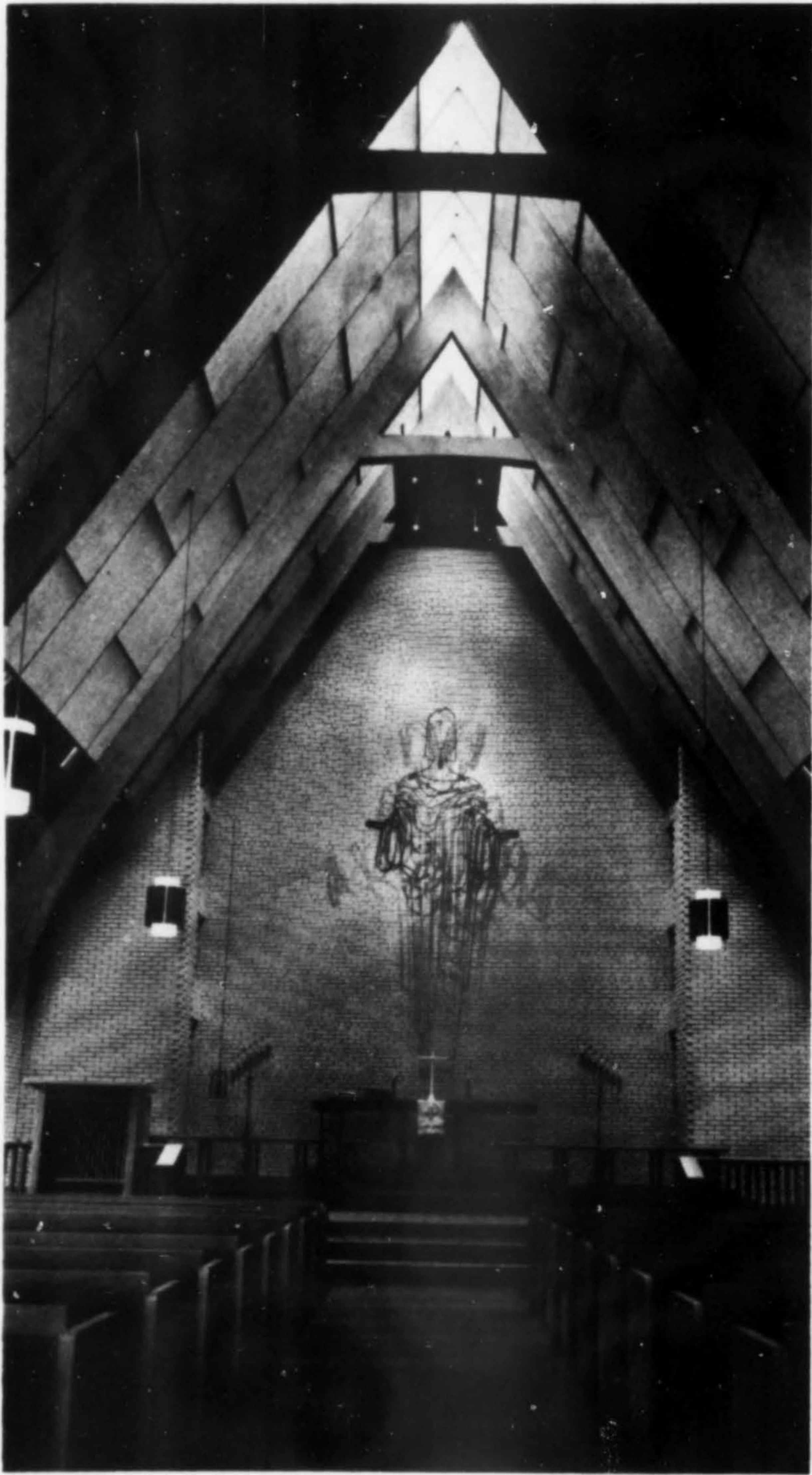
**DURHAM, ANDERSON & FREED**  
Architects

**ST. LUKES UNITED  
METHODIST CHURCH**

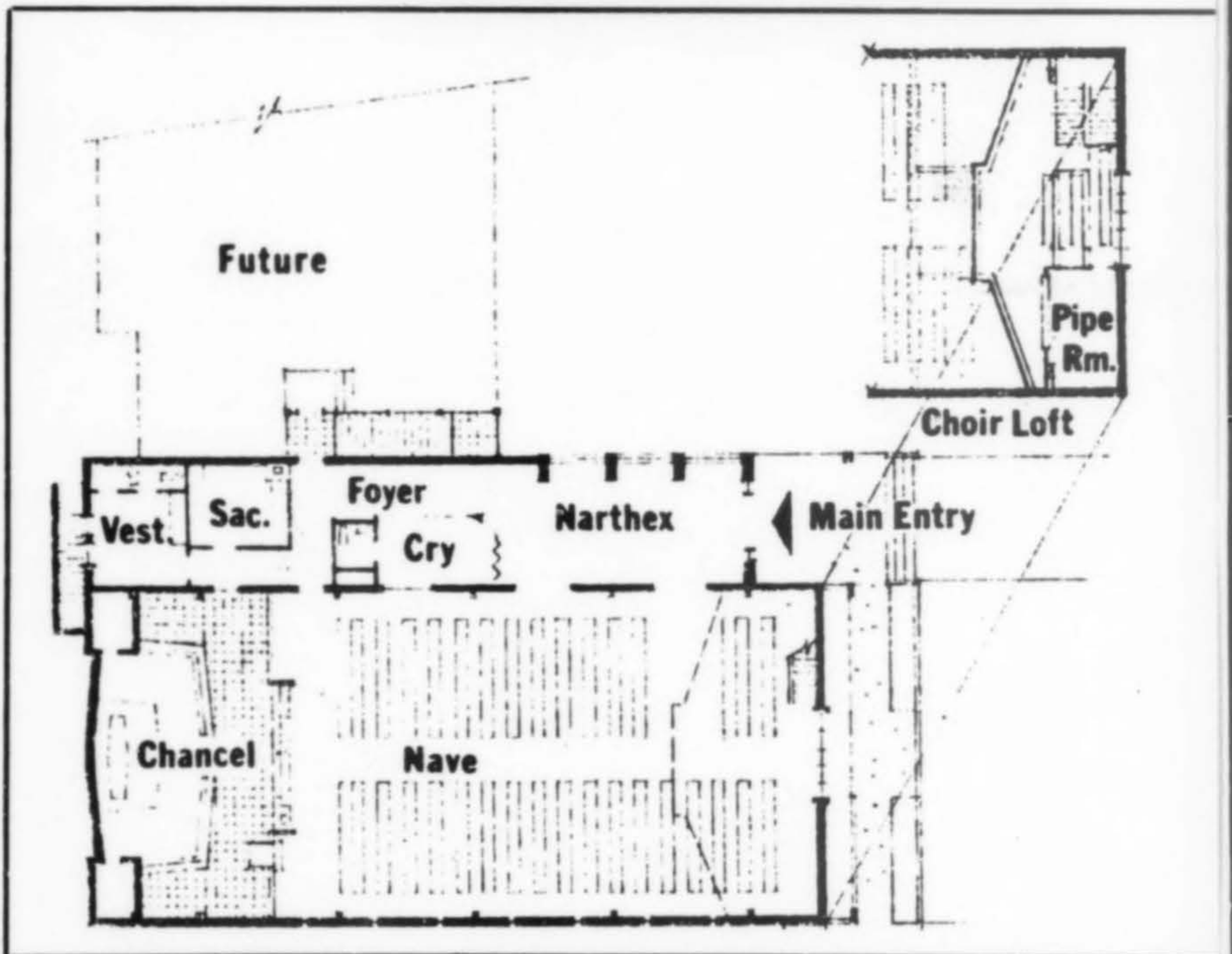
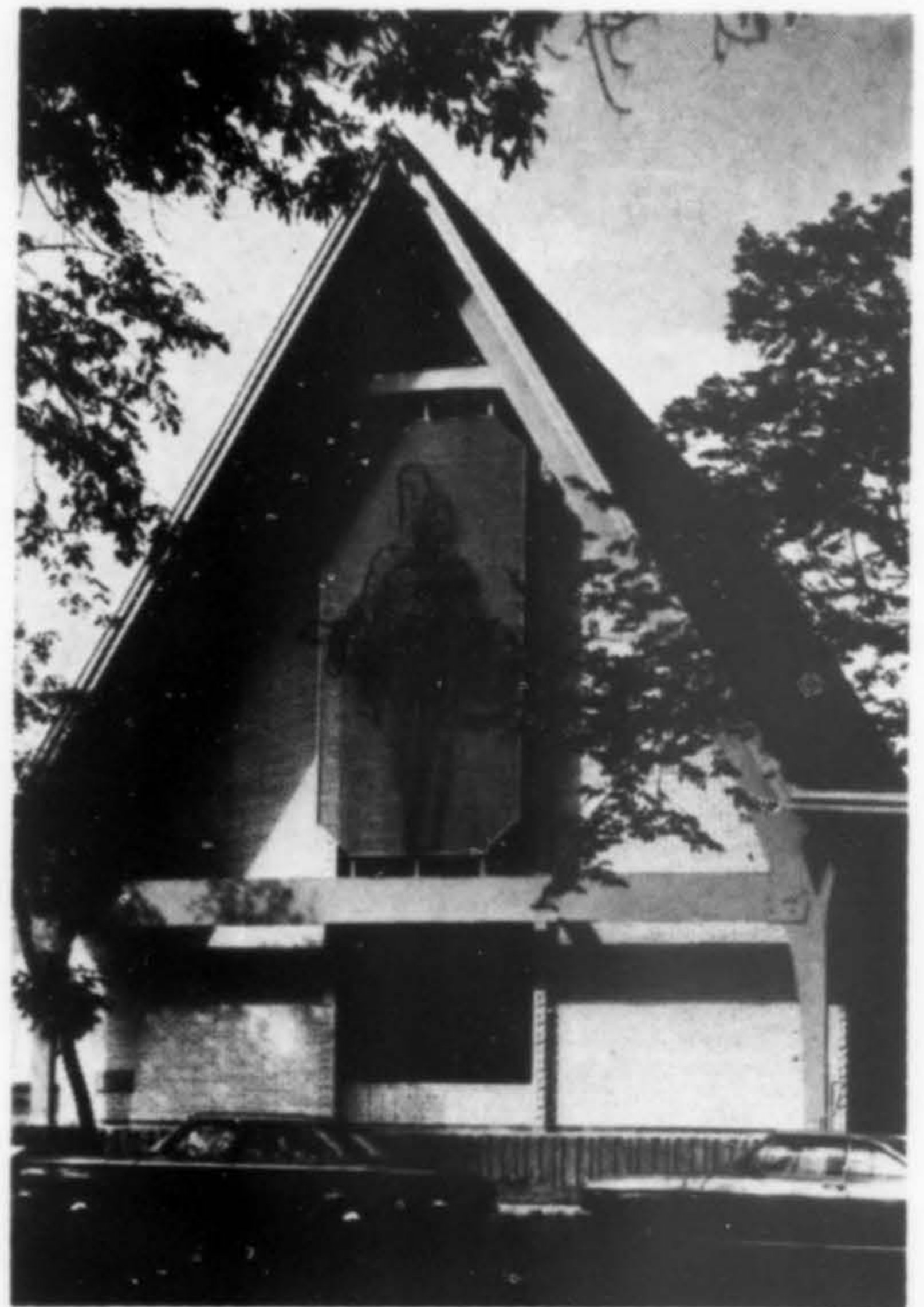
**Bremerton, Washington**

THIS SANCTUARY and social hall building, completed in early 1968, is the second unit of a long-range program. The site slopes downward toward the west with sufficient area for foreseeable future construction, and a view of Bremerton and the Olympic Mountains. The church presents a strong visual image on the crest of a hill when seen from a distance. There is, unfortunately, very little relationship with the earlier unit—the second phase far surpasses the previous building.

There is a very strong sculpted interior space for the nave, utilizing economy of means. There was no conscious efforts to make the shape of the plan "fish-like." The shape evolved from an effort to allow natural light to enter the sanctuary from unseen sources and to relate the choir and congregation as a single worshipping body. Given this shape, it was a natural development to let the roof build up to a climax over the chancel (the main tower is 90 ft. tall). Exterior siding is rough-sawn cedar boards and battens.



Denny W. McCall photos



## NEAR CITY CENTER...

TRINITY LUTHERAN CHURCH  
Great Falls, Montana

AMUNDSON, BEER & LUND  
Architects

A CHURCH SURVEY recommended that the new church be built to serve the area adjacent to the city core, the same general area as that served by the existing church. Since no generous site was available in the specified area, the decision was made to rebuild on the same site. Construction is of brick cavity walls with prestressed concrete floors; a steep glu-lam gable roof frame, stressed skin panels. Special lighting is provided through a ridge skylight 45 ft. above the altar, over which hangs a metal figure of Christ designed by Ray Steele. The project was recognized by the Montana Chapter, AIA, in 1969.

"WE SOUGHT an appropriate material; economical, maintenance-free, bold in character, dark in color... a material with a beauty that only nature can impart."

This was the quest of Eero Saarinen and his associates when they began design of the Administrative Center for John Deere and Company in Moline, Illinois. In fulfilling this quest, they discovered the aesthetic potential of a corrosion-resistant high-strength low-alloy steel, which has become known generically as "weathering steel." The building they designed was the first major structure to use this steel as an architectural material, in the bare condition, without paint or any other protective coating on the exposed surfaces.

Weathering steel is not new. While several proprietary grades are available, the progenitor of them all was USS COR-TEN steel. It was introduced into the marketplace in 1933 to meet the need of the railroad industry for a more rugged and durable material with which to build hopper cars. Until its architectural potential was discovered, it was used almost exclusively in transportation equipment, because of its high-strength and good resistance to corrosion. In these applications it

posure is required before the COR-TEN oxide coating becomes sufficiently dense, thick, non-porous, and tightly adherent to inhibit further corrosive attack. At the end of 20 years COR-TEN has lost only about two mils (.002") in thickness, which is about half the thickness of a magazine page (see graph next page).

*Weathering steel is not a material that looks good overnight. Both the architect contemplating its use and his client should have not only an understanding of the material and the manner in which it weathers progressively, but also courage to endure the first few months of exposure.* The time required for the full depth of color to develop will vary with geographic and atmospheric conditions, as well as with the season of the year. It may take as long as five years. However, a pleasing patina develops within the construction period in a matter of months and will grow progressively warmer and darker and more uniform with the passing of time. In an industrial environment with a lot of contaminants in the air, the color will develop more rapidly than in a rural area where the air is quite clean.

Many of the imaginative and signi-

## WEATHERING STEEL---NATURALLY

was usually painted, since the appearance of rust was considered evidence that immediate painting was required. It has five to eight times the atmospheric corrosion-resistance of most carbon steel.

At first, the appearance of the weathering steel is virtually identical to that of carbon steel. Unlike carbon steels, however, a dense, tightly adherent non-flaking oxide coating begins to form on the surface of COR-TEN steel when it is exposed to the elements. As the oxide coating develops with the passage of time, the steel weathers to an increasingly dark, rich, earthy color and even texture, both of which only nature can impart. Despite extensive research, thus far no way has been found to accelerate formation of the protective oxide or pre-age the steel by artificial means. Weathering steel is a natural material—like stone, marble or granite.

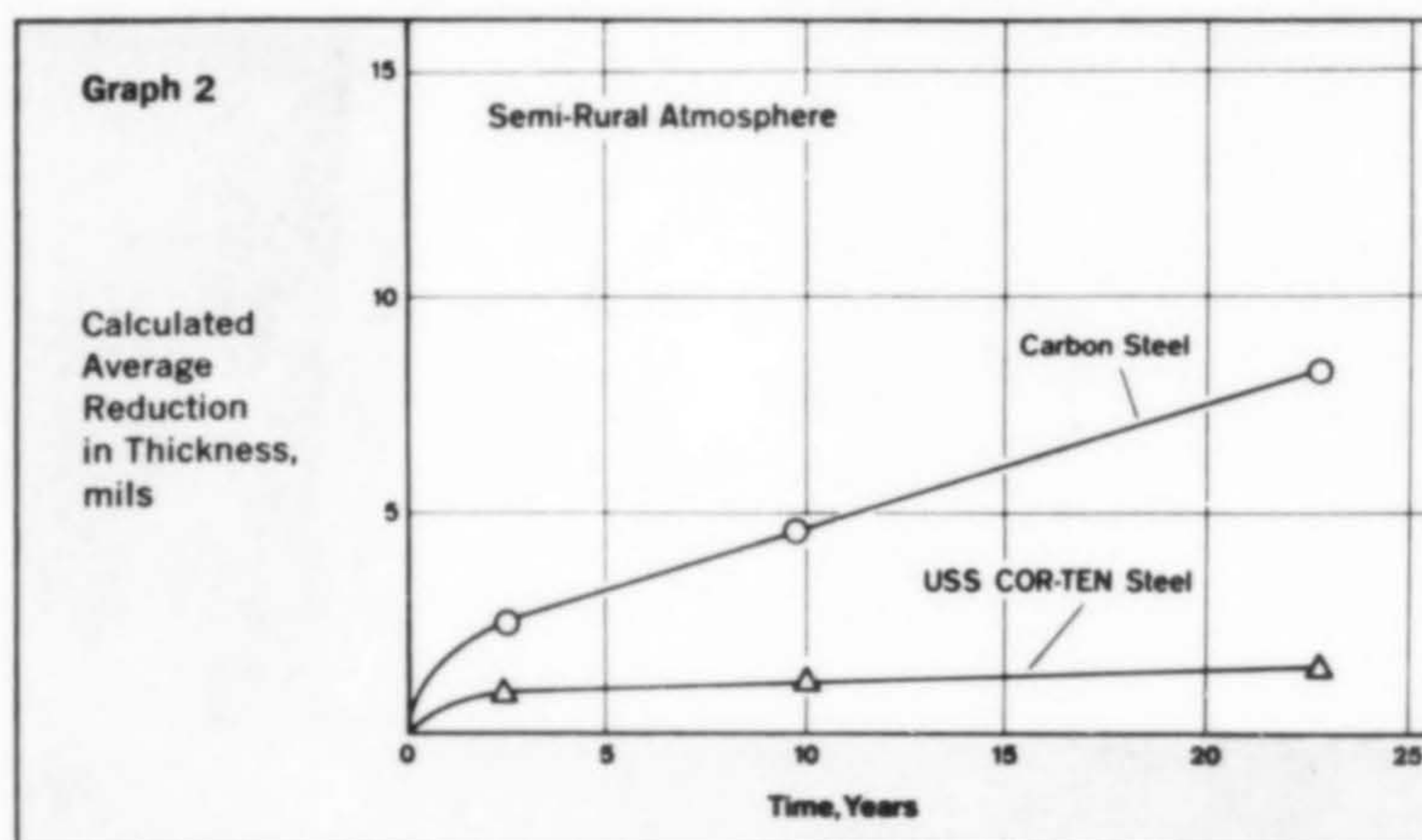
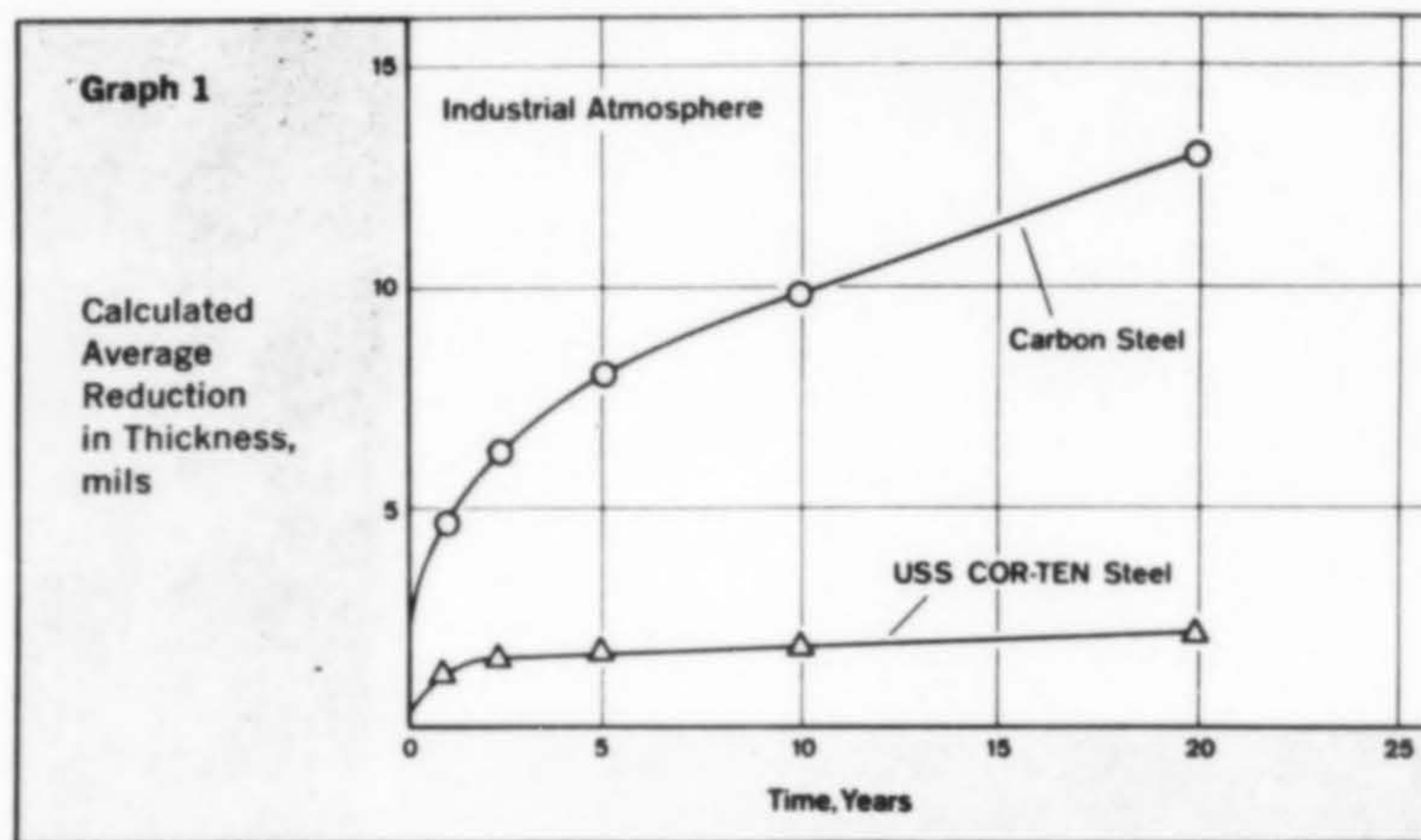
When fully developed, the oxide coating is about as thick as a page of a magazine. Alternate cycles of wetting and drying (rain, fog or dew) are necessary for its formation. Without such wetting—in a very dry, desert-like environment, or in interior applications—little happens. Ordinarily about two and one-half years of outdoor ex-

posure is required before the COR-TEN oxide coating becomes sufficiently dense, thick, non-porous, and tightly adherent to inhibit further corrosive attack. At the end of 20 years COR-TEN has lost only about two mils (.002") in thickness, which is about half the thickness of a magazine page (see graph next page).

significant applications of weathering steel have been conceived by Western architects. Particularly is this so in regard to its use as a roofing and siding material. The first such application (Figure 1) was the batten seam roof for the Battelle Institute Research Center complex in Seattle. The highly imaginative shelter in Albina Park, Portland, featured in the June 1969 issue of *Architecture/West* (Figure 2) is also a batten seam application. The new City Hall in Vacaville, California (Figure 3) uses coffer-embossed panels as fascia elements around the entire building.

Where fireproofing is not required, the structural elements of a building may also utilize bare weathering steel. The headquarters building for Fairchild Semi-conductor, Mountain View, California (Figure 4) illustrates the use of structural shapes and bent plate sections in the construction of the sun control system. Where fireproofing of structural members is required, covers can be applied over the fireproofing or bare weathering steel box column sections may be used and filled with an anti-freeze solution which will keep the columns below critical temperatures under fire exposure. It is interesting to note that patents were issued in 1884

### Comparative Corrosion of Steels



## WEATHERING STEEL—NATURALLY: COR-TEN in DESIGN

on this general concept of fire-proofing.

While there are three grades of COR-TEN steel, only two are normally used in architecture, designated as grades A and B. COR-TEN A has a minimum yield point of 50,000 psi to 1/2" thickness inclusive. COR-TEN B steel is used where a 50,000 psi minimum yield is desired in thicknesses over 1/2" and up to 4", and when highly restrained welds and dynamic loading conditions occur in the structure. The use of both steels in the same structure usually presents no major problem, either in design or aesthetics. Although there are slight differences in their chemical composition, the two are closely compatible in performance and appearance.

COR-TEN steels may be fabricated by all the usual methods with no undue difficulties. Because they are high-strength steels, the sheet metal fabricator may expect more "spring-back" in forming operations than with carbon steel. COR-TEN can be welded, with the use of good shop practice, by the shielded metal-arc, submerged-arc gas metal-arc, and electrical resistance processes.

Because the heat of the sun evaporates moisture on the steel surface and accelerates the formation of the oxide

film, surfaces facing south (in the Northern hemisphere) and west are likely to reach optimum appearance sooner than surfaces facing the east and north. The underside of exposed beams and surfaces sheltered or protected by canopies or overhanging cornices will develop a rough texture and will weather more slowly than boldly exposed surfaces.

Under continuously moist or entrapped-moisture conditions, where cyclic drying cannot occur, weathering steels are subject to progressive corrosion. Therefore, the design of the structure should minimize ledges, crevices and other areas that can hold water or collect debris. Details should be self-cleaning wherever possible. If the building design will permit water to condense on the interior surfaces of the steel, such as the underside of roofing or siding sheets, these surfaces should be painted with rust-inhibitive primers. The space between two facing steel surfaces will seal itself with corrosion product if the joint is fairly tight and not moveable. Otherwise, the surface should be protected with a paint or a sealant. When bare weathering steel is used for window sash sections, the unexposed interior sash surfaces must be painted. The interior surfaces of

window frames will usually be subjected to frequent condensation and must be well protected. Weathering steels are not recommended for use in buried or submerged situations, nor for structures exposed to recurrent wetting by salt spray.

Appreciable drainage of corrosion products may be expected to occur during the first two or three years of exposure and will continue indefinitely, although at an increasingly slower rate. Water draining or dripping from the steel, especially while the oxide coating is developing, will contain minute oxide particles which may stain or streak adjacent materials. Permanent provisions should be made through design, detailing, and the selection of material, colors and textures, to accommodate this runoff water or to divert it from vulnerable materials. The provision of gravel sinks at column bases and the strategic placement of planters or gutters are examples of effective solutions to minimize staining.

On a material basis, weathering steels cost approximately three cents per pound more than structural carbon steels. Fabrication costs should not differ appreciably. Installed costs of weathering steel siding have ranged from one dollar per square foot upward,



varying with the configurations and installation conditions. On the basis of several alternate bidding situations, bare weathering steel roofing installations have cost, in place, approximately half what sheet copper installations of comparable design would cost.

As a general rule, the minimum thickness for bare weathering steel building components is 18 gage (.05"). Although bare weathering steel has been used for only a comparatively brief period of time, it has become one of the most exciting "new" architectural materials, and its aesthetic potentialities are limited only by the imagination of the designer.

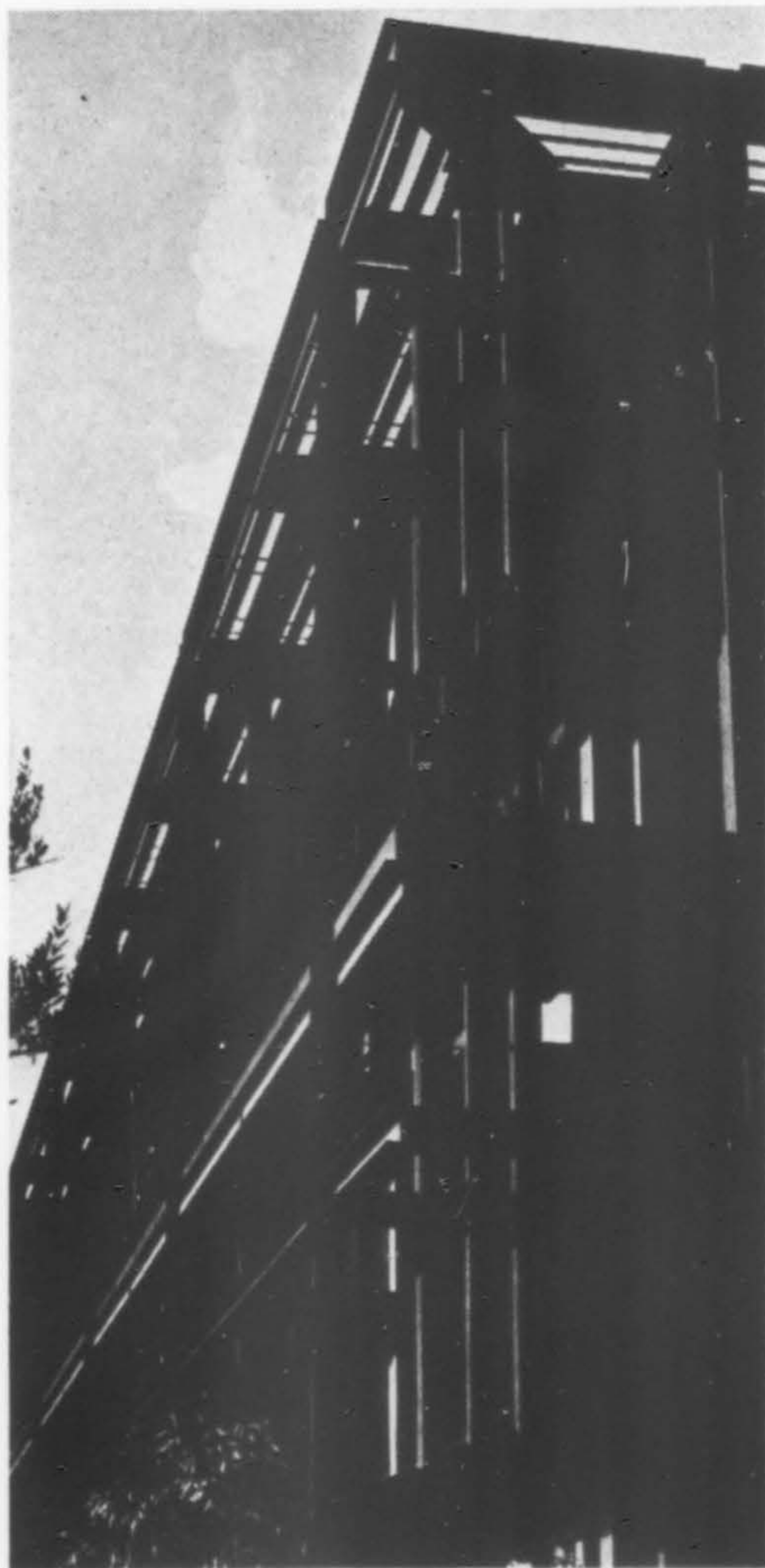
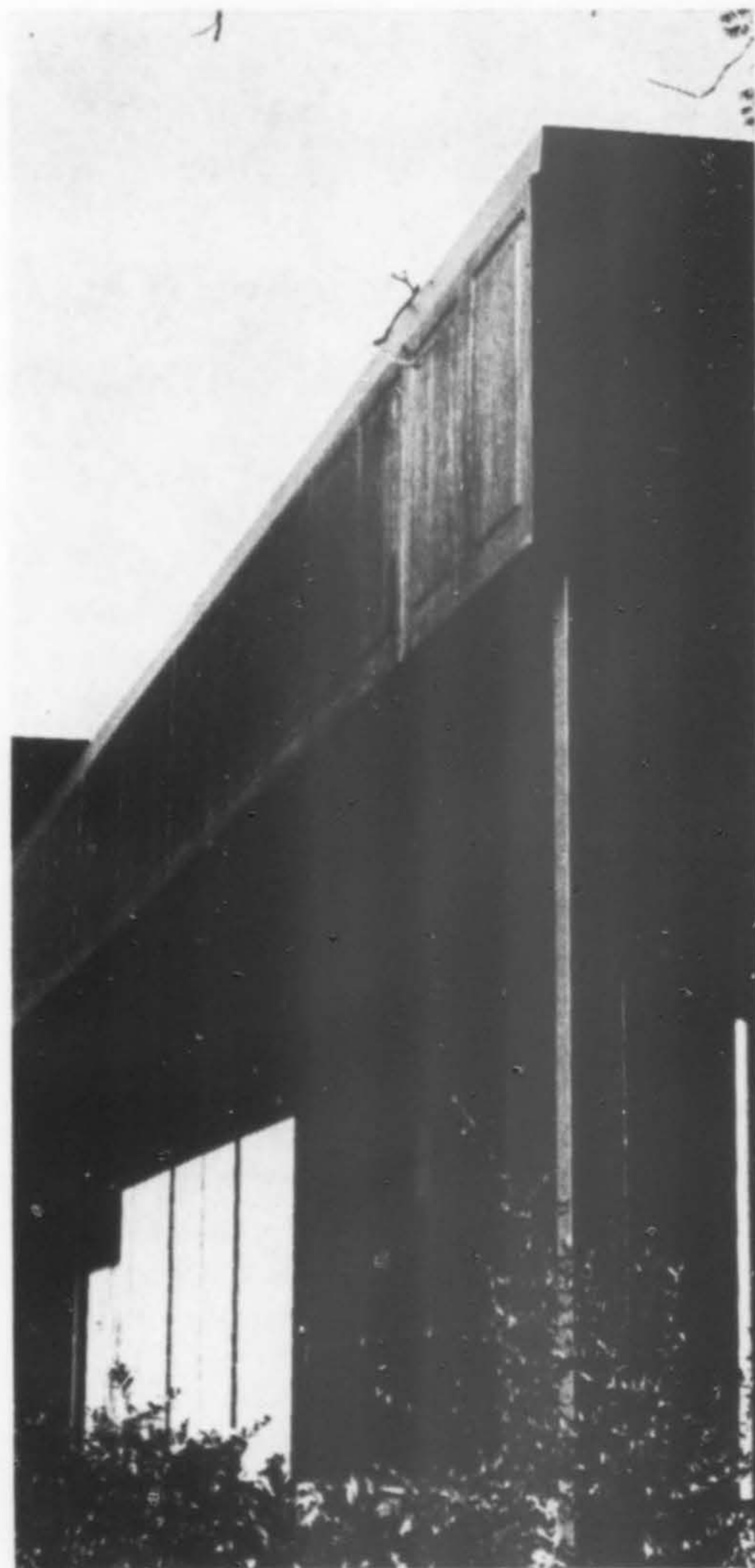


Figure 4

Figure 3, far left

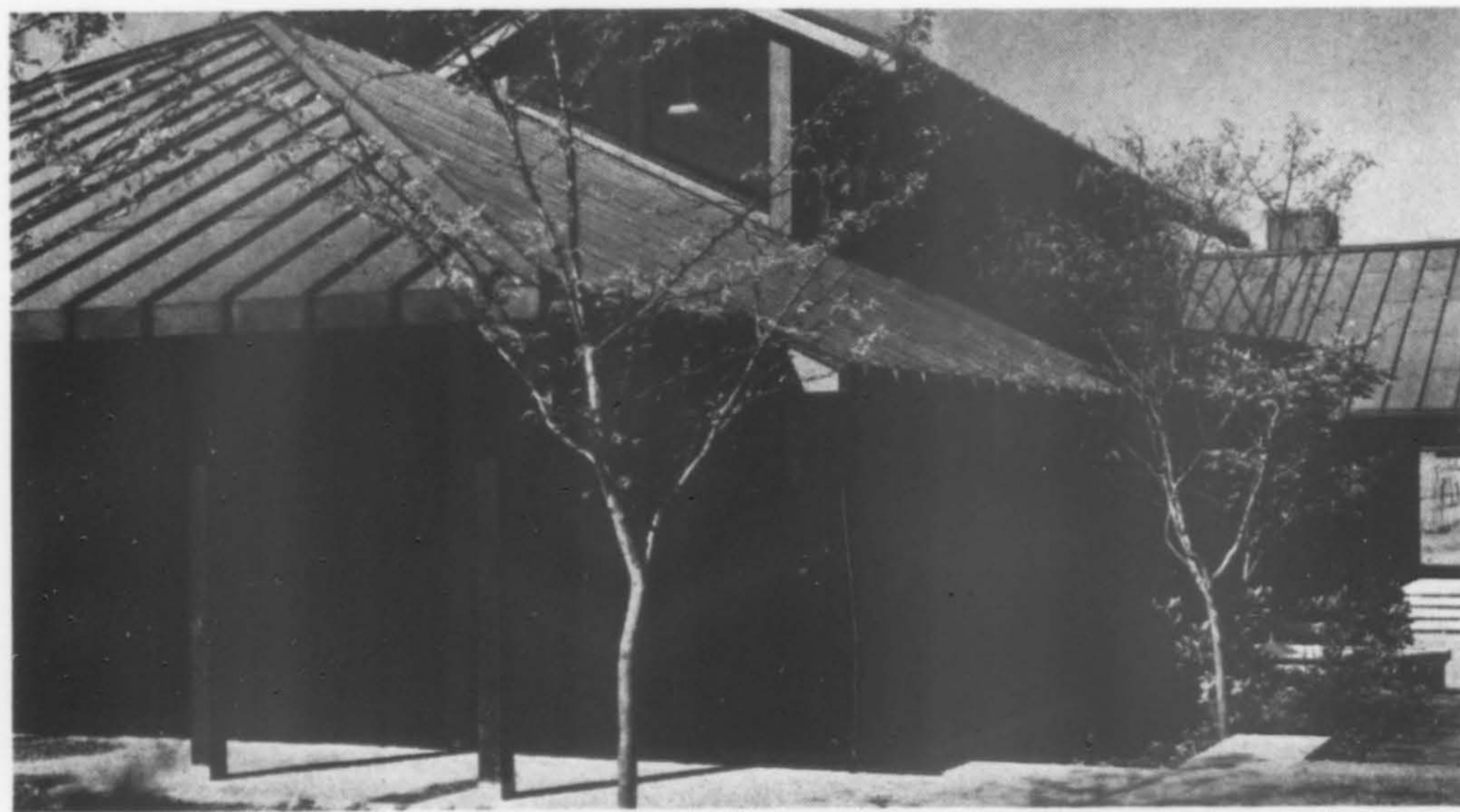


Figure 1, above

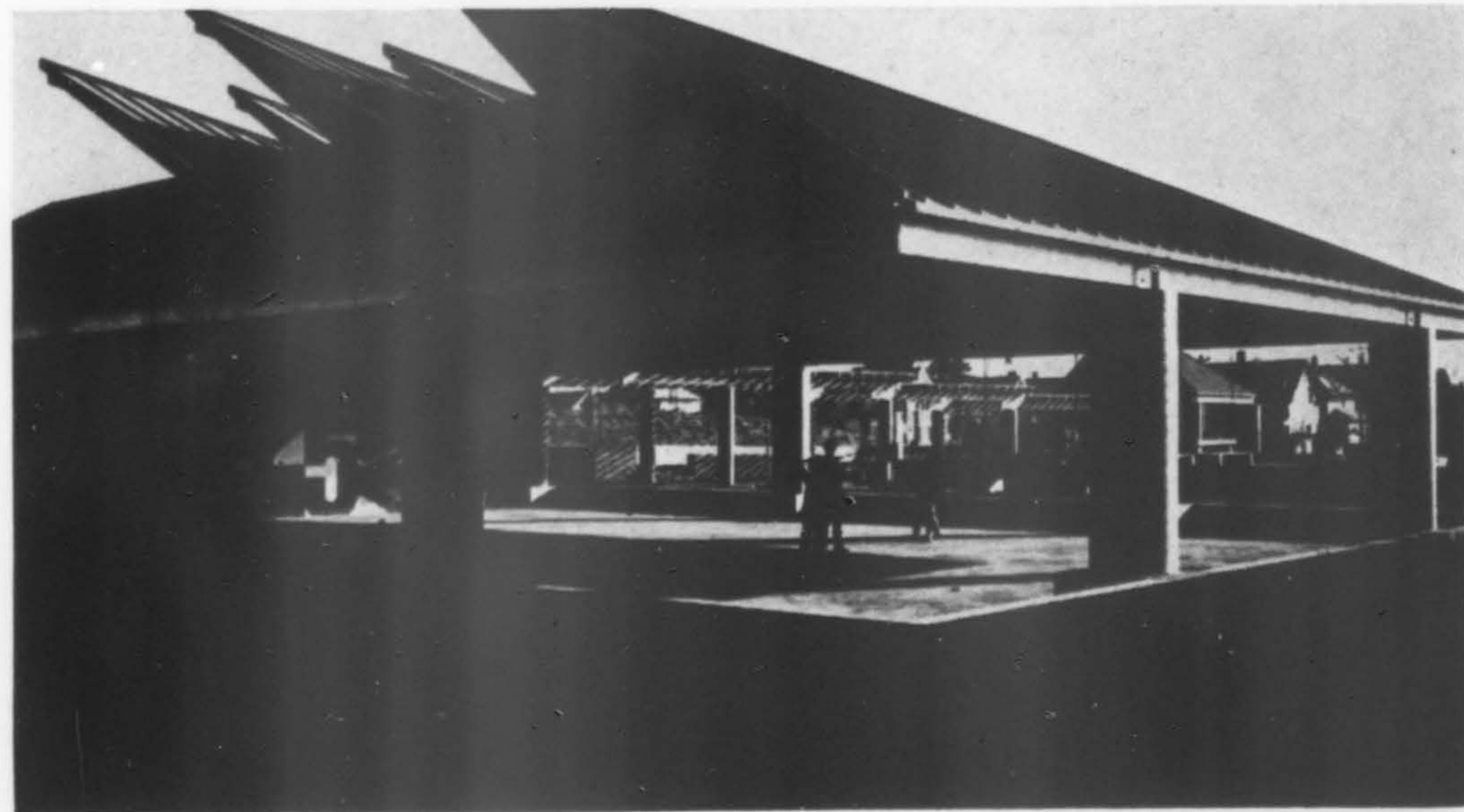
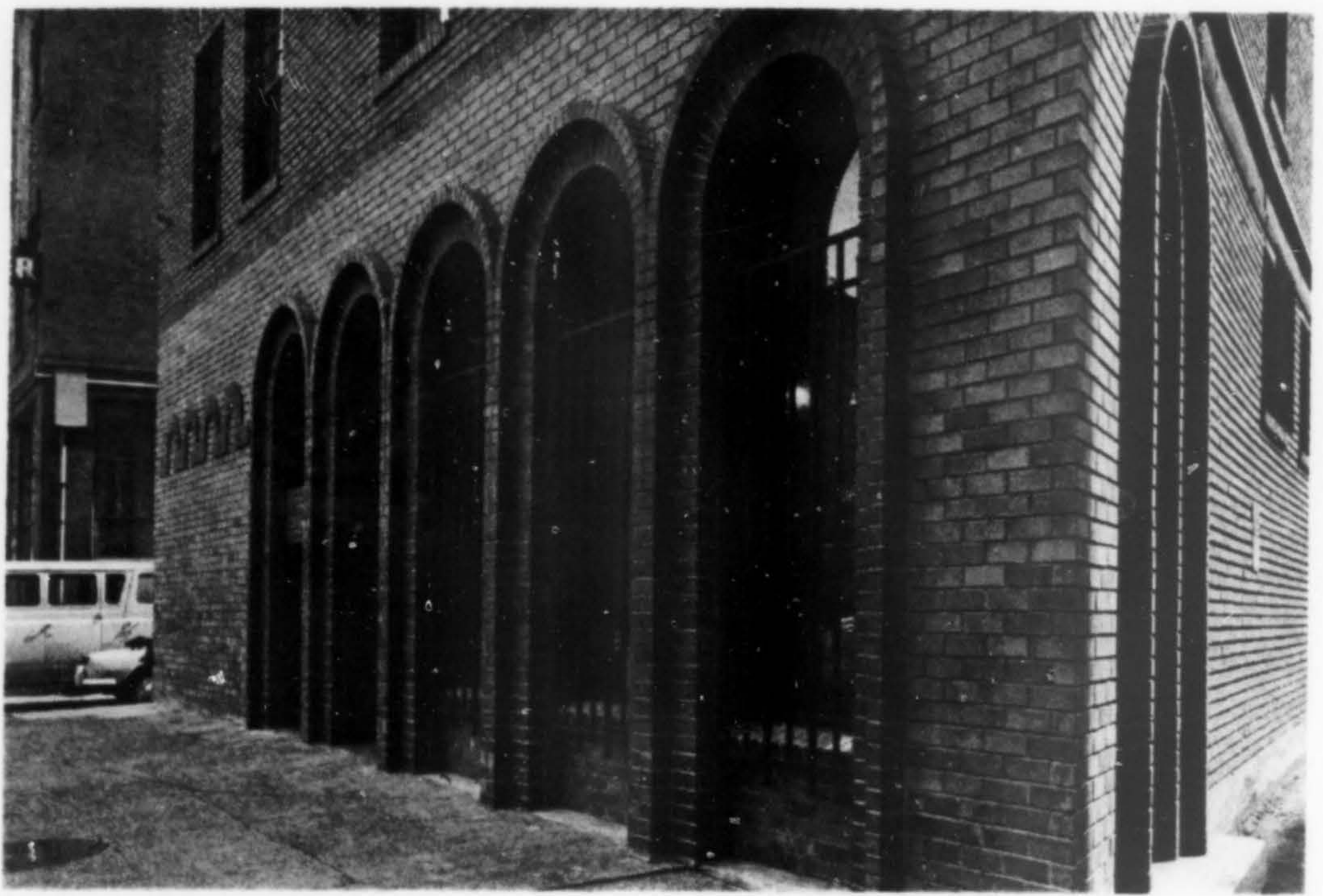


Figure 2, left

prepared for ARCHITECTURE/WEST  
by  
FRED T. COMEE  
Western Regional Manager,  
Construction Marketing  
UNITED STATES STEEL CORPORATION



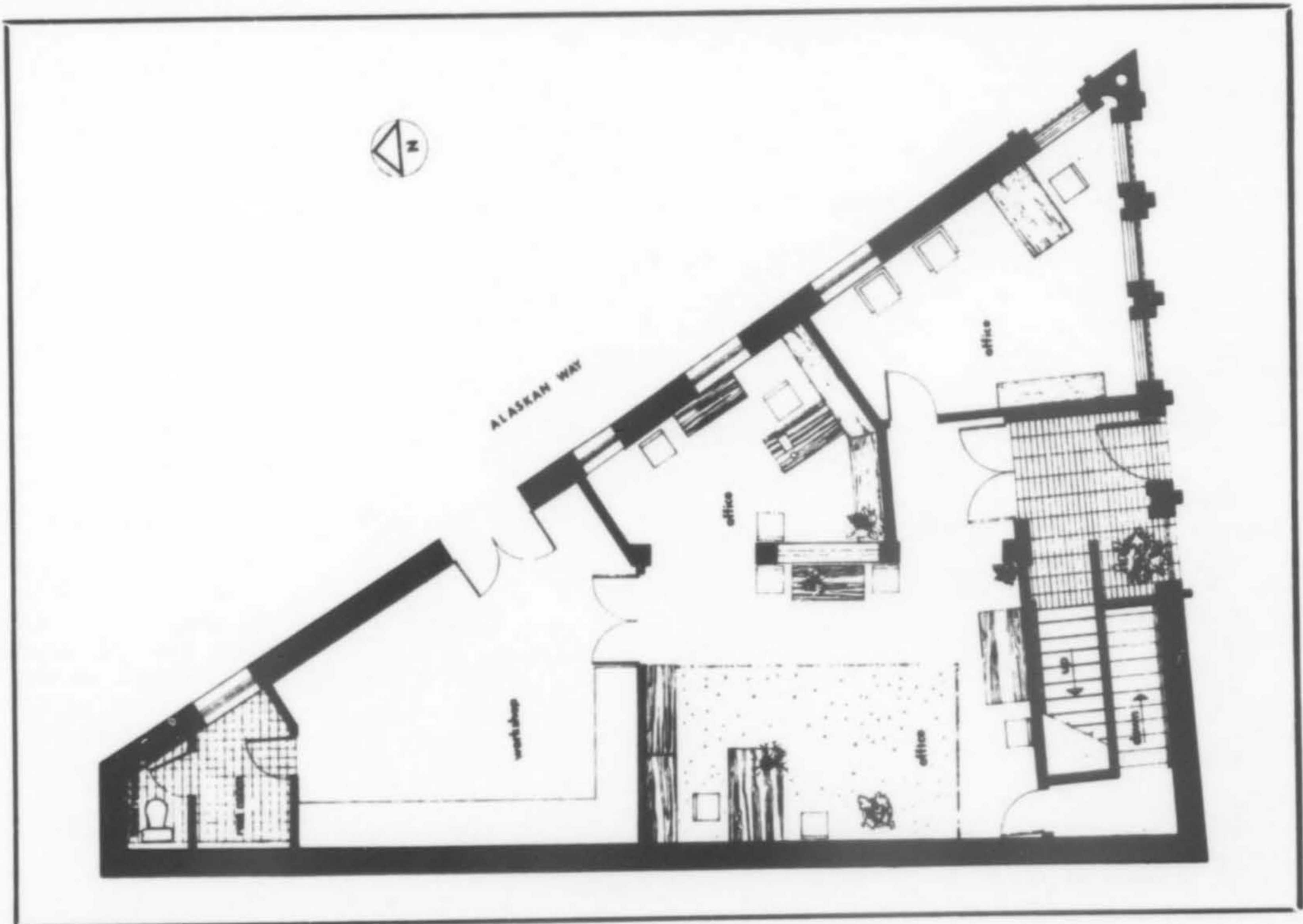
## Design/West

**ONE YESLER WAY BUILDING, Seattle**  
**ALFRED CROONQUIST & ASSOCIATES**  
**Architects**



THE BARANOF HOTEL, landmark of Seattle pioneer days, was purchased by Mrs. Robert Buck for the purpose of developing new office space for the publishing of her magazine, *The Pacific Banker & Business*. It was the purpose of the architect to maintain the integrity of the historic building. The arches and brick detailing recall the flavor of early Seattle and the Pioneer Square area with the interior arches continuing the exterior character. The publishing offices occupy the first floor of this triangular building with the upper floors, rental space. It was given a special citation by the Seattle Chapter, AIA, for the enduring quality of the design.





# Architecture/West

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Boulder, Colo., Physics building, University of Colorado—Harry Weese & Associates; William Heinzman & Associates	Oct.	16
Burlingame, Calif., Convalescent Hospital—Simpson & Gerber; Ted DeWolfe	Dec.	7
Coeur d'Alene, Ida., Toll center and district office, Pacific Northwest Bell—Decker, Kolb & Stansfield	Mar.	11
Corvallis, Ore.—Forestry-Science laboratory, Phase II—Oregon State College—A. P. Di Benedetto	Aug.	10
Denver, Colo., Apartment complex—Donald R. Roark	Jan.	9
Denver, Colo., Kendrick Lakes elementary school—Rogers/Nagel/Langhart	May	7
Denver, Colo., Parklane Tower apartments—Joseph T. Wilson Associates	July	9
Denver, Colo., Cheltenham elementary school — William C. Haldeman	Aug.	10
Denver, Colo., Colorado State Bank — Harwood K. Smith & Partners; Rogers/Nagel/Langhart	Nov	7
Dominguez Hills, Calif., Social Science building, California State College—George Vernon Russell, FAIA	June	9
Edmonds, Wash., Community College—Waldron & Pomeroy	Dec.	7
Eugene, Ore., Law Center, University of Oregon—Wilmsen, Endicott & Unthank	April	12
Everett, Wash., Primary Center, General Telephone Co.—Bryant, Butterfield & Frets	June	9
Fresno, Calif., IBM building—Kurt Meyer & Associates	June	9
Great Falls, Mont., Mountain View elementary school —Hoiland-Zucconi	April	12
Helena, Mont., Physical Education building, Carroll College—Morrison-Maierle & Associates	Jan.	9
Honolulu, Hawaii, Island Federal Savings & Loan Association—Black, Pagliuso, Sata & O'Dowd	Jan.	6
Honolulu, Hawaii, Sheraton-Waikiki Hotel—Wimberly, Whisenand, Allison & Tong, Ltd.	April	13
Irvine, Calif., Aerospace facility for Parker-Hannifin—Albert C. Martin & Associates	April	12
Juneau, Alaska, Alaska State Centennial Museum—Linn A. Forrest Associates	Jan.	6
Long Beach, Calif., Equitable Savings & Loan building —Daniel Dworsky, FAIA, & Associates	Feb.	10
Long Beach, Calif.—Faculty office and classroom building, California State College—Clinton Marr & Associates	Aug.	10
Los Angeles, Calif., Interchange Tower—Dorman/Munselle Associates	Jan.	9
Los Angeles, Calif., Convention headquarters hotel, Bunker Hill—Robert E. Alexander, FAIA, & Associates	Nov.	7
Oakland, Calif.—Martin Luther King School—Van Bourg/Nakamura & Associates	April	12
Pasadena, Calif., Office building—Langdon & Wilson	July	9
Portland, Ore., Sciences building, Portland State College—Campbell-Yost & Partners	May	7
Portland, Ore., First National Bank of Oregon—Charles Luckman Associates	Nov.	7
Portland, Ore., Institute of Religion, Portland State University—Smith & Dahlen	Oct.	17
Portland, Ore., Freedom Bank of Finance—Wilmsen, Endicott, Greene, Bernhard & Associates	Dec.	7
Riverside, Calif., Webber Hall agricultural science building addition—Ruhnau, Evans & Steinmann	Oct.	17
Sacramento, Calif., Education building, Sacramento State College—Bull, Field, Volkman, Stockwell	Sept.	9
Sacramento, Calif., Library, American River College—Barovetto & Carissimi	Oct.	17
Salt Lake City, Utah, J. C. Penney office building—Scott, Louie & Browning	July	9
San Bernardino, Calif., Dormitories, California State College—Morganelli—Heumann & Associates; Harnish, Morgan & Causey	Sept.	9
San Francisco, Calif., Transamerica pyramid office building—William L. Pereira & Associates	Feb.	6
San Francisco, Calif., U. S. Coast Guard facilities, Yerba Buena Island—Rockrise & Watson	Feb.	10
San Francisco, Calif., Senior citizen apartments—Marquis & Stoller	Mar.	11
San Francisco, Calif., Administration building, San Francisco State College—Welton Becket & Associates	May	7
Seattle, Wash., Northwest Construction Center—Durham, Anderson & Freed	May	7
Seattle, Wash., Zoology building, University of Washington—John Morse/Clayton Young	July	9
Seattle, Wash., Office building for American Red Cross—Grant, Copeland, Chervenak & Associates	Sept.	9
Seattle, Wash., Residence facilities, Fircrest School for Mentally Retarded—Shavey & Schmidt	Nov.	7
Tacoma, Wash., Chapel building, Charles Wright Academy—Alan Liddle	Feb.	10
Tacoma, Wash., Bank of Washington Plaza—Skidmore, Owings & Merrill; Lea, Pearson & Richards	April	13
The Dalles, Ore., St. Peter's Catholic Church—Travers/Johnston	Jan.	9
Van Nuys, Calif., Medical complex—Bodrell Joer'dan Smith & Associates	Mar.	11

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Published by  
Construction Publications/West, Inc.  
1945 Yale Place East, Seattle, Wash. 98102  
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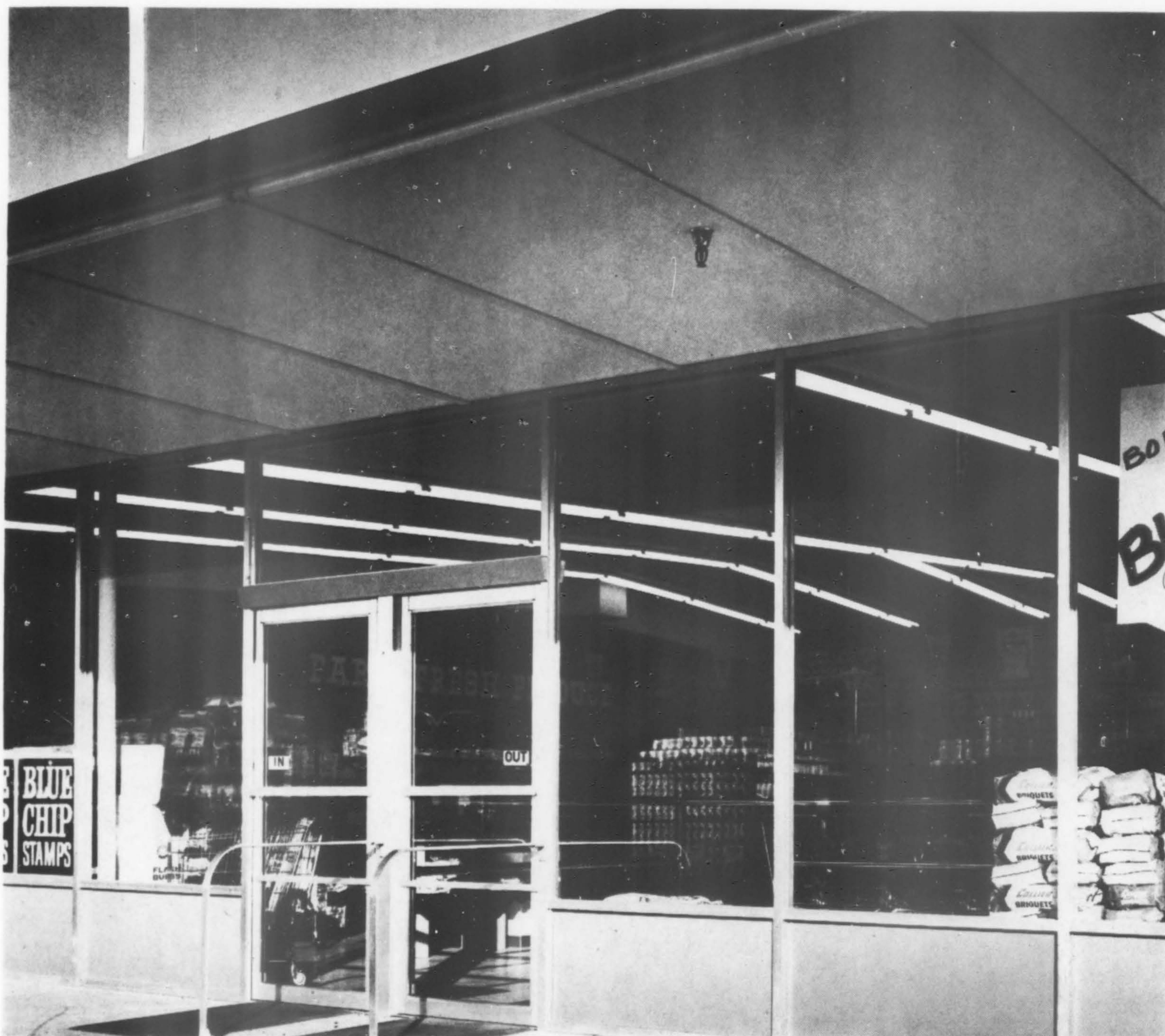


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