

Charette

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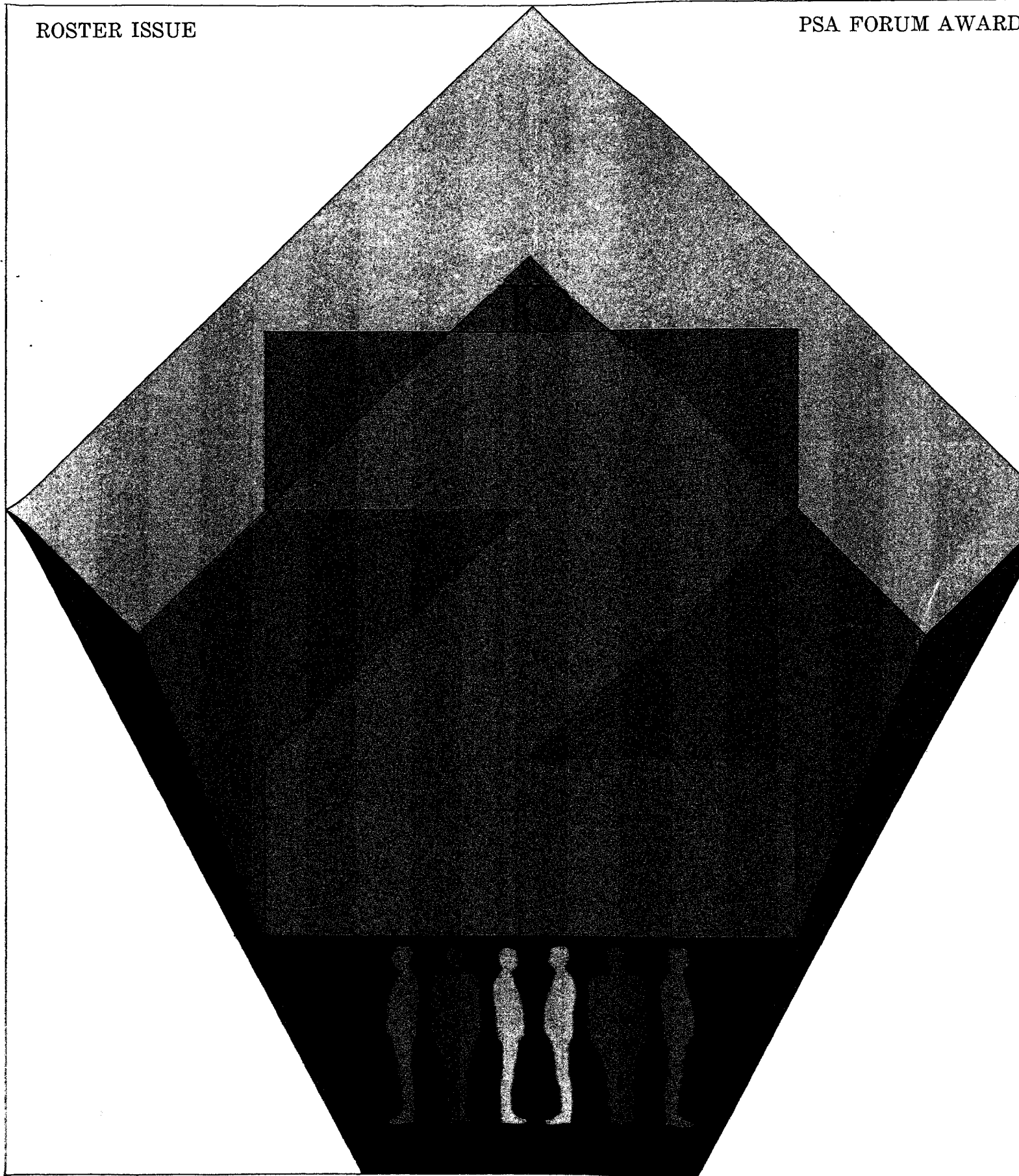
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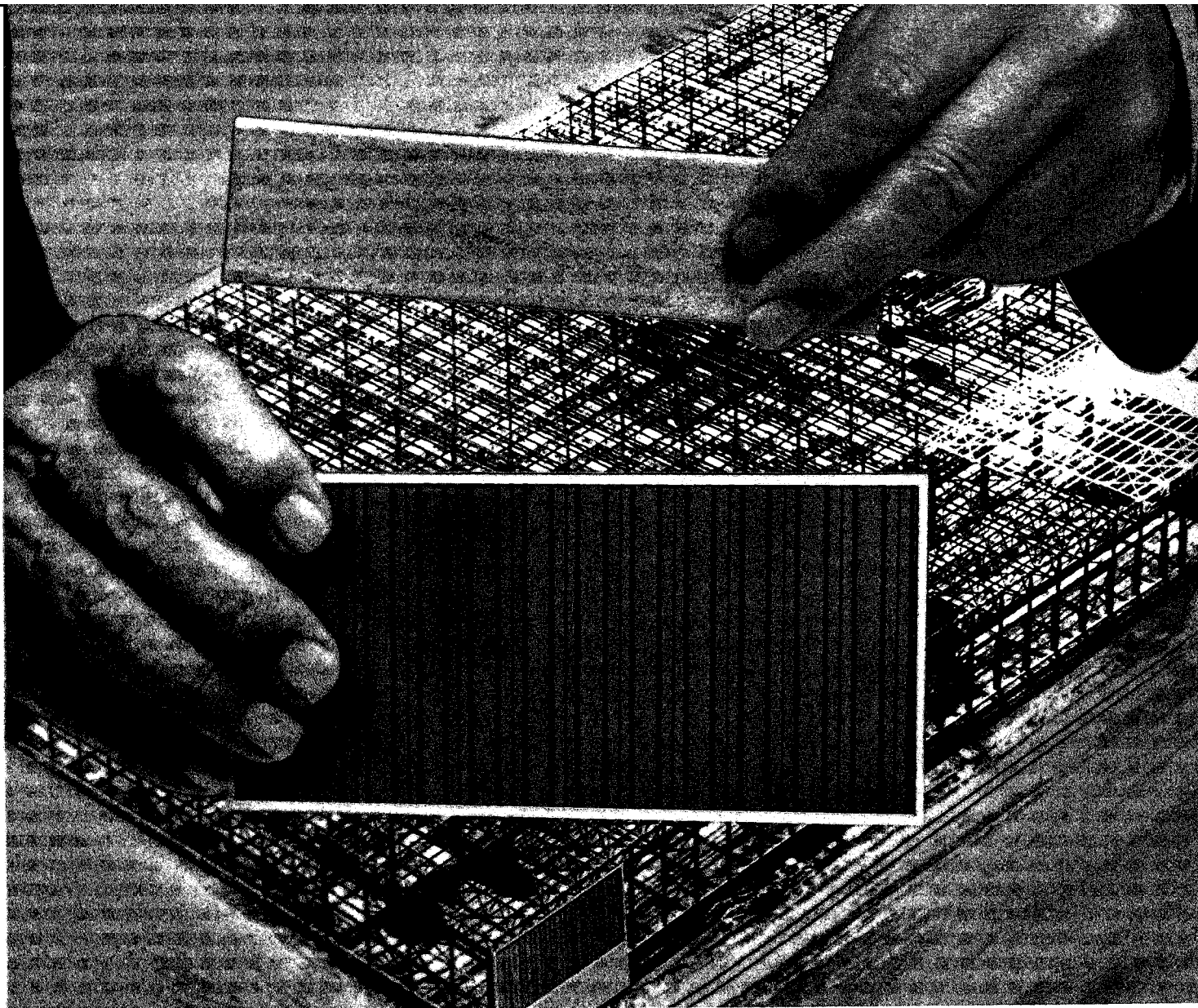
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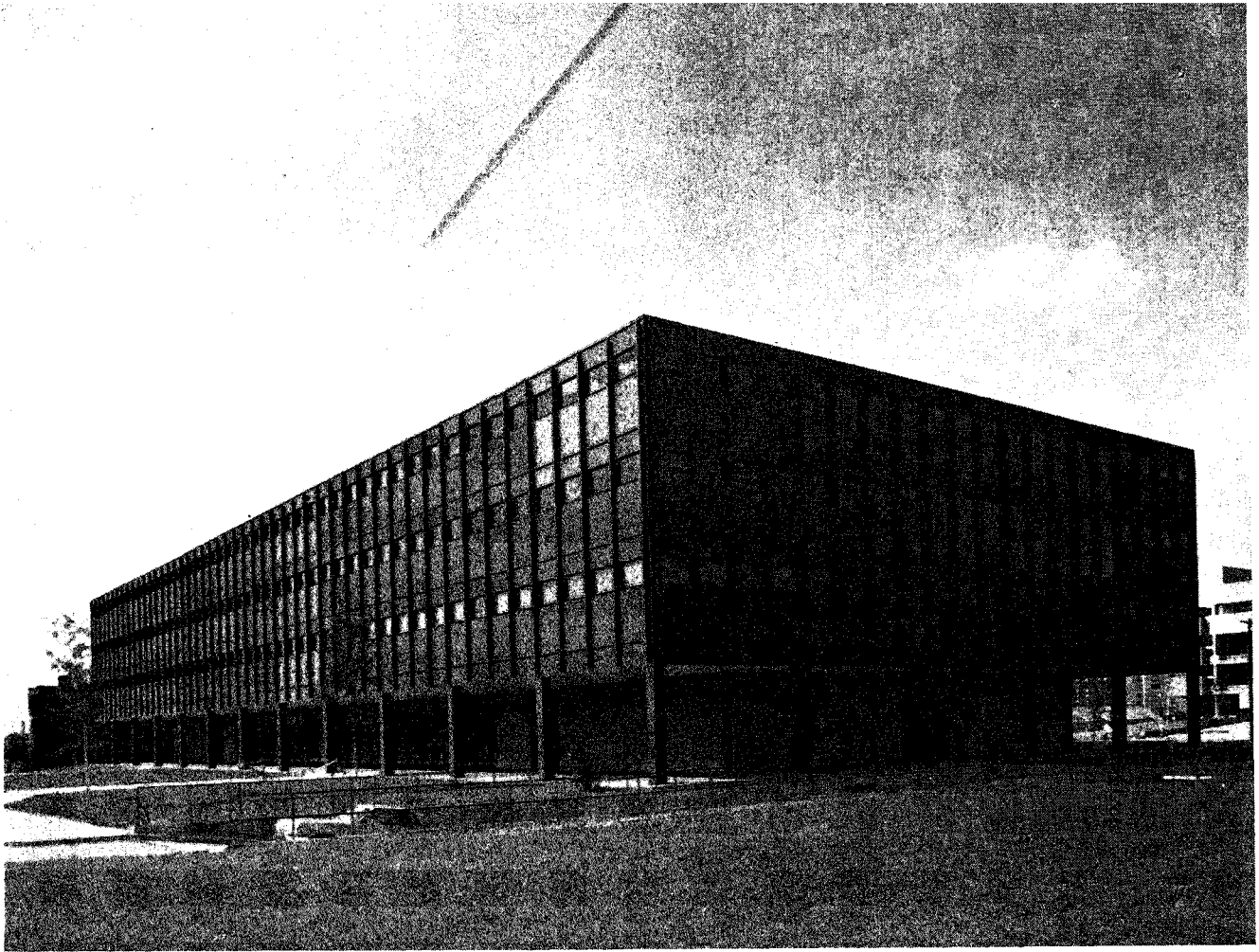
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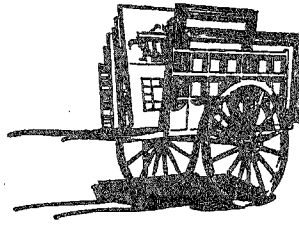
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DOINGS and DESIGNS

Anderson Relocates

Elmer A. Anderson & Associates, Pittsburgh, recently announced the relocation of their offices from 1750 North Highland Road to the Anderson Professional Building at 1701 McFarland Road, Mt. Lebanon Township. Founded by Elmer A. Anderson P.E., in 1957, the firm offers the combined services of engineering, architecture, landscape architecture, surveying, and planning.

Office Changes

Harbeson, Hough, Livingston & Larson, architects, announced that John Malanga and Leon R. Brooks have become associates in the firm . . . Angel B. Chorno, R.A., has been advanced to the position of associate in the firm of *Harold E. Wagoner, F.A.I.A., and Associates* . . . Larry Gene Smitley is now an associate of the firm of *William W. Jamison II, A.I.A.* . . . The firm of *Vincent G. Kling and Associates* named eight new associates. They are Harry W. Peschel, Dan P. Kopple, Jonathan P. Naylor, Eric Chung, Lewis M. Eisenstadt, William B. Hayward, Robert Kear and John F. Larkin . . . *McCloskey & Co., Inc.* announced the addition of John R. Beckum as Manager of Project Planning, and Daniel J. Ferry as Manager of the Real Estate Division.

Metropolitan Brick

William E. Pilati, Sales Manager of Metropolitan Brick recently announced the relocation of the sales department from Canton, Ohio to its plant location

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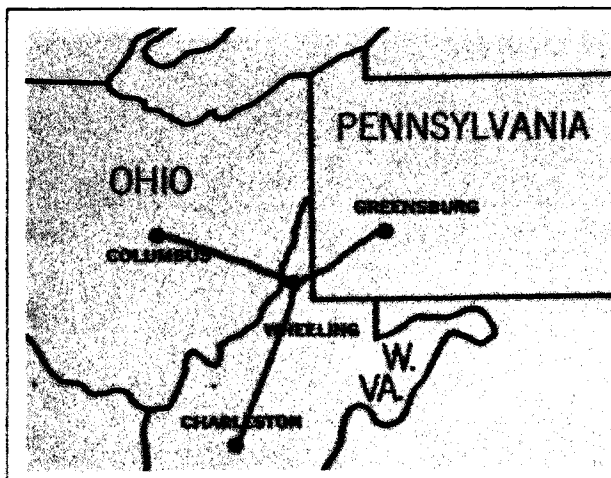
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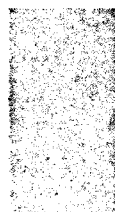
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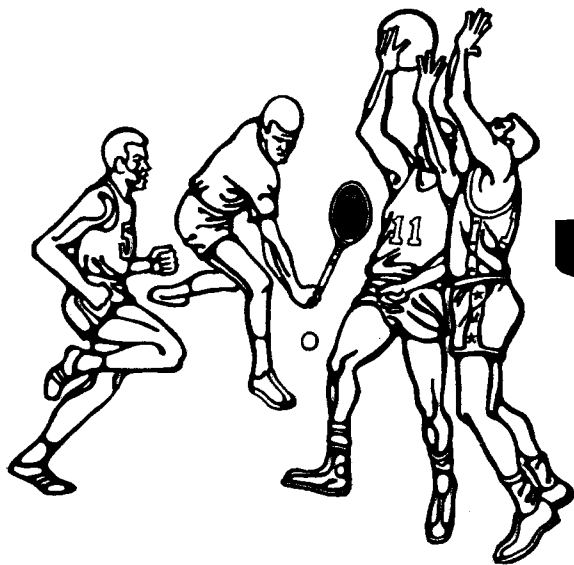
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HIGHWAY DEPARTMENT CO-OPERATES WITH LOCAL CONSERVATIONISTS

Pennsylvania Highways Secretary Robert G. Bartlett announced that specially designated staff engineers will be responsible for co-operation with conservation and environmental groups in each of the Commonwealth's eleven highway districts. He said that the establishment of liaison at the local level "... is another step in our total effort to conserve our natural environment consistent with necessary planned road improvements." The Highways Department has worked with conservation agencies since late in the Scranton Administration, when formal agreements with the Fish and Game Commissions were authorized requiring the signatures

of these agencies on all highway plans before construction could begin. These agreements have been strengthened during the Shafer Administration, and additional agreements have been authorized with Mines and Mineral Industries, Historical Museum Commission and the Forest and Water Department. The Department has been under fire recently for ignoring its destruction of streams, historic landmarks, and virgin green areas. In one case in Monroeville, near Pittsburgh, the Department insists on running a highway through a park purchased in part with Project 70 (state) money! Let's see some action. Then we'll believe it.

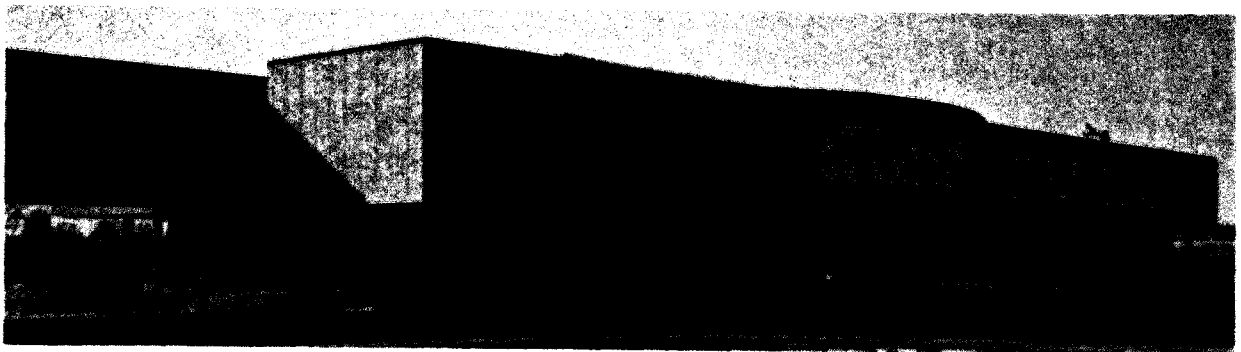


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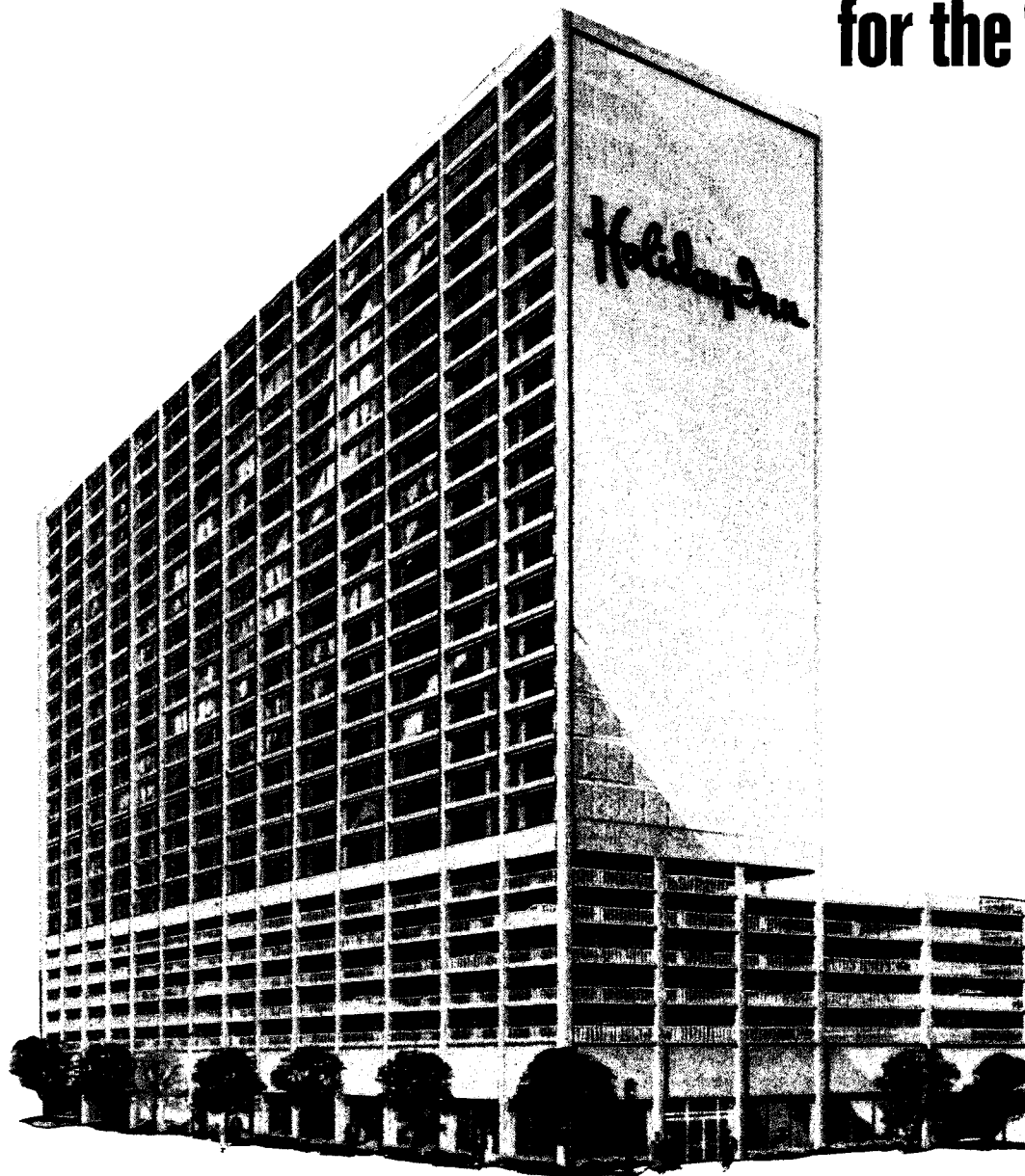
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Philadelphia's newest Holiday Inn chooses *GAS* for the "Big Jobs"!



Architect—Wm. W. Bond Jr. & Assoc.
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Center-City Motel-Hotel to use "4-pipe" gas design.

The \$12 million Holiday Inn under construction at 18th & Market will use a de luxe, central plant gas system for all heating and air conditioning. Also all cooking, clothes drying and domestic hot water will be supplied by gas. This 26-story, 500-room hotel offers quiet, draft-free rooms—thanks to the "4-pipe" system that allows either heating or cooling of any room, independent of other rooms.

Some other outstanding features include a 600-seat

movie, below grade, a 124-seat coffeeshop, a 100-seat cocktail lounge and a 192-seat dining room—all served by gas. Noise, dirt, air pollution are not and will never become problems with clean, dependable, low-cost gas.

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CONSTRUCTION OVER SHALLOW MINES: TWO CASE HISTORIES

With accelerated suburban expansion, utilization of sites once considered unacceptable for residential and commercial development is a necessity: in the heavily-mined coal regions of Western Pennsylvania, this is a fact of life. It has become necessary for the foundation engineer to find new methods—and improve the old—of supporting structures over mined-out areas. Three basic schemes are commonly employed to provide the necessary support: grouting the entire mine; installing grout columns strategically situated to support the mine roof; and constructing cast-in-place drilled caissons to by-pass voids in the mine founding the structure below the mine. The economic feasibility of a proposed development dictates the most suitable specific scheme—for example, the cost to install cast-in-place drilled caissons longer than 40 ft. through rock to support a low-rise structure would approach the cost of the structure itself. This paper describes two different support schemes employed for two dissimilar structures constructed over shallow mines: the first is a two-story garden apartment building whose construction was initiated without benefit of a foundation investigation; the second is a 160-ft. self-supporting tower which not only required high bearing capacity, but uplift resistance due to wind loads as well.

CASE I:

GARDEN APARTMENT OVER TWELVE-FOOT VOID

Case I: Garden apartment over twelve-foot void

At the site of a 35-acre garden apartment development in the Greater Pittsburgh Area, preliminary subsurface explorations in conjunction with a coal search established that the site was undermined during World War II with subsequent postwar strip mining about its periphery. Because of the thickness of the coal seam, it was economically feasible to strip until the highway attained a height of about 40 ft. The mine was abandoned and the stripped area backfilled.

The results of the preliminary investigation indicated that structures located 50 ft. or more above the roof of the mine could be constructed without special foundation provisions; and those on the strip-mine fill—which was well-compacted—could be founded on line footings reinforced both top and bottom to facilitate the transfer of loads from shear to bending. The preliminary recommendations were contingent on specific foundation investigations for each structure after the site grading was completed; these were never undertaken. It was therefore no surprise that during construction two years later, difficulties arose because of irregularities in the transition zone between stripped and tunnel-mined areas. It was by a fortunate accident that voids beneath the structure under construction were discovered as, during the same time, trenching for a deep sewer was underway about 40 ft. from the low-side of the structure as shown on Fig. 1. Construction was halted and a detailed subsurface investigation was immediately undertaken, the results of which are summarized below.

A survey in the accessible part of the mine was conducted along with the borings—the measured zone of the mine is superimposed on Fig. 1.

Upon arrival at the site it was observed that foundations and floor slabs for two structures over voids were already poured and that all below-grade plumbing was installed. Examination of the mine from the sewer trench and a review of subsurface explorations ascertained that the structure was bearing on 18 ft. of broken sandy shale with occasional sandstone seams underlain by a 12-ft. void. From the visual inspection and the boring data, it was estimated that 20 per

BORING DESIGNATION	DEPTH TO ROOF COAL OR VOID	THICKNESS OF COAL OR VOID	DESCRIPTION OF OVERBURDEN
A-1	(feet) 20	(feet) 12 (Void)	Natural
A-2	23	7 (Coal)	Natural
A-3	-	Stripmined	Strip Backfill
A-4	-	Stripmined	Strip Backfill
A-5	-	Stripmined	Strip Backfill
A-6	21	7 (Void)	Natural
A-7	21	9 (Void)	Natural
A-8	17	14 (Void)	Natural
8-A	23	10 (Coal)	Natural
2-A	21	13 (Void)	Natural

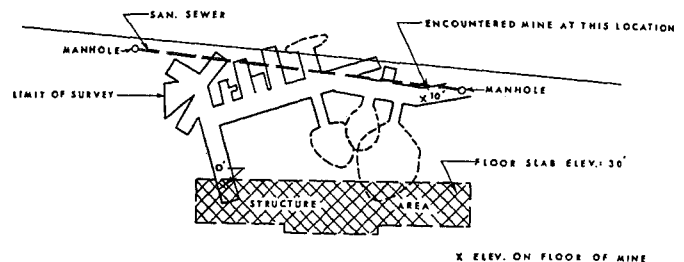


FIG. 1 - PLAN OF STRUCTURE AND SHALLOW MINE

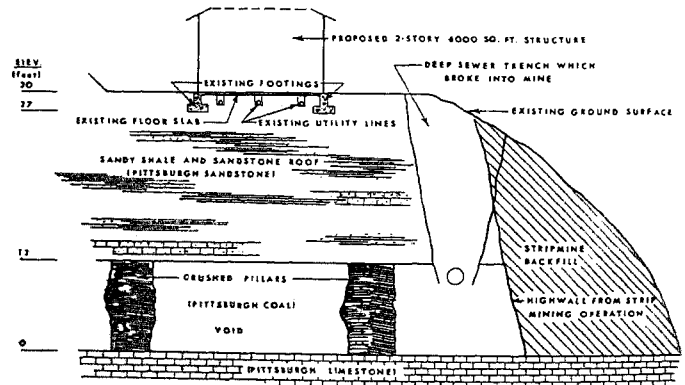


FIG. 2 - PROFILE THRU SHALLOW MINE BELOW STRUCTURE

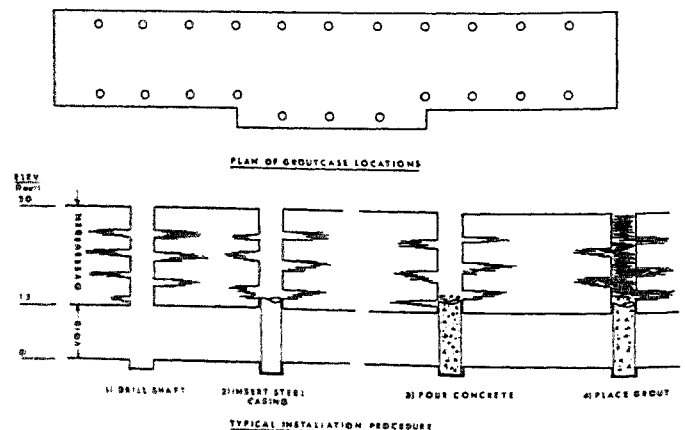


FIG. 3 - "GROUTCASE" SUPPORT SCHEME

cent of the coal remained intact, just adequate to prevent total subsidence of the area. Figure 2 is a typical cross-section through the building area showing a representative subsurface profile.

Consideration was given to grouting the voids completely, but the required volume was so high that the cost of this installation would have exceeded the entire construction cost. Because of the height of the voids, grout columns would also involve large quantities relative to the structure cost. The utilization of cast-in-place drilled caissons extending to the floor of the mine was then evaluated—but with this scheme a costly suspended system would be required, abandoning all existing foundations, utility lines, and floor slabs. It was finally determined that a combined system employing drilled caissons to support the overburden between the structure and the mine roof while using grout to strengthen the overburden could be economically installed. The implementation of this scheme, as illustrated on Fig. 3, was accomplished in the following manner.

- 1) Holes of 24-in. diameter were drilled on 15-ft. centers within the structure area only. All holes penetrated at least two feet into the Pittsburgh Limestone beneath the coal seam.
- 2) Steel casings were inserted in the voids and seated into the limestone. The casings were cut to predetermined lengths such that they would project three feet into the overburden above the void.
- 3) The steel casings only were filled with 3000 psi concrete and the concrete was permitted to set for at least 24 hours.
- 4) Lean cement grout in a fairly fluid state was poured into the drilled hole under gravity developing maximum pressures of about 15 psi, diminishing to zero at ground surface. As the grout dissipated laterally into fissures and voids, additional grout was added. The grout "take" was monitored to assure that it didn't find a breakthrough into the mine.

Conclusions

The advantages of the support scheme finally utilized for this case are twofold: the caissons act as pillars, or posts, supporting the roof of the mine while the grout enters the fissures and voids in the overburden strengthening the roof and facilitating arching action between the pillars. After the installation of the support mechanism (designated "Groutcase") was completed, the existing floor slabs, foundations and utilities were used as originally installed. The structure has been monitored for about four years and has not displayed any distresses due to the mine. It is concluded that this scheme is most feasible when employed in areas of existing construction where the three "basic schemes" individually are not economical. Otherwise, conventional caisson and grade beam construction at this particular site would be deemed more practical. It is noted that the total cost for installing the "Groutcase" system was \$12,000.00, or approximately \$2.00/sq ft. of floor area.

CASE II: 160-FOOT SELF-SUPPORTING TOWER OVER EIGHT-FOOT VOID

Case II: 160-Foot self-supporting tower over eight-foot void

U.S. Army Site 71, part of the Pittsburgh Nike Ring, is located in Robinson Township, a west suburb of Pittsburgh. The tower site is located on top of a knoll which is essentially level at USGS elevation 1187 ft. During a coal search, later substantiated by subsurface explorations, it was found that the base of the mined out Pittsburgh Coal seam lay approxi-

¹Principle Engineer, Engineering Mechanics, Inc., Consulting Soils Engineers, Pittsburgh, Pennsylvania

mately 32 ft. below existing ground surface with the mine roof only 25 ft. below ground level. At the nominal foundation depth of six feet, this interval is reduced to 19 ft. Of four borings drilled during the foundation investigation, one encountered a 7-ft. void, one an 11-ft. gob-filled void; and the other two, 9-ft. crushed coal pillars indicating incipient subsidence.

Generally, foundations over a shallow mine can be reduced to a simple cast-in-place drilled caisson and grade beam system. However, because of the uplift resistance required by the tower, a different technique was necessitated. The foundation system finally employed, as shown on Fig. 4, consists of four 36-in. diameter cast-in-place caissons extending through the overburden and socketed two feet into the limestone below the coal. It was essential to leave the steel casings intact to assure that no bond would develop between the caisson concrete and rock overburden. During the installation, the drill augers passed through six feet of residual soil and then encountered sandy shales with sandstone seams in the interval between the top of rock and coal seam—that profile is also shown on Fig. 4.

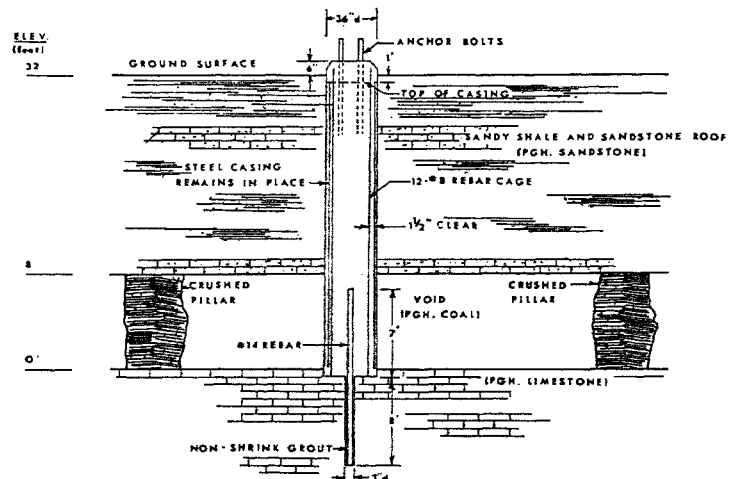


FIG. 4—TYPICAL SECTION OF CAISSON THRU MINE

Three of the caisson drill holes encountered voids—averaging eight feet high—while the fourth passed through a crushed coal pillar. After the casing was seated into position, the bottom of the caisson hole was cleaned out and a three-inch diameter anchor hole was drilled from the bottom of the caisson to a depth of eight feet with a jackhammer. No. 14 steel reinforcement rods were inserted and the remaining cylindrical void filled with non-shrink grout. A steel reinforcement cage was then lowered into the casing and the concrete was poured. At that time the foundation anchor bolts were set.

Conclusions

The tower has been monitored for over two years and is performing satisfactorily. The total cost for the above installation was approximately \$6000.00 as compared with a conventional pad foundation cost of about \$2000.00.

The significance in comparing Case I with Case II is the degree of flexibility available when the voids of the shallow mine are discovered early in the exploratory program and a follow through is maintained by the engineer. The recent utilization of heavily undermined sites in the west and south sections of Allegheny County especially warrants detailed investigations and prudent judgment in the selection of foundations.



Shown are Mr. Russo, left, Vice-President Howard Schindler, Mr. Romano, and President William Mullin.

Photos by Carroll Miller, Jr.



Present officers of the Club are Treasurer Thomas Holtzman, Mr. Schindler, Mr. Mullin, and Secretary Jane Loftus, pictured here at the Club Quarters.

Pittsburgh Architectural Club hosts local film producers

The Pittsburgh Architectural Club, Third and Wood, whose membership includes architects and allied professionals, along with representatives of the building industry, was introduced to the new and growing field of motion picture production here in Pittsburgh.

At a meeting of the Club in early December, Mr. George Romero and Mr. Jack Russo, of The Latent Image, producers of the Pittsburgh feature film, "Night of the Living Dead," exhibited several of the firm's latest productions in this City.

The film industry opens new ways to expand Pittsburgh's importance in the arts and to emphasize this aspect of the renaissance of cultural activity which

underlies the physical growth of the City in recent years.

The Pittsburgh Architectural Club has, in its over seventy years of existence, supported and encouraged excellence in all the arts, particularly those associated with the building industry, and welcomes this relatively new activity of film making as a means of drawing widespread attention to Pittsburgh.

BOOKS

TASSO KATSELAS, ARCHITECT, PLANNER. Ed by Edith Wile and Jack Ehrman, designed by Jack M. Stricker, Pittsburgh (?): Geyer Printing Company, 1969(?).

In the present Commonwealth of Western Culture, of which Pittsburgh is a remote but still viable province, such a book was inevitable. Among the younger architects of western Pennsylvania, Tasso Katselas is perhaps the best known. He is a designer possessed of no inconsiderable talent, a fact that has been apparent since he opened his Pittsburgh office in 1956, and there is now an ever enlarging body of his executed work by which his ability can be weighed and assessed.

Weight and assessment? It is to be assumed that the book will assist us here, and since it is about a man who designs, we are prepared to move in critically. Straight off, the title page (or what passes for the title page) informs us that this bookish production was designed by a designer who is not Katselas. All we want are visual images and information concerning the architect but we speedily, as we got into the book, find ourselves immersed in a design extravaganza that possibly recommends Katselas, but it might be Stricker, in scene after scene of dramatic illusion.

Perhaps we expect too much. Everything in the book has a large glow and shine, a glossy ingenuity that connotes the heaven promised by the public relations expert, that invites the benediction conferred by the great American advertising industry.

There are serious defects such as the lack of pagination as well as the lack of identification for any of the buildings so handsomely pictured. Photos of the same structure are scattered on different pages, and no verbal help is provided so that the reader might identify photo with project. Also, through a kind of haze, Tasso Katselas himself appears on a large number of pages, a foggy visage meditating behind words and plans.

However that may be, the book is Katselas as presented by the editors, by the photographer, by the textual Katselas himself, as abstractly excerpted by the editors, and last, but not least, by the designer of the book. It is no mean performance and celebration. *Ossa* is piled on *Pelion* and both on *Olympus*. Are the gods impressed—and the prospective

clients? We marvel; from the volume emerges the city of Katselas, high and grand, surely no small place, but something obscure as to identification. It's difficult to believe that it's not all a dream.

In passing, this reviewer who deals in words is more than impressed by the golden web of text that Katselas has flung over his bright presented city. Why, we ask ourselves, did he bother to design buildings when he might have constructed effectively a city of words? This architect has more than one talent.

But beyond this sweet persuasion, we are stubbornly of the opinion that the *real* city of Katselas (since he *has* chosen to design and build) lies in the actual landscape of the Pittsburgh region. That city we do not at the moment feel competent to discuss; although we were much interested in his early work and have noticed some of it on these pages, we have not really visited and experienced many of his recent projects.

This we hope to do someday and then we feel that we might begin to understand and appreciate the city of Katselas. Meanwhile we return to the dedicated surrogate city of the book, with the firm conviction that all those public-related vistas will not lack for devotees and admirers.

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ONE SILVER MEDAL AWARD,
FIVE HONOR AWARDS AND
TWENTY-THREE DISTINGUISHED
BUILDING AWARDS WERE DISTRIBUTED
TO PENNSYLVANIA ARCHITECTS AT THE
1969 PSA ANNUAL FORUM.
THE AWARD-WINNING PROJECTS ARE
FEATURED ON THESE PAGES.

SILVER MEDAL AWARD



SILVER MEDAL AWARD

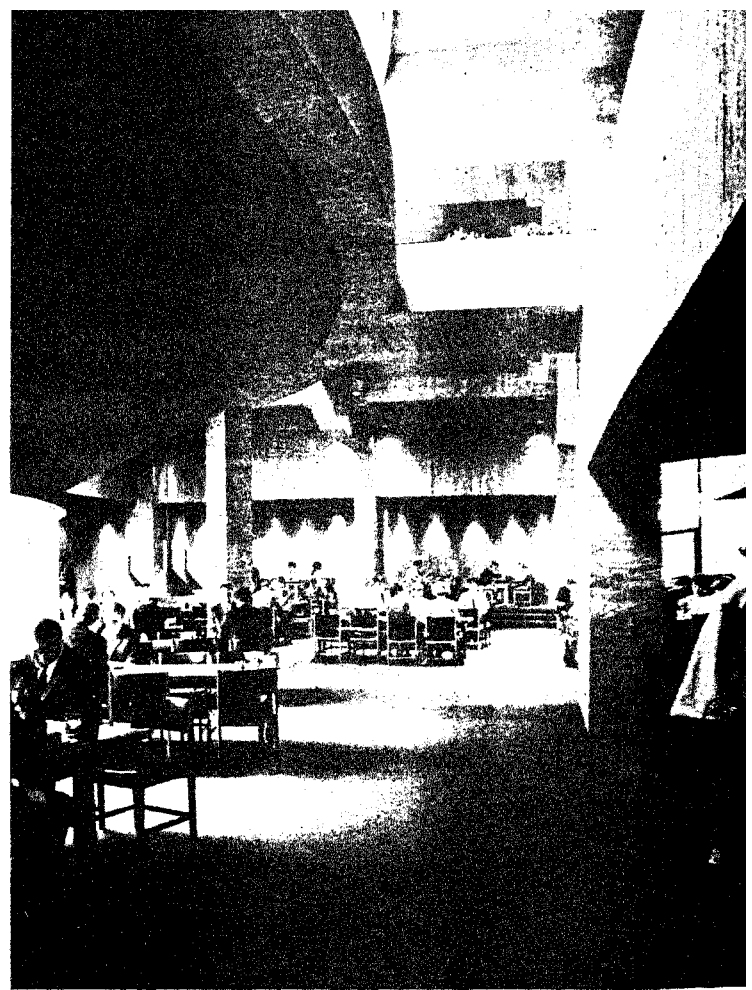
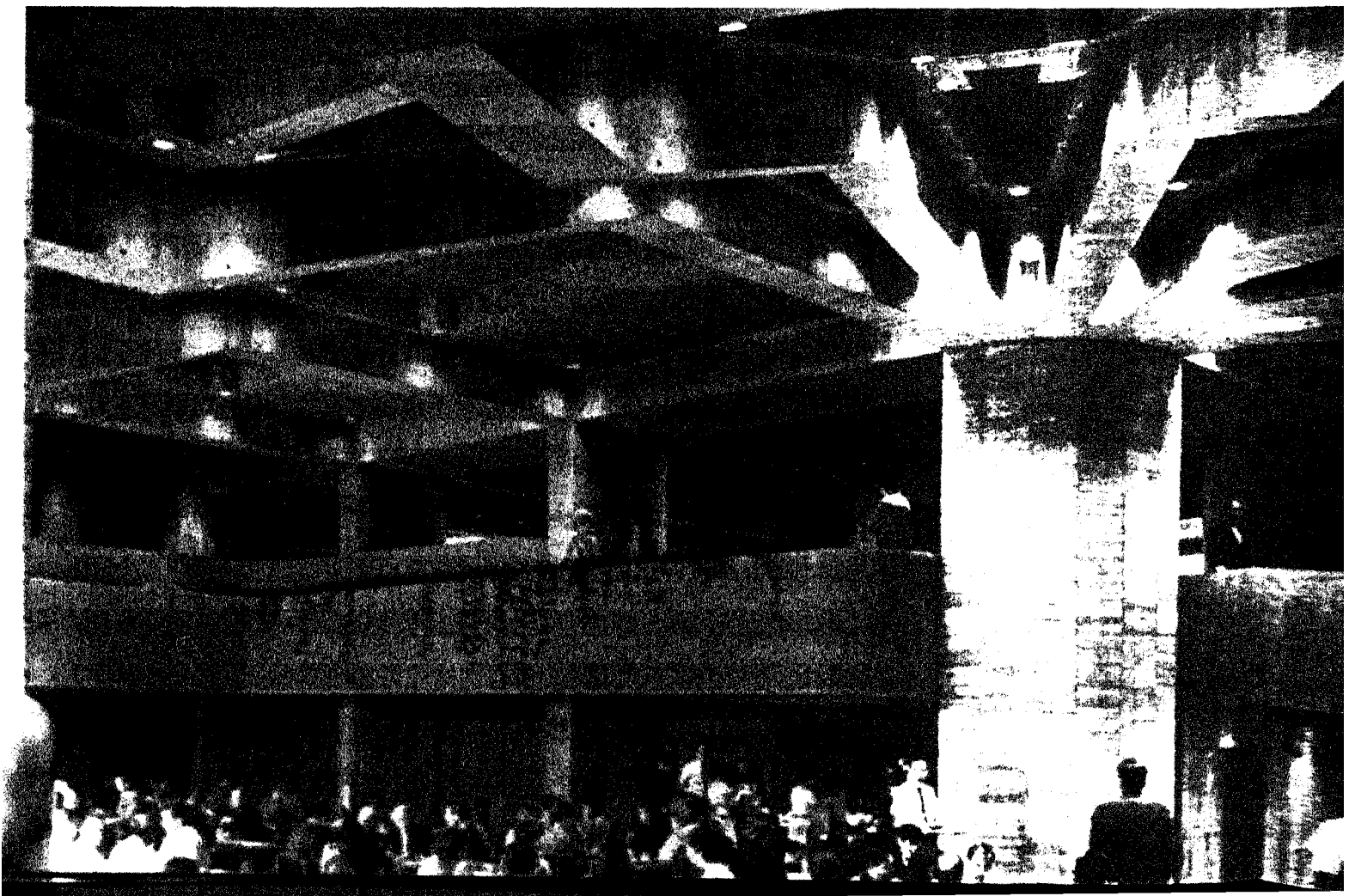


Photo: Lawrence Williams

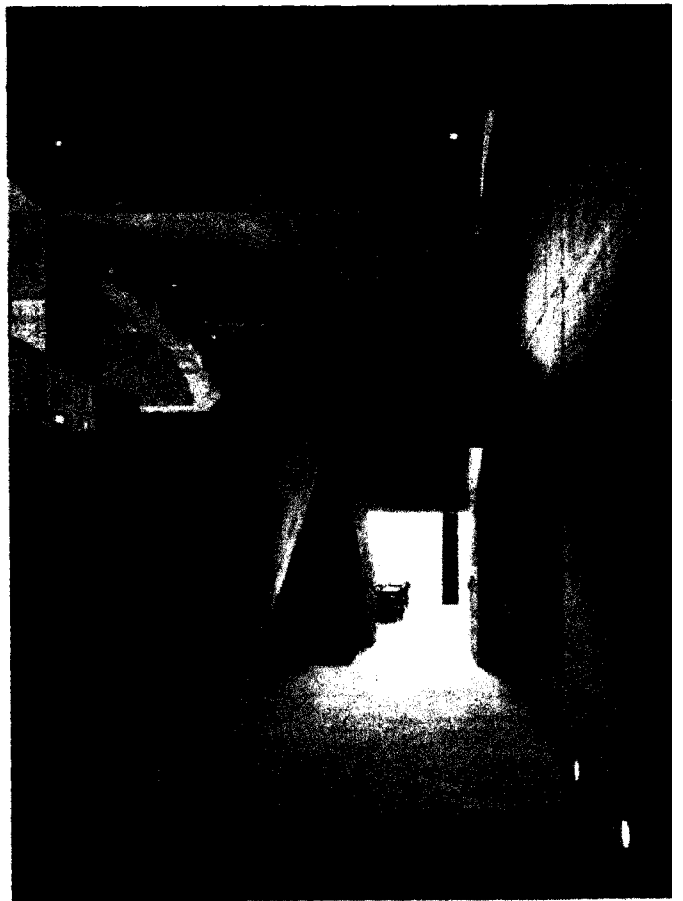
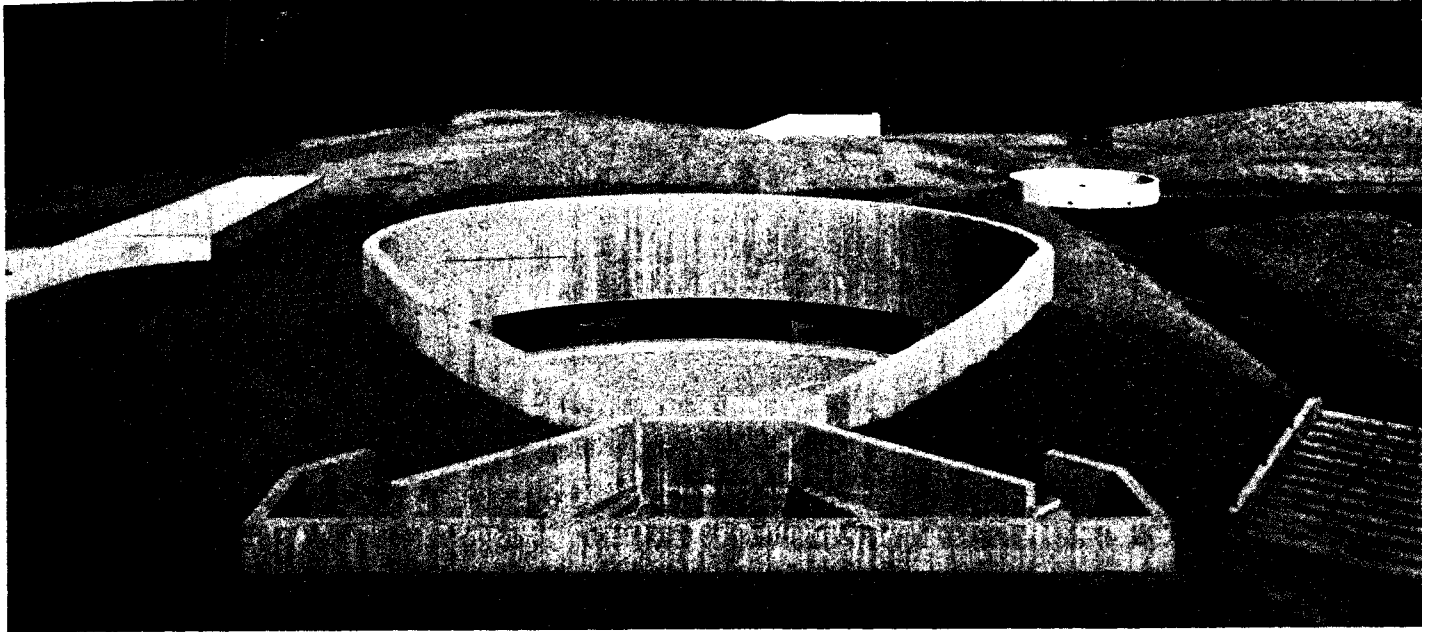
Photo: Mac Mizuki

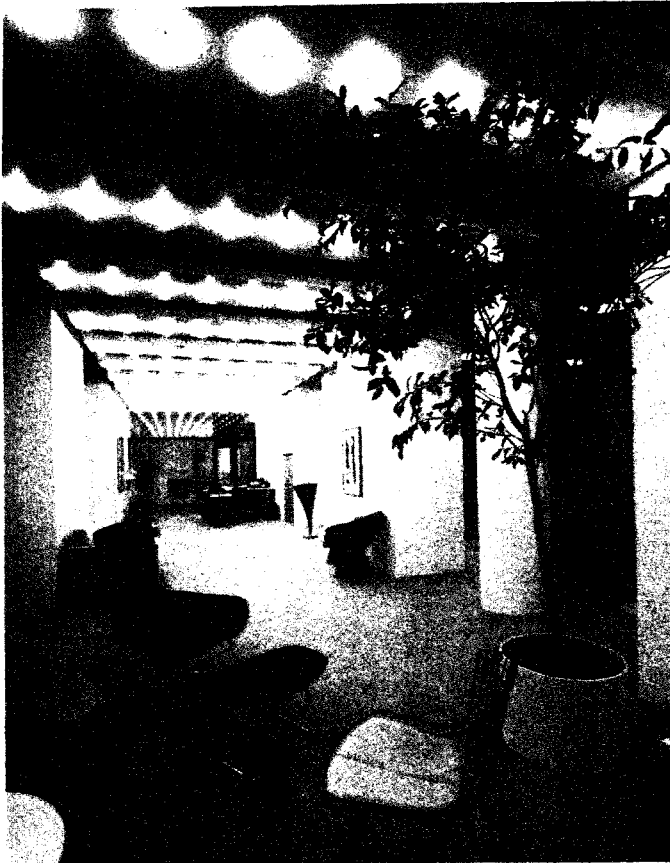


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CAMPUS OF MONSANTO COMPANY
NEAR ST. LOUIS

A project of multiple importance in the sense that it is an early example of the absolutely concealed architectural form,—an architecture which will be an increasingly important facet in our highly urbanized, high density society. The building resolves a modern urban density program in high style, beautifully done, well concealed interior forms and space which make a variety of spaces exciting. The building is also a dignified contribution to the environment. The simplicity of the materials works well with the complication of the form.

Photo: Lawrence Williams



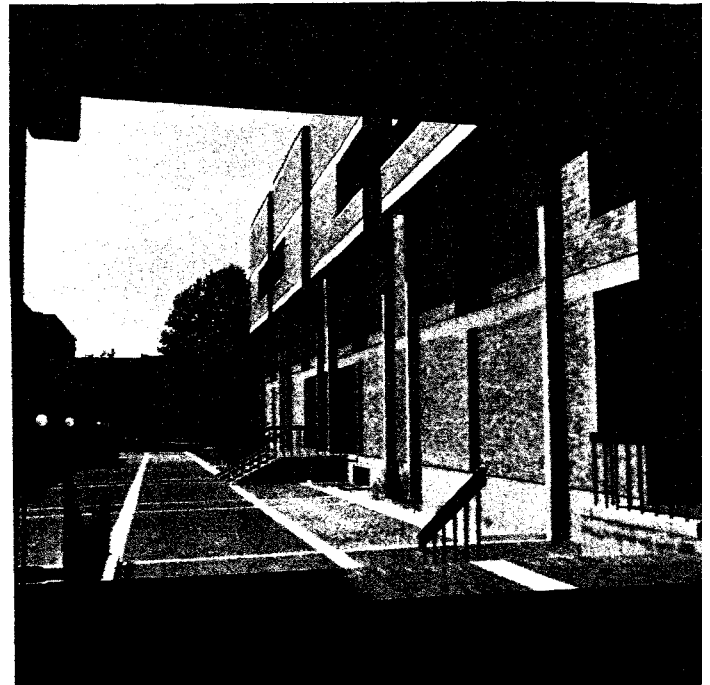


HONOR AWARD

Photo: Harold Corsini

DAMIANOS AND PEDONE
PITTSBURGH, PENNSYLVANIA
FRANKLIN INTERIORS SHOWROOM
PITTSBURGH, PENNSYLVANIA

A well-styled, high-styled, *au courant* combination for a remodeled interior. Lively but modest, suitable for today's decision-buying, and practical as an environment to make that decision.



HONOR AWARD

Photos: Charles M. Ogden

ESHBACH PULLINGER STEVENS & BRUDER
PHILADELPHIA, PENNSYLVANIA
CLASSROOM OFFICE BUILDING
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A good geometric plan that provides for a variety of room spaces and negative volumes relating to programmatic purpose. These geometric forms are incorporated within a simple structure which appears to relate comfortably with the adjoining buildings.

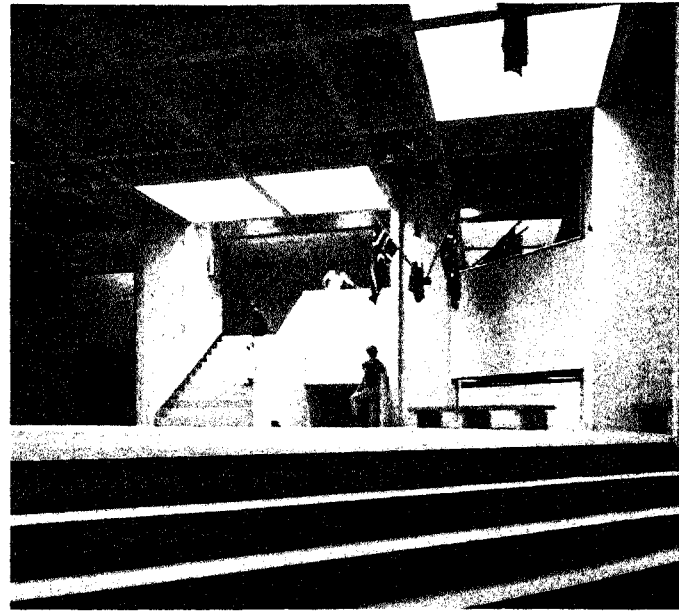
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HONOR AWARD

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An ingenious accommodation of two very different uses for office space and garage, especially responsive to the difficult job of adding on on a hilly slope to an older building. It has a simple, tasteful, good use of concrete and a fine relation as an example of urban street form.

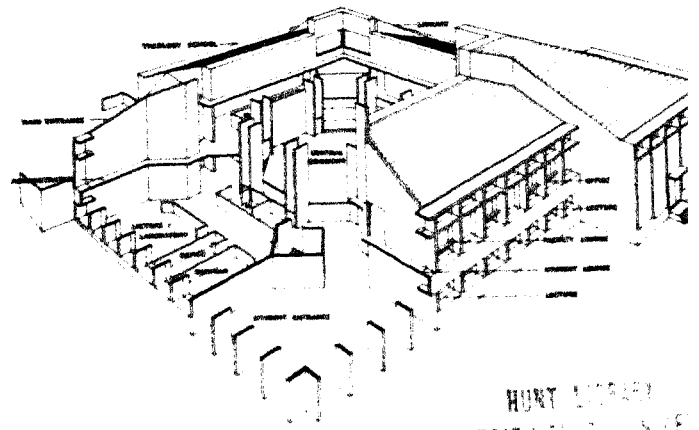


HONOR AWARD

Photos: Walter J. Kaufma

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AND THE THEOLOGICAL SCHOOL
THE ACADEMY OF THE NEW CHURCH AT
BRYN ATHYN, PENNSYLVANIA

A fine example of a geometric building in which the evolution of the plan evolves into three-dimensional form and provides a constant, recurring element of that form. The extrapolation of the form into plan, volume, and structure adds to the three-dimensional character.



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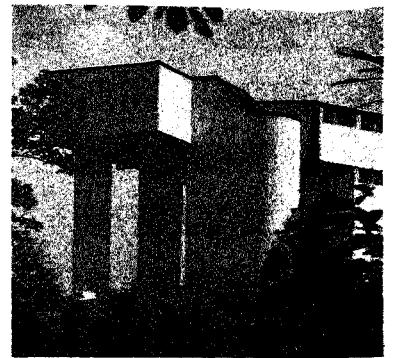
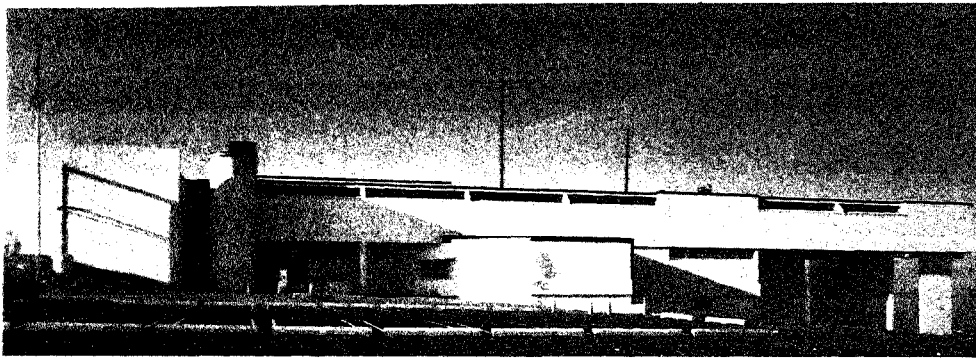
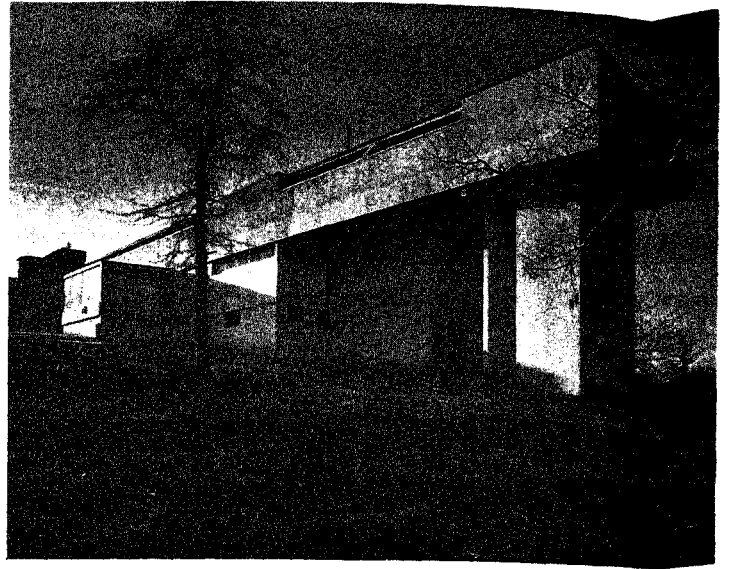
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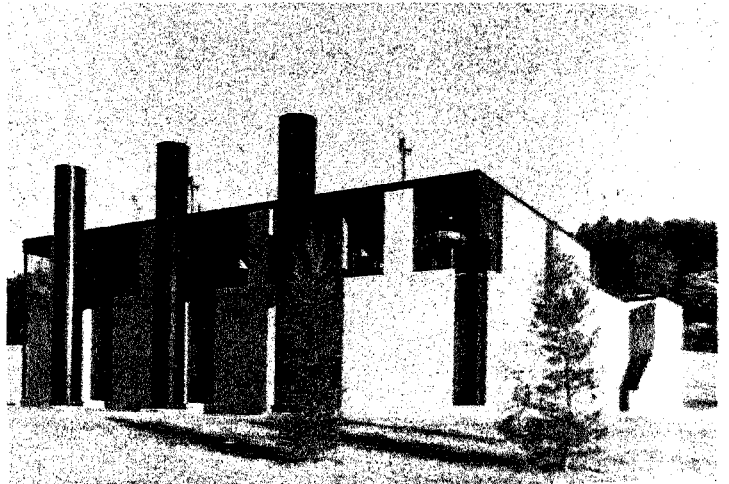
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NAVAL RESERVE TRAINING CENTER
SCRANTON/WILKES-BARRE, PENNSYLVANIA

A very clear example of a programmatic building carried out in a consistent architectural philosophy and an architectural vocabulary reflecting the international school of architecture in the 30's and at the same time the machine aesthetic in the primary structure of the 60's.

Photos: John Holmes



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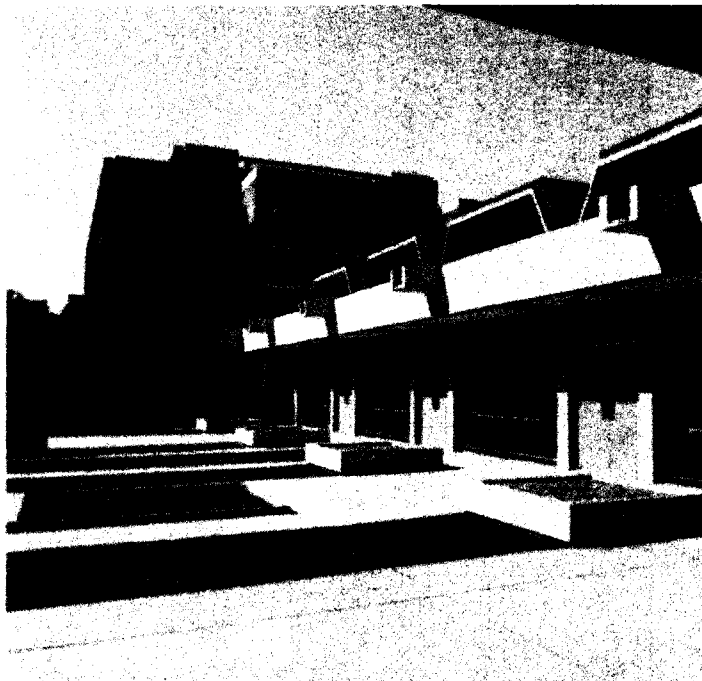
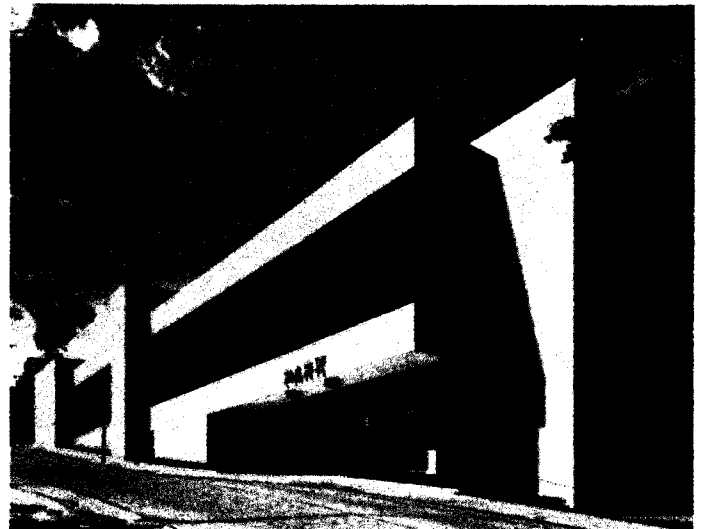
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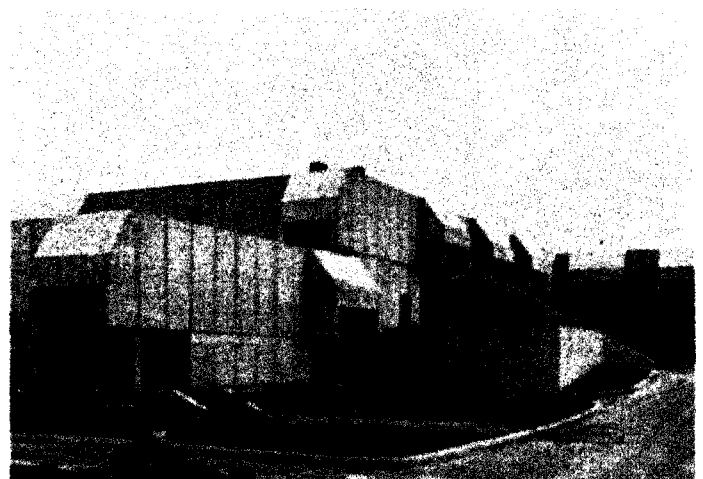
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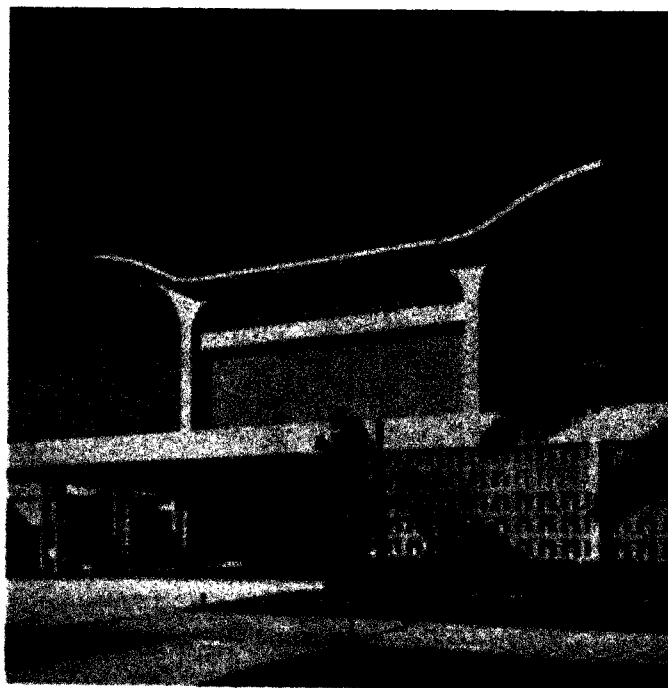
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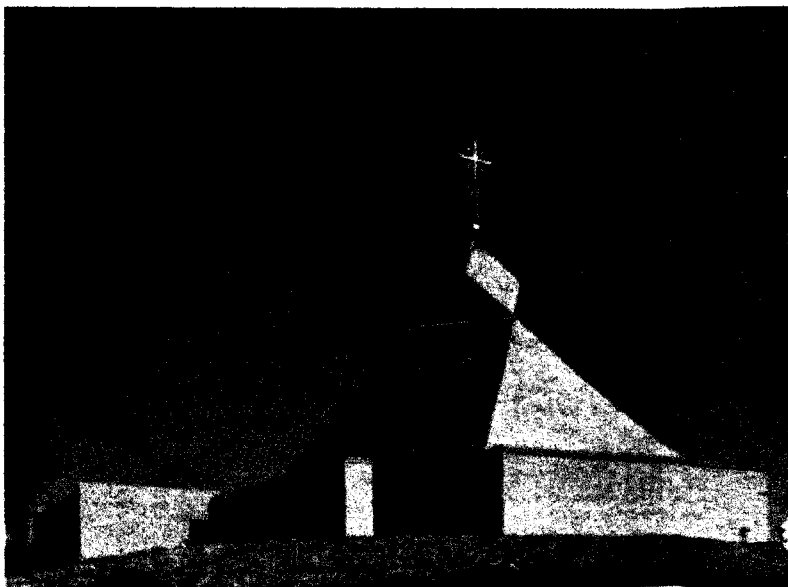


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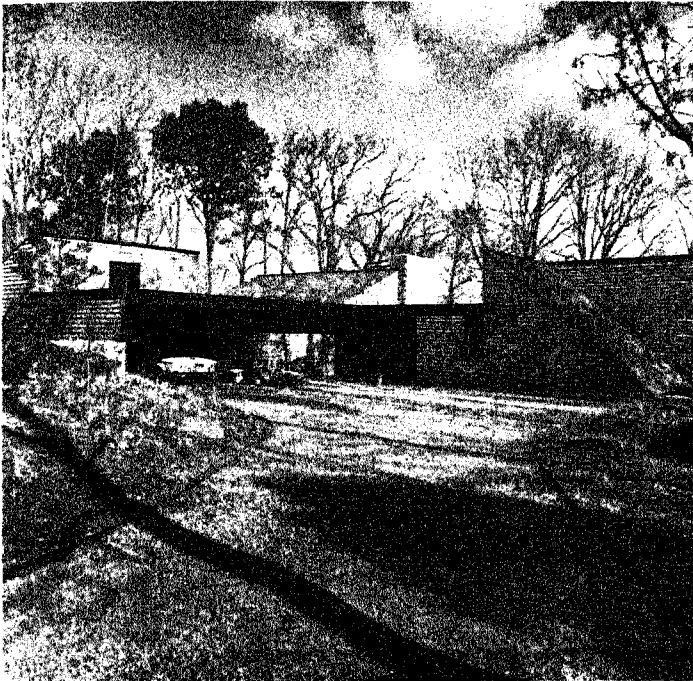
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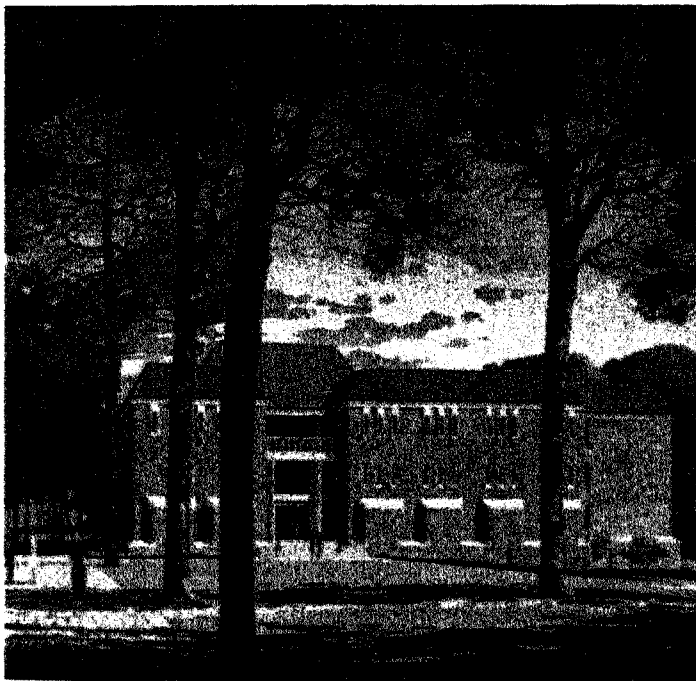
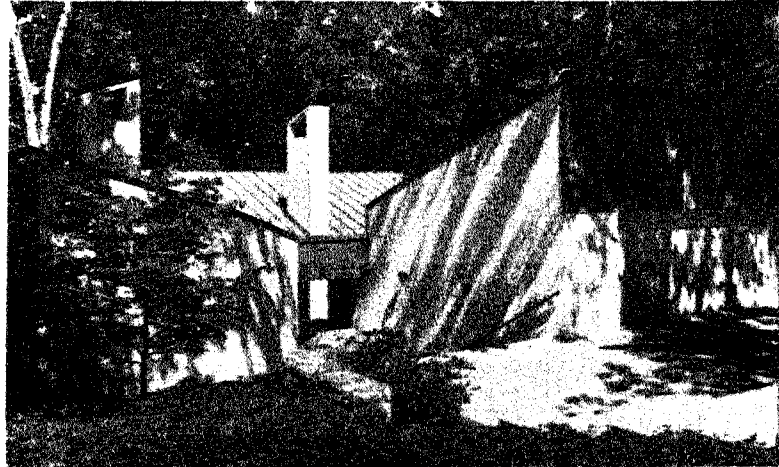
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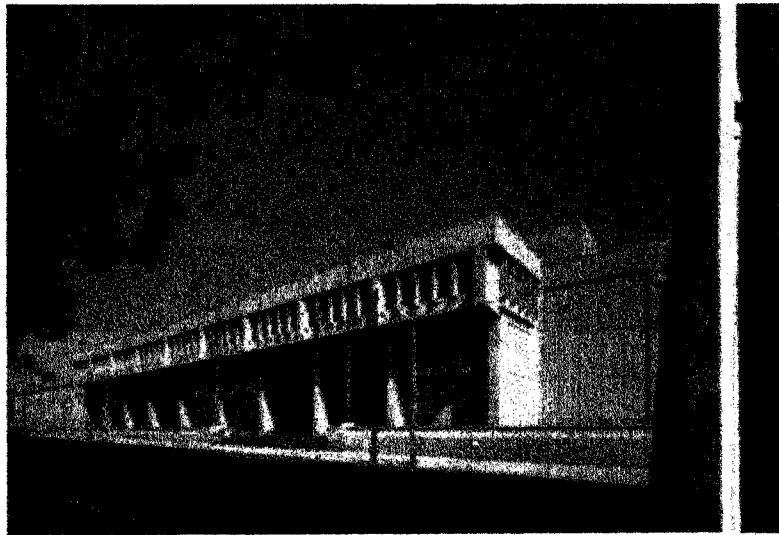
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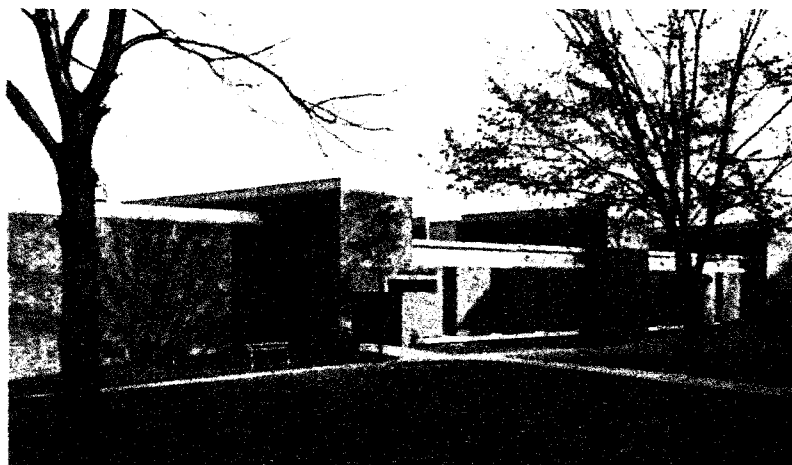
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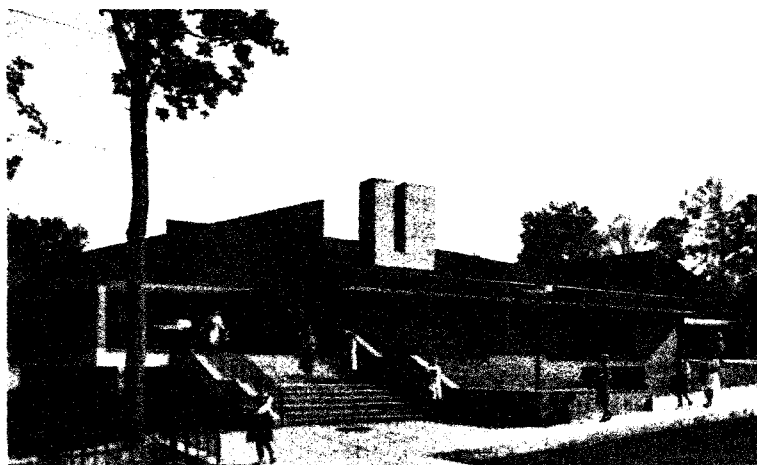
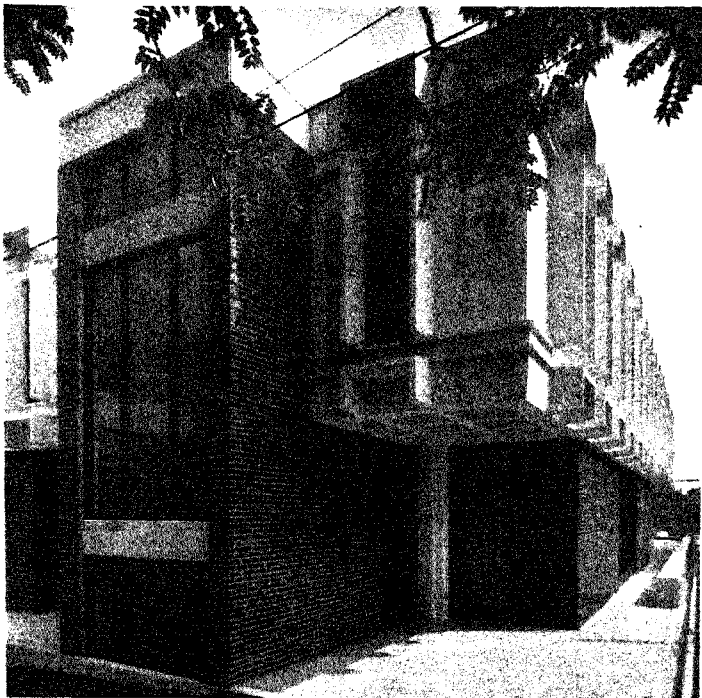


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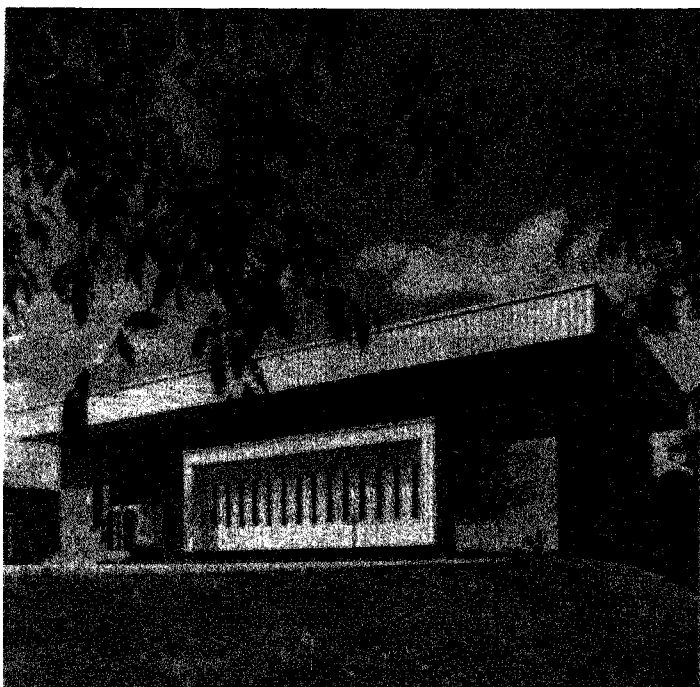
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Students and teachers — 750 of them — provide a major part of the heat for the modern \$2-million-dollar, 60,000-square-foot Kelly Elementary School at Wilkinsburg, Pa. And, although they "walk off the job" about mid-afternoon every day, they return to a comfortably heated building the following morning.

The school's all-electric heat recovery system explains it. This revolutionary system recovers and utilizes heat given off by students and teachers, lighting and anything else that produces heat, such as multi-purpose area or other equipment used within a building. It not only recovers and redistributes the heat, but stores it for periods when the building is unoccupied. And, of course, the system's equipment room can be located anywhere — no vents or stacks are needed.

The Wilkinsburg School Board had two basic reasons for choosing the electric heat recovery system, combined with air conditioning: (1) it provides the best, most even, clean, year-round comfort conditioning of all systems, and (2) it operates at a 12.5% savings over all other systems and fuels.

Electric heat recovery systems for schools, commercial centers, all public buildings provide the heat of the future — here today. Ask your local electric company about it.

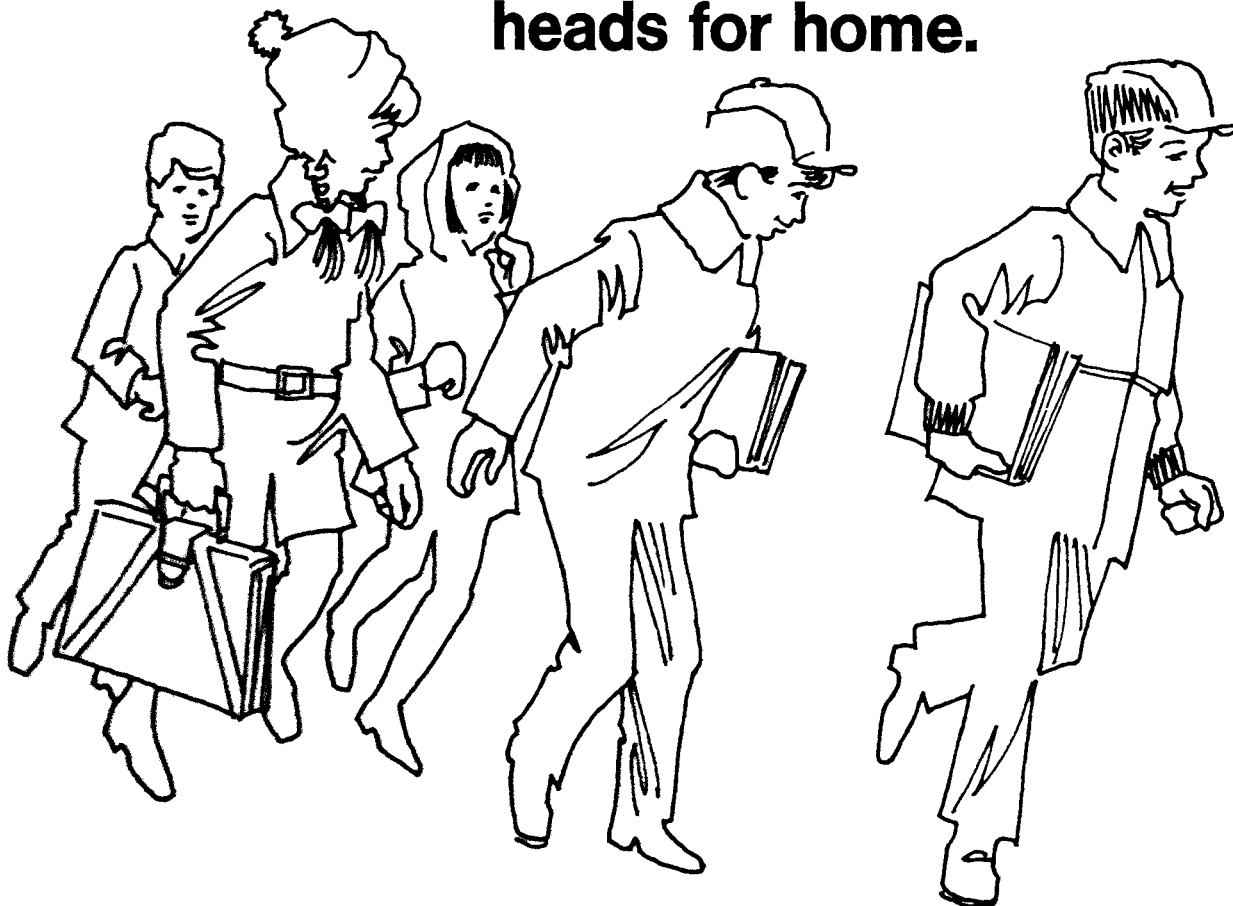
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Three-classroom modules around a material resources center and ramps in place of stairs are, along with its electric heat recovery system, some of the advanced design features of Kelly Elementary School's built-in flexibility. Architects: Celli-Flynn, McKeesport, Pa. Engineers: H. F. Lenz Co., Johnstown, Pa.

3:15 p.m.—and the heating system at Kelly Elementary School heads for home.



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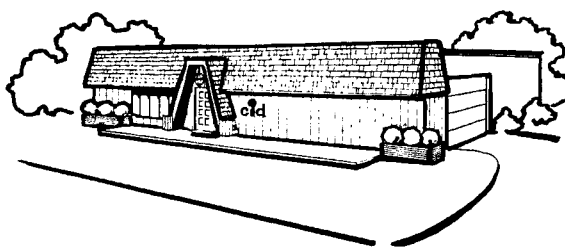
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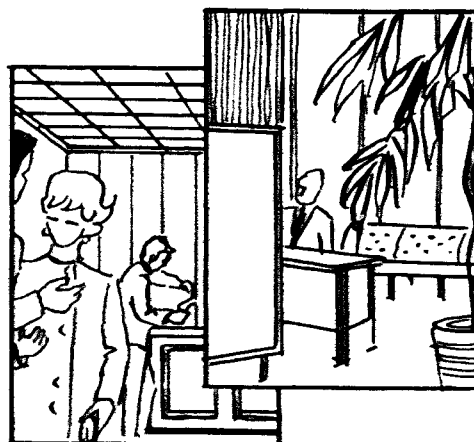
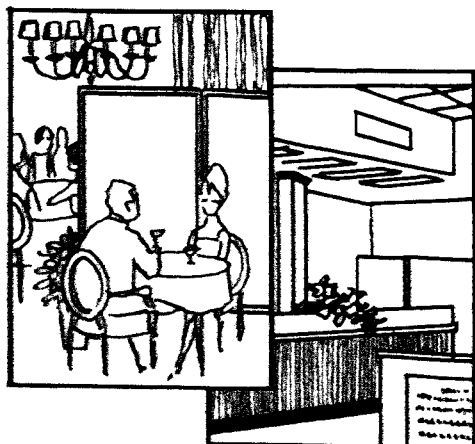
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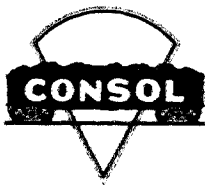
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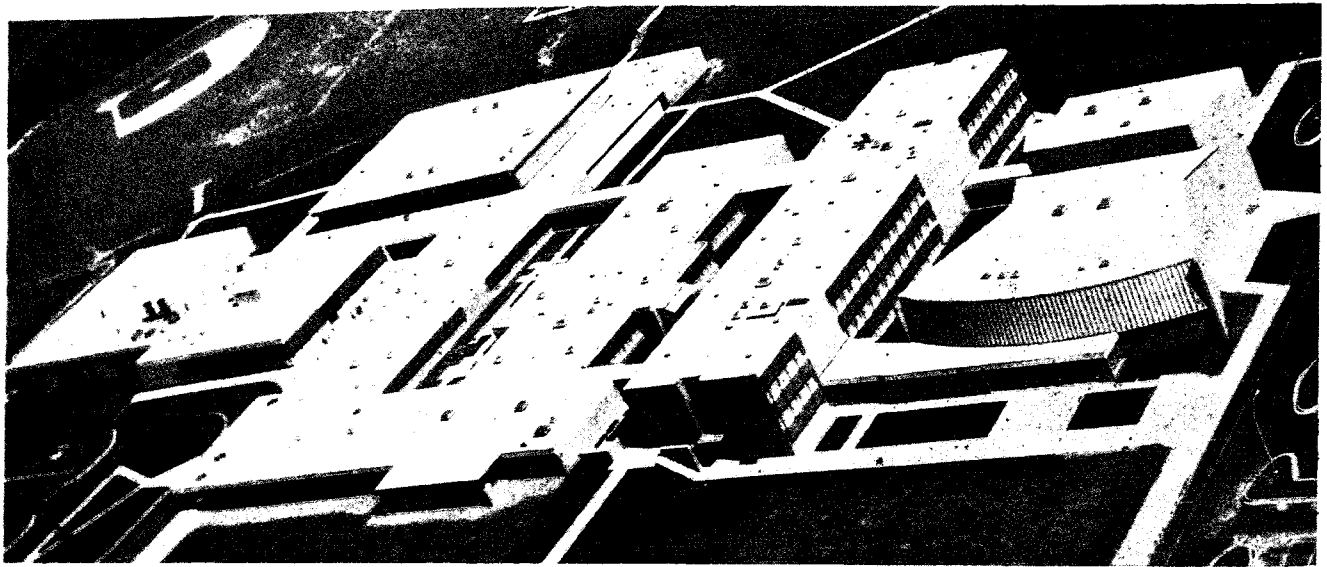
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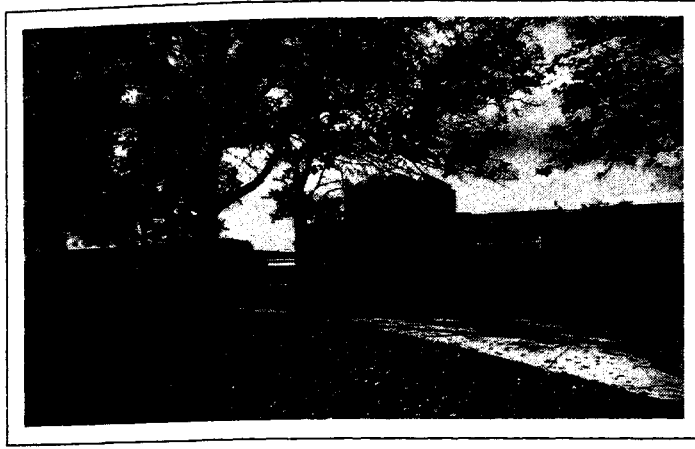
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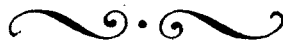
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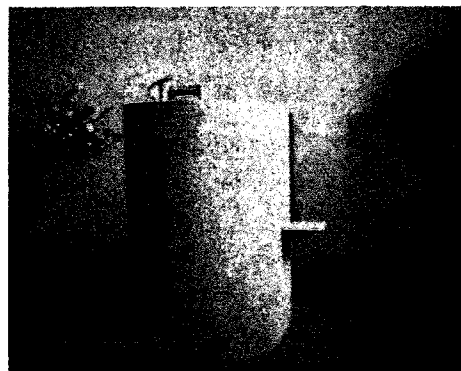
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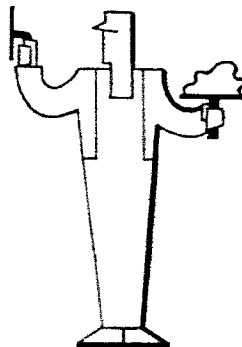
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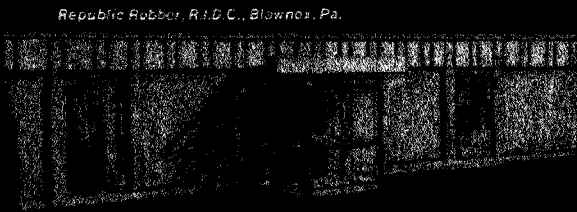
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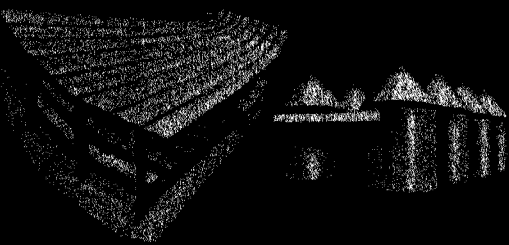


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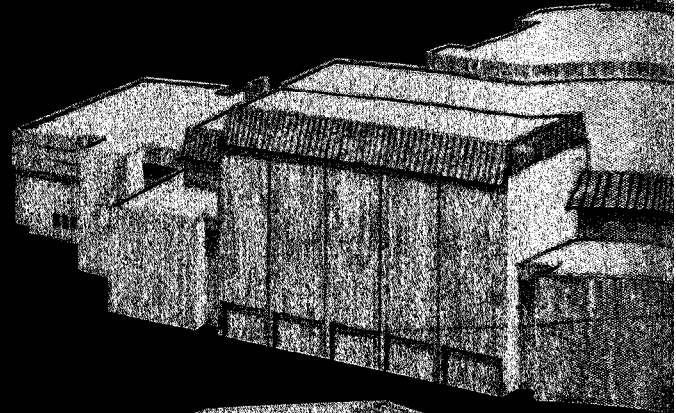


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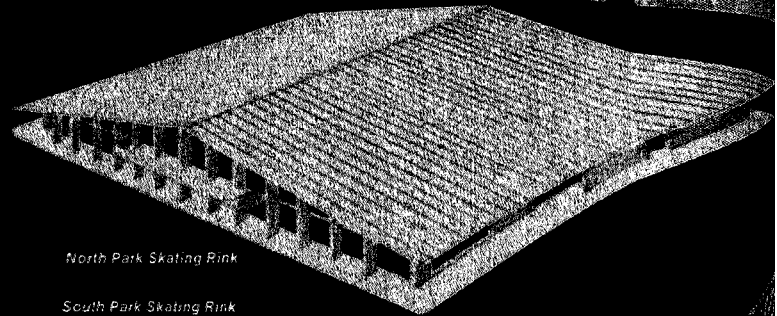


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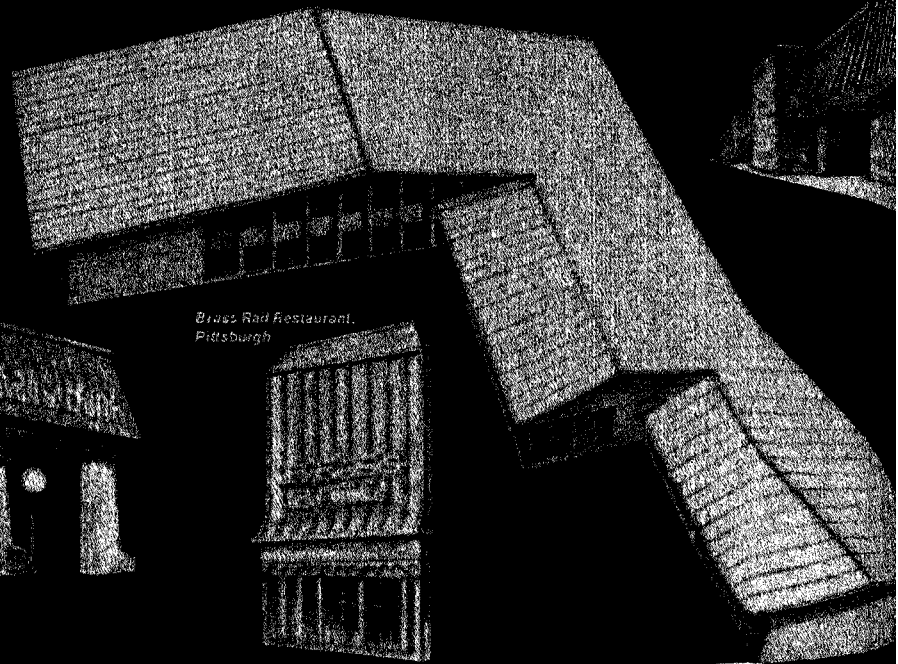


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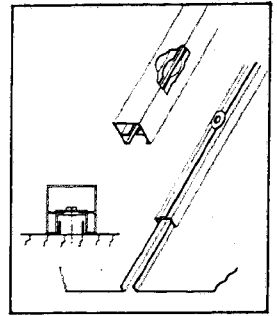
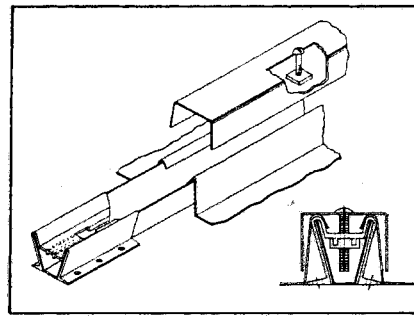
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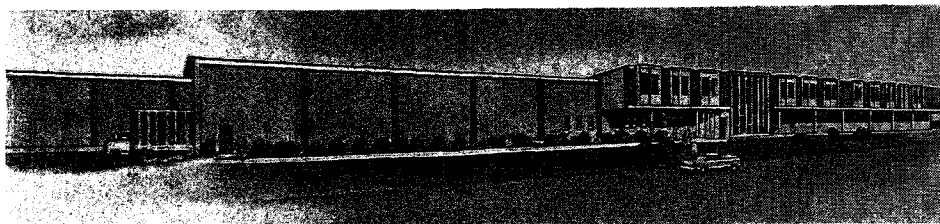
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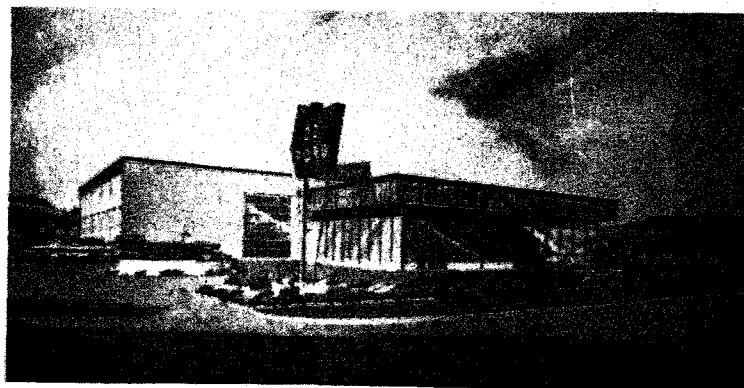


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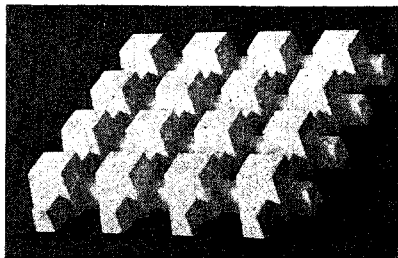
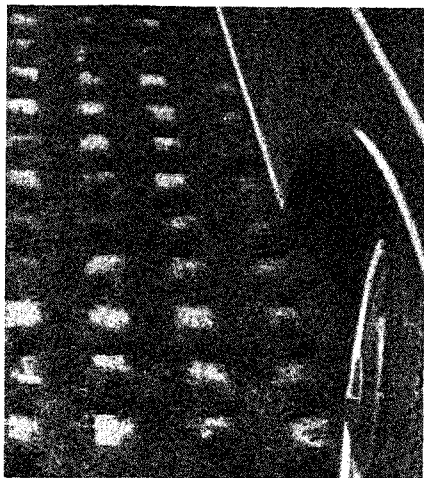
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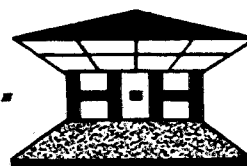
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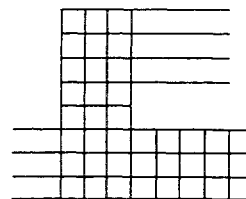
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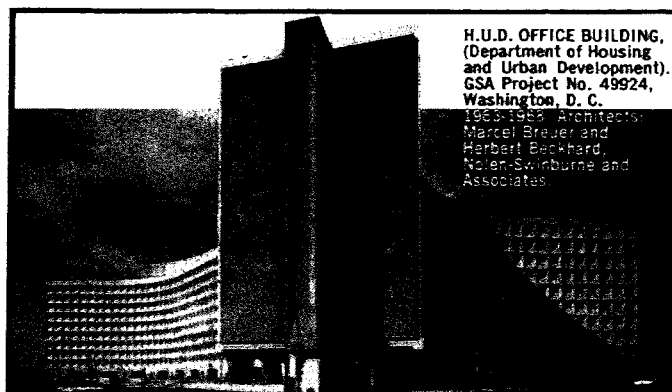
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Doings, cont. from p. 2

Darlington, Beaver County, Pa. This move went into effect on June 9, 1969. Mr. Pilati also announced that Metropolitan recently installed a new twenty-three jig monorail type signode packaging machine at its Darlington plant. With the installation of this equipment, daily production is now being packaged into a unitized pack.

Named Distributor

Distributor Service, Inc. of Pittsburgh was recently appointed Kentile distributor for the greater Pittsburgh area.

Jerry Delaney is president and Robert Nardina is sales manager.

Award

The Belden Brick Co., Canton based manufacturer of over 200 variations of brick in color, size, and texture have recently received an award for the company's '69 advertising campaign. For the second straight year of competition in the Fifth District of the American Advertising Federation which includes Ohio, Kentucky and West Virginia and the Northeast Ohio Regional competition, Belden Brick took top honors in the

category listed as Trade Magazine Ad Series. Belden's ad series, which appears regularly in *Charette*, is of contemporary abstract design, high lighted by a copy theme in which color, texture and size are dominant. Belden Brick's agency is Frease & Shorr Advertising, Inc., Canton, Ohio.

Celebration

On Tuesday, November 11, 1969, the Philadelphia Chapter of the American Institute of Architects celebrated its Centennial Anniversary. This, the first to tally independent Chapter of the Architects' national professional organization, was founded exactly one hundred years earlier — November 11, 1869. Over the span of a century the initial membership of five has grown to seven hundred, comprising nearly two-thirds of the architects in the Philadelphia area. A special Centennial meeting of the members of the Philadelphia Chapter, AIA, was held Tuesday evening to consider Philadelphia Architecture—Past, Present and Future. A series of professional colloquies preceded a reception in honor of the founders, Messrs. Hewitt, Fraser, Furness, McArthur and Sims. An anniversary dinner followed, concluding with a formal meeting, at which a unique Centennial Gold Medal was presented to Louis I. Kahn, FAIA, designating him THE Philadelphia Architect. "... that Philadelphian," according to Chapter President H. Mather Lippincott, "who epitomizes the most enduring of the values of architecture of the past 100 years, as well as the current values most deserving of preservation in the future."

Name Change

Alexander Ewing & Associates, Philadelphia, has announced the change of the firm's name to *Ewing Cole Erdman & Eubank*. Stanley M. Cole is managing partner in the new organization, Michael P. Erdman is one of the partners in charge of project management, and Joseph P. Eubank is partner in charge of design. Other partners newly appointed are: Robert V. Cherry, construction inspection; Russell B. Huber, project management; and Boyd C. Wolford, production.

Esbach Named

Philadelphia architect William W. Esbach has been appointed to a two-year term on the National Public Advisory Panel on Architectural Services of the Federal General Services Administration. Mr. Esbach is senior partner in the Philadelphia firm of Esbach, Pullinger, Stevens & Bruder, Architects and Engineers.

(Continued on page 50)

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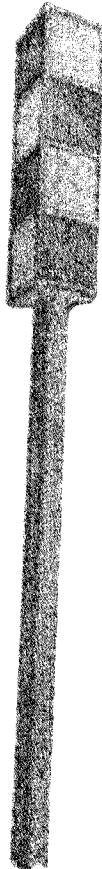
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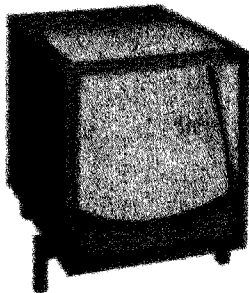
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Doings, cont. from p. 48

New Firm

Engineered Products, Inc. (EPI) of Pittsburgh, Pa., has announced the establishment of Epic Architectural Systems, Inc., a wholly-owned subsidiary which manufactures and erects exterior building components. EPI Vice President Joe Stein is president of Epic Architectural Systems. Larry Vance is vice president and general manager. Corporate headquarters for both firms is located on Ardmore Blvd., Pittsburgh.

New Project

David A. Crane, Philadelphia, is one of eleven architectural firms selected to plan sites and determine the mix of housing types for Operation Breakthrough. A project of the Department of Housing and Urban Development, Operation Breakthrough is aimed at increasing the nation's supply of quality housing.

Travel

Ed Bachman, Pittsburgh architect, and his wife Kay recently returned from an extensive tour of the middle East. Some highlights of the trip were a week of sight-seeing in Athens, tour of Asiatic Turkey and the Black Sea and

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a lengthy visit with their daughter, Barbara, who is stationed at the American Consulate in Istanbul.

(Continued on page 53)

LITERATURE

THE "REALITY" OF THE TREND TO HIGHER LIGHTING LEVELS and its effect upon building design are the subject of the latest monograph published by the National Electrical Contractors Association. In the 20-page, heavily illustrated booklet, NECA gives information on design considerations involved in recovery of lighting heat, hypothetical designs for heat-abstraction fixtures, and spectral and other characteristics of recently developed high-intensity-discharge and high-wattage incandescent lamps. Other subjects are the effect of lighting heat upon air conditioning loads, heat extraction by water-cooled fixtures, and new potentialities in ceiling design. Further information about the Electrical Design Library is available from Penn-Del Jersey Chapter, N.E.C.A., Two Penn Center Plaza, Philadelphia 19102.

A SERIES OF BULLETINS ON WELL DRILLING, which will be of interest to all persons concerned with industrial or municipal water supplies, is available from Moody and Associates, Inc. The bulletins deal with modern techniques used to locate available ground water and explains how to estimate reserves. They also contain information on latest drilling methods, well testing and rehabilitation. While the bulletins are written by experts in the fields of hydrology, hydrogeology and water well engineering, their language is extremely simple and readily understandable by anyone. A glossary of technical terms is a bulletin feature. For copies, write Moody and Associates, Inc., R. D. 4, Meadville, Pennsylvania 16335. Ask for File GWD.

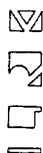
THE CONSTRUCTION PRODUCTS DIVISION OF W. R. GRACE & CO. recently announced the availability of its booklet on Zonolite Mono-Kote Spray-on Fireproofing and Vermiculite Plaster Aggregate. Zonolite Mono-Kote is a cementitious fire-proofing compound that is spray applied to concrete or steel. It has been accorded fire ratings on many systems involving floors, ceilings, beams, and plaster columns. Zonolite Vermiculite Plaster Aggregate is used in lightweight plaster membrane fireproofing applications. The booklet features technical data, fire resistance ratings, UL tests and Vermiculite Institute Tests as well as specifications for installation. The booklet (PA-102) is available from Zonolite Construction Products Division, W. R. Grace & Company, P.O. Box 1207, New Castle, Pennsylvania 16102 or P.O. Box 2124, Trenton, New Jersey 08619.



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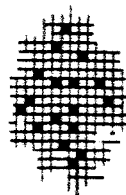
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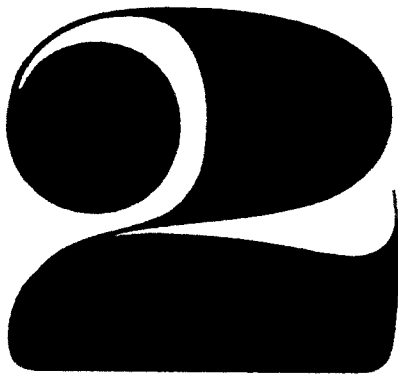
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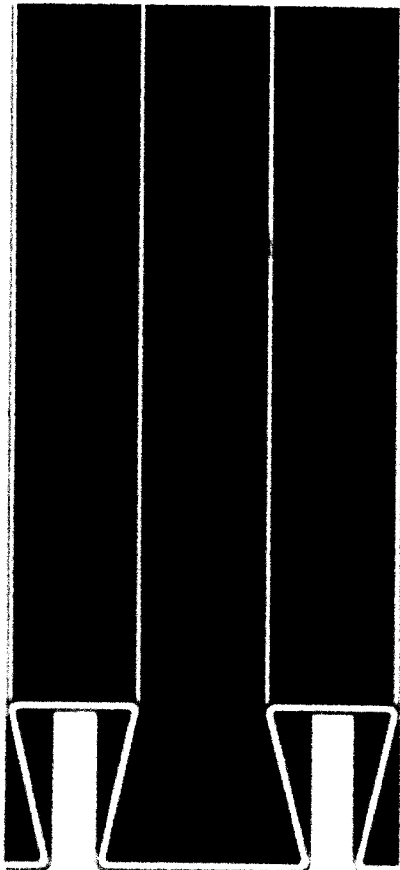
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Doings, cont. from p. 50

LAAC Praised

William J. Murtagh, Keeper of the National Register of Historic Places in the United States, recently notified the Pittsburgh History & Landmarks Foundation that he intends to send a copy of *Landmark Architecture of Allegheny County* to all the governor appointed State Liaison Officers responsible for implementing the National Historic Preservation Act as an example of what private initiative can accomplish in surveying a county's resources. This book is a complete inventory and register of the important buildings of Allegheny County. It was compiled and published in 1967 by the Pittsburgh History & Landmarks Foundation under a grant from the A. W. Mellon Educational & Charitable Trust. The Historic Preservation Act of 1966 directed the Secretary of the Interior to enlarge the National Register of Historic Places. As a result the Office of Archeology and Historic Preservation was established within the National Park Service in the Department of Interior. "One of the first efforts of this new office is to encourage local surveys of significant buildings like the one compiled in Allegheny County," Dr. Murtagh said. Upon its publication the book was highly commended by Dr. S. K. Stevens, Chairman of President Nixon's Advisory Council on Historic Preservation. The

(Continued on page 61)

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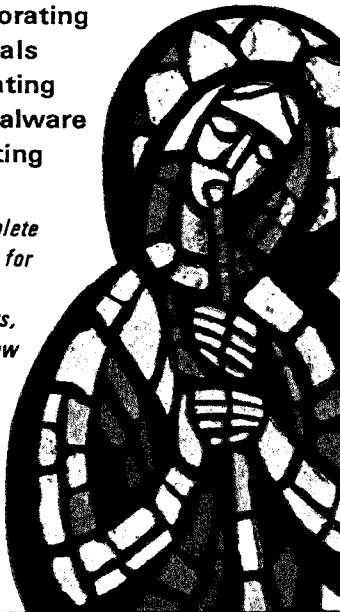
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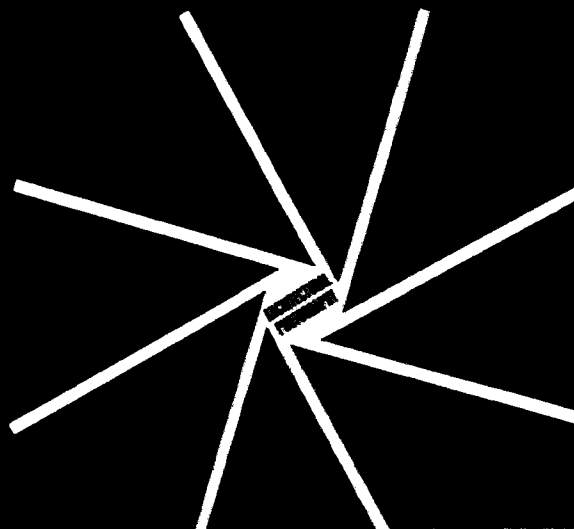
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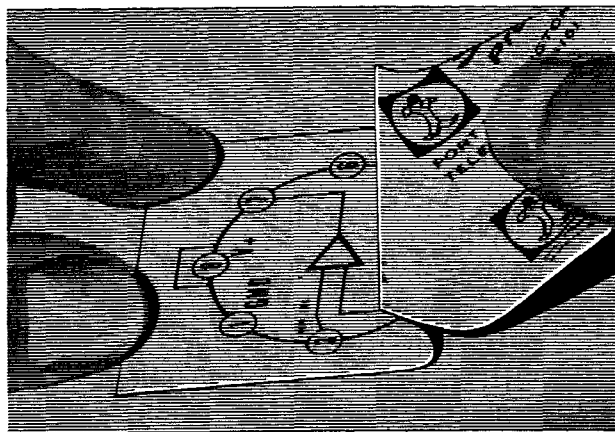


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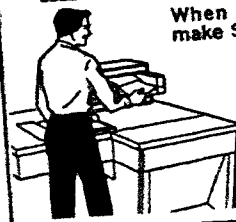
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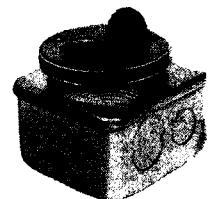
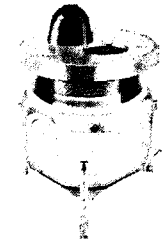


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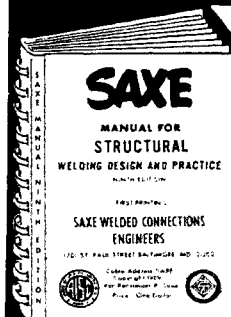
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Pittsburgh AIA Counseling Program

The counseling services of the Philadelphia AIA were explained to the Pittsburgh AIA chapter recently when representatives of the Philadelphia chapter held a panel meeting in Pittsburgh. (left to right) are: Mr. William B. Chapman, Executive Director, Philadelphia Chapter, The American Institute of Architects; Mr. Augustus Baxter, Executive Director, The Architects Workshop and Mr. Hugh Zimmers, Architectural Director, The Architects Workshop. Following is a Summary of the Pittsburgh Counseling project to date. The Pittsburgh Chapter, AIA, meeting was held at the Press Club on September 16, 1969.

In 1967 at the request of the Pittsburgh History & Landmarks Foundation, the Pittsburgh Chapter of the AIA organized a free counseling service to assist two programs that the Foundation had undertaken in the city, the Birmingham Program and the North Side Program.

The Foundation had organized the Birmingham self-help community restoration program for the South Side area. The basic principles of this program were to get the merchants of the main business street and area residents to see the value in their Victorian buildings and to restore the exteriors.

The AIA members undertook to provide free renderings of how to restore the facade of any commercial or residential structure in South Side if the owner requested such assistance. During the course of 1967-68 about 35 such requests were made, and in every case the architects promptly responded.

Since that time ten commercial buildings have been painted and restored with AIA guidance. Sparked by this activity several dozen houses have also been restored, and one individual has bought and is restoring six properties.

In addition, a private corporation has been formed to purchase and restore properties throughout South Side. In order to achieve an immediate impact in the area, the organization has offered to purchase the South Side Market Building and completely restore it as a Market House. The building is one of the two market houses still extant in Pittsburgh and is in excellent condition.

PPG Industries also contributed by printing 2,000 copies of a specially devised paint chart provided by the architects, and this paint chart is now being distributed to those who request it.

The North Side program began in 1967 when the Foundation cooperated with the North Side Civic Development Council, several financial institutions, the Home Builders Association of Western Pennsylvania, and others in organizing what is now known as Neighborhood Housing Services, Inc.

After some months of preliminary work, the Foundation asked the Pittsburgh AIA to join as a sponsor of this organization. The AIA again agreed to provide renderings for the restorations of facades in North Side on the same basis as that in South Side. Also it was to provide modest planning studies for certain streets in central North Side.

The AIA selected Boyle Street as a primary project to work on and produced over 30 renderings, a paint chart, and a design study. Boyle Street is closely built-up with two story brick houses dating from 1860 to 1880. The following results have taken place in the Boyle Street program:

one full-time NHS staff member has been assigned to the project for about eight months and a part-time volunteer is also working with the Boyle Street people

\$10,000 has been allotted from a grant to NHS from the Sarah Mellon Scaife Foundation to be applied to low interest loans for exterior work for these buildings, it is available to both owners and landlords

three houses have been renovated to date, two by the Civic Constructors (a private rehabilitation organization that grew out of NHS) and one by the North Side Civic Development Council which plans to do two more houses

forty Boyle Street residents have signed up for street tree planting

four homeowners are now getting bids to renovate their houses including exteriors

a survey of attitudes of the people on Boyle Street has taken place

a former tenant in a property on Boyle Street has utilized the Scaife loan fund to buy a house on Boyle Street

three thousand brochures outlining the program and containing the AIA's name have been distributed in Central North Side.



Governor Shafer addresses those present at the demonstration of the assembly of a mass-produced house while Robert E. Paterson, Marketing Systems, listens with apparent approval.

“Nearly Instant” Housing Demonstrated at Harrisburg Conference

At the recent second annual Conference of Pennsylvania's Department of Community Affairs in Harrisburg, Governor Raymond P. Shafer, along with over 1,000 conferees, witnessed a housing assembly by Modular Housing Systems, Inc. of Northumberland, Pennsylvania.

Six factory-built modules were delivered to the site by tractor trailer. Within two hours, a crane operator and four other men had assembled a two-story, six room house complete with finished plumbing, 1-1/2 baths, electrical wiring, appliances, fixtures, heating and air conditioning, ready for a “walk-through” inspection.

Mr. Curt Tomlinson, president of Modular Housing Systems, told the conferees that variety and aesthetic appeal were designed into the mass-produced homes to satisfy planners as well as the people who would be asked to live in them.

No architects are listed as designers nor are there even architectural consultants noted in the press publicity.

Doings, Cont. from p. 53

book has been commended by many authorities in the preservation field throughout the United States and abroad. This distribution project is being financed by a grant from the Walden Trust given to the Landmarks Foundations on behalf of the National Park Service.

Copies of the book are available at the Foundation's office at 900 Benedum-Trees Building for \$8.50 plus 6% Pennsylvania sales tax.

Design Award

The Wilkes Barre architectural firm of Bohlin and Powell has won an award in the annual Homes for Better Living competition sponsored by the AIA and

House & Home and *American Home* magazines for a private home they designed in Bear Creek, Pennsylvania. The home was reviewed in the December 1968 issue of *Charette*.

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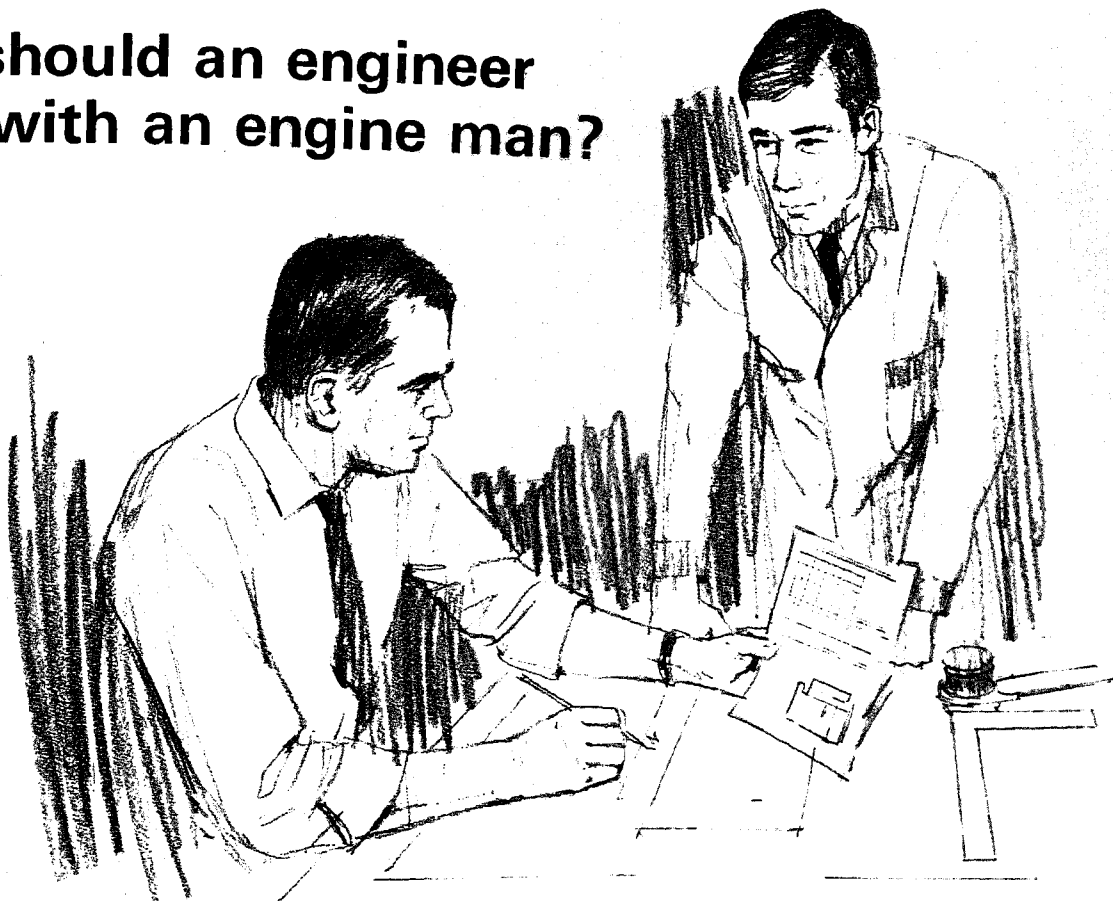
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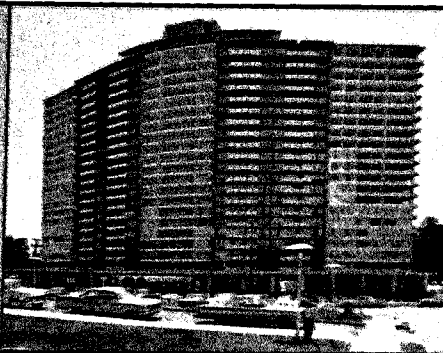
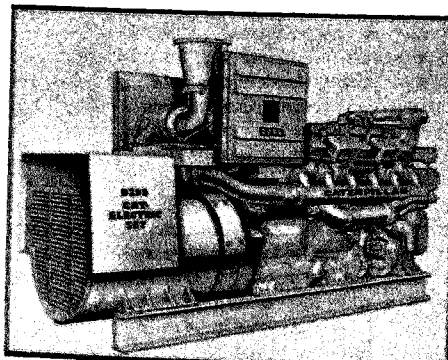
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