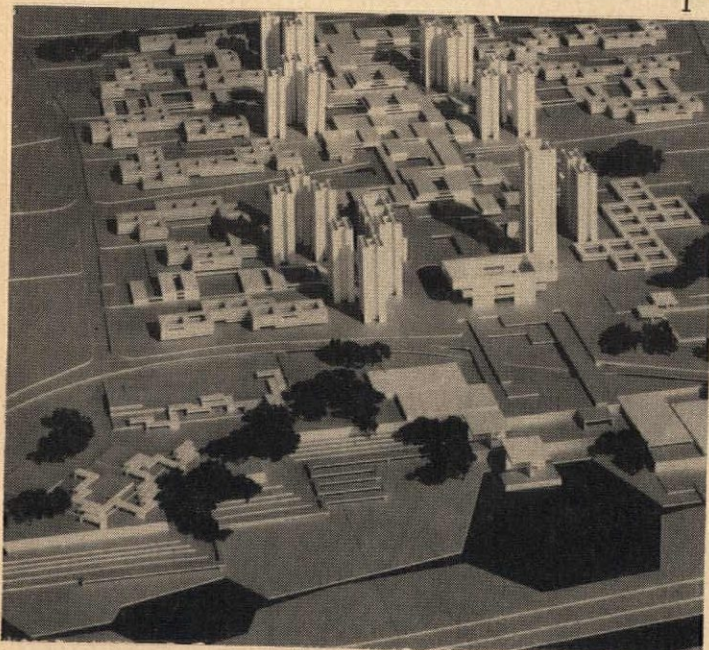
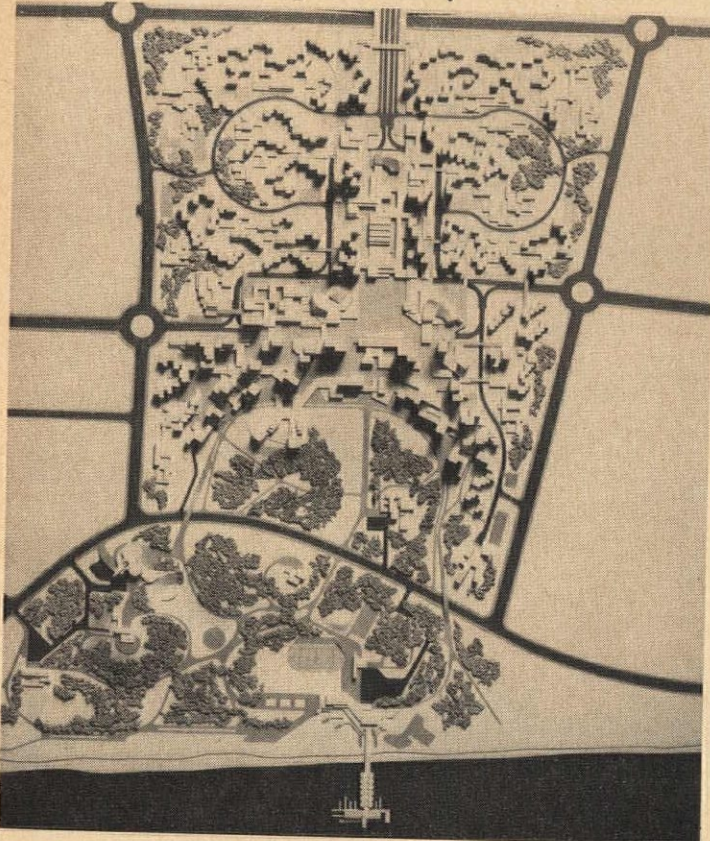


Rowle - see over

PROGRESSIVE ARCHITECTURE OCTOBER 1965 NEWS REPORT

Architecture's Monthly News Digest of Buildings and Projects, Personalities, New Products

French Design New City for Israel



ASHDOD, ISRAEL This is a new town that has been suffering uncontrolled growth along the Mediterranean shore south of Tel Aviv. It is expected eventually to reach a population of

300,000 to 400,000, making it Israel's third or fourth largest city (depending on how big Jerusalem is by that time) and second most important port. The center of this burgeon-

ing area has been, thus far, a vast stretch of sand going down to the sea. Now, as a result of an international architectural competition, it will become a living metropolitan center.

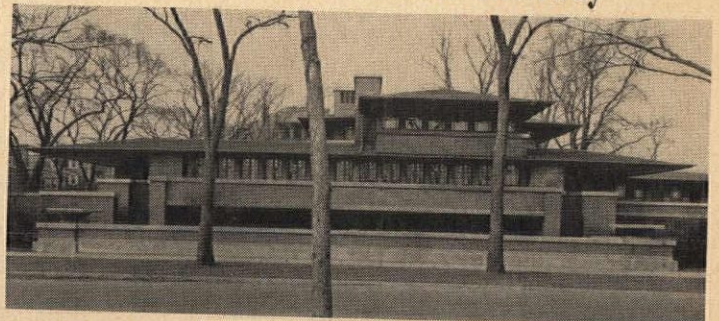
Winners of the competition were Jean Ginsberg and Pierre Vago of Paris, who, with Martin Van Treeck, have proposed a variegated, compact city center (1). The architects said that their city-planning investigations revealed that what is lacking in many contemporary city plans—Brasilia being a prime example—is a gutsy, human intensity that inspires, stimulates, and creates the *sentiment urbain*. In such places, they believe, the arrogance of the buildings and the spaces between them, plus the servitude to the machine necessary to funnel automobiles into the center, subdivide and sterilize the earth.

In Ashdod, the architects intend a very dense center, with the ground level reserved

for pedestrians, and machines of all sorts relegated to two underground levels. Aside from density, variety will be the chief characteristic of downtown Ashdod. Ginsberg and Vago have made sure that life will be there after business hours, with promenades, plazas, cultural facilities, and places for shops, recreation, or just relaxing. They have sought "in essence a provision for a comfortable, animated, 'crowded' life." They state that the city will face the sea in a long arc and that its silhouette will consist of a "dynamic concentration of vertical volumes at the center of the composition, contrasted with the horizontal character of the residential districts surrounding it."

A third-prize winner, and the only U.S. competitor to place, was the plan by Fridstein & Fitch of Chicago, which proposed tower clusters interspersed with lower buildings in the accepted Corbusian manner (2).

Robie House Restoration Underway



CHICAGO, ILL. Although only \$57,000 of a wished-for \$205,000 has been raised to restore Frank Lloyd Wright's Robie House, initial work will begin soon. Now owned by the University of Chicago, the house will be used for some still-to-be-established purpose.


In 1957, the Chicago Commission on Architectural Landmarks designated the house a landmark, citing it, "In recognition of the creation of the Prairie House—a home organized around a great hearth where interior space, under wide sweeping roofs, opens to

the outdoors. The bold interplay of horizontal planes about the chimney mass, and the structurally expressive piers and windows, established a new form of domestic design." Last year, the National Park Service of the Department of the Interior made it a Registered National Historic Landmark.

The current work, which will represent about one-third of total restoration, will include: replacement of the tile roof; removal and replacement of gutter lining; installation of 200-amp electrical service and rewiring of the building; in-

HOW WELL DO YOU KNOW YOUR BUILDING?



and this  is the modern roof decking
to qualify for Bonded Roofs

Easy-ply by **homasote**



Not only is Homasote an acceptable substratum for bonded built-up roofing—it is also a weatherproof, insulating deck that is factory-finished on the under (or ceiling) side. Saves finishing costs!

E-301

FOR SPANS UP TO 60" O.C.—DECKS, INSULATES AND FINISHES IN ONE OPERATION

Built-up roofing applied over Homasote Roof Decking is approved for bonds by leading roofing material manufacturers. No unusual installation techniques are required. Panels of 2'x8' Homasote, in either 1 $\frac{3}{8}$ ", 1 $\frac{7}{8}$ " or 2 $\frac{3}{8}$ " thickness are nailed to roof rafters—or fastened with special profile clips on steel framing. Long edges are T&G—ceiling side is available with white color-coated finish or white kraft with vapor barrier. Also, finish can be vinyl paint, white polyethylene film or fire-retardant paint. Complete details in Bulletin 4-136—write for it today to Dept. K-1.

homasote *Company*

TRENTON, N.J. 08603

On Readers' Service Card, circle No. 472

stallation of a new heating unit; and removal of all old plumbing fixtures and the restoration of the ground-floor and first-floor bathrooms. Tax-deductible contributions for the remaining restoration are still sought. Checks should be made payable to Robie House Restoration Fund, University of Chicago, and sent to the committee in care of Commissioner Ira J. Bach, Room 1006 City Hall, Chicago, Ill. 60602.

Theaters on the March

The cultural explosion is producing an architectural fallout of sorts. On Broadway, traditional home of the American theater, no new theaters have been built since 1928, the year the talkies appeared. In fact, the number of existing playhouses is only 36, down from a high point of 54 during the 30's. Throughout the country, the number of commercial theaters has dwindled from 590 in 1927 to 200 today. Part of this shrinkage is, of course, the result of a sort of cultural evolution in which the electronic-mechanical entertainment media are becoming today's stage.

While the number of plays produced on Broadway each year has dropped from an average of 142 during the 30's, to 63 in the 1963-64 season, symphony orchestras throughout the country have increased to 1400, more than double the 1939 number. And the number of groups now performing operas—754—has doubled in the last decade. Most of this expanded artistic activity is amateur. Of the 1400 symphony orchestras, only 54 are composed predominantly of professional musicians. Only 35 to 40 of 754 opera groups are fully professional, and not more than 10 of these perform more than 15 days a year.

This expanded interest in the performing arts is mirrored by a proliferation of theater groups, both amateur and semi-professional. And all this theatrical activity is matched by concomitant architectural activity. More than 100 so-called cultural centers are being built or planned in U.S. communities. Theaters that have blossomed in churches and in cellars are moving into shopping centers and other open spaces. Last October, there

were 64 permanent theaters in shopping centers, all of them designed subsequent to the one Welton Beckett did for Bergen Mall in Paramus, N. J., in 1960. "A natural wedding of the theater and the market place," someone said of the Paramus theater; and Fort Wayne, Louisville, Dayton, Toledo, Memphis, St. Louis, Baltimore, Washington, New Orleans, Tucson, Fort Lauderdale, Miami, and Sarasota took up the idea.

Many other shopping centers have summertime tent theaters, which are finding it financially expedient to convert to permanent housing. Music Fairs, Inc., for instance, which has a string of tent theaters on the East Coast, is providing a permanent home for its theater in Westport, Long Island.

Roger Stevens, chairman of the National Council for the Arts, is planning to build 30 theaters throughout the country in shopping centers. (Land in shopping centers is relatively inexpensive and parking facilities are already available.) His theaters will be built to a standard scale, so that sets can be manufactured in each city, saving transportation costs. For traveling troupers, it would be like performing in the same theater each night, quite a change from the old days on the Klaw & Erlanger circuit. Stevens' idea is to provide steady employment for repertory groups, but one hopes that, architecturally, the results will be better than can be hoped for from the usual prefabricated approach.

This architectural activity is not limited to shopping centers. The New Jersey Highway Authority plans to build a cultural center on land along the New Jersey Turnpike, in hopes of bringing motorists onto the road and into the theater.

Some of the more architecturally significant new theaters are shown elsewhere in this issue.

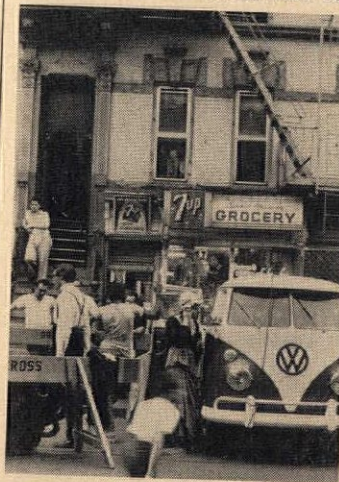
All the Street's a Stage

NEW YORK, N.Y. For four weeks this past summer, it seemed as if the 16th-Century perambulating theater, the *Commedia dell'Arte*, had been revived on the streets of New York. A group of players, using an improvised stage on the back

of a truck, alternately set up shop in the streets of Harlem, the Lower East Side, the Far West Side, the Bronx and Brooklyn. The theater, produced by Patricia Reynolds and directed by Phoebe Brand, is probably the most mobile of the mobile theaters that have evolved in the last few years. This offshoot of Papp's theater in Central Park has grown into an elaborate caravan of Ringling Brothers proportions. "The Theater in the Street," as the Reynolds group is called, is still small enough to maneuver, to be set up and dismantled in an hour. Supported partly by the New York State Council on the Arts, it also receives support from private citizens, and subsists on a budget of \$16,000.



Photos: Maude Dorr

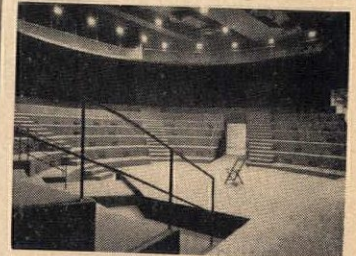


This summer's bill of fare included a Chinese fairy tale, Molière's *'Doctor in Spite of Himself'*, Chekhov's *'The Bear'* (both done in English), plus a rousing production of the Chekhov play in Spanish. Al-

though this is a far cry from 16th-Century players who loaded "their memories with a great mass of contemporary matter, such as stock sentiments, conceits, love speeches, complaints, ejaculations of despair and madness" to be called on as needed, the classic playwrights had enough stage business in them to entertain the audience—most of which had never seen a live play before.

The degree of audience participation in the New York productions was astonishing. Boos and unsolicited advice came from absorbed onlookers—both young and old. Local community organizations supplied chairs; local Boy Scouts or urchins set them up, and matrons supervised. The upshot seems to be that you do not necessarily need auditorium, stage, dressing rooms, etc., to have theater—almost any street will do. And there, in the street, the audience is surprisingly alive, a response and a quality difficult to build into any theater structure.

Repertory Theatre Opens at Lincoln Center



NEW YORK, N. Y. New York City's Vivian Beaumont Theater opens officially on October 21 with a performance of Georg Buchner's *Danton's Death*. However fine the performance by the Lincoln Center Repertory Company may prove to be, it may well be overshadowed, as a work of art, by the hall itself, which is the result of an architectural collaboration between Eero Saarinen Associates and Skidmore, Owings & Merrill as As-

sociated Architects. SOM designed the over-all building; Saarinen Associates, the two theater-auditoriums.

The third building to be completed in the five-building complex that will comprise Lincoln Center for the Performing Arts, the Vivian Beaumont Theater is distinguished by its quiet dignity, a quality heightened by the classical inclinations of its neighbors.

Inside, the building will house a library for the theater collection and music library of the City of New York. Also, of course, there will be two auditoriums, the result of design planning by the late Eero Saarinen, in the three years prior to his death in 1961, and collaborating designer Jo Mielzner. Beneath the main auditorium is the small 299-seat experimental Forum Theater, complete with its own entrance, box office and lobby. It has an apron stage and can be used for both rehearsals and

formal performances. Above this is the Beaumont theater, seating 1100, which has a stage changeable from proscenium to thrust by a lift, and a below-stage turntable that can substitute seating for stage area and vice versa.

The theater, considered a milestone in theater design, is named after Vivian Beaumont Allen. Described by *The New York Times* as a "vivacious philanthropist," Mrs. Allen was the daughter of J. E. Beaumont, who, after prospecting unsuccessfully for gold in Colorado, helped found the May Company department stores, now one of the largest department store chains in the country. Mrs. Allen donated an initial \$3,000,000, which made a start on the theater project possible.

Next month, P/A will examine the interiors of both theaters in detail. The library will be discussed in a future issue.

An American Architect Looks at Russia



1

NEW YORK, N.Y. Just returned from a 10,000-mile tour of the Soviet Union, New York architect Frederick G. Frost, Jr., has much to show for it. Not the least is a collection of some 700 slides of architectural subjects—from a log cabin near the shores of Lake Baykal, deep in Siberia, to strikingly beautiful tilework on mosques and minarets in Samarkand, ancient capital of the Mongol empire, to a 3000-room hotel being built almost entirely of precast concrete sections in Moscow. Frost was one of a group sent on a three-week trip, arranged by the State Department, to examine precast concrete work in the U.S.S.R.

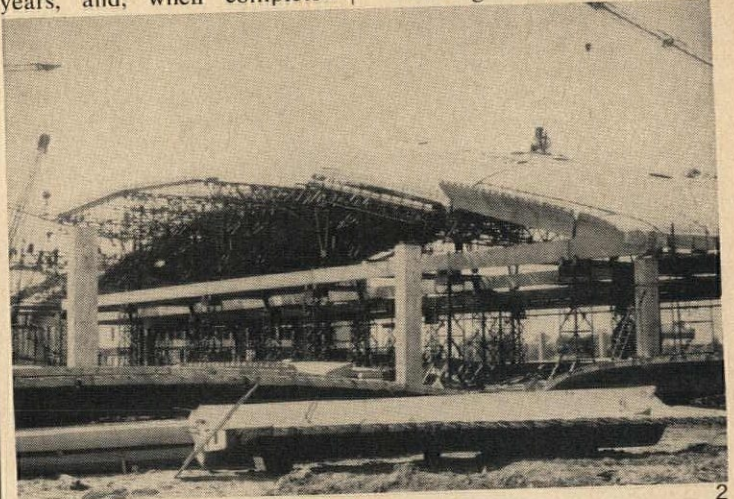
(Earlier, a similar Russian group had toured the U.S.) In all, the group (of which Frost was the only architect) visited nine cities, traveling mostly by air. Frost is quick to point out that what architecture he saw was incidental, for the trip was not planned as an architectural tour. Yet he found that prefabrication with precast concrete was extensively used throughout the Soviet Union. He thinks more of it should be done here.

At Bratsk, a new city being carved out of the forest about 300 miles north of Irkutsk, on the shore of Lake Baykal, Frost saw an aluminum plant and a cellulose plant (1) under

construction, both of them prefabricated almost entirely with precast concrete; even piles and pile caps had been made elsewhere and shipped to the site. In Leningrad, he saw a parking garage under construction whose roof was built of precast concrete panels that were placed on a steel mesh grid (2). "All prestressing plants ship their work by truck," explains Frost. "Some trucks are specially designed to handle the larger pieces, which may measure as much as 13'x40'." Bratsk has been under construction for six years, and, when completed

cro-districts will be arranged in concentric circles, screened off from one another by the Siberian forest, which, whenever possible, is being left untouched. At the center of the rings will be a macro-district, or city center, with facilities for the entire town: a large department store, government and commercial offices, and a theater for the performing arts. Plants that will supply heat, hot water, and sewerage disposal for all buildings in the community will be located either in the city center or in outlying areas.

Although almost all housing

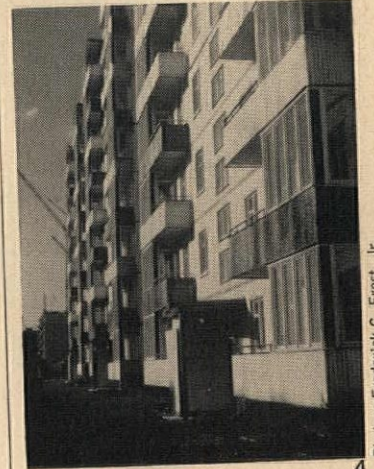


2



3

(in about another ten) will have a population of approximately 200,000, which will be brought in to work the aluminum and cellulose plants, to operate the hydroelectric plant that will provide power for them, to provide services for the population, and, of course, to create future Bratskians. Eventually, Bratsk will have 30 micro-districts, each housing 6000 to 8000 persons, set up as self-contained units with shopping facilities and schools. Housing consists of elongated, mostly five-story buildings of precast concrete panels (3) that are reminiscent of army barracks and are lined up like soldiers in formation. Stylistically, these prefabricated apartments are typical of all housing being done in the Soviet Union. Mi-



Photos: Frederick G. Frost, Jr.

currently underway in the Soviet Union is similar to that at Bratsk, there are subtle variations. In Tashkent, Frost saw the same type of precast panel housing with end walls covered

by colored murals and balcony guards formed of colored plastic. This small concession to aesthetics was explained to him as a variation authorized by the Soviet government to satisfy the national taste of the Uzbek natives. In Kiev, these housing developments are often built of brick (4), because the region is rich in brick-producing clay. Brick bearing walls support the buildings; interior walls as well as exterior support precast concrete floor slabs. According to Frost's guides, Soviet housing activity still reflects an effort to alleviate a vast housing shortage,

ternational Style, are of glass and concrete. Making pleasing use of horizontal bands of glass windows, they show a greater involvement with design than all other buildings Frost saw that were completed within the last 20 years.

Another sign of increasing architectural awareness is the controversy involving the Rossiya Hotel (6), now under construction on a 27-acre site adjacent to the Kremlin. When completed, it will house 3000 rooms in a 12-story base and a 23-story tower. Critics generally oppose the hotel, which is typical of the current Soviet

never evolved. Yet some of the architectural heritage is being carefully preserved. In Moscow, Frost visited several of the old Czarist palaces, which have been painstakingly restored and maintained. They remain as examples of an architectural past that the Soviet ideology considers as a display of extravagant ostentation wasted on the ruling classes. Following a 1939 visit to the Soviet Union, Frank Lloyd Wright observed: "I found that in Russia now, as in the United States long ago, the masses who had nothing and to whom the landed aristocracy appeared to have everything had their turn to be pleased. Noth-

ing pleases them so much as the gleam of marble columns under high ceilings, glittering chandeliers, unmistakable luxury as they had to look up to it when it decided their fate, when they ate out of luxury's hand when they ate at all." Today, the old palaces are much visited.

But nowhere did Frost find evidence of a great architectural emergence that Wright had hoped for. Perhaps it is yet to come. Perhaps architecture, as much suppressed as the other arts, is only the slower to emerge. In the meantime, Russia is blighting her landscape—something she may one day regret.

Armed Community College

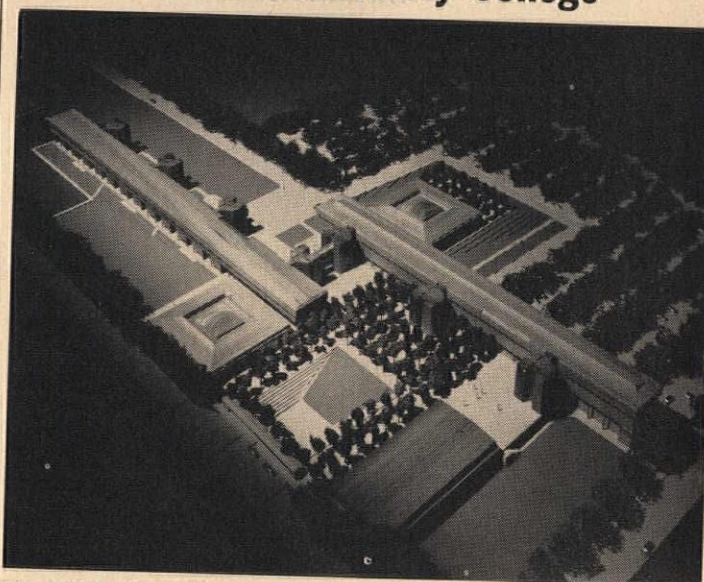


Photo: Bill Engdahl, Hedrich-Blessing

ST. LOUIS, MO. Shown above is a model of the Forest Park Community College, a two-year college that will eventually have an enrollment of 7000 day students. Designed by Harry Weese & Associates, the buildings consist of two long (about 740'), narrow, five-story classroom arms extending from two outriding, square, library / student-center / dining-room buildings. The linear arms house lecture halls on the lower floors, laboratories on the top floors, and, on the interme-

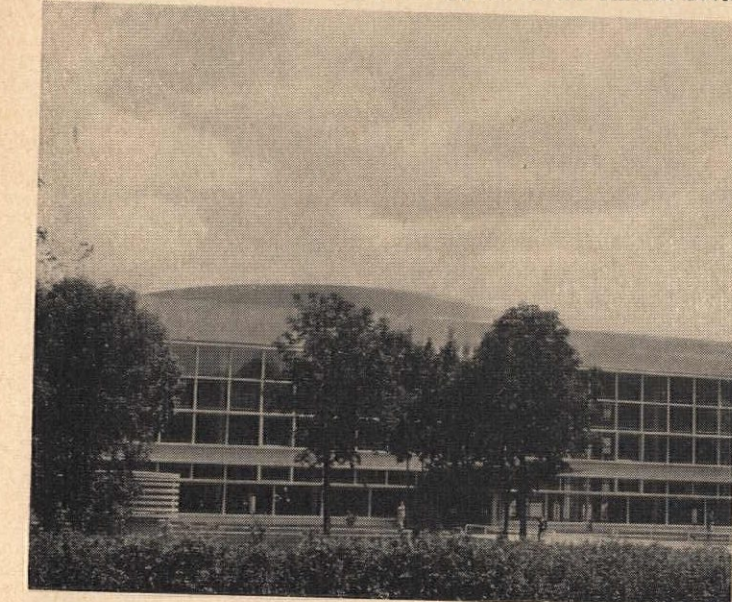
diolate floors, faculty offices and classrooms. Each arm has exterior towers, on 180' centers, housing all vertical mechanical services, stairs, elevators, and toilets. At the east end of the complex will be a gymnasium; at the west, a theater-lecture center. Buildings will have brick cavity walls and concrete frames. Roofs, sills, copings, and soffits will be lead-coated copper. The library and the first section of the east classroom arm will be completed by the end of 1967.

P/A Awards Jury Meets

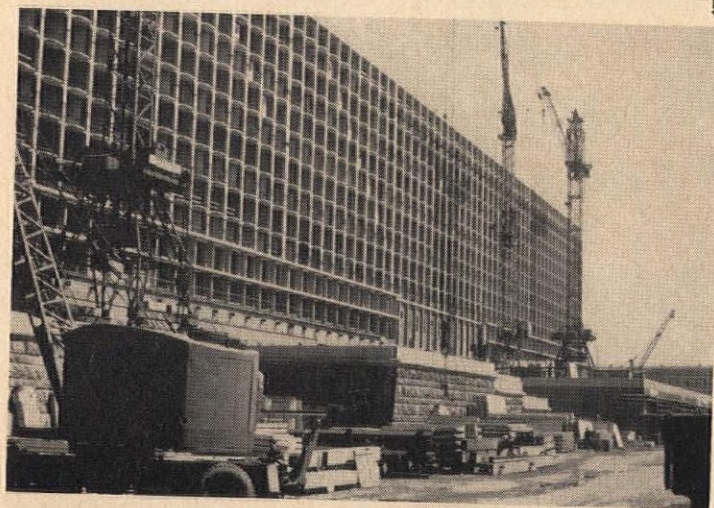
NEW YORK, N.Y. Gathering in New York, the jurors for the 13th Annual P/A Design Awards Program spent two intensive days (September 20 and 21) selecting the 1966 winners from a field of 778 entries. Edward Charles Bassett, William J. Conklin, Kevin

Roche, Vincent Scully, Jr., and Dr. August E. Komendant made the selections from the largest number of entries ever submitted. Winners will appear in the JANUARY 1966 P/A.

The traditional jurors' luncheon was in the kitsch surroundings of Manhattan's Café Nich-



5



6

and to give families that have been living in cramped quarters for years housing of their own.

Surprisingly, Frost came across no distinctive post-World War II buildings—with two exceptions. These, in his opinion, are the Congress Hall in Moscow and the October Palace of Culture in Kiev (5). Both buildings, designed in what might be termed the In-

building effort, on aesthetic grounds, pointing out that its bulk and unaesthetic design will mar the Red Square skyline. Completion is currently planned for 1967, to coincide with the fiftieth anniversary of the Bolshevik Revolution.

Considering the blending of Eastern and Western architectural styles once common in Russia, it seems strange that an indigenous architectural style

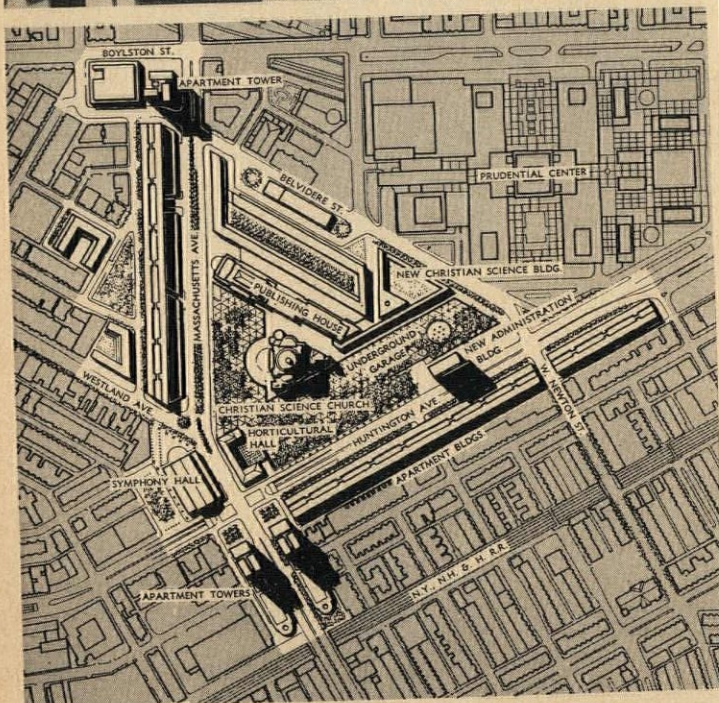
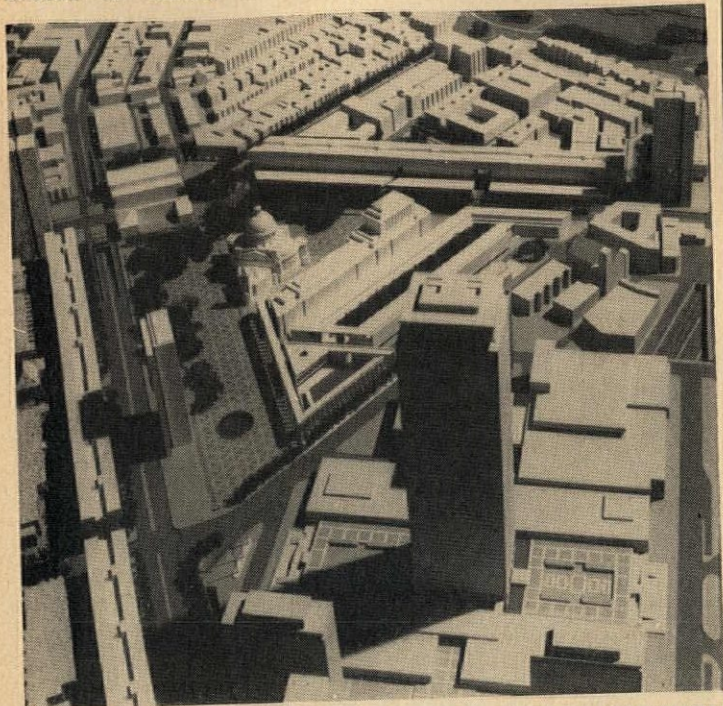
olson. After spending two hours amidst Victorian gargoyles and

murals, the jurors returned with a fresh eye for their work.

\$71 Million Christian Science Renewal

BOSTON, MASS. Crowded as a prayer meeting on Judgment Day, the headquarters of the Church of Christ, Scientist,

badly need room for expansion. The church's board of directors decided that plans for a new church center "could no longer



be postponed." Accordingly, I.M. Pei & Associates worked out a master plan for 31 acres of land surrounding the Original Edifice (built in 1894) and its stately, white-domed extension (completed in 1906), which will continue to be the focal point of the complex and a highlight of the Boston Back Bay skyline. To be completed in two stages, Pei's plan calls

for initial construction of the 15-acre church center on a roughly triangular plot, followed by private construction of apartment and commercial buildings on 16 acres along two sides of the triangle. Seven acres of the church center land will become an open landscaped area, and, rising from one end of the park, will be a 22-story church administra-

tion building. Beneath the park will be a 600-car garage. Although the church has not yet acquired all the land needed for the private sector of the development, it hopes eventually to lease this land to entrepreneurs, who will put up a long row of nine-story apartments lining the two major sides of the church center, anchoring them with three, 34-story, combination apartment/office towers.

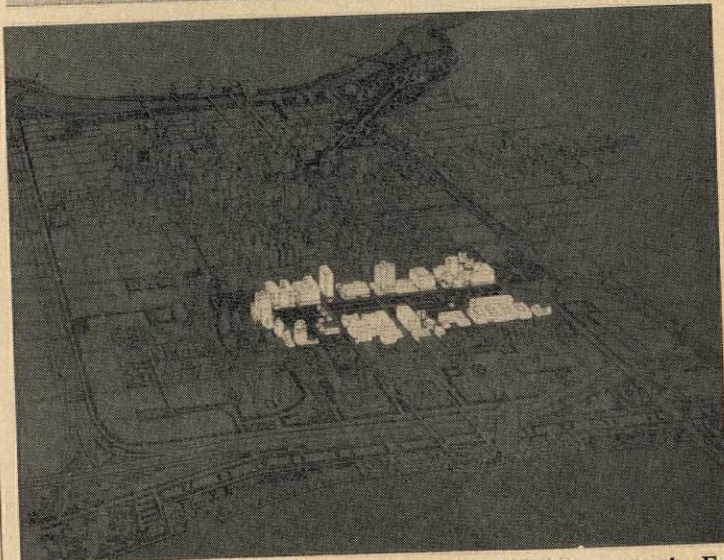
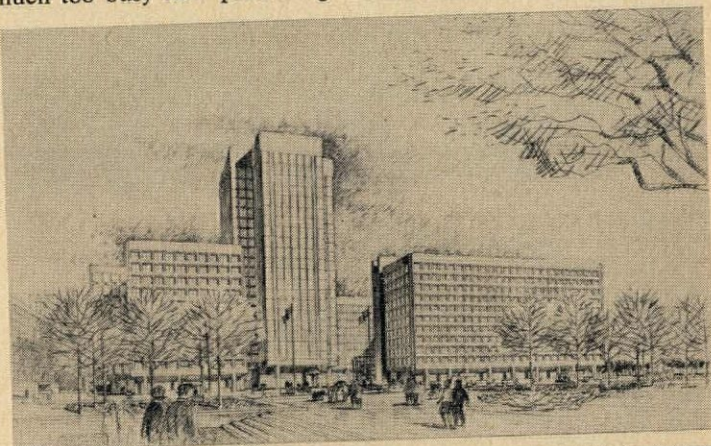
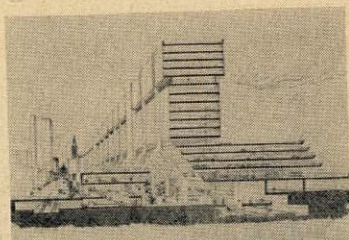
The entire program, which includes relocation of persons in church-owned buildings to be taken down and the maintenance of current tax payments throughout the 6 to 10 years needed to complete the

project, will be handled by the church in consultation with the Boston Redevelopment Authority.

Located not far from the new Prudential Center, the Back Bay area includes Boston's Museum of Fine Arts, Symphony Hall, Horticulture Hall, Public Library, Civic Auditorium, New England Conservatory of Music, Jordan Hall, and Northeastern University. In recent years, it has slid quietly into shabby gentility. Pei believes that, as a result of his plan, "this part of Back Bay can look forward to a restoration of its former dignity as a residential cultural, and spiritual hub."

The Philadelphia Story

PHILADELPHIA, PA. "In Boston," Mark Twain once noticed, "they ask, How much does he know? In New York, How much is he worth? In Philadelphia, Who were his parents?" In Philadelphia today they no longer ask questions—they are much too busy now producing



the answers in their massive, \$2 billion Center City redevelopment and rehabilitation

program. (Oddly enough Ed Bacon, executive director of the City Planning Commission,

under whose aegis the program has been since 1949 thoughtfully planned and coordinated, had as his 1932 Cornell senior thesis "Plans for a Philadelphia Center City.") The program is massive and stretches from one end of the city to the next—from the Science Center in the west to Penn's Landing in the east. Penn Center, Market East (1), Society Hill, Independence Mall are all the giant steps that Philadelphia is taking along the way. And this giant has no feet of clay.

Last month, plans for Independence Center (2)—a \$50 million "office park" near the Mall to be located between 6th and 7th and Race and Arch Streets were announced by its developer Norman D. Denny. Bower & Fradley, architects of the General Waterworks Building at 15th and Walnut Streets, have designed a ten-building complex which will offer restaurants, underground parking for some 1200 automobiles, a "drive-up" movie theatre, health club, data processing centers, plus some attractive economics. Office space will be sold (at prices lower than many of the current rental fees) to tenants who can purchase space for the future. Left over space will be rented (by the developer) for the tenant until he needs it. Denny's attractive offer will, he hopes, fill all the spaces by the 1970 completion date.

Most likely he will succeed. As a former vice-president of Levitt & Sons, he once filled the residential development, Rambler Park, in record time. His ploy—a free Rambler with each home bought at the opening of the site. But Denny doesn't really need tricks for this one. The office complex, as a part of Independence Mall (3) a three block long park which will lead from Philadelphia's Independence Hall to Franklin Square, should be just as successful as the whole rejuvenation of Center City is turning out to be.

JERSEY AIA MEETS

SPRING LAKE, N.J. Spring Lake was the site of the 65th annual convention of the New Jersey Society of Architects. From September 9 to 11, the architects registered their ladies, charmed their guests, awarded student scholarships, and fought the battle of "Environ-etics."

A more fitting convention



Photo: David Hirsch

1

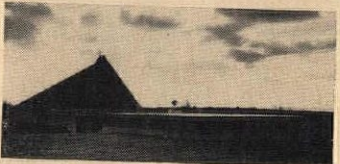


Photo: Alexandre Georges

2

theme could hardly have been chosen for the most environmentally raped state of the Union. Those traveling to the convention from the north were introduced to the "Garden State" through the Jersey flats—those inspired industrial parks that have turned a once aquatic bird sanctuary into an odiferous polluted sewer. The traveler might then have enjoyed a thrilling ride on U.S. 22, whose bordering commercial chaos accounts for its reputation as the most deadly strip of black-top in the country. If he survived this hurdle, he would then have seen the real environment of New Jersey: its pine barrens, rolling farmland, and lovely coast.

The keynote of the convention was sounded on Thursday by chapter president Robert R. Cueman, who called for the architect to arm against the "ill-begotten mess we Americans are creating for ourselves." His words were echoed at Friday's dinner by Robert Durham, AIA vice-president, who challenged the architects to take the opportunity of molding our environment. Both men spoke within the general context of the AIA's war on ugliness—a program that is idealistic, uncontroversial, and as necessary as man's war on the shark.

A commitment to political and economic action by the architects would seem a mandatory corollary to the successful realization of their idealistic program. And, indeed, the convention was addressed, at its opening, by Governor Hughes, and, during the ensuing two days, by other prominent political figures. But representatives of the financial world were noticeably absent. The political pronouncements, in an election year, coincided with the AIA's war on ugliness. Frank

Thompson, New Jersey Congressman, was given an award for participation in the battle.

Seminars on "Environetics"—described as the study of "Total Site Environment"—were held on each of the three convention days. On Thursday, Arthur Edwin Bye, Jr., and Herman L. Porter discussed landscaping. On Friday, a panel on lighting included Dr. H. Richard Blackwell, Seymour Evans, and Stanley L. Peterson; and Saturday's panelists were Professor Henry Wright and Jerome M. Larson, who discussed interior environment.

The display of award buildings demonstrated the increasing abilities of the New Jersey architects to build competently designed structures. Illustrated here are the Assembly and Education Building for the Unitarian Society of New Brunswick, designed by Jules Gregory (1), and a church in Lambertville, also by Gregory (2). However, in a convention stressing total environment, it might have been better, particularly in justice to the designers of industrial buildings, to have shown the basis of rationality they had introduced into chaotic industrial settings. Given the theme of environmental responsibility, more attention should have been given to illustrating the surrounding building environment.

Perhaps the one-man project and the enlightened private client are the prime surviving elements of pure architectural expression. At least, as presented at this convention and in most of our architectural magazines, that would seem to be the case. Perhaps it is a necessity that architectural expression be divorced from the "common sense" of commercial and industrial buildings today—the commercial and industrial common sense that often is so common and so devoid of sense that it does not even commission architects to design its projects. If this is true, and if the only course open to architects is to design isolated buildings, then the AIA crusade is needed to educate the nation. As Robert Cueman remarked in his keynote address, no one is "better qualified . . . to lead the fight" than the architects; and we feel there could be no better battleground than the Garden State.

Interment Decorators

COLUMBUS, OHIO. Latest new design type should attract the attention of Jessica Mitford and all architects interested in grave matters. Mr. P. J. Sigal, evidently in a paroxysm of revelation after decorating a funeral home in Youngstown, Ohio, announced that What America Needs is a firm dedicated to being "the only complete design and consultation service for funeral directors." Funeral Home Interiors has been formed by Mr. Sigal to fill this deplorable vacuum. The organization will work "with the architect, builder, or the Funeral Director, to furnish functional interiors that compliment [sic] the design and structure of the funeral home." FHI's flugleman announces that the firm's experience will lend itself to the discovery of "dual purposes" for rooms (obsequies in the morning and a Bar Mitzvah in the afternoon?). Design aim is for a "lasting, dignified effect" without "the sombre look." Product is an undertaking establishment "to which the director can point with pride, and in which visitors and the bereaved are put at ease"—a million laughs, we take it; nothing like an unhappy burial.

If you want this latest refinement on The American Way of Death, you can find it in Columbus, Ohio. More information than that you are not going to get out of us with a massive formaldehyde injection.

Friedberg Sweeps Landscape Awards

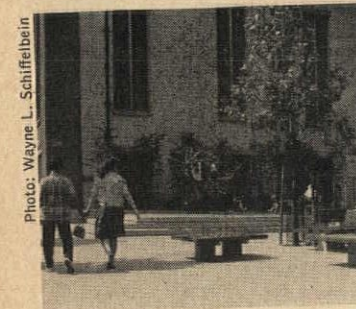


Photo: Louis Reins

1

HARTFORD, CONN. The American Society of Landscape Architects held its annual convention in Hartford in late June, and as part of the proceedings awarded prizes for distinction in landscape design. It is interesting to note that at least six citations were for imagina-

tive landscaping of public housing areas or similar projects. Only three went to the more traditional type of landscape architectural commissions: one to a private house, one to a country club, and one to a school. The firm of M. Paul Friedberg & Associates swept the field with three Honor Awards (Pavilion of Spain at the New York World's Fair 1, Hillel School 2, and Nathan Straus Memorial Plaza 3) and two Merit Awards (Carver Plaza and Amphitheater and Riis Plaza and Amphitheater).



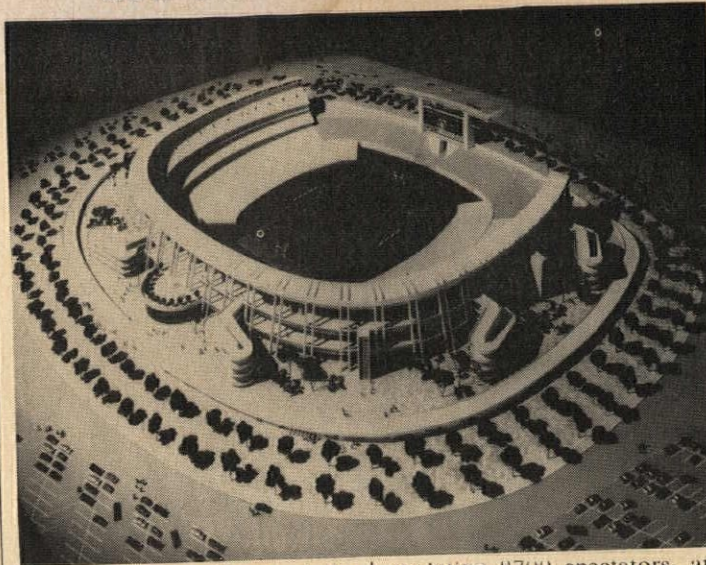
Another Honor Award was won by George Patton (University of Pennsylvania Campus 4). John Rahenkemp-Richard E. Vogel won three Merit Awards for their Haveford Garden Apartments, 22nd and Meredith Block Rehabilitation, and a private residence. Allen



W. Hixon, Jr. won a Merit Award for the Tumble Brook Country Club, and a Merit Award was earned by George Patton for "Sculptural Spaces for Imaginative Play."

Jury consisted of Lyle Blundell, Stuart Dawson, James Skeritt, and N. A. Rotunno.

New Stadium For San Diego



SAN DIEGO, CALIF. Sports stadia are proliferating almost as fast as cultural centers. This stadium, designed for both football and baseball events in San Diego, is scheduled for completion by the fall of 1967. With it, San Diegoans hope to lure a major-league baseball team to town to match the recently formed San Diego Chargers of the American Football League.

Designed by Frank L. Hope & Associates, the stadium will seat 50,564 for football games and 47,144 for baseball. Described as "a combination of a square and a circle," it is said to provide more choice seats for both types of sporting events than the more usual circular stadiums being built today. Vertical walking distances within the stadium are minimized by having spectators enter the semidepressed stadium at midlevel. Two movable seat sections, located in front of the lower stands and accom-

modating 8700 spectators, are centered on the 50-yd line for football and moved to form a 90° angle behind home plate for baseball. These sections, supported by a steel frame that rests on concrete pads, can be lifted and towed on rubber tires to a new location. On the exterior, the stadium is distinguished by 38 frames of dual reinforced concrete pillars, 8' apart, and spaced at 28' intervals with cantilevered arms that support the upper-level seating. Ramps spiraling to these upper seats are placed at intervals outside the stadium and provide walkways. As planned, the seats, which are to be of contour-molded plastic with arm-rests and self-rising seats, will fit horseshoe-shaped around the playing field. Eventually, seating capacity can be increased to 70,000 by filling in the open end of the horseshoe. Construction cost is estimated at \$27,600,000.

Underground Moves

WASHINGTON, D.C. Housing subdivisions built with Federally insured mortgages are now required to have underground utility lines. Although the regulation will affect only an estimated 13.1 per cent of the yearly housing starts in this country, including multifamily buildings, the regulations may have a more far-reaching effect. Despite an additional cost, developers may find that a lack of unsightly power lines and poles may give them a competitive selling edge. The regulation covers both electricity and telephone wires. Although the details are still being worked out, it is expected that builders

will have to comply with the regulation unless they can show compelling reasons to the contrary. According to the FHA announcement, "The developer of new subdivision housing who has not specified underground wiring systems in his plans, must prove to the FHA's satisfaction that such systems are not economically feasible for his project."

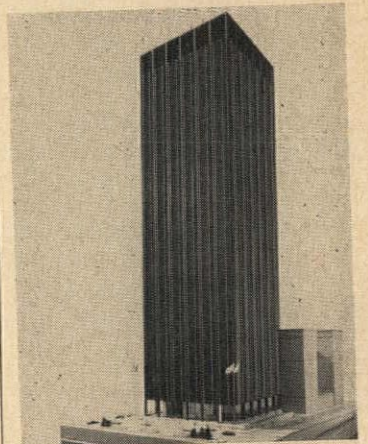
But the lessening of suburban blight may not be accomplished so easily. *The New Times* interviewed utility officials, asking them about the Government ruling. The consensus, according to the *Times*, was that the public remains

largely unconcerned about the buried power lines. In fact, they see poles and wires as a norm and underground wiring as an omission. The future of this aesthetic advance will probably rest like the future of many artistic advances — on salesmanship.

NAAMM Handbook Being Revised

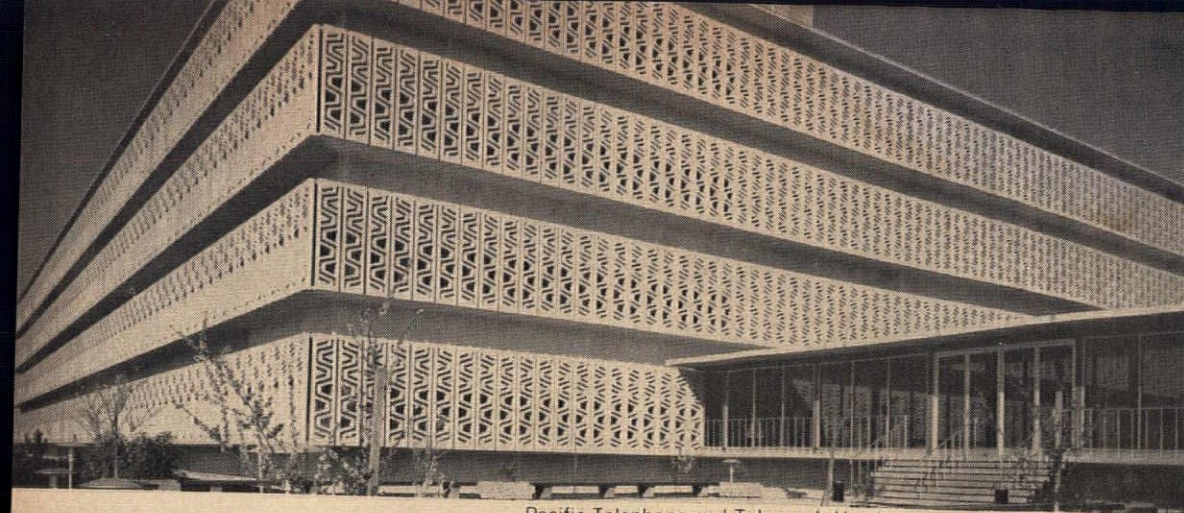
The National Association of Architectural Metal Manufacturers is completely revising its *Metal Curtain Wall Manual*, which it originally published in 1960. They hope to print and distribute the new version next year. Architects and engineers are invited to submit suggestions to NAAMM, 228 North La Salle St., Chicago, Ill., 60601.

Park Avenue Parade

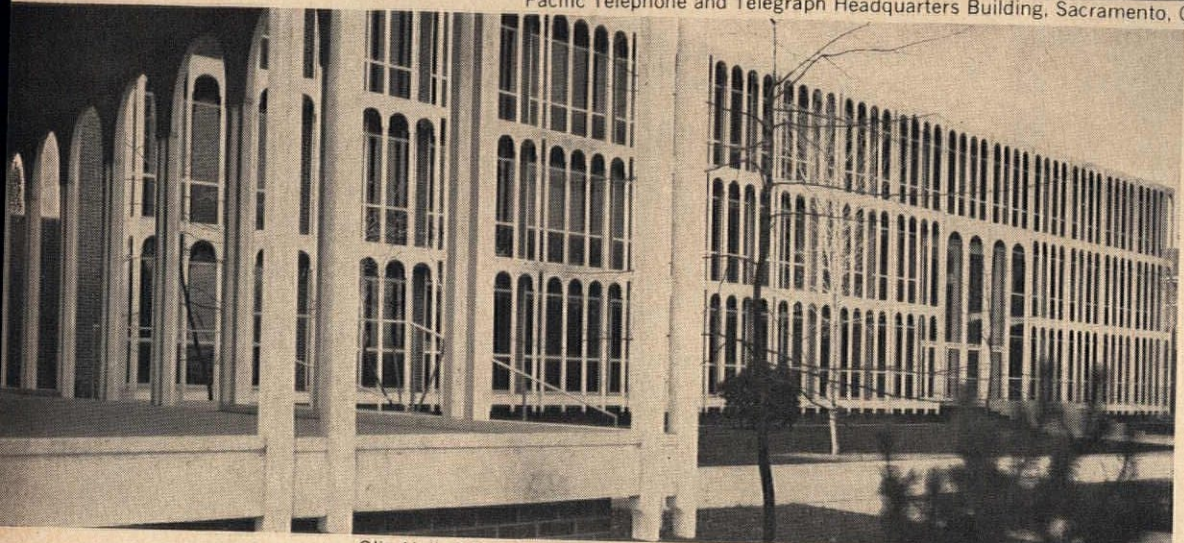


NEW YORK, N.Y. Recent talk of adjusting New York City's outdated building codes brings nods of approval from many who think the changes will pave the way for more flexible designs. One of the first buildings planned for construction under the wished-for amendments is a 42-story office structure that will replace the Park Lane Hotel now being demolished. Designed by Emery Roth & Sons, it will rise from a podium of unpolished gray granite. A rectangular tower, it will provide almost 1,000,000 sq ft of rentable space (26,000 sq ft per floor), and will be clad in black spandrel glass, highly polished metal mullions, and gray-toned window glass. It will be the twenty-fourth office building to rise on Park Avenue since 1946, 14 of them by Emery Roth & Sons, also.

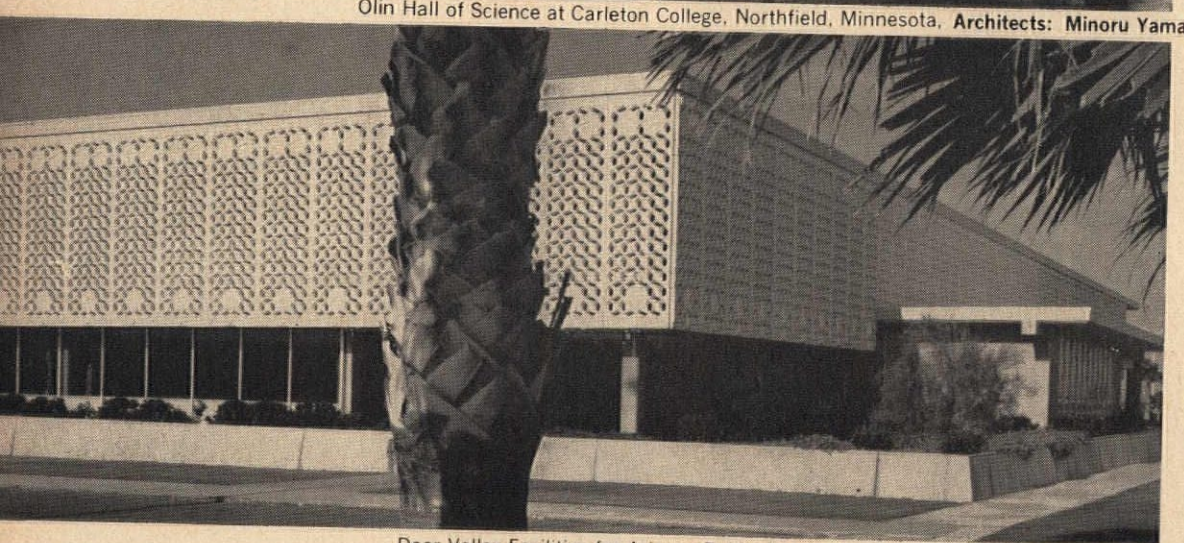
Continued on page 66



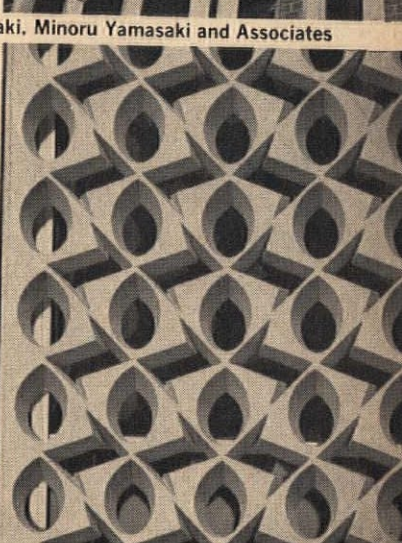
Pacific Telephone and Telegraph Headquarters Building, Sacramento, California. Architects: Hertzka & Knowles



Olin Hall of Science at Carleton College, Northfield, Minnesota. Architects: Minoru Yamasaki, Minoru Yamasaki and Associates



Deer Valley Facilities for Arizona Public Service Company, Phoenix, Arizona. Architects: Guirey, Srnka & Arnold Associates



Mo-Sai® pleasantly patterns the sun.

MO-SAI INSTITUTE, INC. 110 Social Hall Ave. / Salt Lake City, Utah

BADGER CONCRETE CO.
Oshkosh, Wisconsin
BEER PRECAST CONCRETE, LTD.
Toronto, Ontario, Canada
BUEHNER & COMPANY, INC.
Mesa, Arizona
CAMBRIDGE CEMENT STONE CO.
Allston, Massachusetts
ECONOMY CAST STONE CO.
Richmond, Virginia
FORMIGLI SALES CO.
Philadelphia, Pennsylvania
GEORGE RACKLE & SONS CO.
Cleveland, Ohio

GOODSTONE MANUFACTURING CO., INC.
Rochester, New York
GRASSI AMERICAN CORP.
South San Francisco, California
HAMILTON CONCRETE PRODUCTS CO.
Chattanooga, Tennessee
HARTER CONCRETE PRODUCTS, INC.
Oklahoma City, Oklahoma
JACKSON STONE CO., INC.
Jackson, Mississippi
OLYMPIAN STONE CO., INC.
Seattle, Washington / Portland, Oregon
PLASTICRETE CORP.
Hamden, Connecticut

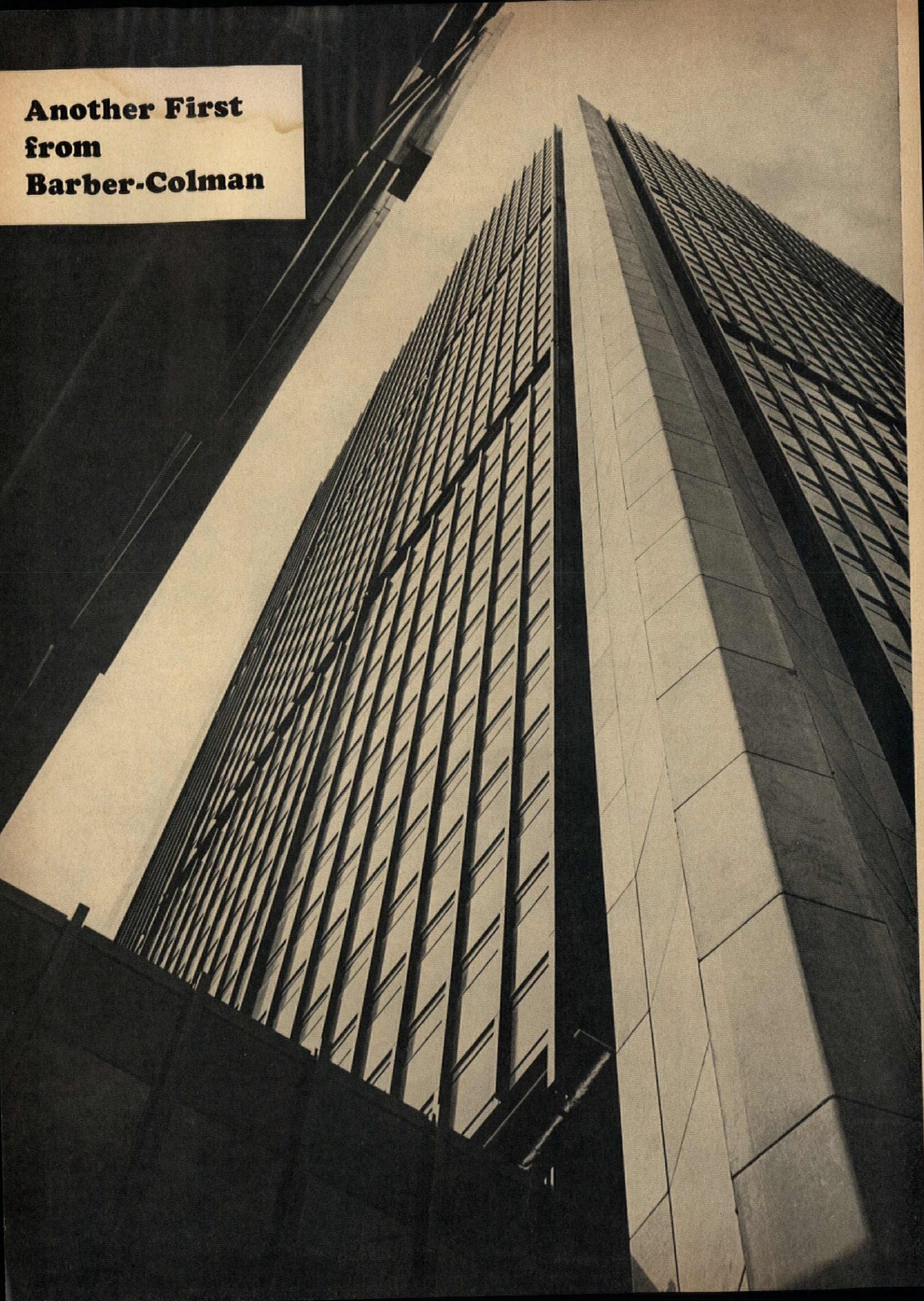
SOUTHERN CAST STONE, INC.
Knoxville, Tennessee
SUPERCORE, LTD.
St. Boniface, Manitoba, Canada
TEXAS INDUSTRIES, INC.
Arlington, Texas
THE RACKLE COMPANY OF TEXAS
Houston, Texas
WAILES PRECAST CONCRETE CORP.
Los Angeles, California
WILSON CONCRETE CO.
Red Oak, Iowa / South Omaha, Nebraska

Mo-Sai®

PRECAST, PRESTRESSED CONCRETE
WITH EXPOSED AGGREGATE

On Readers' Service Card, circle No. 469

**Another First
from
Barber-Colman**



Place Victoria

for more than a million square feet, which is best:
electronic or pneumatic controls?

UNTIL recently, almost all "big job" comfort control systems have been one-type installations—all electronic or all pneumatic. But when the first tenants began moving into Montreal's new Place Victoria in May, 1965, a new era opened in the design of environmental control systems.

The environmental control system for this new Canadian Stock Exchange Tower is the first ever installed which selectively combines the most desirable features of four different types of controls along with new concepts in air distribution equipment and building automation—all designed, manufactured, and installed by a single manufacturer.

Because compatibly designed Electronic, Pneumatic, Electric, and Hydraulic controls are standard Barber-Colman lines, our application engineers were able to select the exact controls best suited to Place Victoria's various requirements. And with nineteen different fan systems, the requirements are bound to be varied. For instance, five systems furnish air for perimeter system induction units. Nine supply Barber-Colman Jetronic Single Inlet Mixing Units for interior zone comfort. Three condition the five below-ground garage and utility levels. Two serve the lobby.

Pneumatic Controls are installed on the 4700 induction units and Barber-Colman Jetronic Single Inlet Mixing Units. These controls are most economical where there is no local source of electricity, and they are ideally suited to simple multiunit sequencing control.

Electronic and Electric Controllers and Actuators control all central fan systems. They are best for this application because of the ease and simplicity with which they provide desirable features such as these: Resetting of hot and chilled water temperatures to match outdoor weather conditions; remote selection of space temperatures; recording and retrieval of building automation data at the Selectronic Control Center.

Hydraulic Controls are used selectively in shopping and store areas to control radiators and wall-type convectors. These compact controls combine the advantages of Electronic, Pneumatic, and Electric Control in a unit-mounted system that offers excellent accuracy for smaller air conditioning and heating units.

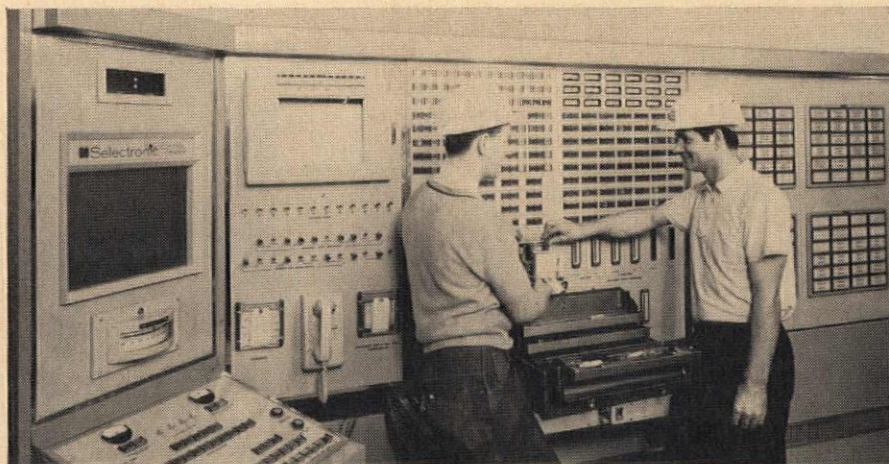
All systems are tied together at a Barber-Colman Selectronic Control Center located on the fifth floor. From here, all fan systems can be monitored and controlled by a single building

operator. Because electronic and electric controls are used on the various fan systems, temperature can be read out and analyzed "Selectronically" without intermediate conversion of signals.

From the time that this project began, a Barber-Colman engineering and installation "Task Force" worked closely with Place Victoria's owners, architects, engineers, and contractors. Result: A complete environmental control system that fulfills exactly the descriptions of operation required in the final specifications.

Today, Barber-Colman is the only company with the experience and staff to design, manufacture, install, guarantee and service all types of comfort control systems and air distribution products. This unique capability enables Barber-Colman to offer important installation and service benefits on your next building.

For more details on the ultimate in fully integrated automatic controls and engineered air distribution systems, contact the Barber-Colman field office nearest you. Or write for our five new booklets outlining the features and advantages of Barber-Colman Electronic, Electric, Hydraulic, and Pneumatic Controls, and Selectronic Control Centers.



This Barber-Colman Selectronic panel controls the climate on all 52 floors of Place Victoria. It provides 42 points of remote indication control and reset on fan and secondary water systems. With it, the operator can read temperatures at each of these points and change the thermostat set point without even leaving the 14' x 20' Selectronic room. A television-like screen at left enables the operator to see equipment layouts for the various systems he is monitoring, simply by pressing a button. (In addition to the Selectronic panel, there are also 14 Barber-Colman graphic control subpanels located throughout the building. These show local system temperature readings and indicate when air filters in the system need changing.)



BARBER-COLMAN COMPANY

Rockford, Illinois 61101

In Canada:

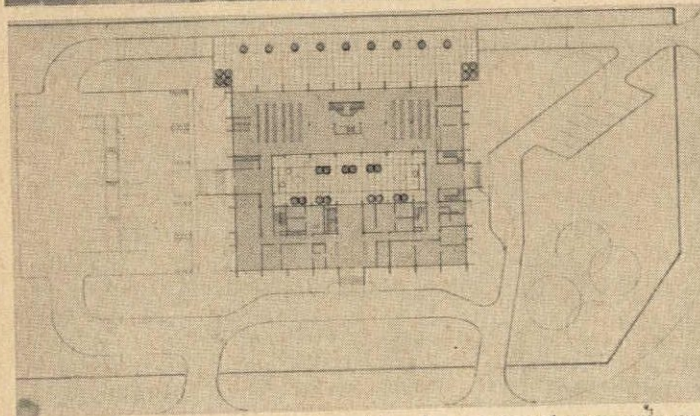
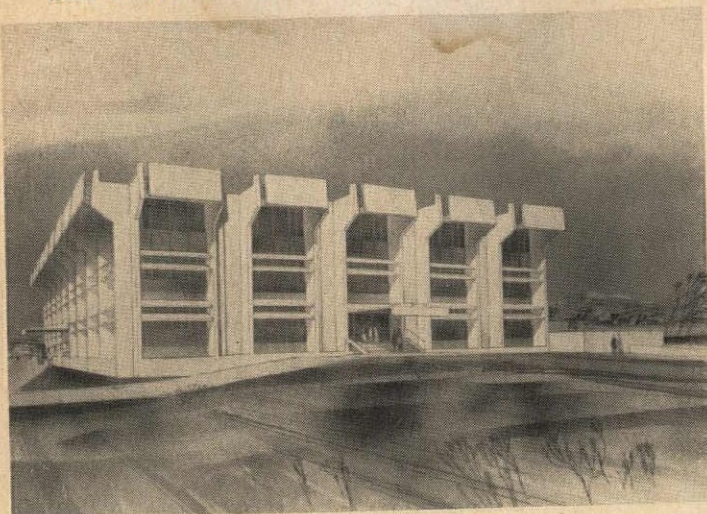
BARBER-COLMAN OF CANADA, LTD.
Toronto, Ontario

... where originality works for you

Place Victoria — Architect: L. Moretti, Rome, Associate Architects: Greenspoon, Freedlander & Dunne, Montreal. Consulting Structural Engineers: P. L. Nervi, Rome; D'Allemagne & Barbacki, Montreal. Associate Consulting Engineers: Letendre & Monti, General Contractor: E. G. M. Cape & Co. (1956) Ltd. Reinforced Concrete Frame Contractor: Janin Construction Ltée.

On Readers' Service Card, circle No. 341

Sun-Protected Office for Madras Consulate



MADRAS, INDIA The new office building of the U.S. Consulate General here will be characterized by emphatic sun-protection devices in the form of louvers and projecting sunshades. A large interior court will also feature louvers (Madras is located at latitude 13° North, and solar loads are something to dry out your Aunt Tillie's gin-and-tonic in a trice). Exterior materials will be cast-

in-place exposed-aggregate concrete and native granite spandrel panels. First floor will hold the visa area and the USIS Library, which will open onto a landscaped terrace. USIS offices will be on the second floor, and the consulate office on the third. A 200-seat auditorium will be located in the basement, under the courtyard. Architect: Burk, LeBreton & Lamantia, New Orleans.

Awards

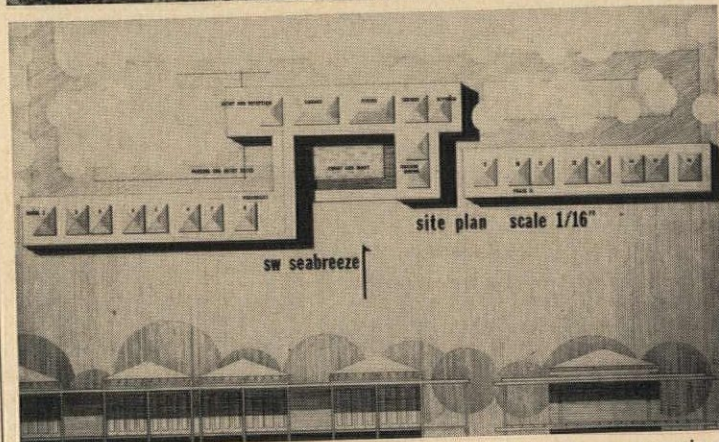
Charles A. Blessing, director of Detroit's City Planning Commission, received the Arnold W. Brunner Scholarship award presented annually by the New York Chapter, AIA. Also lauded with Brunner grants-in-aid were Joseph Russell Passonneau, professor and dean of architecture at Washington University, St. Louis, and Paul D. Spreiregen, Head of the AIA Urban Design Program of Washington, D.C. . . . The Boston Society of Architects has awarded the Harleston Parker Gold Medal to Harvard's Carpenter Center for the Visual Arts designed by Le Corbusier with Sert, Jackson & Gourley, associ-

ated . . . Eight students have been awarded summer scholarships to the Fountainebleau School of Fine Arts in the Portland Cement Association's architectural scholarship awards program. Winners are: James B. Herold of Harvard, J. Stephen Matthias of the University of Virginia, Fred F. Leonard of Kent State University, Louis Orlando Acosta of Louisiana State University, Masao Yamada of Washington University (Mo.), Edward F. Smith of the University of Utah, Larry R. Winds of Arizona State University and Herbert J. Schumann of the University of Manitoba . . . Ludwig Mies van der Rohe has been awarded the national brotherhood award of the Na-

tional Conference of Christians and Jews. . . . Winners of *Lighting Magazine's* lighting modernization contest have been brought to light. They are Donald Lane, Jr., Poughkeepsie, New York, architect for his relighting of Schwartz and Co.; John R. Gale of Dayton Power and Light Co., Dayton, Ohio for his relighting of Woody's Supermarket in West Carrollton, Ohio; and finally Joseph N. Kellas, Assistant Street and Highway Lighting

Supervisor of Niagara Mohawk Power Corp. of Buffalo, New York for the relighting of St. Gerard's Church, Buffalo. All were delighted. . . . Twenty lucky college students have just been awarded Ruberoid's \$500 scholarship. Each year The Ruberoid Co. has made available \$10,000 to be distributed by the AIA to 20 deserving students in their final years of study. Applications may be obtained from the AIA, national headquarters.

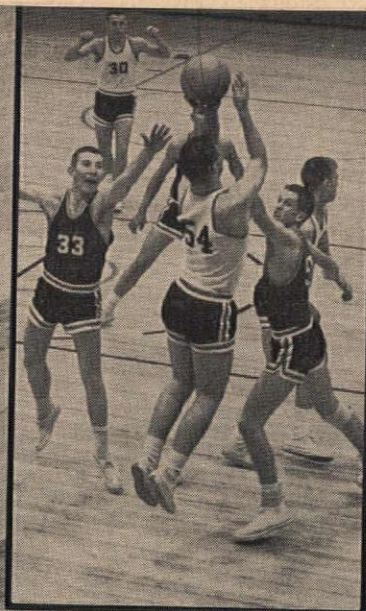
Peace Corps in China Seas



KUANTAN, MALAYSIA. The site alone—a narrow strip of land between the jungle and the South China Sea on the eastern coast of the Malayan Peninsula—would make the design of a motel there an exciting project for any architect. For Thomas E. Regan, Jr., 25, this was especially the case. From the fall of 1962 to June 1964, Regan, a Peace Corps volunteer and a recent architectural graduate of Notre Dame, worked in the Architects' Department of the Malaysian Public Works Ministry. In all, he designed nine buildings. The largest of these was a 16-unit motel, of which he is justly proud. "The value of my experience," he wrote P/A recently, "was in the opportunity for me, as a young architect, to carry through a project such

as this, from its conception, through working drawings, to the actual supervision of construction."

One of four Peace Corps architects in Malaysia at the time, Regan was the only one in the East Coast state of Pahang, where he worked with a Malaysian architect and a staff of 12 draftsmen and technicians. The motel was his own project. After 100 years of British influence, the newly formed Federation of Malaysia is seeking a way to express itself culturally, and Regan was encouraged to find and use an architectural style suitable to the area. His long, rambling plan exposes a maximum amount of the building to cooling breezes from the sea. Regan placed the raised verandahs, which protect the interior



NEW! ROBBINS LOCK-TITE® FLOOR SYSTEM

33/32" T&G Maple flooring
LOCK-TITE flooring clip
LOCK-TITE steel channel
Resilient insulation board
Vaporproof film

**For gymnasiums, stages, shop floors,
bakeries, manufacturing plants**

Robbins LOCK-TITE is an improved mechanically-fastened wood floor system at lower cost. Dimensional stability results from completely integrated design of 33/32" MFMA Northern Hard Maple flooring locked into steel channels anchored to slab. Asphalt-impregnated insulation board isolates the slab, improves rebound action through more uniform resilience, and reduces sound transmission. All installations of LOCK-TITE Floors are made and jointly guaranteed by Robbins and authorized Robbins floor contractors throughout North America. Mail coupon for complete data.

ROBBINS FLOORING COMPANY

Dept. PA-1065

White Lake, Wisconsin 54491

- ☐ Send complete information on the Lock-Tite floor system
☐ Advise name of authorized installer in this area

Name _____

Firm _____

Address _____

ROBBINS flooring company 

Subsidiary of E. L. Bruce Co.

On Readers' Service Card, circle No. 413

of the structure from sun and rain and provide all pedestrian circulation, on concrete piles. The raised structure is traditionally used in Malay homes. Each pyramidal roof unit defines a definite space beneath, and each of these units is raised slightly above the flat roof to provide ventilation. Grouped around a central court, which in turn is encircled by a water-filled moat, all rooms, the lounge and dining areas have sliding louvered doors opening on the sea.

"My biggest problem," writes Regan, "was choice of materials. Timber, the state's main industry, had long been discarded as a first-class building material." Timber rots, and, besides, it was associated with the traditional native hut. Chemical treatment overcame the problem of decay, and Regan's choice of decorative

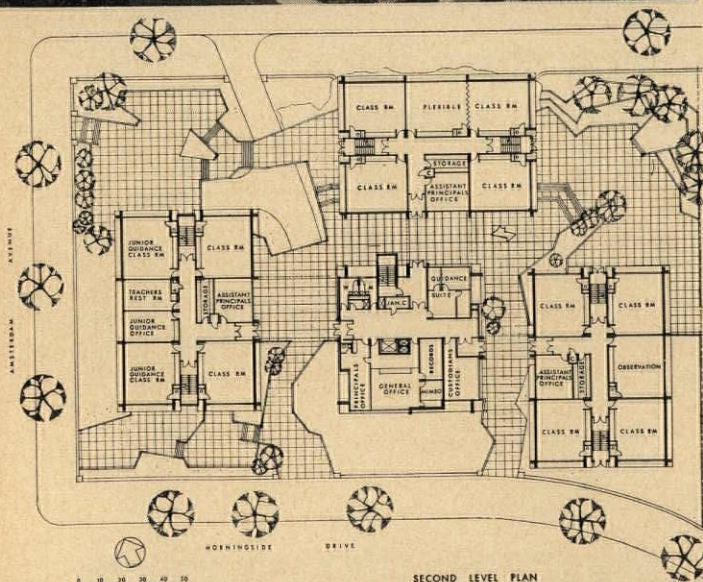
and tough hardwoods lessened the stigma of building with a material that lacked status. He used chengai, one of the hardest Malayan woods, on all exposed exterior surfaces. Because their handsome color complemented the chengai, balau and merawan were used as wood decking and doors.

Work was completed in 10 months by Chinese workmen. A second construction phase will add eight more guest rooms to the eight completed.

Although built with funds provided by the Malaysian government (to help promote tourism and give traveling government officials a place to stay), the motel is being leased to a private manager.

Regan, now back in the U.S., plans to enter Pratt Institute this fall to study for a Master's of Architecture degree.

School in No-Man's Land



NEW YORK, N.Y. Morningside Park is one of Manhattan's least used parks. It is sort of a vertical no-man's land separating the cloisters of Columbia

University, on the Heights, from the streets of Harlem, at its base. In one stony northeast corner of the park, construction is now beginning on an

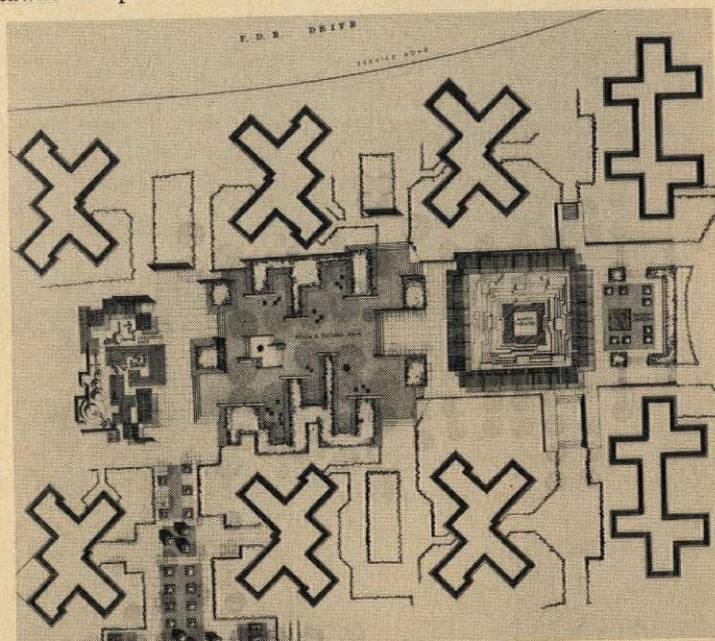
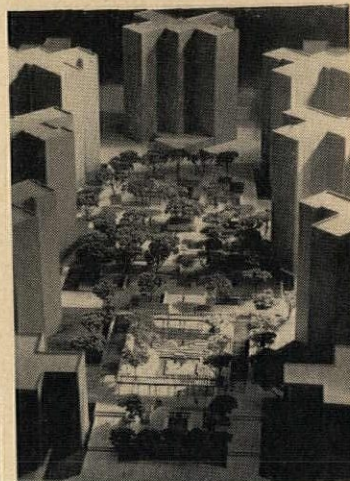
elementary school that will accept children only from kindergarten through second grade. Designed by Frederick G. Frost, Jr. & Associates, the building comprises three classroom-administrative units arranged around a central kitchen-lunchroom-playroom-administrative unit, with the former connected to the latter by bridges. Because the relatively small site (1.35 acres) is hilly

and rocky, it was impossible to leave room for a central playground. Instead, land is being built up and terraced around the edges of the site, creating several small, irregularly shaped play areas. A short service road leads beneath a bridge to a basement loading platform. Completion of the \$2,150,000 structure, which will have a concrete and brick façade, is scheduled for the fall of 1966.

Once More, With Feeling

NEW YORK, N.Y. Backed by the Astor Foundation, the team of architects Pomerance & Breines and landscape architects M. Paul Friedberg & Associates has done it again—or rather, will do it again. Its success at the Carver Houses (pp. 177-79, JANUARY 1965 P/A) was well earned. Now a similar plan—but on a larger scale—is underway for the Jacob Riis Houses. The problem, however—of converting a barren concrete pit into a park for people—is the same.

The designers have replaced lawns and plants with textured

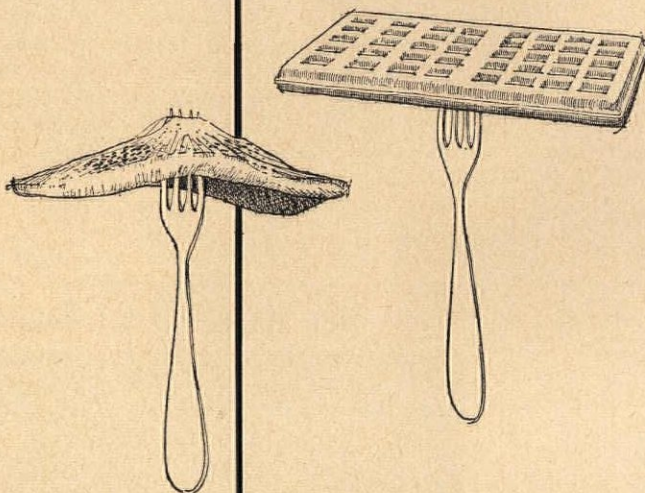


paving. Sculpture, raised planters, and terracing on the site is used to break up this single space. There will be a play space for children off the main walkway (a subtle method of keeping the peace, since children are never out of view). The largest area will be utilized for a series of small brick-paved sitting areas centering on a large sculptural element that will serve as an axis leading to the amphitheater the strongest element in the

design. The amphitheater's terraced steps will lead down to planting, pools, and fountains (which will be open to children in the summer). The terminating element of the design will be an enclosed fountain court for the elderly. Cost for the entire project is around \$750,000. Completion is expected in late December of this year.

Whatever humanity the Riis Houses will have depends on the outcome of the new park.

Waffles are stiffer than pancakes.



When you hold up a waffle, it stays flat. A pancake droops.

You can get a pancake to stay flat by using more batter. But the extra materials and the overcooking add to the cost of the breakfast.

Reinforced concrete floors are similar. Use a waffle system and you stiffen the floor. The deeper the square voids in the waffle system, the stiffer the floor

and the more materials saved... And the farther apart you can place the columns without overloading the system.

Appropriately, we do our waffle forming on a flat fee. This usually proves to be much less than the general contractor would spend to form the floors himself. With a Ceko quotation, you and your contractor have a firm cost before building starts. There are no variables such as insurance, overhead, labor, lumber, and form conditioning. The Ceko quotation includes all these. Your contractor is not subject to a sudden piling up of hidden costs. Tell him so.

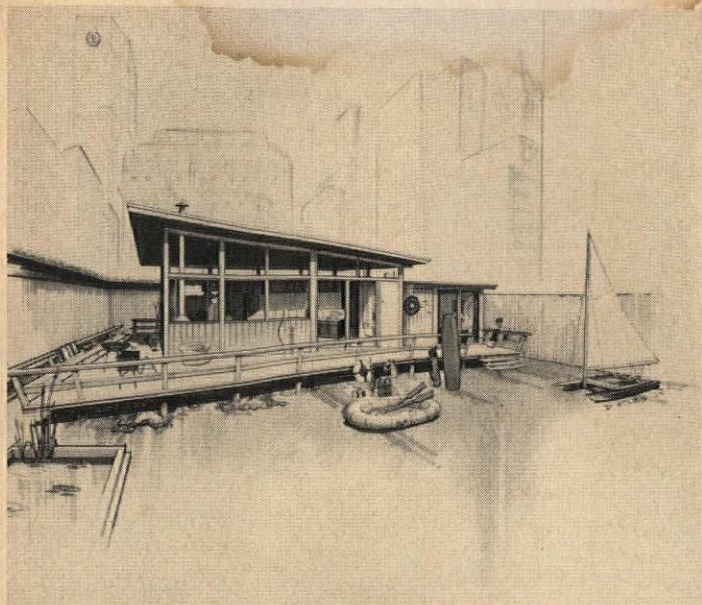
Get full particulars about Ceko's Steeldome Service, for you and your contractor. Write for literature. Also see Ceko's Steelform catalog in Sweet's. The Ceko Corporation, general offices at 5601 West 26th Street, Chicago, Illinois 60650. Sales offices and plants in principal cities.



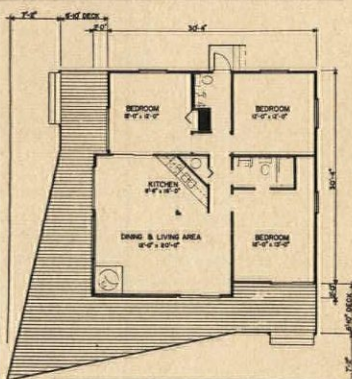
CECO
STEELDOME
SERVICE

On Readers' Service Card, circle No. 348

Vacation House in The Sky



NEW YORK, N.Y. One of the things guidebooks often point out about New York City is that Abercrombie & Fitch, the New York City sporting-goods store, has a hunting lodge on its roof. It does—not for hunting, though, but for use by store officials in entertaining guests. That same roof now also has a vacation house, a model of a prefabricated home that the store will sell and that it will put up for a customer on a lot anywhere in the U.S. A modification of a model offered by Stanmar Leisure Homes, Sudbury, Mass., the Abercrombie version was adapted by interior designer Bud Holman and *Sports Illustrated* magazine; Stanmar will handle construction. The house, which Abercrombie president Earle K. Angstadt, Jr., thinks is "the first . . . vacation house on Madison Avenue," has post and beam construction, the main roof support being a centrally located cedar post, offering flexibility in the interior floor plan, and making possible large sliding glass walls. The living-room/kitchen area has a high ceiling capped



by an encircling row of windows just beneath the roof line, which will flood the room with light, no matter how the house is situated. Three of the home's four rooms open onto a spacious cedar deck (about 1000 sq ft in all). Even with a price tag of \$14,375, or \$16,340 winterized (with insulation and a heater), it is an appealing house—open, inviting, and conveniently functional. Holman decoration includes boldly colored spinaker cloth curtains, and objects from Abercrombie's—boomerangs, bows and arrows, shell collections. One could do worse than spend the summer on Abercrombie's roof.

Personalities

Harvey B. Gantt, first Negro to attend a white, state-supported school in South Carolina, graduated with honors from Clemson University with a degree in architecture. He will join the firm of A. G. Odell, Jr. in Charlotte, North Carolina. . . . **Louis I. Kahn** has been given an honorary degree from Yale University

and praised with the words, "Your design for our new art gallery began Yale's glorious architectural development of the last decade". . . . **H. N. Muller**, vice president, engineering division of Westinghouse Co. Ltd., was installed as president of The American Society of Mechanical Engineers. . . . **John Wilson Cunningham** graduate of the University of Minnesota

(Bachelor of Architecture), and Harvard (Master of Architecture) has received the Rotch Travelling Scholarship for 1965. . . . **Leonardo Ricci**, Italian architect and professor of architecture at the University of Florence will visit Pennsylvania State University this fall. . . . **Hunter & Benedict**, Architects, and **Attridge, Fish & Associates** of Los Angeles have been selected as consultants to the Los Angeles Department of Water and Power. . . . Directors of ACTION Council for Better Cities have re-elected **Albert M. Cole** chairman of the Board and **John H. Muller** president. . . . **Dr. James G. Coke**, urban planner and pro-

fessor of planning and landscape architecture will direct Kent State University's new Center for Urban Regionalism. . . . **Lawson B. Knott, Jr.** has been named Administrator of GSA. . . . New ASTM (American Society for Testing and Materials) officers were named: **Robert F. Legget**, president; **Frank J. Mardulier**, vice president; and **James B. Rather, Jr.** as vice president. . . . Construction Specifications Institute's Los Angeles Chapter has installed for a second term as president **Raymond Whalley** of Prescott, Whalley & Weitt. . . . Newly elected: **George D. Loringier** as president of the American Society for Engineering Education.

Lone Star Students Look South of the Border



COLLEGE STATION, TEXAS Half the fifth-year design students in the School of Architecture at Texas A&M University worked on the student project shown here. The problem was to program and design facilities for the 1968 Olympics, to be held in Mexico City. Working in three teams, which included landscape architectural students, the group had the advisory help of Director Gonzales Reyna of the School of Architecture, University of Mexico, the U.S. Ambassador to Mexico Fulton Freeman, and the Mexican Olympic Committee. Although the project was hypothetical—the Mexican government has not decided exactly what buildings it will put up for the Olympics;

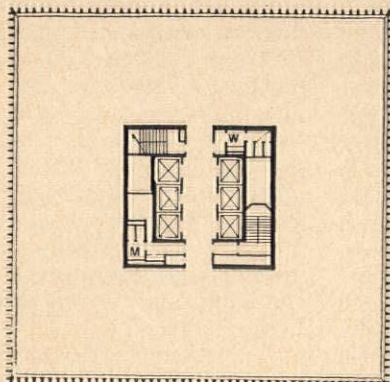
probably some buildings at the University of Mexico will be used—the site used in the designs was an actual one, two miles east of the university. Its 500 acres of lava rock base slopes slightly toward a small dormant volcano crater at the easternmost corner of the site. If the site is actually used, a monorail system will probably connect it with the university.

In addition to site development, the students designed the main buildings: a stadium to seat 150,000; a sports palace or gymnasium with 20,000 seats; a swimming pavilion with 10,000 seats; an administration building; and housing for 12,500 (to be used after the Olympics for student and faculty housing). Each group

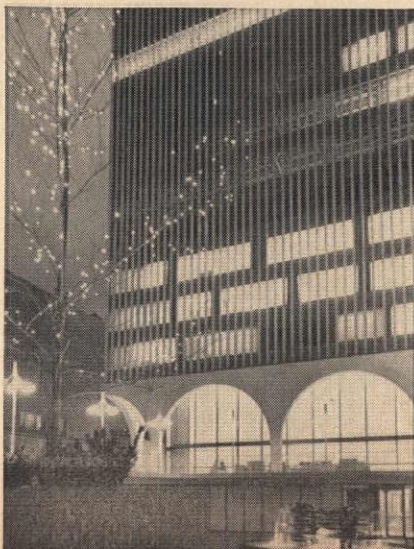


IBM Building, Seattle Wash.; Site Development: UNIVERSITY PROPERTIES, INC., Seattle; Architects: NARAMORE, BAIN, BRADY & JOHANSON, Seattle, and MINORU YAMASAKI and ASSOCIATES, Detroit; Structural Engineers: WORTHINGTON, SKILLING, HELLE & JACKSON, Seattle; General Contractor: HOWARD S. WRIGHT CONSTRUCTION CO., Seattle; Precast Concrete: OLYMPIAN STONE COMPANY, Seattle; Ready-Mixed Concrete: SEATTLE READY-MIX CONCRETE, and PIONEER SAND & GRAVEL COMPANY, Seattle

TYPICAL FLOOR plan illustrates central service core with reinforced concrete walls. Floors extend to outside walls, with no interior columns needed. Waffle-slab floors are supported on integral concrete beams, precast at the site.



A STRIKING NEW LANDMARK by day (above) or night (below), the new IBM Office Building in Seattle makes effective use of fire-safe, locally-manufactured, modern concrete.



IBM's computerized concrete skyscraper A CPM-Incor® Story

The \$8½-million, 19-story IBM Building in Seattle was literally born in an IBM computer. The contractor used the computer to plan his work sequence under the Critical Path Method, and to obtain cost control information. Result: the building was completed a month ahead of the target date, and at minimum cost.


Equally unique was architect Minoru Yamasaki's structural design. The 113-ft-square building relies on a central reinforced concrete service core as a supporting element. Waffle-type concrete slab floors extend from the core to the outer walls, eliminating columns in the office areas. Pipe columns in the outer walls are concealed by concrete fins.

Lightweight-aggregate concrete, made with "Incor" high early strength portland cement was used for floor topping. This decreased the weight and shortened the critical path time. Regular Lone Star portland cement was used for all other cast-in-place concrete.

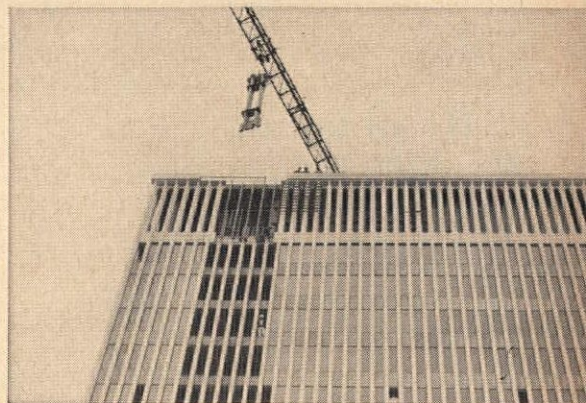
The nearly 2000 precast, prestressed decorative fins were also made with "Incor" cement for rapid turnover of forms. These exterior fins were surfaced with white cement and marble chip aggregate.

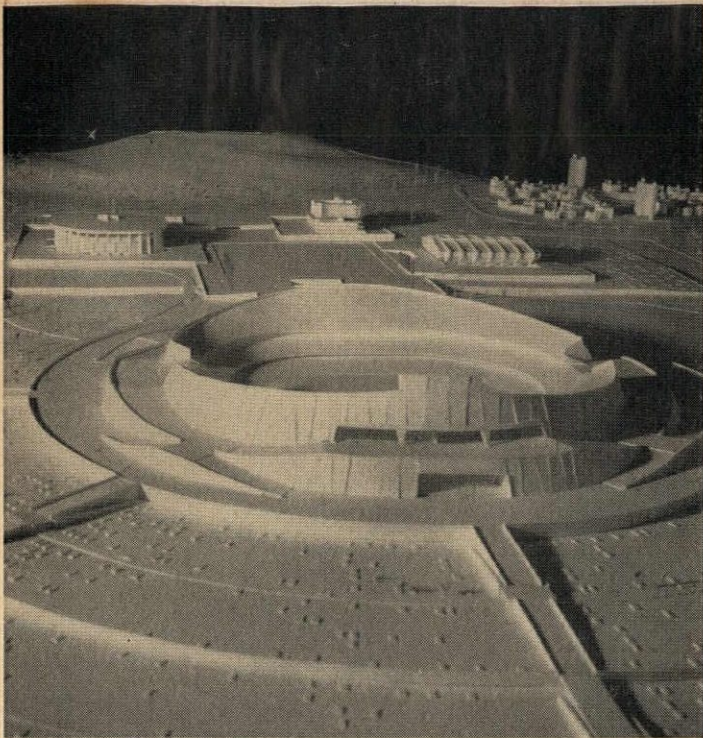
"Incor," America's first high early strength portland cement, helps make the most of today's CPM and precasting techniques.

Lone Star Cement Corporation
100 Park Avenue, New York, N. Y. 10017

 **INCOR®**
24-HOUR
CEMENT

EXTERIOR WALL has nearly 2000 prestressed concrete fins, each two stories tall.





2



3

worked with a different site plan. Group I (1) clustered the primary buildings around a central pedestrian plaza. Group II (2) also has a central plaza, but the spaces defined are rectangular and the spectrum of activity diminishes as it moves toward the volcano where the

housing is situated. In Group III (3), the stadium is the focal point around which all activities are grouped. Again, housing is furthest from the center.

Faculty advisor for the project was Paul Pate, Associate Chairman of the School of Architecture.

Eavesdroppings

"One excellent reason for becoming an architect is that he always deals with people who are in a happy, optimistic mood. A man, for instance, has a family and wants to build a beautiful home for them. Someone has been successful in industry, and he wants to build a new factory

or a symbolic building. Architects are always working with people who are happy, instead of people bedeviled with stomachaches or legal problems."—*Edward D. Stone advises the youth of America in March 1965 Boys' Life.*

"The sheer physical aspects of the automobile are not confined to what happens when it

is in motion. Alive or dead, it is a jealous consumer of space. The stabling of a single car requires some 13 per cent of the floor space of an average family home. Commercial parking establishments, nearly eleven thousand of them, aggregate into big business with an annual intake of over a third of a billion dollars and the consumption of an important amount of urban space. Metered on-street parking is a significant element in municipal income. But both free and paid parking are often at a premium in commercial areas, their benefits being offset by the obstruction to the flow of traffic. The loss of sales in the older civic centers due to parking difficulties is amply proved by the growth of peripheral shopping facilities, due only in part to suburban expansion. . . .

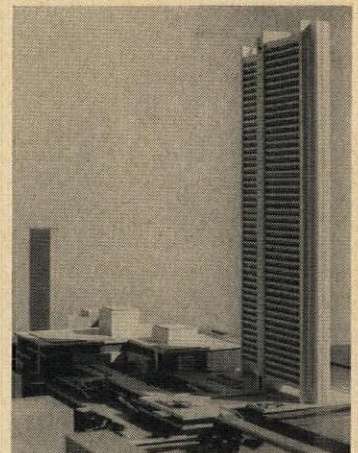
"The American public, so often accused of materialism, suffers from exactly the opposite malady—a lack of respect for materials. The modern automobile, aside from weird vagaries of appearance which seem to be quieting down, is a superb engineering achievement deserving more respect and better care than it usually gets. One cannot help thinking nostalgically of an earlier day when possessions were harder to come by and home equipment such as edged tools and rifles were given the loving care now bestowed on household pets." *Paul B. Sears, "Man or Motor," The Atlantic, July 1965.*

"My own conviction is that we are at a point where the forces we think most characteristic of modernity are still in a comparatively benign state of development. But those forces could quite rapidly change their aspect, becoming violent and destructive as they overflow the banks which have contained and disciplined them. It is quite fascinating, for example, to see advertisements in the New York buses which invite the crowds to come out to the World's Fair, where they may enjoy the spectacle of seeing illuminated figures chart, moment by moment, the U.S. population explosion. We can still find pleasure in the fact that we are a growing population. But how long will that be? How long will the public mood permit us to exploit for commercial entertainment a phenomenon which could suddenly here—as it has already else-

where—become one of the grimmest and most forbidding realities of the time?

"In the same way we take delight in huge building programs—not only finding them good for business, but really being convinced that they will prove good for man. Yet the growth of cities can quite literally become cancerous. In the less developed countries, cities are already being filled with refugees from rural slums unable to shape a viable urban existence for themselves. And certainly we shall begin to take a new and more somber view of the building explosion when, like the population explosion, it begins to outrun the bounds of human values and rational choice." *August Heckscher at the AIA Convention.*

JO'BURG HIGH-RISE



JOHANNESBURG, SOUTH AFRICA. Johannesburg calls to mind images of diamonds and gold, Jan Christian Smuts and Cecil Rhodes, of Winston Churchill escaping from a Boer prison, and of Herbert Oppenheimer trying to corner the world's diamond market. But though the city's history may be romantic and distinguished, its architecture is about as exciting as Newark's. With a population approaching 1,000,000, Jo'burg sprawls over the yellow soil of the Transvaal, growing outward instead of upward. Its tallest building is 23 stories high. Now, however, plans are underway for a complex of buildings—two theaters and an office building to house the offices of the Transvaal Provincial Administration—that may well start a trend toward architectural distinction here. It may also start a trend toward taller buildings. At 45 stories, the administration building will be 5 ft taller than the city's

Continued on page 76

MODERN ARCHITECTURAL DETAILING

2

MODERN
ARCHITECTURAL
DETAILING

**Announcing
a companion
volume to
Konrad Gatz's
highly successful
first volume**

MODERN ARCHITECTURAL DETAILING: Vol. II

Edited by Konrad Gatz

1965 284 pages 500 illustrations (40 in color) \$17.50

This book illustrates how some of today's leading architects have solved the detailing problems which have faced them. It is divided into three main sections: (1) Structural Details which covers everything from details found in steel-framed and reinforced concrete buildings to garden pools and fountains; (2) Details Of Interiors and Fittings; (3) Unity Of Detail which deals exhaustively with five complete building projects notable for their excellent design. The detail work of more than 250 American and European architects is examined with a view toward aesthetic quality, technical soundness and originality. The value and uses of both new and traditional materials are discussed in relation to structure, exteriors, interiors and landscaping, providing a wealth of ideas and information for the architect, draftsman, designer, building contractor, and interior decorator.

Available at your bookstore or write

REINHOLD BOOK DIVISION
430 Park Avenue, New York, N. Y. 10022

30-DAY APPROVAL OFFER

REINHOLD BOOK DIVISION
430 Park Avenue
New York, New York 10022

Please send me the book checked below on 30-days' approval (U.S.A. and Canada only) under the following terms:

- ☐ Payment enclosed (Reinhold pays regular delivery charges)
- ☐ Bill me (plus delivery charges)
- ☐ Purchase order attached
- ☐ Please send me a copy of your latest catalog
- ☐ (204-001) Gatz: Modern Architectural Detailing: Vol. II \$17.50

NAME _____

ADDRESS _____

CITY _____

STATE _____

ZIP _____

Save Money! Enclose full payment with order and Reinhold pays regular delivery charges. Same return privilege guaranteed. Please add sales tax on Ohio, Pennsylvania, and New York orders. For your protection, do not send cash. Check or money order only.

Dept. M-220

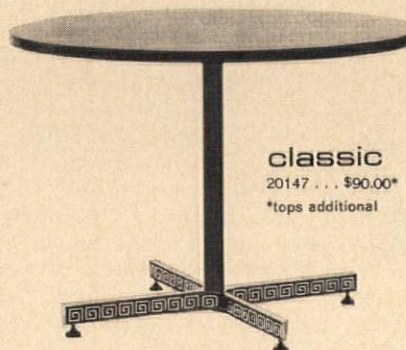
CHF
introduces ...



gaslight
20138 ... \$58.00*



modern
20128 ... \$49.00*



classic
20147 ... \$90.00*
*tops additional

On Readers' Service Card, circle No. 351 ➤

◀ On Readers' Service Card, circle No. 443

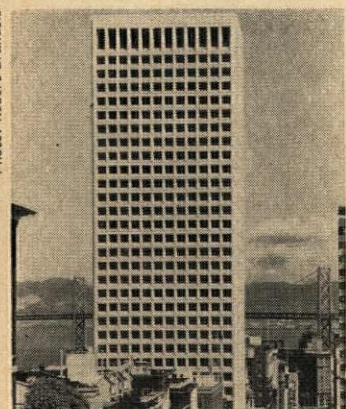
Special Decor ... or Custom Design
CHICAGO HARDWARE FOUNDRY CO.
North Chicago, Illinois

Continued from page 72
highest point: the Herzog Tower, a television transmission tower that stands on the Witwatersrand, the long ridge of yellow earth and stone that forms a backdrop for the city.

Architects Pauw, Moolman and van der Walt, who have been traveling throughout Europe and the United States studying skyscraper construction, plan to start construction on the complex's first building, a small 750-seat theater, by the summer of 1966. When completed, the theater will be part of an L-shaped structure, sharing a common lobby and backstage facilities with a 2000-seat opera house in the other wing. As currently planned, the high-rise office building will have three 40-ft-wide concrete end walls connected by post-tensioned floor-height Vieren-deel trusses. Each of its two narrow wings will project from opposite ends of a common central lobby area, giving the building a central, right-angled cut that breaks the façade line. Stair wells and elevator shafts will be located at the end of each wing. Total floor area will be 475,000 sq ft: 8000 sq ft per floor. Occupying about one-third of the 6-acre site, the structures will rest on a landscaped podium, giving downtown Johannesburg its first planned open space in some time. Beneath will be three parking levels for 1200 cars.

The project is scheduled to be completed by 1973, at a total cost of \$20,000,000.

High-Rise Proliferation



Hartford Building, San Francisco; Skidmore, Owings & Merrill. (Completed.)

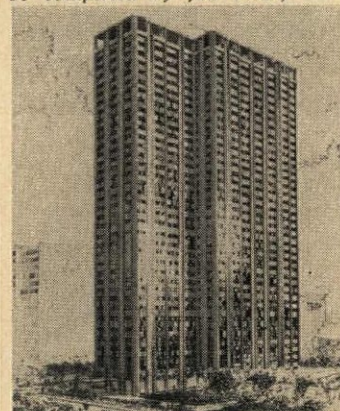
Skyscrapers, like teen-agers, seem to be inevitable, and, also like them, their tribe is increasing. "Michelangelo," Frank Lloyd Wright once mused "built the first skyscraper, I



Blue Cross-Blue Shield Building, Chicago; C. F. Murphy Associates. (To be completed by mid-1967.)



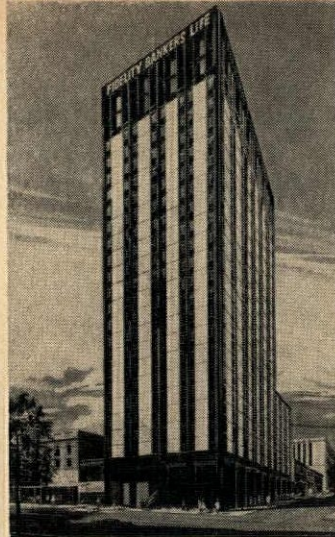
International Trade Center, Los Angeles; Edwin J. Ropperdan. (To be completed by fall 1965.)



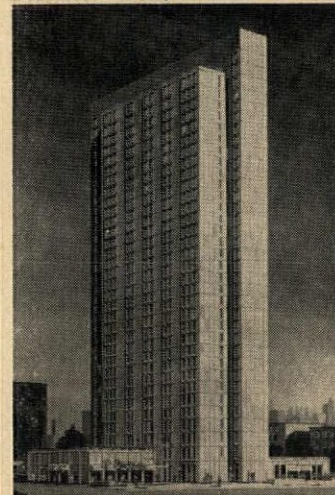
Hawthorne House, Chicago; Solomon-Cordwell & Associates. (To be completed by fall 1966.)

suppose, when he hurled the Pantheon on top of the Parthenon. The Pope named it St. Peter's and the world called it a day, celebrating the great act ever since in the sincerest form of human flattery possible. As is well known, that form is imitation." Wright was willing to admit the emergence of the skyscraper as an art form when Sullivan's Wainwright Building appeared, but he lost whatever enthusiasm or hope he may have had for it (except for his Bartlesville tower and mile-high proposal, of course). "The light that shone in the Wainwright Building as a promise flickered feebly and is fading away," he said later.

But if Wright was interested



Fidelity Bankers Life Building, Richmond, Va.; Marcellus Wright & Partners. (To be completed by December 1965.)



Laurence G. Payson House, New York City; Frederick G. Frost Jr. & Associates. (To be completed by December 1966.)



Office Building, Pittsburgh; Harrison & Abramovitz. (Construction not yet scheduled.)

in the skyscraper purely as architecture, others have worried about it as a social problem and even as psychological one. After the completion of the Flatiron Building in Man-



Mutual Benefit Life Insurance Co., Newark, N. J.; William L. Pereira & Associates. (Construction not yet scheduled.)



Pierce National Life Insurance Co., Los Angeles; Welton Becket & Associates. (Construction not yet scheduled.)

hattan in 1902, some people complained that the weight of skyscrapers would cause the island to sink into its watery surroundings. Others blamed them for the rise in the tuberculosis rate and believed them a menace to life and property. Writing in the 20's, Lewis Mumford saw skyscrapers as intimidating, depriving persons forced to live in their shadows of stature or grandeur. He may have been right; certainly tall buildings cut off light, but such is the adaptability of 20th-Century man that writer Ralph Caplan realized one day last summer, when someone asked him about the Pan Am Building, that he had passed through it twice that morning without being aware of it.

Height and mass are no longer the major architectural considerations in cities such as New York and Chicago, where one more story or a few more square feet are becoming inconsequential. What matters more are things like placement on the site and placement of the site.

HAUGHTON

total elevator automation will assure distinctive service for The DE WITT APARTMENTS in Chicago

Haughton total elevator automation at the luxurious DeWitt Apartments means that elevator availability will be precisely matched to traffic demand 'round the clock.

It means that residents and guests will enjoy service so superlatively quiet and restful that every moment is a joy and a relaxation. Haughton Elevonics* achieves power flow so smooth, so finely controlled that the cars seem to float on a cushion of air as they move swiftly in response to passenger needs.

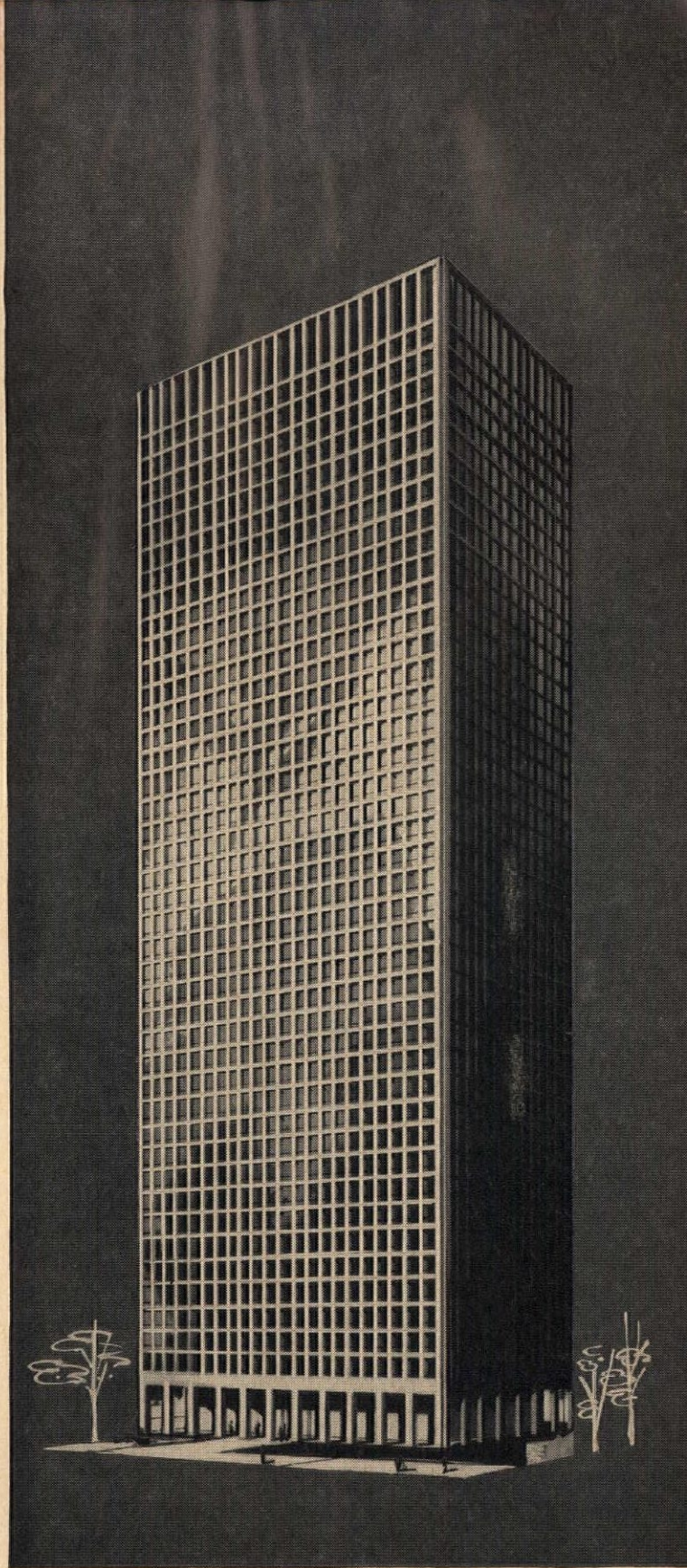
That Haughton *total elevator automation* should be specified for The DeWitt Apartments is supremely logical. From the very beginning, nearly a century ago, Haughton elevators have been built to uncompromising standards of excellence. Thus they command the highest honors for quality, performance, ease of maintenance.

Include Haughton *Total Elevator Automation* in your plans for building or modernization. Ask your Haughton Sales Office (listed in the Yellow Pages) for all the facts, or write to us.



HAUGHTON
ELEVATORS / ESCALATORS

*Haughton's advanced program in systems research and engineering, with specific emphasis on the creative application of electronic devices and instrumentation for betterment of systems design and performance. Registered U. S. Patent Office.



The DeWitt Apartments
now under construction at
the corner of Chestnut Street
and DeWitt Place, Chicago.

Developer:
Metropolitan Structures, Inc.
168 N. Michigan Avenue, Chicago

Architect:
Skidmore, Owings and Merrill
30 W. Monroe Street, Chicago

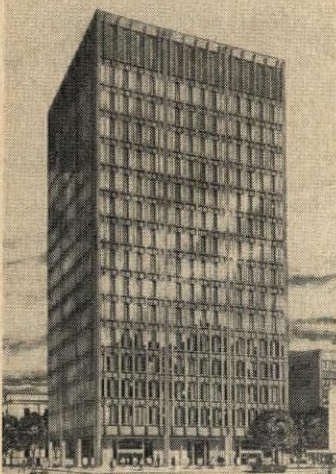
Contractor:
Metropolitan Construction Co.
168 N. Michigan Avenue, Chicago

Haughton Elevator Company / Division of Toledo Scale Corporation / Toledo, Ohio 43609

On Readers' Service Card, circle No. 365



Office Building, New York City; Emery Roth & Sons. (To be completed by fall 1966.)



Wachovia Building, Greensboro, N. C.; A. G. Odell, Jr. & Associates. (To be completed by spring 1966.)

These factors are equally important in smaller, less congested cities, such as Milwaukee, Minneapolis, Cincinnati, St. Louis, and even San Francisco, where the skyscraper is undergoing a minor boom. It is as though some cities had heeded Rodgers and Hammerstein's musical admonition of the 40's about Kansas City, which "went and built a skyscraper seven stories high—about as high as a building oughta go," only to forget it in the press for useable economical space.

The skyscraper was, of course, made feasible by the elevator, ("an unprecedented monster born of the elevator," Montgomery Schuyler once called it). It first appeared in New York in 1870, when Henry Baldwin Hyde's office building for the Equitable Life Assurance Society went up at 120 Broadway. The structure had seven stories and was the first building in the world to have a passenger elevator; two, as a matter of fact. (The Empire State Building has 74

in 7 miles of elevator shaft.)

Just how far has the skyscraper come? A comparison of the Wainwright Building and the Seagram Building would seem to indicate that it has not come too far. New materials have come along, spans have increased, plans have opened up, heights have increased, but both buildings are close to perfect expressions of the form in the idiom of their time.

The watcher of trends can see a distinct move away from the all-glass, -metal, and -porcelainized cladding of the 1950's. The decade of the Park-Avenue-, Emery-Roth-type high-rise building has almost ended, and in its place there is a greater concern with texture and "permanence" for office towers (see CBS Building, pp. 187-192, JULY 1965 P/A). The bright blues and greens of a few years ago have given away to muted tones and dark anodized panels. Frequently, today, even the most prosaic building can assume a little dignity through the use of these techniques. That the 20-year-life structure has not left us completely, however, can be seen by looking at any collection of recent high-rise building projects.

The skyscraper is not a building subject to the playing of many changes, which perhaps led Mr. Wright to his comment about imitation. How well, or how poorly, this "imitation" is being achieved today is partially evident in this indication of skyscraper construction as sampled from our mail of the last two months.

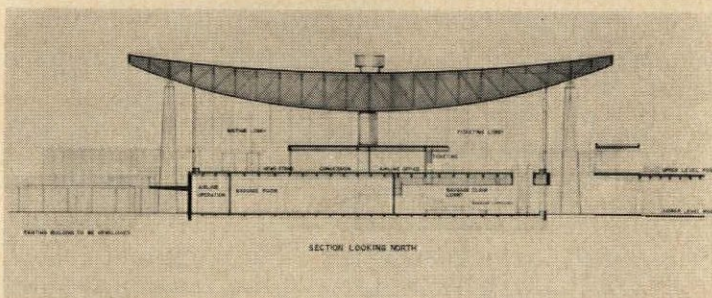
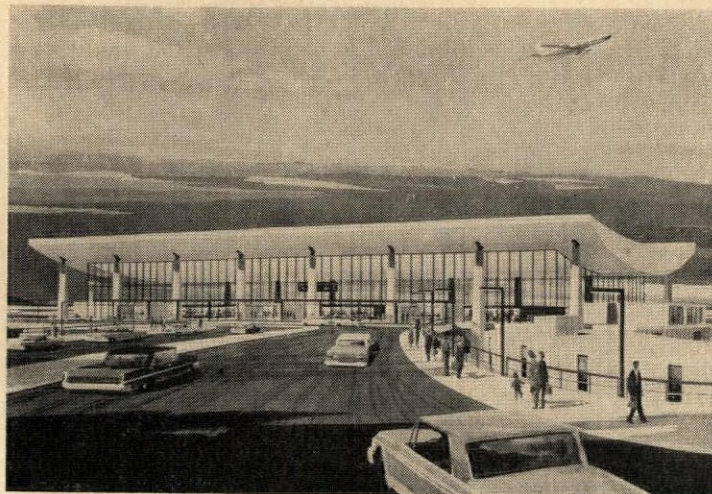
Schools

Cornell University recently received a \$200,000 grant for fellowships in city planning and urban renewal. The fellowships will be known as the Mellon Fellowships in City Planning and Urban Renewal . . . Pennsylvania State University will this fall begin a graduate program in acoustics. A sound idea. . . The American Academy in Rome is offering a number of fellowships in the fields of architecture and landscape architecture, among others. The fellowship competition should attract anyone interested in a program offering roundtrip transportation, studio supplies, travel in Europe money, free residence, studio or study, and access to

facilities at the Academy. Applications and information may be obtained from the Executive Secretary, American

Academy in Rome, 101 Park Avenue, New York 17, N.Y. December 31 is deadline for submission of work.

Mysterious Airport



BOSTON, MASS. You can't chop your father up in Massachusetts, the song says, but this structure evidently does not pertain to works of architecture. Take, for example, the design for the new North Terminal Building at Boston's Logan International Airport by the respected local firm of Perry, Shaw, Hepburn & Dean. Where Saarinen relied on the basic catenary curve and its ally—gravity—to achieve the dra-

matic thin-shell swoop of the roof at Dulles International Airport, the designers have provided here a curved steel truss (16' deep at its thickest point) atop 52'-high pylons, forming a beefy hat for the building, that heavy-handedly recalls Saarinen's tour de force. Why did a good firm do such a thing? Why did the client accept a second-hand Dulles? Such are the mysteries of architecture.

Student Users Advise on Dormitory Planning

MOUNT CARROLL, ILL. When architect Charles Stade of Stade, Dolan & Anderson, Park Ridge, Ill., received the commission for the new men's dormitories at Shimer College in Mount Carroll, he performed the commendable act of going directly to the ultimate users of the facilities—the students themselves—to find out what kind of accommodations they wanted.

The result is what should be an exceptionally amenable plan. Basis is a four-man suite, with two bedrooms for two men each on either side of a common study room. This area

provides space for informal discussions on which the college relies to supplement textbook teaching. The separation of work and sleeping areas also has the obvious advantages of privacy when one student wants to sleep and another to work, and separate temperature controls: the windows can be open in the bedrooms and closed in the study room. Within the bedrooms, bunk beds are used, but, since the students voiced antipathy to regular "Pullman" type bunks, they are at right angles to one another so that only a small part of the upper bed is over

Why anything but *Spectra-Glaze*®?

Glazed Concrete Masonry Units

SPECTRA-GLAZE gives you **COLOR**

SPECTRA-GLAZE gives you **TEXTURE**

SPECTRA-GLAZE gives you **PATTERNS**

...at **LOWER COST.**



® Reg. U.S. Pat. Off., Canada, U.K. and other foreign countries by THE BURNS & RUSSELL CO.

See SWEET'S CATALOG 4g/Bu

Ask about NEW 8x8  4x8 
and brick-size  scored units.

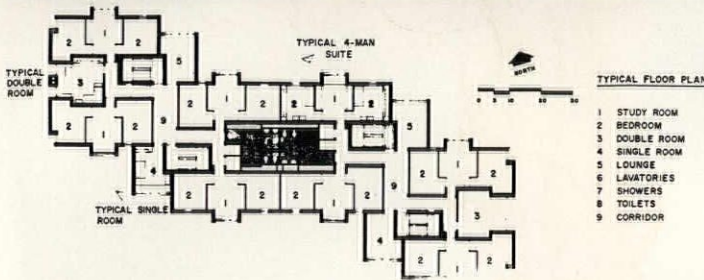
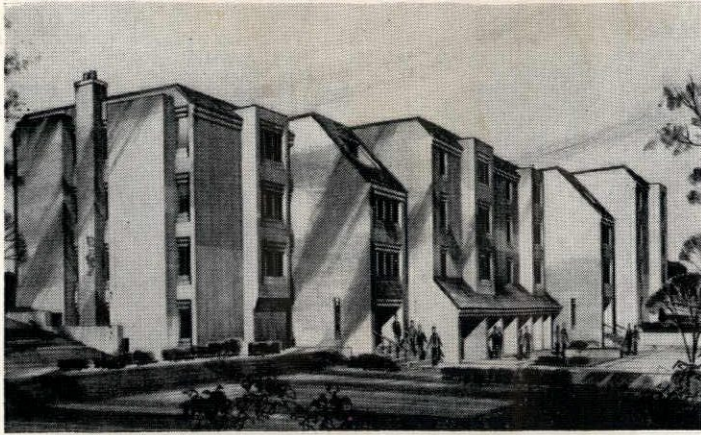
The Burns & Russell Company

P.O. Box 6063

Baltimore, Maryland 21231

301 - 837-0720

For more information & name of licensed manufacturer nearest you, turn to Reader Service card, circle No. 311



the lower one. The students also did not want entrances to the suites directly opposite one another, giving an institutional atmosphere. Consequently, a central area plan has been adopted that clusters the suites around common facilities and avoids long corridors. Additional privacy is insured by having doors always locked and entrance to nontenants

permissible only after ringing a buzzer to the suite. The form of the dormitory will be dictated by the shape of its interior spaces, creating projections, rooms "in the eaves," and similar characteristics of acad me. The students have become so involved in their new dormitory that they have voluntarily helped bring brick to the construction site.

WASHINGTON/FINANCIAL NEWS

BY E. E. HALMOS, JR.

Money was pouring out of the Congressional hoppers in early September, as lawmakers continued their drive for adjournment.

Most of the new supply of funds will go for construction work: some \$500,000,000 in the Housing and Urban Development bill (half for water and sewer projects, the rest for rehabilitation and planning); \$580,000,000 in the "Higher Education Act" (HR 9567) for continuing grants for construction of teaching facilities; \$3,300,000,000 for public works in economically depressed areas; and \$3,000,000,000 in highway apportionments (for fiscal year 1967).

There was one sharp—though temporary—setback in the flow of money bills: The President's veto of the \$1,700,000,000 military construction measure. The veto was based on a Constitutional argument:

President Johnson claimed that Congressional insistence on approving closing of military bases was an invasion of the powers of the Executive branch. It had nothing to do with the amount, which approximated what had been asked in the budget message last January.

In most cases, Congress was outdoing the President in the amounts it would make available for these purposes, and there was only mild protest from the west end of Pennsylvania Avenue about this.

One question remained, of course—but that needn't be worried about until next year: where would the money come from? Most of the funds authorized this year will appear in the form of budget requests next session.

Along Life's Highway

Congressional okay on the highway apportionment was

admittedly a stop-gap measure, intended to insure against any break in the pace of awarding contracts.

But, as of late August, Congress hadn't tackled the vital question of providing new money to meet an estimated \$3,000,000,000 deficit that will appear in the Highway Trust Fund at the end of the program (1972), if current cost estimates are correct. There have been numerous suggestions in the form of bills (transfers of funds from the Treasury, added taxes on trucks, diversion of excise taxes on new-automobile sales and the like), and the President's drive for highway beautification might put an added drain on the fund.

Congress has seemed inclined to sweep the whole business under the rug—for this session, anyway.

You can get an idea of the problem from these Commerce Department figures:

The Highway Trust Fund started Fiscal Year 1965 with a balance of \$641,000,000. Income during the year was \$3,700,000,000, disbursements \$4,027,000,000. So some \$357,000,000 more was spent than was received, and the new balance is \$284,000,000.

Ugly \$ Win Again

Utility won out over aesthetics, at least so far as Congress is concerned, in a dispute between the Atomic Energy Commission and the community of Woodside, California, as to whether power lines should be above or below the ground.

AEC wants to put a 200,000-v line on high steel towers near the community, despite recent local ordinances forbidding such construction. California and lower Federal courts backed the town's adamant insistence that the line go underground. AEC, arguing that such a line would add substantially to costs, also insisted that it has been granted the power to override local laws—and Congress agreed. The case will go to the U.S. Supreme Court.

NASA High-Rise

Architects have been ordered to proceed with detailed design for an unusual "high-rise/low-rise" group of buildings for the National Aeronautics and Space Agency research center at Cambridge, Massachusetts.

The first three buildings—part of an eventual \$60,000,000 project—will include a 26-story (378') tower; a three-story Microwave Laboratory, and a 350-seat auditorium. Architects are Edward Durrell Stone, Giffels & Rossetti, and Charles A. Maguire Associates.

Financial

Most disturbing economic factor for those concerned with building was the increasing evidence of rising construction costs.

The rise, as yet, didn't seem to have any effect on future planning: businessmen still reported plans for substantial expansion, over the next year or so.

But the Bureau of Public Roads' quarterly cost index hit an all-time high for the second quarter of the current year: a jump of 3.5 per cent over the previous quarter—to 106.9 (1957-59 taken as 100). Previous high was 104.8, in the same quarter of 1957.

The BPR index has been rising by small amounts, but fairly steadily, for the past year. Statisticians cautioned, however, that the sudden jump doesn't necessarily forecast a strong uptrend. Biggest factors in the rise were whopping increases (of more than 10 per cent) in costs of excavation and structural steel.

Apparently confirming the uptrend was the Public Health Service's index of costs, which has gone up by fractions of a percentage point every month since its inception more than a year ago. For July, this index was recorded at 112.31—up from 111.83 in the previous month.

Other indicators, however, showed no slackening of support for construction. In July, according to the Investment Bankers Association, voters approved 70.3 per cent (for a total of \$53,300,000) of all public construction bonds presented; average prices of secondary mortgages held steady at \$98.3 per \$100 of outstanding mortgage money for the seventh consecutive month, indicating a continued stability in money markets.

Housing continued its slow drift downward: In July, said the Census Bureau, the rate of privately owned housing starts stood at 1,459,000 units—3 per cent below that a year ago.

JUST PUBLISHED!



1966 EDITION!

Specifications and Load Tables for High Strength Open Web Steel Joists

Here, from the Steel Joist Institute, are 36 pages of specifications, load tables and everything else you need for fast, accurate specification of joists to carry uniform loads on spans up to 96 feet. Covers the following joists: J-SERIES, joists made from 36,000 PSI minimum yield strength steel; LA-SERIES, long-span joists compatible with the J-Series; H-SERIES, high-strength joists made from 50,000 PSI minimum yield strength steel; LH-SERIES, longspan joists compatible with the H-Series. Send for your free copy of this valuable booklet.



STEEL JOIST INSTITUTE
Room 715, DuPont Circle Bldg., Washington, D.C. 20036

**MAIL
COUPON
TODAY!**

STEEL JOIST INSTITUTE

Room 715, DuPont Circle Bldg., Washington, D.C. 20036

Please send me a complimentary copy of the 1966 Edition of Specifications and Load Tables.

Name

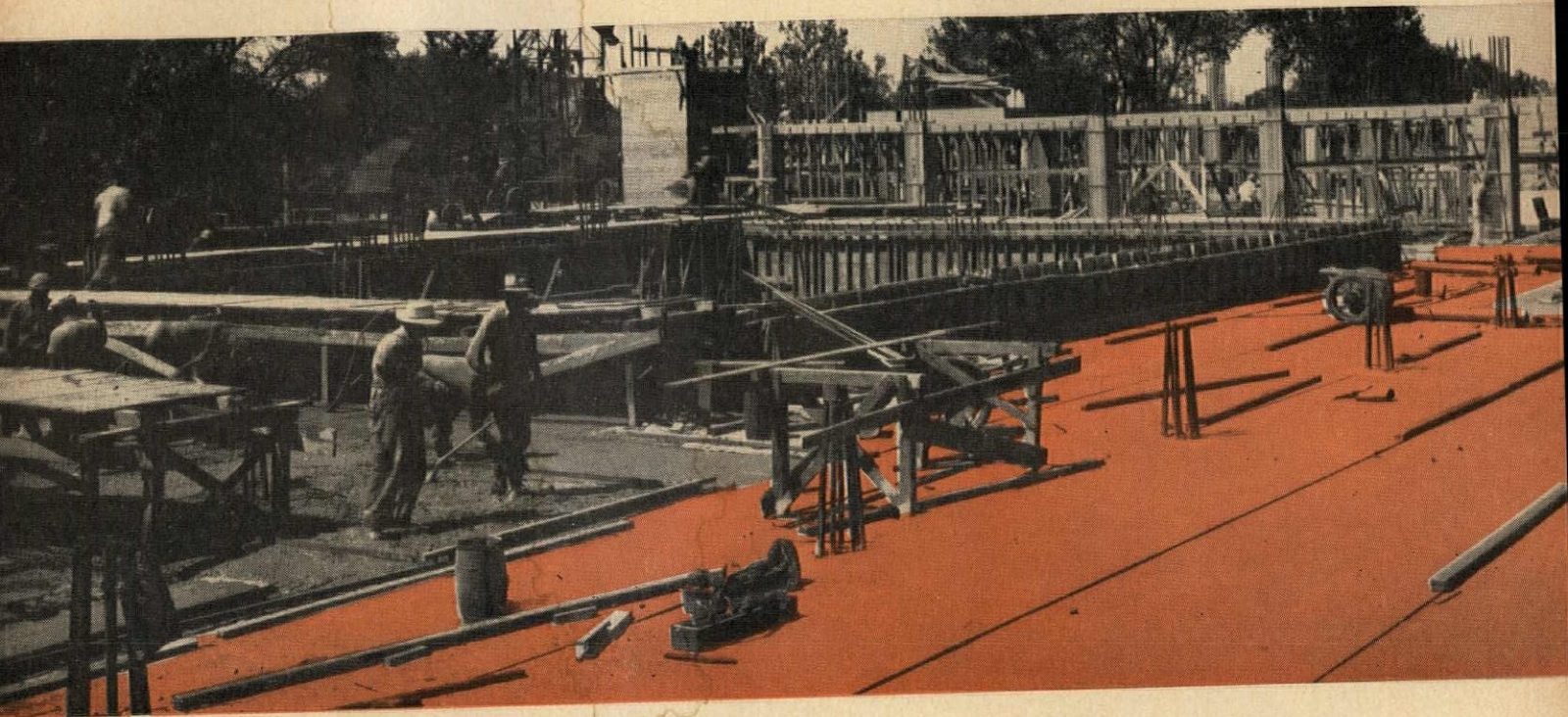
Company

City State Zip

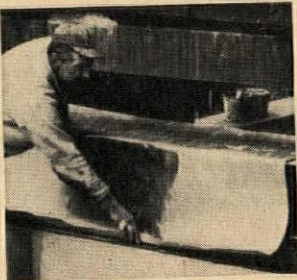
6508

On Readers' Service Card, circle No. 426

Specify **SISALKRAFT® CURING PAPER** for new concrete because . . .



SPECIFY THESE OTHER CONSTRUCTION PAPERS AND VAPOR BARRIERS FOR MAXIMUM PROTECTION IN CRITICAL BUILDING AREAS



Copper Armored Sisalkraft®

For concealed flashing with pure copper at 1/5th the cost of heavy copper:
COPPER ARMORED SISALKRAFT. A combination of electro-deposit copper and reinforced Sisalkraft that provides lifelong protection against moisture penetration at vulnerable points in the structure.



Moistop®

To prevent moisture migration through concrete slabs:
MOISTOP. A six-ply barrier of reinforced Sisalkraft extrusion-coated with black polyethylene film. Moistop will not rip and tear like plain polyethylene film. Applied under concrete, Moistop helps keep floors dry.



Pyro-Kure®

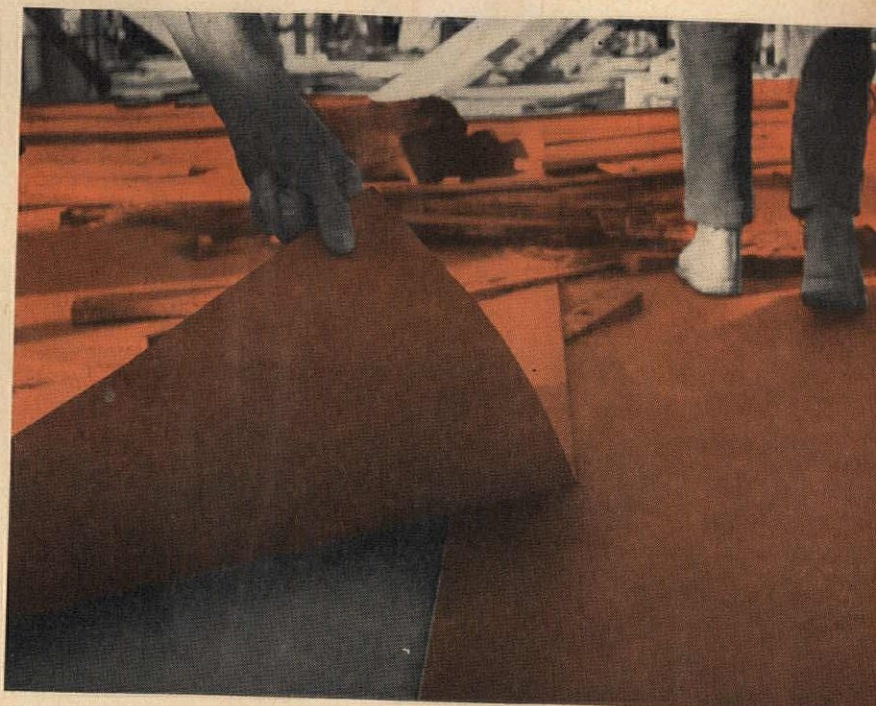
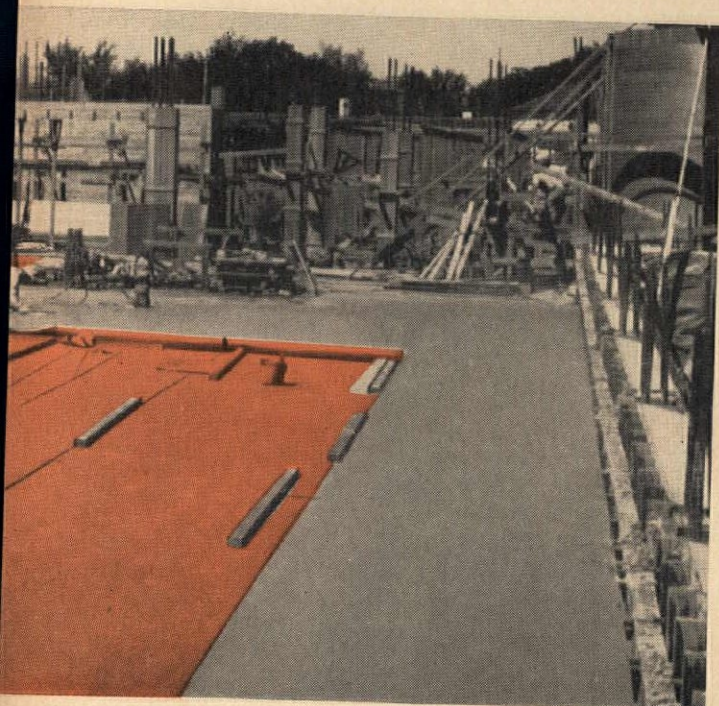
Permanent, noncombustible vapor barriers for pipe jacketing, air conditioning duct insulation and industrial insulation facing:
PYRO-KURE®. A line of flame-resistant, reinforced laminations with a U/L flame spread rating of "25 or less." Complies with National Building Code standard



Pyro-Kure® 600

Flame resistant, abrasion resistant vapor barrier for Class I roofs:
PYRO KURE 600. More than twice the moisture resistance of vinyl film. Will not burn when hit with hot asphalt. Approved by Factory Mutual for use with asphalt and Fiberglas® insulation on metal decks.

IT PRODUCES A BETTER CURE, PROTECTS SLAB AGAINST STAIN AND DAMAGE



Sisalkraft Reinforced Paper is 5-ply strong, so it protects the surface against abrasion and soiling from traffic and debris, and reduces clean-up costs. Sisalkraft is also waterproof, prolonging the hydration process to produce a denser, more uniformly cured slab.

This assures you, and your client, that the concrete will be clean and smooth with maximum strength and durability. Curing is "automatic" because a glance at the curing paper in place quickly tells you that the curing process is going on. And, for curing in cold weather, reinforced curing paper is especially important because it helps protect against frost damage.

Make sure of Sisalkraft Curing by using this specification: "As soon as the concrete has set sufficiently hard to permit application without marring the surface, a Sisalkraft curing paper, as manufactured by the Sisalkraft Division of St. Regis Paper Company, shall be unrolled over the slab. Laps of no less than 4" shall be sealed with mastic or pressure-sensitive tape. The curing paper shall be maintained in place for the duration of the curing period or until removal is directed by the architect."

Send for Samples and Information: Bulletin on "Curing and Protection for Better Concrete," plus samples of various grades will help you specify for maximum curing efficiency. Write today: Sisalkraft, 56 Starkey Avenue, Attleboro, Massachusetts.

ST REGIS
SISALKRAFT DIVISION

On Readers' Service Card, circle No. 336

steelcraft metal door/frame idea no. **16** in a series

Here it is...

ALL THE FACTS on

FIRE DOORS and FRAMES

IN ONE MANUAL

NOW! For the first time...

One concise 38-page Technical Reference Manual that provides you with the industry's most complete and authoritative source of ready information on Hollow Metal Fire Doors and Frames! It contains a handy fire door selection guide; explains the difference in the various label services; the tests and procedures required to obtain a fire label; the Do's and Don't's on fire doors and a wealth of other helpful facts designed to make your job of specifying fire doors, quick, sure and simple.

Write today for the name of your local technically-trained Steelcraft distributor, who has a copy waiting for you.



© Steelcraft
1965

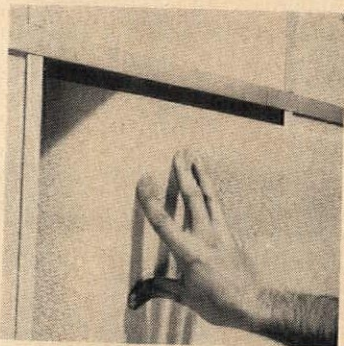
The Steelcraft Manufacturing Company, 9017 Blue Ash Rd., Cincinnati, Ohio 45242, U. S. A.
In Canada - Malton, Ontario

On Readers' Service Card, circle No. 425

NEW PRODUCTS

Acoustics

The Sand-Plastered Look



"Lo-Tone Sandex" acoustical mineral board for exposed grid ceilings simulates sand plaster. Granular surface conceals minute perforations that absorb sound. It is made in panels that are 24" x 28" in size and 5/8" thick. Wood Conversion Co., First National Bank Bldg., St. Paul, Minn.

On Readers' Service Card, Circle 100

Air/Temperature

Radiant Ceiling Heat



"Ceil-Strip" secures radiant-heating cables to ceiling without using nails or screws. Strips are cemented to ceiling at opposite ends of a room, and a continuous heating cable is laced between the strips. Manufacturer claims Ceil-Strip halves cost of installing radiant ceiling cables. Extrud-O-Matic, Inc., 316 Meyer Rd., Bensenville, Illinois.

On Readers' Service Card, Circle 101

Construction

3-D Plastic Panel

"Flair," a patterned acrylic plastic sheet available in 17 transparent colors or colorless, features a hammered texture

on both surfaces. Flair is available in 48" x 72" and 48" x 96" sheets and 1/8", 3/16", and 1/4" thicknesses. This pattern can be used to produce three-dimensional stained-glass effects in panels, lighting, and domes. Rohm & Haas Co., Independence Mall West, Philadelphia, Pa.

On Readers' Service Card, Circle 102

Nonshrink Concrete

"ChemComp" expansive cement compensates for the normal drying shrinkage of portland cement. Concrete mixed with ChemComp expands by the same volume that normal concrete shrinks, then, after four to six days, shrinks to its original volume. The expansion puts a compressive force into the concrete so that subsequent shrinkage does not cause tension that normally produces drying shrinkage cracks. Manufacturer recommends using ChemComp concrete in exposed areas such as pavements, water tanks, and parking decks. Chemically Prestressed Concrete Corp., 14656 Oxnard St., Van Nuys, Calif.

On Readers' Service Card, Circle 103

Plastic-Surfaced Wood

"Plyglaze" is a plastic-surfaced solid core panel material. Wood grains and designs are achieved through precise rotogravure printing of pigmented alpha cellulose papers. These papers are completely saturated with resin and permanently fused under extreme heat and pressure to one of four core materials: hardboard-faced plywood; flakeboard; hardboard-faced flakeboard; or hardboard. Plyglaze is resistant to scratches, dents, abrasion, burns, stains, acids, alcohol, chemicals and detergents. Plyglaze can be used for furniture, panels, or partitions. St. Regis Paper Co., Forest Products Div., 1019 Pacific Ave., Tacoma, Wash.

On Readers' Service Card, Circle 104

Doors/Windows

Invisible Door Closer

"In-A-Rale" door closer is completely concealed within Amarlite's aluminum doors.

Readers' Service Card Now Located Between Pages 104 and 105



Features include adjustable hydraulic back-check; adjustable sweep speed and latching speed; fully concealed slide-type arm with hold-open (arm for 180° opening is optional). Concealed extruded slide serves as a shock-absorbing cushion as well as a hold-open device. Anaconda Aluminum Co., Amarlite Div., P.O. Box 1719, Atlanta, Ga.

On Readers' Service Card, Circle 105

Snap-In Window Frame



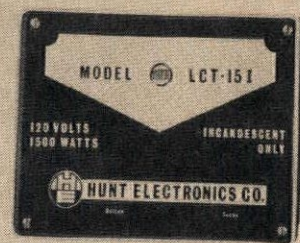
Aluminum louver system, employed in almost all ventilation and sun-control applications, uses snap-in method for assembly and for bracing blades. Stationary louver system includes blades in a wide range of sizes and types spanning up to 72" without intervening mullions. System is said to cost from 25 to 40 per cent less than pre-assembled systems of comparable quality that use conventional screw, rivet, or welding for assembly. Blades slide within jamb sections before installation of head and are engaged by notches in the jambs by tapping the blade with a rubber mallet. After all blades are inserted, the head member is

fitted in position and secured by corner blocks. Frames use interlocking mullions for joining louvers in series. Variety of finishes for aluminum are available. Construction Components, Inc., 2408 Forney St., Los Angeles, Calif.

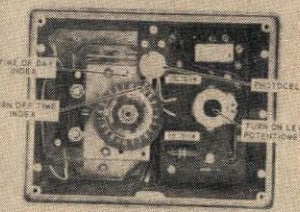
On Readers' Service Card, Circle 106

Electrical Equipment

Outdoor Light Control



UNIT WITH COVER IN PLACE



UNIT WITH COVER REMOVED

Outdoor lights can be automatically intensified as darkness increases, or dimmed as sunlight increases, by means of a photo-cell-activated, light-control process. Unit contains an internal adjustable 11-hr timer (6:00 P.M. to 5:00 A.M.). "LCT-15-I" unit, which has no moving parts, measures only 6"x4 1/2"x2 1/4". Light control features "Silicon Symmetrical Switch," a solid state device that is unaffected by line transients or peak inverse voltages. It eliminates need for relays or relay contacts. Unit can be installed in temperature range between -45 F to +131 F. Hunt Electronics Co., 2617 Andjon Drive, Dallas, Tex.

On Readers' Service Card, Circle 107

High Output Color

"Super-Hi Output" mercury lamp provides white light of favorable color rendition without the use of a phosphor coating, which must be used

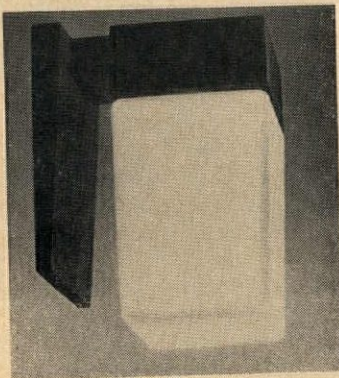
in standard color-corrected mercury lamps to eliminate green tones. Lamp provides 75 to 80 lpw, which is an improvement, says the maker, of 43 to 50 per cent over ordinary color-corrected mercury lamps. Westinghouse Electric Corp., Lamp Div., Bloomfield, N.J. On Readers' Service Card, Circle 108

Sol's Bright Light



"Solinar," a 200-w sodium vapor luminaire, is rated at 135 lpw. Fixtures can be installed on street standards or on walls of buildings. The 3'-long lamps are mounted in aluminum fittings coated with epoxy resin. Heat resistant 3/16"-thick acrylic plastic enclosure seals the luminaire against insects, moisture, and dust. Acme Floodlite Co., 12 Ave. at South 19 St., Newark, N.J. On Readers' Service Card, Circle 109

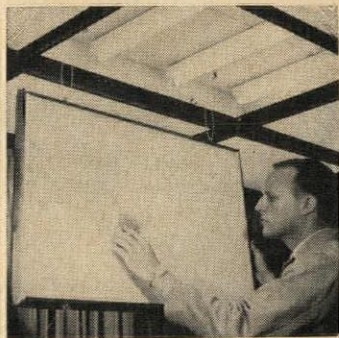
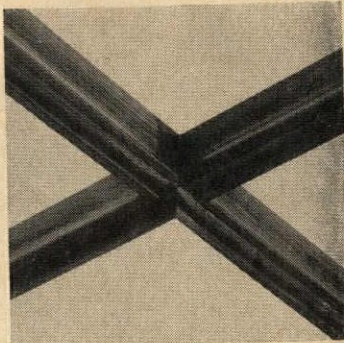
Wet Lighting



Complete line of lighting fixtures are used in outdoor, indoor, and wet locations. Outdoor and wet-location lights are made of corrosion-resistant cast aluminum, enclosed and gasketed for vapor-tight performance. Available in

triple-ground satin aluminum or satin black anodized finish. Some 32 models are available in ceiling units and wall brackets (single and double units, 100-w and 200-w). McPhilben Mfg. Co., 1329 Willoughby Ave., Brooklyn, N.Y. On Readers' Service Card, Circle 110

Walnut Grid Lighting System



Hand-rubbed solid walnut grid system and opal white acrylic diffusers compose lighted ceiling system called "Heritage." Sculptor William Adair Lyon, who created the design, has concealed the T-bars from view. Module sizes are 1' x 2', 2' x 2', 2' x 3'. Flat, rigid, and 100 per cent Plexiglas sheets can be wiped clean without removing the frame from the ceiling. "Torsion-Ease Hinge" permits easy access for cleaning and lamp replacement. Integrated Ceilings, Inc., 11766 West Pico Blvd., Los Angeles, Calif. On Readers' Service Card, Circle 111

Sound-Deadening Panel

"Noise-Guard" is a sound-deadening, 3/8" thick by 16" wide panel used under gypsum wall board. It produces a resiliency that absorbs and dissipates sound vibration. Panel consists of interconnecting cells of expanded polystyrene with black kraft paper laminated to both sides. It can also



be applied under gypsum board ceilings or as a floor underlay. It is available in 8' sheets or 100' rolls. W. R. Grace & Co., Zonolite Div., 135 S. LaSalle St., Chicago, Ill. On Readers' Service Card, Circle 112

Natural Daylight Fluorescent Tubes

Fluorescent lamp matches the color spectrum distribution of natural outdoor light, permitting accurate color perception. "Duro-Test Optima" fluorescent tube eliminates need for shopper to take objects to store window or door to evaluate color and texture of merchandise. It can be used in art galleries, showrooms, stores, etc. Tubes are available in 18"/15 w, 24"/20 w, 48"/40 w, and 96"/74 w. Duro-Test Corp., North Bergen, N.J. On Readers' Service Card, Circle 113

Outdoor Lighting



Four post-top fixtures for exterior area lighting, called "Landmarker Luminaires," are available in 100 through 500 incandescent sizes and 100 through 400 w mercury vapor. Open space is provided between lamp housing and ballast, which is concealed inside pole mounting cap. Open space directs light downward as well as outward, permits re-

lamping without taking fixture apart, and leaves no place for insects to get trapped. Standard 12" diameter open-bottom glassware is self-cleaning. Fixtures, 32" high, may be mounted on 10' poles. Housings are of cast and extruded aluminum and all hardware is noncorrosive. Luminaires are available in eight colors. American Electric Manufacturing Co., Southaven, Miss. On Readers' Service Card, Circle 114

Finishes/Protectors

Primer Plywood Panel



Panel, called "Primed Plyaloy," features a coat of light gray, acrylic latex paint "baked-on" to the overlay and applied to the surface of the panel at the factory. According to the manufacturer, this primer coat prevents plywood panel seal from breaking. Thus panels do not have to be retouched or painted. Primed Plyaloy is available on either one or both sides of the panel in thicknesses ranging from 5/16" to 3/4". Sizes range from 4' x 8', 4' x 9', and 4' x 10'. Other thicknesses and panel sizes are available on request. St. Regis Paper Co., Forest Products Div., Tacoma, Wash. On Readers' Service Card, Circle 115

Stone-Colored Sealant

Stone-colored, one-part polysulfide joint sealer cures chemically to form a solid, rubbery seal when exposed to atmosphere. "Weatherban Brand One-Part Sealer 101 Stone" can be employed for sealing stone joints, exterior and interior joints between curtain wall panels, metal framework, masonry, glass, porcelain, and wood. Sealer resists effects of ozone, oxygen, fresh and salt water, and alcohol. It can withstand continuous exposure on a building at temperatures between -40 F and +160 F without deterioration or loss of



BAYLEY WINDOWS WILL

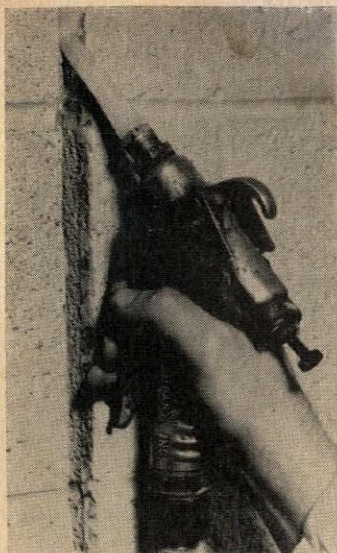
fulfill your architectural desires;
get to the job on time;
install smoothly, with factory supervision
if desired; and work and work and work
indefinitely.

With us, service is generous, personal

HELP

by experts in applying, manufacturing
and erecting fine metal windows. The
William Bayley Company, Springfield, Ohio.

On Readers' Service Card, circle No. 459



adhesion. 3M Co., Adhesives, Coatings, and Sealers Div., 2501 Hudson Rd., St. Paul, Minn.

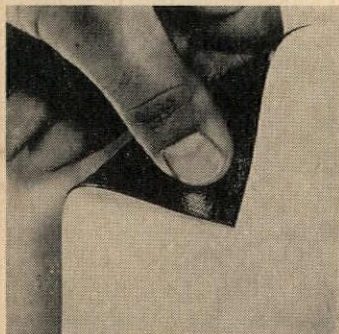
On Readers' Service Card, Circle 116

Approved Anticaking Concrete Agent

Spreading and anticaking agent, called "X-59," has been approved for use in portland cement plaster by the International Conference of Building Officials in Pasadena, California. Approval is for one year's duration, at which time studies are conducted relating its performance to recent developments in areas of application. X-59 is a fine white powder that reduces drying cracks in portland cement plaster and improves the flow characteristics of a mix so it can be pumped or spread easily. Quantity used is $\frac{3}{4}$ lbs per sack of cement. Cabot Corp., 125 High St., Boston, Mass.

On Readers' Service Card, Circle 117

Black/White Flashing



Reversible, synthetic-rubber flashing, black on one side and white on the other, has been announced. "Sure-Seal Reversible Flashing" is a durable, chemical-resistant syn-

thetic rubber that is unaffected by sunlight or temperature conditions and is resistant to all chemicals except those of petroleum origin. It is said to perform better than built-up asphalt membranes, fabrics, and fibers. Material conforms to irregular shapes and surfaces and is readily bonded without special equipment or heat. Flashing is available in a standard thickness of $\frac{1}{16}$ " and in widths of 12", 18", 24", and 36". It is recommended for expansion joints, valleys, chimneys, window head and sill, and all areas where flashing is visible. Carlisle Tire & Rubber Div., Carlisle Corp., Carlisle, Pa.

On Readers' Service Card, Circle 118

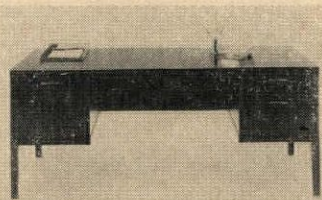
One-Part Sealant

One part terpolymer construction sealant, called "Mono-Lastic-Meric," meets Federal specs. According to the manufacturer, it eliminates hazards and high costs of job-site mixing; does not require primer or surface conditioner to attain adhesion; is nonstaining; has a high resistance to ultraviolet rays, oxygen, and moisture; will not sag in joints $\frac{1}{2}$ " x $\frac{1}{2}$ " or $\frac{3}{4}$ " wide x $\frac{1}{4}$ " deep; is available in wide range of colors, including white, black, aluminum, charcoal, and neutral stone; and offers 20 year minimum life expectancy. Tremco Mfg. Co., 10701 Shaker Blvd., Cleveland, Ohio.

On Readers' Service Card, Circle 119

Furnishings

Dignified Desks



The "Exec IV" desk series by Directional has 14 pieces, including 6 desk sizes, 3 cabinet sizes, and several combinations of desks with side units. The walnut frames are finished either with satiny oil, rubbed lacquer, cordovan tones, or bleach; desk tops are flush or overhang on four sides. Hardware can be silvery (to match a polished steel base) or bronze-colored brass (to go with a walnut base). The desk shown has a deep cordovan

leather top on walnut, with bronze-finished drawer pulls. Directional Contract Furniture Corp., 979 Third Ave., New York, N. Y. 10022.

On Readers' Service Card, Circle 120

Commodious Kitchen Cabinets



A wide range of modular sizes, including single units as narrow as 9", and combination units as wide as 96", insure that these cabinets can be fitted to the widest range of kitchens. Four different finishes (birch and walnut tones, white and gold, and natural) and several styles are available; a myriad of time-, work-, and space-saving conveniences can be installed. Long Bell Div., International Paper Co., 928 Grand Ave., Kansas City, Mo.

On Readers' Service Card, Circle 121

Simple Square Chair

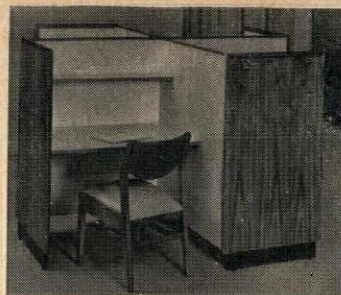


Framed in walnut, featuring covered sides, the "471 Chair" has hand-tied coil springs topped with foam rubber. The chair is available as a standard model covered in elastic vinyl, fabrics, or leathers. Stow & Davis Furniture Co., 25 Summer Ave., N.W., Grand Rapids, Mich.

On Readers' Service Card, Circle 122

Capacious Carrels

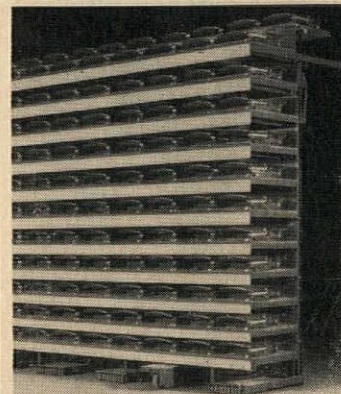
Walnut veneers, with top surfaces in plastic (either matching woods grains or simulated white Persian leather) compose



the "Declaration" library furniture made by Drexel. Among the more than 50 pieces in the group, including card catalogue cases and check-out desks, is the carrel shown. It is the 4-place model, which provides study space for four persons within a 75"-square area. The units can also be used as single- or double-study spaces. Drexel Enterprises, Inc., Drexel, N.C.

On Readers' Service Card, Circle 123

Fixed Fold-Away Chairs



"T-299 Fold-Away" seats, mounted on telescoping platforms, have spring seats with polyurethane pads and independent folding action. Backs fold forward and seats retract so that neither extends beyond the face of the riser when in stored position. Backs are upholstered over a formed polyurethane pad and have nickel chrome rigidized steel back panels with rolled edges for protection of upholstery at tops and sides. Shown is Fold-Away installation at Seattle Center Coliseum. Heywood-



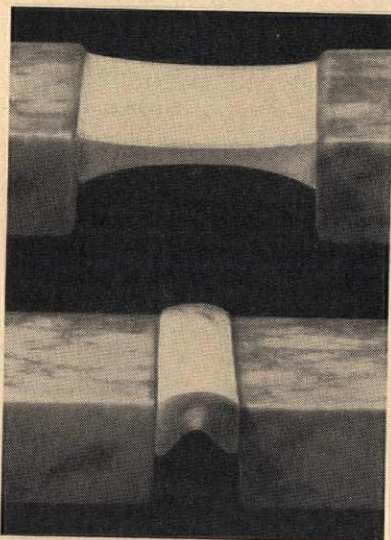
Alcoa Plaza Associates, Owner; Harrison & Abramovitz, Architects; Turner Construction Co. & HRH Construction Corp., General Contractors; General Bronze Corp., Curtain Wall Fabricator; Abbott Glass Company, Glazing Contractor.

9 tons of G-E Silicone Construction Sealant seal new UN Plaza

G-E Silicone Construction Sealant is an amazing synthetic rubber that cures in air. It's waterproof. It won't crumble, harden or peel. So it's the first really *permanent* sealing compound.

At the new United Nations Plaza apartment and office building, just across from the famous United Nations Building in New York City, nine tons of Silicone Construction Sealant were used for various sealing applications. Seven tons of Silicone Construction Sealant were used to glaze the windows. Another two tons seal the aluminum curtain walls. G-E Silicone Sealant is also used to caulk air ducts as well as miscellaneous caulking throughout the thirty-eight story twin-tower skyscraper.

G-E Silicone Construction Sealant applies quickly and smoothly from a



Joints expand and contract 10,950 times in 30 years . . . and so will G-E Silicone Construction Sealant.

standard caulking gun, forming a tight bond to glass, metal, masonry and other common building materials. No mixing either. And it can be applied easily in any weather . . . never stiffens in cold or runs because of heat. Cleanup is a cinch. So you save time while you get a good looking, permanent seal that minimizes callbacks.

Available in a wide range of colors, as well as a translucent form, G-E Silicone Construction Sealant blends in well with almost any material. It's stocked by local distributors and in many building supply stores. For complete information, including a new bulletin on guide specifications for Silicone Construction Sealant, check the distributor nearest you, or write to Section Q10160R Silicone Products Dept., General Electric Company, Waterford, New York.

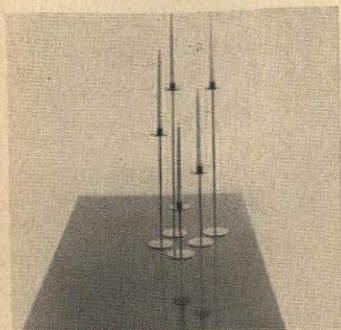
GENERAL  ELECTRIC

On Readers' Service Card, circle No. 486

Wakefield Co., 206 Central,
Garner, Mass.

On Readers' Service Card, Circle 124

Candlestick Cluster



Handsome and inexpensive candlesticks come in heights of 8", 12", and 14". Designed by Darrell Landrum in chrome finish for Avard Inc., 353 E. 62 St., New York, N.Y.

On Readers' Service Card, Circle 125

"Lytegem"



Latest diminutive, high-intensity lamp: sphere that revolves 360° (3" diameter; 2" aperture) is attached to cube base (2½" sq.) via telescoping arm of polished chrome, which allows height flexibility of 6" to 14¾". May be ordered in one of seven finishes. Designed by Michael Lax for Lightolier, 346 Claremont Ave., Jersey City, N.J.

On Readers' Service Card, Circle 126

Multi-Cube

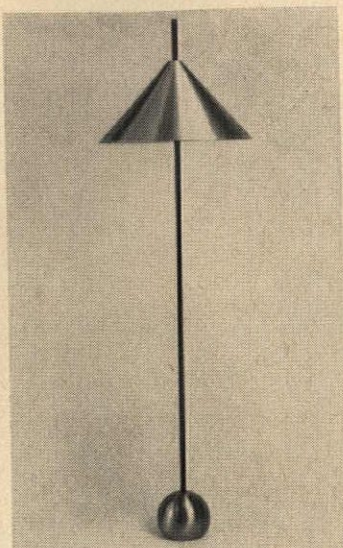


Storage cube is designed to be used in clusters to make up "room dividers," bars, consoles, and cabinets—both

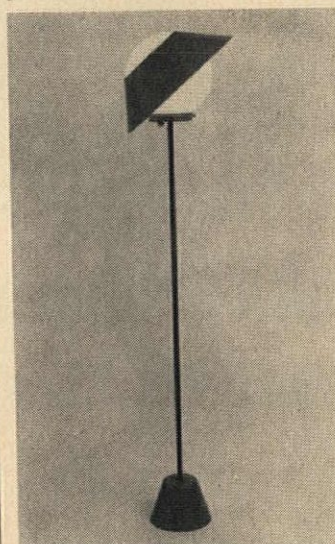
standing and wall hung. Dimensions: 24" high x 15" wide x 24" deep. Designed by Jerry Joseph for Toujay Designs Inc., 363 E. 76 St., New York, N.Y.

On Readers' Service Card, Circle 127

Small's Slim Coolies



1



2

Looking somewhat like coolies standing frozen at attention are two standard lamps in a collection designed by Neal Small. Shades adjustable for reading are available in 10 colors. Stems and finials for both lamps also are colored. The shade and base (1) are polished or satin brass, chrome, or in color. The 8"-diameter glass ball in (2) is of Swedish glass. Koch & Lowy, Inc., 201 E. 34 St., New York, N.Y.

On Readers' Service Card, Circle 128

Woven Wall-Covering

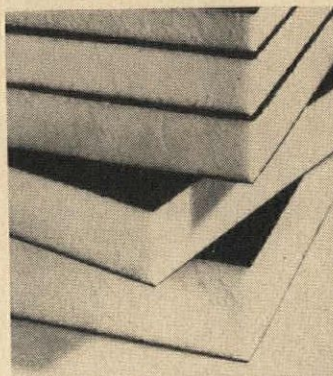
A wall-covering called "Fabricraft" has been developed that resembles grass cloth.

Heavy paper fibers, colored and/or neutral, are combined in a simple weave and laminated to a standard No. 2 backing; the surface is coated with transparent, nongloss vinyl. Of the four basic patterns, "Chalkstripe", a weave of almost three-dimensional design, is the most interesting. Brochure with 26 sample cuts, installation instructions, and specifications is available from Delttox, Inc., Oshkosh, Wisc.

On Readers' Service Card, Circle 129

Insulation

Urethane Foam Insulation



"Lexfoam" is a recently developed urethane roof insulation. Rigid urethane foam is chemically bonded to supersaturated asphalt felt skins to provide an integral, dimensionally stable insulation board. Lexfoam is water and rot resistant and does not shred, delaminate, or crumble. Nonporous surface resists absorption of bitumen and assures a good bond between built-up roof and insulation. Standard-board size is 3' x 4', with thicknesses ranging from ¾" to 2". Lexsuco Inc., P.O. Box 9530, Solon, Ohio.

On Readers' Service Card, Circle 130

Breathing Insulation

Aluminum-clad exterior insulative board, called "Ribclad," is faced on both sides with aluminum breather-type foil that reflects up to 95 per cent of radiant heat. It can be supplemented with other insulation in cold climates or air-conditioned buildings. Breather-type foil surface prevents trapping water vapor. Available in 8'- or 9'-long by 4'-wide panels. Window and door openings can be cut out after the panel has been applied to walls. Aluminum Company of Amer-



ica, 684 Alcoa Building, Pittsburgh, Pa.

On Readers' Service Card, Circle 131

Sanitation/Plumbing

Convenient Tub



"Restal" tub is made of enameled cast iron and is 38" x 39" x 12" in size. It features maximum bathing area, easy manipulation of the fittings from the seat which is out of the shower spray area, longer well that permits user to stand back from the shower while soaping, widened front rim (1½") to accommodate rigid shower enclosure tracks, and low 12" sides that reduce normal stepping height. American Radiator & Standard Sanitary Corp., 40 West 40 St., New York, N.Y.

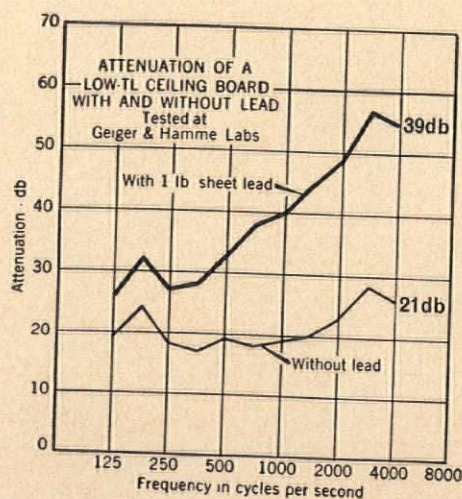
On Readers' Service Card, Circle 132

Special Equipment

Floating Floor

Free-floating resilient floor system for gymnasiums, ballrooms, and multipurpose rooms can be installed on a concrete slab or over any firm level surface. Cushioning, called "Perma Cushion," is provided by air-channeled resilient pads attached to the underside of the sleepers. Sleepers do not contact the slab, permitting cross-ventilation under the entire floor system and assuring a dry, warm subfloor. According to manu-

“Aw, shut up!”



The roar of the machine shop across the hall . . . the irritating clatter of the typewriter next door . . . the growl of the nearby air conditioning machinery . . . all foreign sounds invading your privacy.

Today, these conditions need not be tolerated. Thin-sheet lead used as a plenum or over-ceiling barrier effectively cuts outside noise to a murmur. Tests have confirmed that sound attenuation has been improved 18 db (see chart) through the use of thin-sheet lead barriers between hung ceiling and slab.

And thin-sheet lead is economical too. It cuts easily, simplifying installation around lighting fixtures, sprinkler heads, piping and conduits. For more information write for our "Practical Lead Sound Barriers" brochure. Lead Industries Association, Inc., Dept. N-10, 292 Madison Avenue, New York, New York 10017.



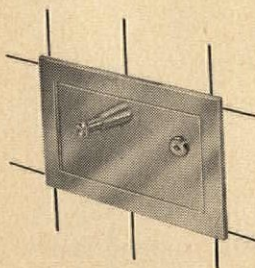
LEAD INDUSTRIES ASSOCIATION, INC.
Look Ahead with Lead

On Readers' Service Card, circle No. 379

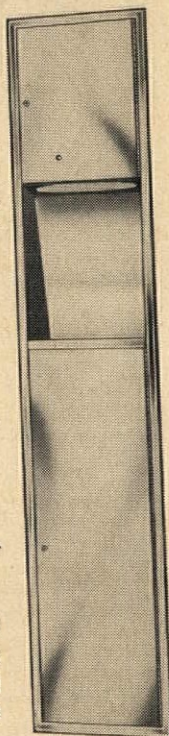
in washroom design
where quality
and
reliability
are a must
specify
AMERICAN
recessed units

**MODEL 5 STAINLESS STEEL
TOWEL DISPENSER AND
WASTE RECEPTACLE**

Attractive sleek design for modern washrooms. Cabinet has beveled edges for proper wall fit.



**No. R2 LATHURN
RECESSED SOAP DISPENSER**
Quality-built of Stainless Steel. Lather and liquid types. Sturdy one-piece construction.



- Quality constructed, rigidly inspected to provide trouble-free operation
- Backed by over a third of a century of manufacturing know-how

Technical Sales Representatives
located throughout the U.S.A.

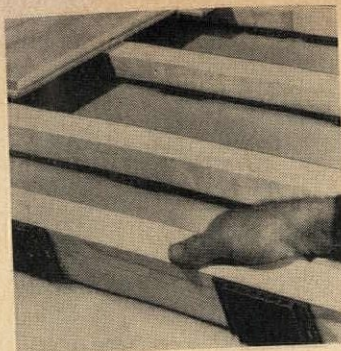
Write today for our new Architect-
Engineer Manual fully describing
**AMERICAN SOAP DISPENSING EQUIPMENT
AND ALLIED WASHROOM ACCESSORIES**



**AMERICAN
DISPENSER CO., INC.**

860 BROADWAY, NEW YORK, N. Y. 10003

On Readers' Service Card, circle No. 327



facturer, pads are guaranteed not to absorb moisture from the air or transmit moisture from the slab to the sleepers and flooring through capillary action. Robbins Flooring Co., White Lake, Wis.

On Readers' Service Card, Circle 133

Hot Stuff

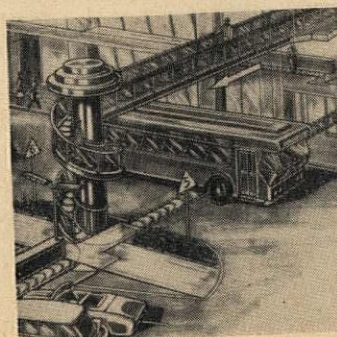


"Litton 500" microwave oven operates on 110 v, but delivers the power and speed formerly available only with equipment operated on 220-v circuits, according to manufacturer. Smaller and more powerful air-cooled magnetron tube permits a considerable reduction in the cavity size (12" deep, 12" wide, and 6" high). "500" is available in stainless steel or a variety of baked enamel colors. Over-all size: 21 5/8" x 21 1/2" x 14 7/8". Litton Industries, 850 Third Ave., New York, N. Y.

On Readers' Service Card, Circle 134

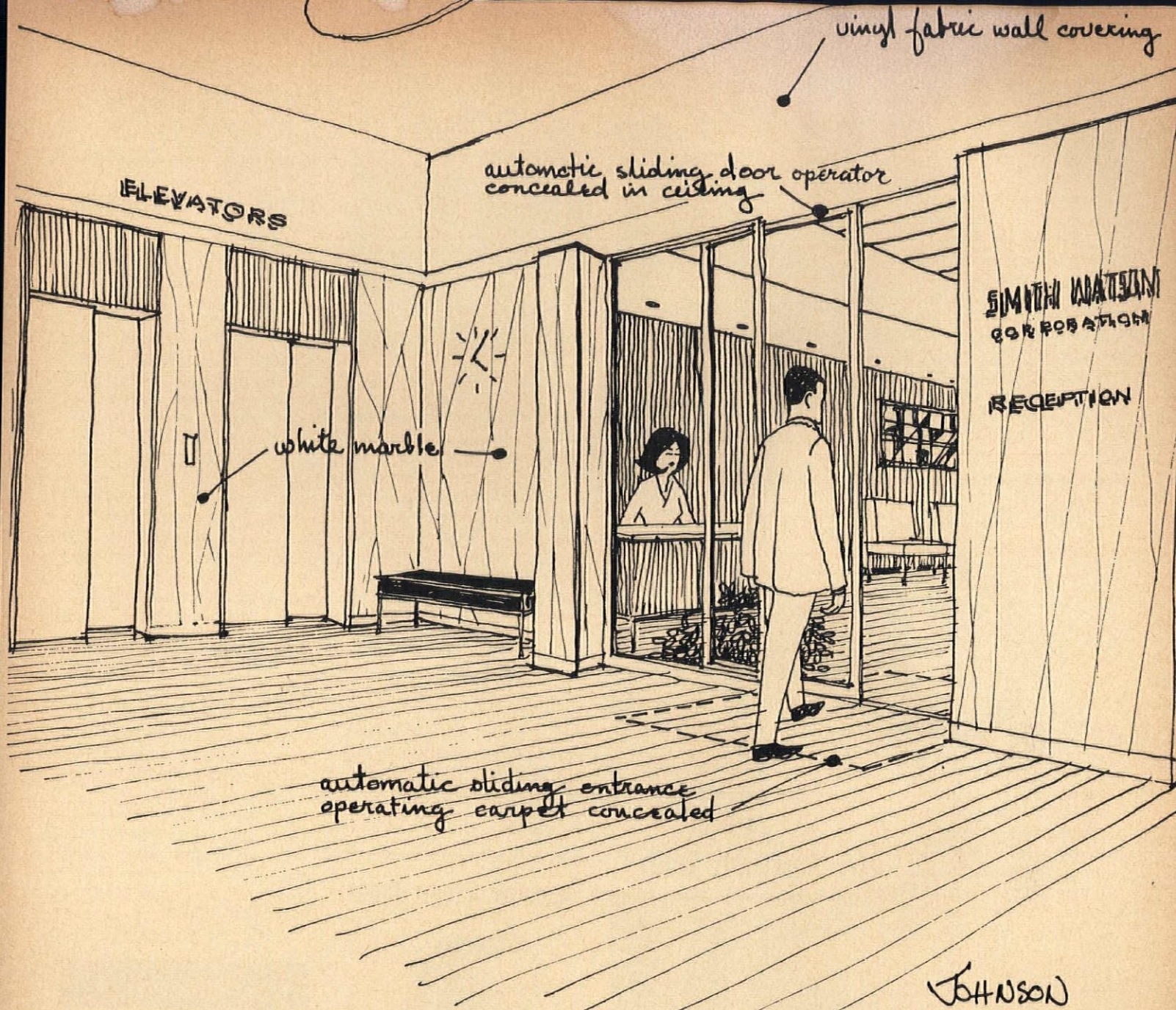
Moving Treads

"TransiTread" conveyor system moves people or materials



Contact your nearest Magic-Door Distributor

- | | |
|---|---|
| ARIZONA
Phoenix
Stanley Building Products, Inc.
4834 North 16th Street
602, 279-0324
CALIFORNIA
Los Angeles
Hay Agency
4324 W. Jefferson Blvd.
213, 731-0871
Sacramento
Fontaine Door Co.
200 27th St.
916, 442-1842
San Mateo
Stanley Door Operating
Equipment
4007 Pacific Blvd.
415, 349-2501
COLORADO
Denver
Builders Service Bureau
1221 Bannock St.
303, TA 5-5244
CONNECTICUT
Hartford (exchange)
The Stanley Sales Company
95 Hampton Avenue
Needham Heights, Mass.
203, CH 9-6226
FLORIDA
Miami
Chuck Taylor, Inc.
270 N.E. 183rd St.
305, 624-2688
Orlando
William A. Slater Co.
723 Brookhaven Drive
305, 423-3680
GEORGIA
Doraville
Hatcher Sales Company
3596 Oakcliff Road
404, 451-6211
HAWAII
Honolulu
Theo. H. Davies Co., Ltd.
P. O. Box 3020
ILLINOIS
Franklin Park
Jed Products Company
10151 W. Pacific Ave.
312, 678-3131
Rock Island
Jed Products Company
312 20th Street
309, 786-4576
INDIANA
Indianapolis
Jed Products Company
3529 N. Hovey
317, WA 4-2646
IOWA
Des Moines
The Roland Company
2920 S.W. 9th St.
515, AT 3-0409
KANSAS
Kansas City, Mo.
Edelman-Lyon Company
325 W. 80th Street
816, EM 3-2460
LOUISIANA
New Orleans
A. Wylie McDougall
Company, Inc.
909 So. White St.
504, 822-4100
MARYLAND
Baltimore
G. W. Blanchard Co., Inc.
857 Park Ave.
301, SA 7-0511
MASSACHUSETTS
Needham Heights
The Stanley Sales Company
95 Hampton Avenue
617, 444-7768
MICHIGAN
Grand Rapids
Jed Products Company
3015 Madison, S.E.
616, 243-9163
Royal Oak
Jed Products Company
31270 Stephenson Hwy.
313, JO 6-7922
MINNESOTA
Minneapolis
Pella Products
929 Washington, South
612, FE 5-4134
MISSOURI
Bridgeton
Thos. J. Finan Co., Inc.
12409 St. Chas. Rock Rd.
314, 739-0130
MONTANA
Great Falls
The House of Glass
811 First Ave., N.
406, 445-1371
NEBRASKA
Omaha
The Roland Co.
1911 1/2 Military St.
402, 556-8820
NEW MEXICO
Albuquerque
Welch-Erwin Corp.
4019-C Edith Blvd., N.E.
505, 344-3547 | NEW YORK
Buffalo
A. O. Stillwell Co.
85 Great Arrow Ave.
716, 877-4300
Rochester
The Maurer Co.
31 Richmond St.
716, 454-4990
Syracuse
B. R. Johnson & Son, Inc.
5900 South Salina St.
315, HO 9-3244
Woodside, L.I.
Joseph Shaw
61-10 34th Ave.
212, 651-6363
OHIO
Cincinnati
Jed Products Company
4452 Sycamore Road
513, SY 1-3273
Cleveland
Jed Products Company
8616 Garfield Blvd.
216, DI 1-1146
Columbus
Jed Products Company
865 King Ave.
614, 291-4267
OKLAHOMA
Oklahoma City
Murray R. Womble Co.
121 N.E. 26th St.
405, JA 5-7417
Tulsa
Murray R. Womble Co.
216 East 16th St.
918, LU 4-2414
OREGON
Portland
Bohm Automatic Door, Inc.
4075 N. Interstate
503, 282-4547
PENNSYLVANIA
Blawnox
Jed Products Company
313 Freeport Road
412, ST 1-3666
Harrisburg
Hershe's, Inc.
1513 N. Cameron St.
717, CE 8-7331
King of Prussia
The Sellers Company
396 E. Church Road
215, CH 8-1806
TENNESSEE
Memphis
Mauzy and Company
357 Cumberland Ave.
901, GL 2-7301
Nashville
John W. McDougall Co.
41st & Indiana Avenues
615, 297-3595
TEXAS
Dallas
Automatic Door Control Co.
117 1/2 109th St.
Grand Prairie
214, AM 2-1474
Houston
Shallon Greer Co., Inc.
3055 Maxey Street
713, 864-4487
Lubbock
Door Automation
Sales & Service
308 East 34th St.
806, SH 4-7584
San Antonio
Samuels Glass Company
221 Newell Ave.
512, 227-2481
UTAH
Salt Lake City
Building Specialties Co., Inc.
1340 South First West
801, 484-7882
VIRGINIA
Richmond
Tronco Sales Corp.
2515 Grenoble Road
703, 282-6936
WASHINGTON
Seattle
Automatic Doorways
1718 Broadway
206, EA 4-5288
Spokane
The Carswell Co.
South 123 Wall Street
509, RI 7-1575
WISCONSIN
Milwaukee
Jed Products Company
11605 W. Bluemond
414, SP 4-1350
DIST. OF COLUMBIA
Washington
G. W. Blanchard Co., Inc.
6210 Chillum Place, N.W.
202, TU 2-6210
CANADA
Toronto, Ontario
Pilkington Bros. Ltd.
55 Eglinton St. E.
416, HU 7-2471
No. Vancouver, B. C.
Nor-Wes Contract Hard.
1075 Marine Drive
604, 988-5221 |
|---|---|



**Stanley automatic
sliding entrance...
a new concept that
combines functional
efficiency and
design excellence**

Stanley Automatic Sliding Entrances save floor space, offer modern, clean-line appearance and efficient two-way traffic flow through a single entranceway.

Model 1000 — AUTO-SLIDE automatic sliding entrance. Complete with doors that swing open for emergency use. Entrance meets all exit code requirements. Completely safe. Saves space. Write for Folder No. M73.

Model 5000 — SLIMLINE automatic sliding entrance. Lighter, more compact. Especially suitable for small shops and lower traffic applications. Priced within virtually any client's budget. Write for Folder No. M74.

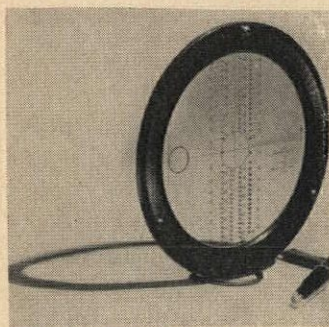
And a complete line of famous MAGIC-DOOR® operators (pneumatic, hydraulic, electric), controls and accessories for doors that swing, slide or fold. Write for Folder No. M67-COM, or look us up in Sweet's. STANLEY DOOR OPERATING EQUIPMENT DIVISION of The Stanley Works, New Britain, Connecticut.

THE
STANLEY
WORKS®

CONSULT YOUR NEAREST MAGIC-DOOR
DISTRIBUTOR LISTED AT LEFT

on precision treads coupled together into a moving platform that moves horizontally, up or down, or in a spiral. The treads can turn through a right angle or make abrupt reversals. A modular design and simple drum type drive reduces initial costs of installation and maintenance, says the manufacturer. TransiTread can be installed 4" above the surface of existing paths. On new installations, it can be fitted flush with any surface. If equipped with heating elements, the system can be used outdoors in snow and ice. Stearns Mfg. Co., Inc., Flat Rock, Mich.
On Readers' Service Card, Circle 135

Digital Compass



"Eason D-500" digital compass gives quick, accurate drawing of circle from 1" to 5" and in increments of 1/32", 1/16", 1/8", and 1/4". According to manufacturer, compass saves time in drawing tangent arcs and locating adjacent coordinates. It is easier to use than conventional bow compass. Precision-tapered holes in the ball-bearing-supported calibrated disc accepts the conventional drafting pencils, colored pencils, or pens. Compass is priced at \$11.95. Scintinel Products Co., P.O. Box 580, Bellaire, Tex.

On Readers' Service Card, Circle 136

Hospital Fountain

Drinking fountain has been specially designed for use in both hospitals and convalescent homes. "Model 7WC" stainless-steel fountain mounts on the wall at a height that permits wheelchair patients plenty of knee room beneath the receptor. Longer stainless steel extension from the wall to the bubbler allows the patient to approach the fountain from any side. Moving parts can be removed for adjustments and repairs without detaching the fixture from



the wall. Haws Drinking Faucet Co., 4th and Page Sts., Berkeley, Calif.

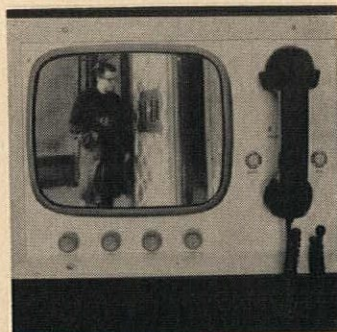
On Readers' Service Card, Circle 137

Colored Writing

Fine-line nylon tip pens write on any surface including glass and plastic. "Glory Pens" are capable, according to the manufacturer, of writing more than 50,000". Ink is nontoxic, washable, and does not penetrate through paper. Colors include red, blue, green, yellow, brown, and black. Set of six is available for \$2.95. Reed Products Co., 4438 N. 20 St., St. Louis, Mo.

On Readers' Service Card, Circle 138

24-Hour Apartment Sentry



"TV Sentry" closed-circuit television security system consists of a console for each apartment featuring an 11" screen, a telephone handset, a front/rear selector switch, and a door-opener button. Occupants can view caller for two minutes after he presses buzzer to that apartment. Tenants can ignore caller or conduct conversation with handset. Even when there are no callers, tenants can activate the monitor at any time and observe the front or rear entrances by pressing button on the console. Orth-O-Vision, Inc., 18-10 26 Road, Long Island City, N.Y.
On Readers' Service Card, Circle 139

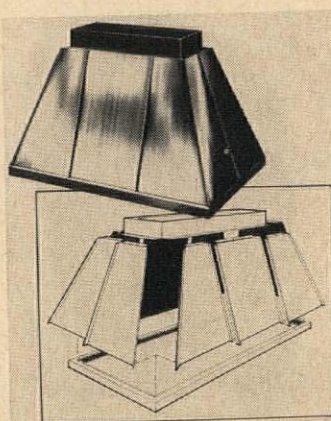
Plastic Toilet Partitions



Flush laminated plastic toilet partitions include four types: floor-mounted, overhead-braced; floor-mounted; ceiling-hung; and a special high-performance, floor-mounted, overhead-braced unit developed for installations where rougher than normal wear is common. It features use of "vandal-proof" through-bolting in the application of all hardware. Components for all partitions include laminate-clad partition panels, door panels, overhead braces and pilasters, and tamperproof, chrome-plated steel hardware. Cores for panels and doors consist of "Supercore" flakeboard or an approved five-ply plywood. Formica Corp., 4614 Spring Grove Ave., Cincinnati, Ohio.

On Readers' Service Card, Circle 140

Modular Range Hoods



Range hoods consist of modular panels in three types of basic stock panel sizes, which can be assembled to any length, width, or design configuration. Module panels meet custom requirements for standard, island, corner, peninsula, or built-in models. Flanged frames are secured to both top and bottom of the modules. Hoods are available in antique copper, patterned copper, hammered copper, patterned pewter, antique

brass, and stainless steel. Monk Mfg. Co., Industrial Rd., Addison, Ill.

On Readers' Service Card, Circle 141

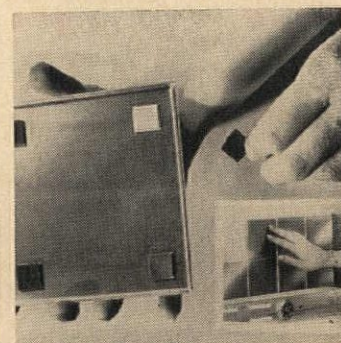
School Intercom System

Recently developed school communications system, called "SST5000," enables school administrators to speak with each other or with any classroom directly, without making use of an operator. Compact desktop intercom station is located in the administrator's office. Main console, which can be located anywhere in the school, houses system's sound and intercom amplifiers, radio tuner, record player, tape recorder, and related equipment. Administrator can originate two-way intercom calls to classrooms and offices; receive calls from classroom and offices and transfer classroom calls to other offices or classrooms; make emergency announcement to entire school by pressing "Emergency" button; make announcements or give talks to entire school or to selected groups of classrooms; conduct conferences with administrative personnel or classrooms and receive and monitor sound programs and signals going out from the central console. Executone, Inc., Long Island City, N. Y.

On Readers' Service Card, Circle 142

Surfacing

Stickum Up, Tile!



"Quick Stick" metal wall tiles eliminate need for mastics. Quick Stick is a double-faced tape with a release paper on both sides. Tape adheres on all clean dry surfaces and has good tack properties. Vikon Tile Corp., 130 N. Taylor St., Washington, N. J.

On Readers' Service Card, Circle 143

Acoustics

Sound Control

"Sound Advice" describes advanced structural systems designed to meet increasing noise-control problems in residential, commercial, and institutional buildings. Booklet covers wood, steel, and gypsum stud construction plus double and triple solid partitions. Booklet includes cut-away drawings, detailed material lists, sound and fire test ratings, and data on isolating and controlling sound. It also lists types of wall construction to meet various decibel levels and sound-control goals. Includes glossary of terms. 20 pages. Georgia-Pacific Corp., P.O. Box 311, Portland, Ore. 97207.

On Readers' Service Card, Circle 200

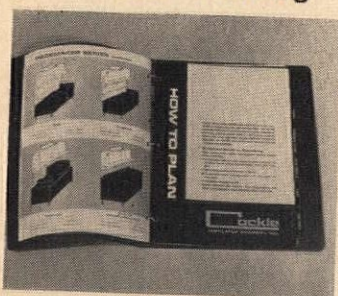
Air/Temperature

Air Moving Product Ratings

Air Moving and Conditioning Association's directory lists products licensed to bear the AMCA certified rating seal. Products include centrifugal fans, propeller fans, axial fans, power roof ventilators, and unit heaters. All products are listed according to category and manufacturer. Air Moving and Conditioning Assn., Inc., 205 West Touhy Ave., Park Ridge, Ill. 60068.

On Readers' Service Card, Circle 201

Ventilator Planning



Planning guide describes wash and fire extinguishing systems, blowers, and custom-designed ventilators. Specifications, air-volume tables, and isometric drawings of wide range of equipment are given. 16 pages. Cockle Ventilator Co., 1200 S. Willis Ave., Wheeling, Ill. 60090.

On Readers' Service Card, Circle 202

Collecting Dust

Guide shows methods of selecting the correct dust-collecting equipment for 14 types of industry. It recommends equipment for the concentration and particle size of the dust to be collected. Products are divided into dry centrifugals, wet collections, fabric collectors, and oil mist collectors. Photos illustrate these types of dust-collectors. 16 pages. American Air Filter Co. Inc., Louisville, Ky.

On Readers' Service Card, Circle 203

Construction

Plate Glass Designs

Loose-leaf packet contains five 4-page inserts each dealing with the use of various types of "Heavy-Duty" plate glass in several well-known structures: Chicago Civic Center, National Geographic Society in Washington, D.C., Michigan Consolidated Gas Company in Detroit, Philharmonic Hall in New York, and the IBM Building in Seattle. Each insert illustrates building in color, and gives details of window frames. Packet also includes design chart for selecting thickness of polished plate or sheet glass. Libbey-Owens-Ford Glass Co., 811 Madison Ave., Toledo, Ohio.

On Readers' Service Card, Circle 204

Post-Tensioned Concrete Structures

Book describes post-tensioning techniques and materials for concrete structures. Cut-away pictures illustrate the components of stressing system and details show their application to building construction. Elementary design calculations and simplified specifications. 30 pages. Stressteel Corp., 221 Conygham Ave., Wilkes-Barre, Pa.

On Readers' Service Card, Circle 205

Copper, Brass, Bronze

"Copper, Brass and Bronze in Architecture" points up in color photos and details the economic and aesthetic advantages of these three metals. Twelve color samples of common architectural alloys and finishes are shown. The book

discusses mechanical, chemical, and applied finishes; care and cleaning of both exterior and interior finishes including "Incalac" protective coating recently introduced by the copper industry; joining of architectural alloys of copper, sheet and extrusion design criteria. Copies of this 24-page publication (No. 406/5) are available free. Apply on business letterhead to Copper Development Assn. Inc., 405 Lexington Ave., New York, N.Y.

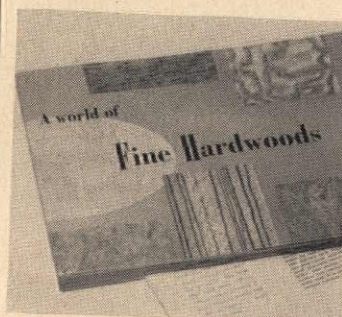
I Think It Just Moved



Modular wall system, called "School-Wall," primarily used in schools. Leaflet gives details and specifications for hollow partitions with cork or chalkboard surfaces laminated to gypsum boards. Over-all thickness of School-Wall is 2 1/4" with a 1" cavity. Available in 4' modules in heights up to 10'. 4 pages. Gotham Educations Equipment Co. Inc., 91 Weyman Ave., New Rochelle, N.Y.

On Readers' Service Card, Circle 206

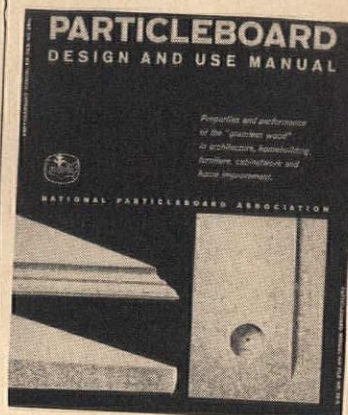
Hardwood Species



Brochure shows 30 hardwood species in color and describes 22 species in detail. Color diagrammatic photos of matching techniques, construction of hardwood plywood, and slicing methods used to produce typi-

cal figure patterns are included. Booklet is available at 25¢ per copy. From Fine Hardwood Assn., 666 Lake Shore Drive, Chicago, Ill.

Particleboard



"Design and Use Manual" details properties and applications for mat-formed wood particleboard. This material is made by combining wood flakes with resin binders hot-pressed into panels from 1/8" to 2" thick. Available from 3' to 8' wide, and up to 24' long. Booklet lists physical properties of various types of particleboard and illustrates edge treatment, finishing, and painting. 14 pages. National Particleboard Assn., 711 Fourteenth St. N.W., Washington, D.C.

On Readers' Service Card, Circle 207

Foundation Failures

"Failures In Foundations" illustrates a number of structural collapses, ancient and modern. Written by Jacob Feld, an authority on diagnosing and repairing collapsed structures, the book recommends that close supervision and adequate quality control are necessary to reduce the number of failures. 32 pages. Soiltest Inc., 2205 Lee St., Evanston, Ill. 60202.

On Readers' Service Card, Circle 208

Perforated Metal Design

More than 200 patterns of perforated screens for metals and nonmetals are illustrated. Materials include mild and alloy steels; copper and copper alloys; lead, magnesium, and other nonferrous metals and alloys; bonded, clad, and plated metals; precious metals; proprietary specialty alloys; and wood, paper products, ply-

wood, and plastics. Catalog #10 gives specifications and suggested applications such as screens and acoustic enclosures. 60 pages. Charles Mundt & Sons, 51-61 Fairmount Ave., Jersey City 4, N.J.
On Readers' Service Card, Circle 209

Control Joint for Plaster Partitions

Booklet illustrates many applications of a control joint developed to reduce cracking in plaster partitions when a high-rise building frame deflects. A $\frac{3}{8}$ "-wide joint isolates partitions from vertical and horizontal members of structural frame. Drawings show applications for solid and various types of stud wall systems. 16 pages. National Gypsum Co., Buffalo, N.Y.
On Readers' Service Card, Circle 210

Prefab Steel Structures

Folders present basic information on six types of pre-engineered steel buildings: manufacturing plants, shopping centers and retail stores, recreational and sports facilities, automobile showrooms and service areas, warehouses and freight terminals, and classrooms and gymnasiums. Diagrams show major types of rigid steel framing systems. Color photos illustrate various types of projects. American Iron and Steel Institute, Sheet Committees, 150 East 42 St., New York, N.Y. 10017.
On Readers' Service Card, Circle 211

Open Web Steel Joists

Booklet presents standard specifications and load tables of four series of open web steel joists, which have been approved jointly by the American Institute of Steel Construction and the Steel Joist Institute. Specs and load tables cover the long-span LA-Series, high-strength long-span LH-Series, and the two recently adopted short-span J and H Series. 52 pages. American Institute of Steel Construction, 101 Park Ave., New York, N.Y. 10017.
On Readers' Service Card, Circle 212

Timber Connectors

Folder explains how to use smaller size timber joists when

using cantilever design principles with "Line-A-Joist" connectors. The connectors transmit vertical shear forces from one "in-line" joist member to an adjacent joist member. Connector is made from 16-gage galvanized steel and is supplied with 9-gage, $1\frac{1}{2}$ "-long, hardened-steel spiral shank nails. Comprehensive tables recommend sizes for joists spaced 16" apart with spans ranging from 20' to 36'. Tables include data for joists in 15 species of lumber. Timber Engineering Co., 1619 Massachusetts Ave., N.W., Washington, D.C. 20036.
On Readers' Service Card, Circle 213

Wood Service Program



Comprehensive service program assists architects in specifying wood products for non-residential construction. Program includes a six-volume technical reference library of wood information. First volume is a wood products manual written by architectural specialists, and organized and edited to conform with recommendations of the CSI. It contains product information, illustrations, and specs. The other five volumes provide samples of laminated beams, prefabricated panel, doors, and other materials. Among other services are trained architectural market representatives to serve specifiers; regional technical staffs to answer engineering questions and assist architects in estimating costs; and an architectural services department in Tacoma, headed by Robert A. Eckert. Weyerhaeuser Co., Wood Products Div., Tacoma, Wash.
On Readers' Service Card, Circle 214

Cold-Weather Concreting

Spec writer's chart "RM-51," $8\frac{1}{2}$ " x 11", describes, in succinct terms, cold-weather concreting. Information is provided on accelerators, preparation of forms and subgrade for placing concrete, protection, and curing.

ing. On the back of chart is a nomograph that indicates at what temperature mix water should be to obtain the desired concrete temperature with aggregate and cement. The Master Builders Co., Div. of Martin Marietta, 2490 Lee Blvd., Cleveland, Ohio.
On Readers' Service Card, Circle 215

Metal Batten Domes



Battens in variety of metals can be used on domelike parabolic and other curvilinear roof systems. Construction details and roofing specs are given, as well as photos of various types of structures utilizing metal batten roofing. Shown is SOM's Industrial Reactor Laboratories in Plainsboro, N.J., which won an AIA Honorable Mention in 1964. Brochure, 8 pages. Overly Mfg. Co., Greensburg, Pa.
On Readers' Service Card, Circle 216

Shaving Costs with Wood

"How To Trim In-Place Building Costs 11 Ways" can be achieved, according to Potlatch Forests Inc., by employing several wood building products in both Western and Southern species. Among those covered are laminated roof decking, solid paneling, rough-sawn factory-stained siding, Electro-Mechanical Stress-Rated lumber, moldings, milled and preprimed cornice systems, oak flooring, and Larch underlayment. Brochure, 12 pages, illustrated. Potlatch Forests, Inc., 320 Market St., San Francisco, Calif.
On Readers' Service Card, Circle 217

Concrete Specs

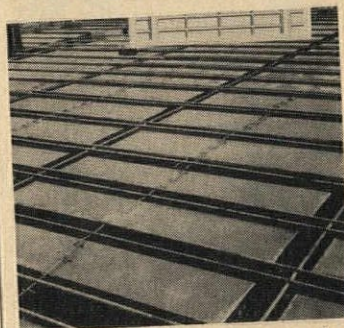
"Suggested Specifications for Plain and Reinforced Concrete" is used when comprehensive ACI spec sheet 301 is not warranted. Suggested specs show how to specify materials,

concrete quality, mixing and placing concrete, and forms and details of construction. Portland Cement Assn., 33 West Grand Ave., Chicago, Ill.
On Readers' Service Card, Circle 218

Treated Plywood Roof System

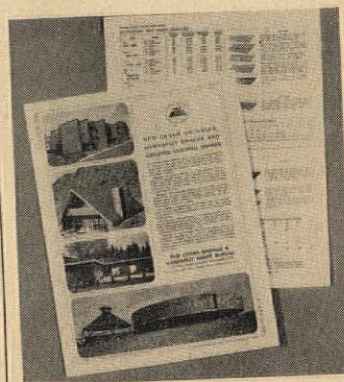
Treated plywood roof system offers low fire-insurance rates. Basic components are fire-retardant-treated plywood deck and aluminum vapor barrier. Plywood is 3" or thicker with tongue-and-groove or blocked joints. Framing is made of fire-retardant and treated joists, untreated wood beams or steel. System is UL-approved. Photos, details, and specs are given. American Plywood Assn., 1119 A St., Tacoma, Wash.
On Readers' Service Card, Circle 219

Concrete Joist Form

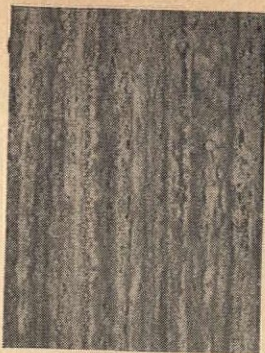


"Unadome" is a system for forming concrete joists in standard widths and modular lengths. Flanged on all four sides, the formwork units can be moved by compressed air. Pamphlet gives sizes, weights, and basic layouts for concrete joist floor construction. 6 pages. Grid Flat Slab Corp., 145 Freeport St., Boston, Mass.
On Readers' Service Card, Circle 220

Shake/Shingle Specs

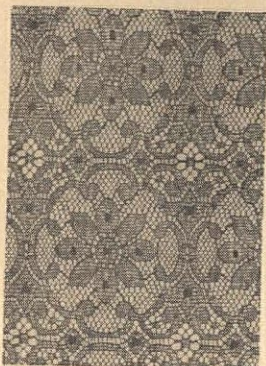


Specifications of grades, sizes, and shipping weights of re-butt-and-rejointed shingles,



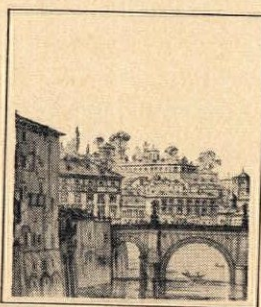
MARBLE PATTERNS

including Travertine for luxurious walls in any decor, any building.



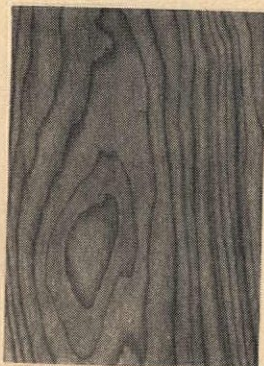
DECORATOR PATTERNS

including four Chantilly designs plus Fleece, Lace and Nugget designs.



MARLITE MURALS

including Ponta Roma, River Landing and Williamsburg for custom-decorated walls.



TRENDWOOD FINISHES

including Colonial Maple and Provincial Walnut for distinctive interiors.



6526

New Marlite Decorator Paneling

Beautiful decorating ideas come easy with Marlite!

Now more than ever, Marlite plastic-finished paneling offers infinite decorating possibilities to help your customers plan distinctive and luxurious interiors. With Marlite's 1965 line of smart Decorator Paneling, no other material gives you such a wide selection of colors, patterns and designs.

Unique decorator patterns, rich marbles, authentic Trendwood® reproductions, bold

new designer colors, and striking new Marlite Murals make this soilproof paneling at home in any decor.

And wash-and-wear Marlite resists heat, moisture, stains and dents. It's easily installed over old or new walls, never needs painting or further protection. Marlite stays like new for years with an occasional damp cloth wiping.

Get details on Marlite Decorator Paneling from your building materials dealer, consult Sweet's File, or write Marlite Division of Masonite Corporation, Dept. 1014, Dover, Ohio.

Marlite®
plastic-finished paneling

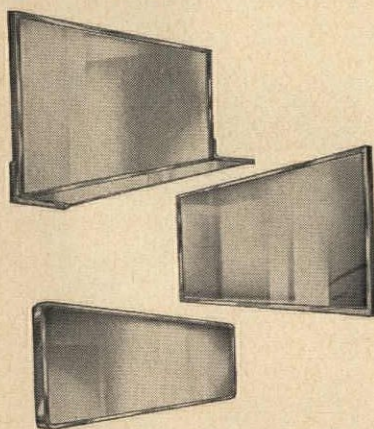
ANOTHER QUALITY PRODUCT OF MASONITE® RESEARCH

On Readers' Service Card, circle No. 481

THIS FILE BELONGS *in your* FILE



*if you
specify mirrors*



NEW file folder shows complete mirror line

For selecting and specifying mirrors, this easy-to-use file folder can serve as a quick, convenient reference. Each FM mirror model is illustrated, carries complete size range, and includes specification information. Write today requesting the number of file folders needed for your office.



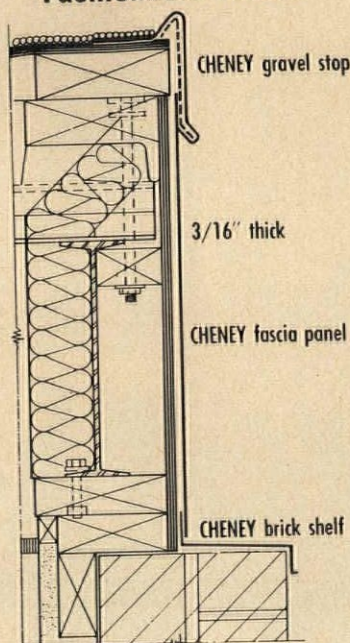
Faries-McMeekan, Inc.

P.O. Box 35 Elkhart 2, Indiana

On Readers' Service Card, circle No. 361

grooved sidewall shakes, and handsplit shakes. Includes illustrations for roof and wall applications, including hips, ridges, valleys, nailing, and finishing. 4 pages. Red Cedar Shingle & Handsplit Shake Bureau, 941 White Henry Stuart Bldg., Seattle, Wash.
On Readers' Service Card, Circle 221

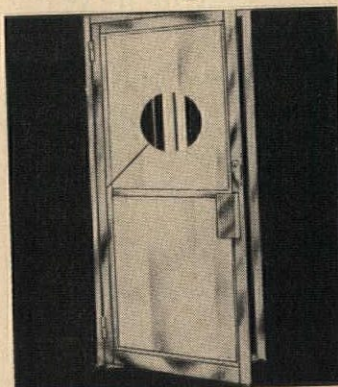
Fashionable Fascia



DEEP FASCIA

Gravel stops, fascia panels, cap and through-wall flashings in copper, "chinc" (titanium added to copper zinc alloy), stainless steel, or colored aluminum. Catalog illustrates details of applications and gives brief specifications. 8 pages. Cheney Flashing Co., 623 Prospect St., Trenton, N.J.
On Readers' Service Card, Circle 222

Doors/Windows Walk Right In



Extruded aluminum entrances and store fronts are presented in an 8-page booklet. Five door types and four basic framing systems are available. Fastening devices are concealed. Exposed surfaces are

7 MATOT DUMBWAITERS SPEED MEDICAL AID AT ST. FRANCIS



At St. Francis Hospital, Evanston, Illinois, 7 dumbwaiters in combination with an intercom system are being used to increase hospital efficiency. With a new addition increasing their capacity from 385 to 516 beds, the new system was introduced to relieve the added burden on their staff.

The lifts are used in different areas:

- Surgery to pathological specimen
- Surgery to blood bank
- In-Patient specimen lab to 4 patient floors
- X-ray film storage to filing
- Pharmacy to store room
- Lab clean-up to store room
- Medical records to store room

BENEFITS: The new dumbwaiter with the intercom system provides St. Francis with 4 important benefits: 1.) Service is speeded up in critical areas; 2.) Closer infection control can be maintained during surgery; 3.) More patients can be serviced with less help; 4.) Efficient operation... no frenzied corridor dashes, less breakage and thefts.

Matot specializes in developing units to solve any problem, and provides free engineering services, too.

Write for descriptive brochure!

D. A. MATOT, INC.

1533 W. Altgeld Avenue • Chicago, Illinois 60614
312 LIncoln 9-2177

Specializing in Dumbwaiters since 1888

See our catalog in Sweet's 23a Mat S

On Readers' Service Card, circle No. 386

polished, satin-smooth, and "alumilited" under license arrangement with Aluminum Company of America. Full vision, solid panel, inswing-outswing, single or double acting, transoms, side lights, and interchangeable door hardware are standard components. Single or multiglass module wall areas can be achieved with or without reinforcing steel, through the availability of both tube and split frame sections. Details of various extruded aluminum shapes are given. Dry-set glazing is by snap-in glass stops with extruded vinyl seals which permits clean and leakproof installation. 8 pages. Natcor Co., P.O. Box 9321, Nashville, Tenn.

On Readers' Service Card, Circle 223

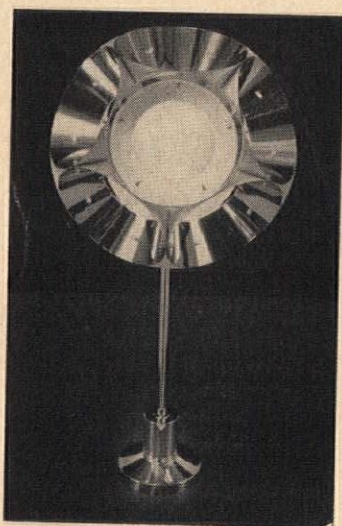
Electrical Equipment

Interior Lighting

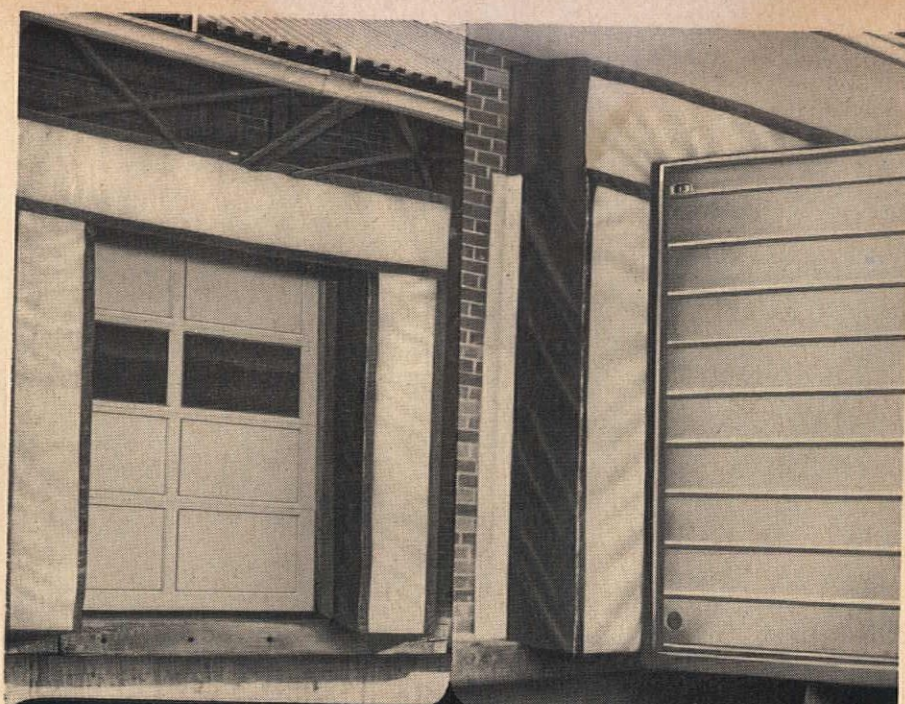
The importance of colors and reflectances of sidewalls, ceilings, and floors in planning a lighting system are emphasized in "Light and Interior Finishes." A reflectance-value chart in full color presents figures for the percentage of light reflectance values in various areas of the office, school, factory, and home. General Electric, Inquiry Bureau Dept., TP-129, Nela Park, Cleveland, Ohio.

On Readers' Service Card, Circle 224

"Dodecahedron"



Catalog number C-2 illustrates chandeliers, wall brackets, pendants, directional spots, and opal modules. Book includes "Dodecahedron", a brass and white glass table lamp 12" in diameter by 33" high. 32 pages.



Processed air areas need CRAWFORD DOR-SEAL

Save as much as \$700 per door, per year

- 1 WHAT DOR-SEAL IS.** Crawford Dor-Seal is a system of compressive polyether foam bolsters, encased in weatherproof, practically wearproof, material installed around door openings where trailers and trucks are loaded or unloaded.
- 2 WHAT IT DOES.** Dor-Seal provides a "pillow" which receives the rear end of the trailer or truck and, through compression by the vehicle body, forms a seal which *locks in* heated, cooled, washed, filtered or other expensive processed air and *locks out* wind, rain, exhaust fumes, dust and other air-borne contamination.
- 3 BENEFITS.** Virtual elimination of loss of expensive processed air can save more than \$700 per year when Dor-Seal is mounted on a 10' x 10' truck loading door; \$300 on an 8' x 8' door. Other savings include reduction in employee absenteeism due to sickness resulting from cold and drafts; steadier production due to better working conditions; better product quality control due to exclusion of air-borne contaminants, including insects; lower operating costs through elimination of damage to trailer and truck doors and hinges.
- 4 FOR MORE INFORMATION** call your Crawford dealer (Yellow pages under DOORS) and ask for Dor-Seal brochure CD-3196B or write direct. Crawford Door Company, 4270-3 High St., Ecorse, Mich. 48229.

See our catalog in Sweet's

Crawford DOR-SEAL
Stops the leaks that drain profits away

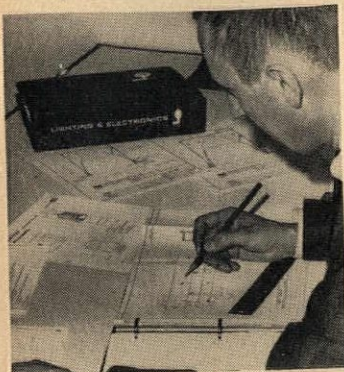


On Readers' Service Card, circle No. 355

Prescolite Mfg. Corp., 1251 Doolittle Drive, San Leandro, Calif.

On Readers' Service Card, Circle 225

Defy Your Consultants



Comprehensive lighting catalog comprises four sections: architectural section that describes, diagrams, and gives specifications for downlighting, accent lighting, wall lighting, and general and outdoor lighting fixtures and accessories; control section that deals with custom boards, package dimmers, motor-operated dimmers, and wall dimmers; television section; theater section that details spotlights, floodlights, strip-lights, and borderlights. Wiring and positioning data are also included. Separate 44-page

product index briefly describes each of the products in the four-page sections. Another 24-page booklet details theater accessories including scene projectors, mirrors, showers, and bubble machines. Copies of the comprehensive catalog may be obtained by writing on business letterhead. L/E Product Catalog, Lighting & Electronics Inc., 81 Prospect Ave., Brooklyn, N.Y.

School Lighting

"Lighting For Education" covers all phases of school lighting including classrooms, gyms, offices, corridors, entrances, yards, and parking lots. Topics include illumination levels, glare and visual comfort, cost analysis, and lighting efficiency. Photometric and scissors curves, two reflection diagrams, a cost analysis form, and a vertical surface lighting diagram are given. Also discussed are multiple examples of typical school lighting applications, such as kindergartens, large- and medium-size classrooms, and special-purpose classrooms. Methods of using the various types of lighting, such as fluo-

rescent, incandescent, and mercury equipment, are shown. Manual also illustrates 19 different "Holophane" luminaires used in school lighting with page references to applications covered in the text. 60 pages. Holophane Co. Inc., 1120 Avenue of the Americas, New York, N.Y.

On Readers' Service Card, Circle 227

Industrial Lighting Standards

Latest standards and recommendations for industrial lighting are presented in 52 page report entitled "American Standard Practice for Industrial Lighting." Report contains recommended levels of illumination for many tasks developed by the Illuminating Engineering Research Institute; information on factors affecting seeing tasks, including those concerned with subnormal vision and that of the aged; sections on color; maintenance of lighting; illumination tables; and emergency lighting. Copies are available at 80¢ each. Illuminating Engineering Society, 345 East 47 St, New York, N.Y.

Insulation

Take Me To Your Lead Barrier

"Practical Application of Sheet Lead For Sound Barriers" is a recent publication of the Lead Industries Association. Among topics covered are "Three Ways Barriers Are Rated," "Practical Tips For Better Sound Barriers," "Tabulation of Practical Sound Barrier Walls Using Sheet Lead" in chart form, and "Design and Construction of Practical Leaded Walls." Lead Industries Assn., 292 Madison Ave., New York, N.Y.

On Readers' Service Card, Circle 228

Sanitation/Plumbing

Built-In Cleaning

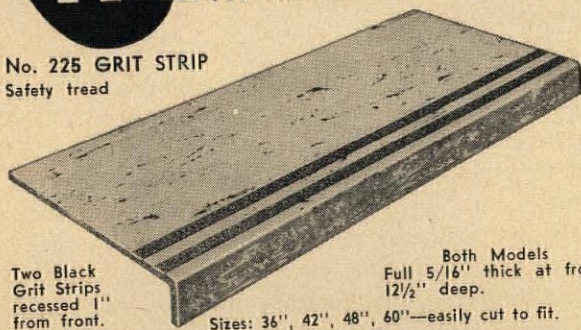
"How to Plan and Install Built-In Cleaning Systems" is subject of 8-page bulletin. Discussion covers best location for components of "Vacu-Flo" system, including plug-in inlet valves, power units, and tube systems. Various types of residential



New-Safety Designed MUSSON HEAVY DUTY RUBBER STAIR TREADS

FOR PAN-FILLED OR CONCRETE STEPS

No. 225 GRIT STRIP
Safety tread



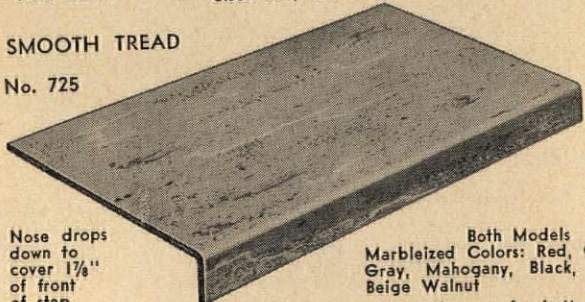
Two Black Grit Strips recessed 1" from front.

Both Models Full 5/16" thick at front. 1 1/2" deep.

Sizes: 36", 42", 48", 60"—easily cut to fit.

SMOOTH TREAD

No. 725



Nose drops down to cover 1 7/8" of front of step

Both Models Marbleized Colors: Red, Green, Gray, Mahogany, Black, Birch, Beige Walnut

NOTE: Both treads have 5/16" radius underneath nose, for better fit. Write for Catalog, Samples and Prices

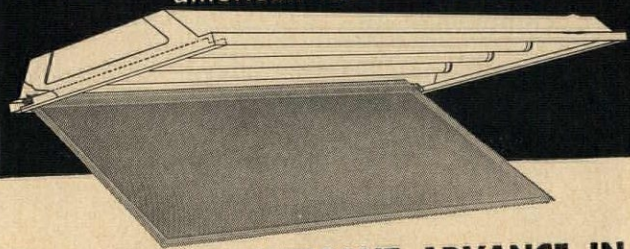
THE R. C. MUSSON RUBBER COMPANY

1320 EAST ARCHWOOD

AKRON, OHIO 44306

On Readers' Service Card, circle No. 466

frameless Customlens by american louver company



THE MOST SIGNIFICANT ADVANCE IN FLUORESCENT FIXTURE DESIGN IN YEARS

Finally available, a plastic light diffuser that needs no metal door frame. Increases daylight opening of fixture thus increasing its light output and efficiency.

One piece injection molded out of either acrylic or polystyrene CUSTOMLENS reduces the cost of the fixture by eliminating the expense of the steel door frame with its assemblage of latches, screws, hinges and locks, requiring less maintenance.

Installation costs are reduced as the lenses, with their integrally molded hinge pins, are laid in the fixture and completely operable.

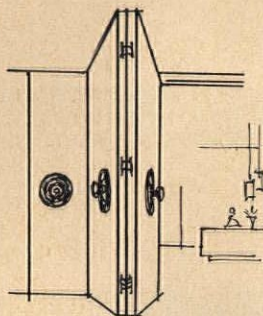
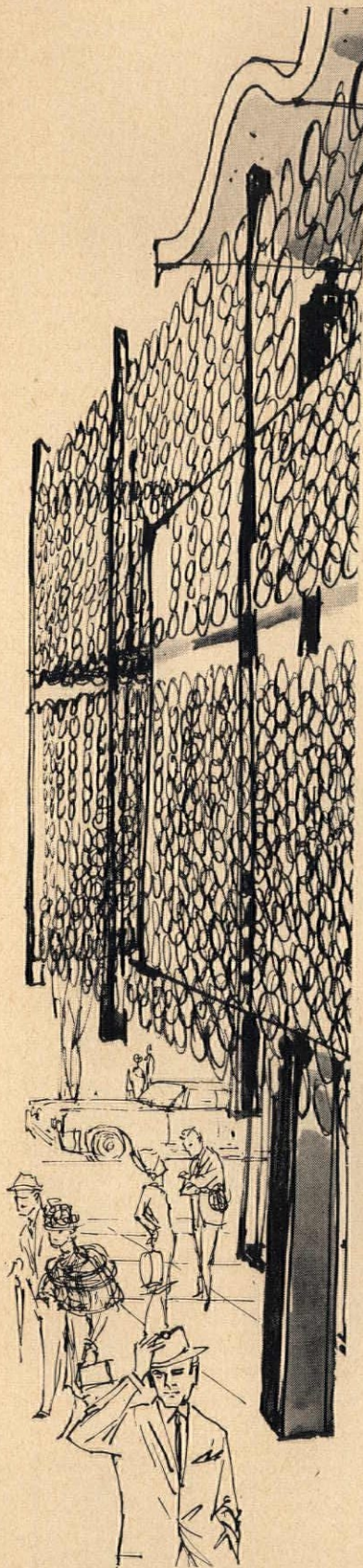
Available through all quality fluorescent fixture manufacturers.

Write for literature and specification sheets.

american louver company

5308 N. ELSTON AVENUE • CHICAGO 30, ILLINOIS

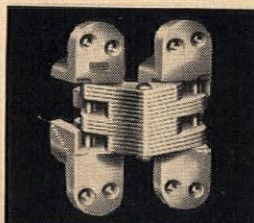
On Readers' Service Card, circle No. 332



SOSS INVISIBLE HINGES

*Add Unity
to Beauty*

Simplicity. Elegance. Flowing Line. Three good reasons why leading architects for over fifty years endorse Soss Invisible Hinges. When Soss hinged doors or cabinet lids are closed, all hardware is hidden. Unsightly gaps between door and frame disappear. The hinge that hides itself is available in a range of sizes and finishes to add unity to beauty in your next design.



SOSS INVISIBLE HINGES

For full information
and prices, write to:

SOSS Manufacturing
Company

FPA-10, P. O. BOX 38
DETROIT 13, MICHIGAN

On Readers' Service Card, circle No. 422

Lighting News AT THE RODEHEAVER AUDITORIUM

Bob Jones University, Greenville, S. C.



*...another
installation
by Kliegl*

Twelve hours a day, Rodeheaver Auditorium is in use for worship services, variety presentations, Shakespearean productions, opera, concert and other of the University's cultural offerings. This intensive schedule of wide-ranging uses (and largely with student staffs) demanded a high degree of versatility in the design and development of lighting systems and controls.

From the simplest to the most complex, your lighting problem gets expert attention from Kliegl. Whether the project is architectural, educational, theatre—the rich experience of over 60 years of lighting design craftsmanship is ready to go to work for you. Hundreds of designers, architects and engineers have profited from Kliegl assistance in the thousands of different applications. Lighten the lighting problem on your next projects—call in your Kliegl representative—no obligation, of course.



Student production staff operates the Kliegl SCR® 5-scene, advance-design, pre-set system which is considered one of the most sophisticated yet developed for professional theatre use.

Our lighting advisors will be pleased to assist in the planning of any installation, using standard or special units to meet your requirements. Full details on request.

lighting

KLIEGL BROS.

Originators and Manufacturers of Klieglights
32-32 48th AVE., LONG ISLAND CITY 1, N.Y.
Phone: Area Code 212, ST 6-7474

4-982

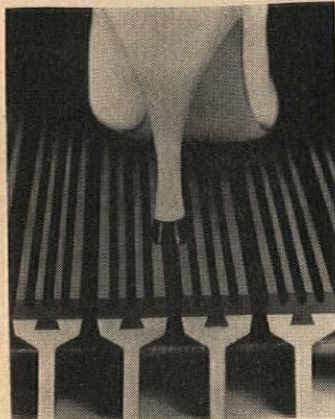
On Readers' Service Card, circle No. 483

construction details are given. H-P Products Inc., Louisville, Ohio.

On Readers' Service Card, Circle 229

Special Equipment

Knock It Off



"Pedigrid" recessed entrance foot grid helps eliminate unsightly, hazardous tracking of dirt, snow, and water into occupied building areas. Grid of serrated vinyl strips scrub dirt, snow, and water that falls through the grid into a recessed trench below to be drained away. Vinyl strips are available in six standard colors (white, black, blue, green,

gray, and beige), and may be specified in either single, combination, or custom inlaid designs. Pedigrid is constructed of extruded aluminum and designed for a 200 psf load with a safety factor of 1.75. It is available in any length, and in any number of 1" increments in width. 4 pages. E-L Corp., Foot of Center St., Williamsport, Pa.

On Readers' Service Card, Circle 230

Keeping It Clean

"A Primer of Home Laundry Planning" discusses minimum and optional laundry room space allocations. Illustrations depict variety of solutions to laundry planning problems. 16 pages. Home Laundry Center, Maytag Co., Newton, Iowa.

On Readers' Service Card, Circle 231

Sending It Up and Getting It Back Down

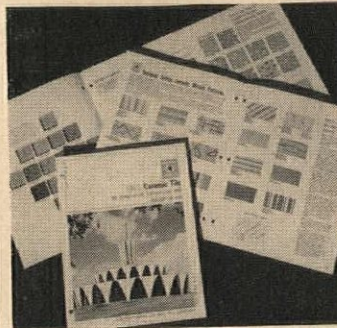
"Elevator Planning Guide" includes all data required to prepare preliminary plans for elevators in almost any building. Best type of elevators to use and the necessary allowable

space for using them are discussed. Types of elevators detailed are passenger elevators, hospital elevators, and freight elevators. Recommended sizes and capacities and minimum pit and overhead dimensions are given with each type. 16 pages. Dover Corp., Elevator Div., 1055-A Kentucky, Memphis, Tenn.

On Readers' Service Card, Circle 232

Surfacing

Floor/Wall Tile Line



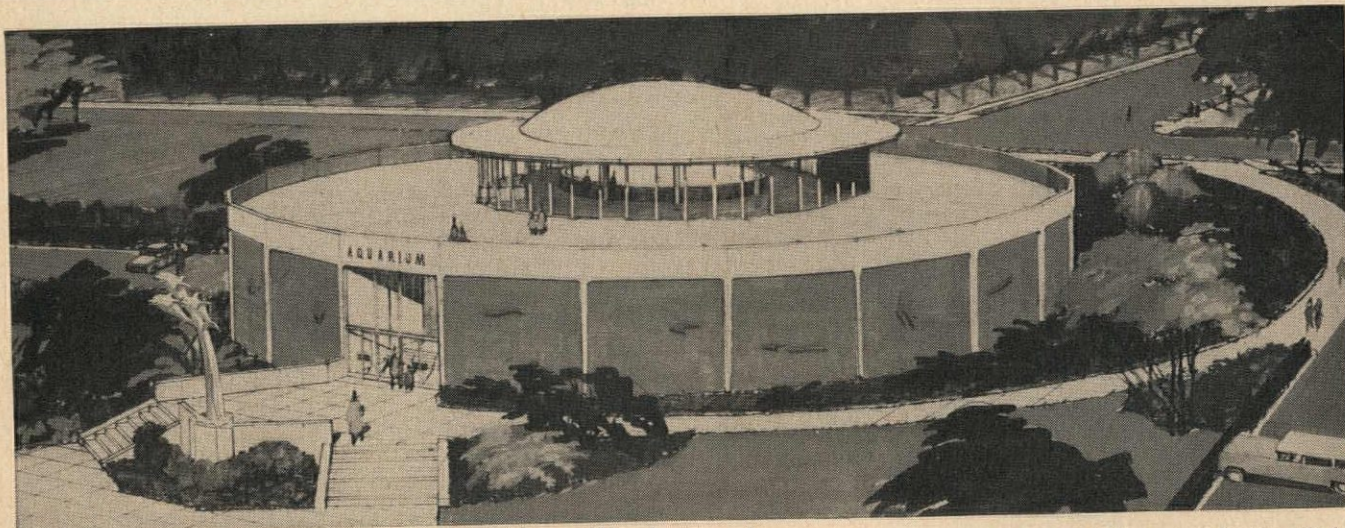
Complete line of "Romany-Spartan" glazed and unglazed floor/wall tiles for commercial, institutional, and residential

uses is presented in 28-page brochure. Products include glazed wall tile, porcelain ceramic mosaics, glazed and unglazed ceramic mosaics, swimming pool tile, and conductive tile. Some 184 different ceramic tiles and 94 patterns are shown in color. Other photos in color show installations of each particular tile. Trim details and specs are given. United States Ceramic Tile Co., 217 Fourth St., N.E., Canton, Ohio.

On Readers' Service Card, Circle 233

Plywood Paneling

Hardwood plywood paneling booklet is divided into four types. Architectural and custom panels are offered in all commercially-available domestic and imported woods with rotary-cut and/or sliced face veneers. Panels use three types of core materials including veneer, lumber or engineered wood core. Sizes are up to 50" x 192" and 1 3/4" thick. "Craft-wall," 7/16" thick and "Forest-glo," 1/4" thick are available in 62 color tones, patterns, and woods in stock panels as large as 4' x 10'. Color photos show



to guarantee your thin shell roofs will always be
SMOOTH, WHITE, WEATHER-TIGHT... specify
Addex Color-Shield® over Addex Heavy Duty Roof Shield®

The dependable, superior quality, Addex roofing system gives you a truly monolithic, lap-free contour! A product of the industry's largest, most advanced laboratories and production facilities, Color-Shield® is enduringly white and self-cleaning. Its unique molecular structure "breathes" allowing the concrete shell to cure properly. This Addex system eliminates the possibility of trapped moisture... a problem often encountered with vapor barrier type roofing. Color-Shield's® high coefficient of reflectivity keeps interiors cooler, reduces air conditioning costs appreciably.

From Roof Top to Sub-Grade, Addex Solves Your Roofing, Waterproofing, Weatherproofing Problems.

Get up-to-the-minute facts on Addex Color-Shield® and Roof Shield®.

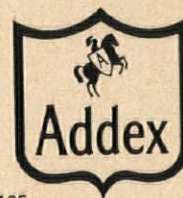
Write Dept. 134, ADDEX MANUFACTURING COMPANY, WICKLIFFE, OHIO

Aquarium of Niagara Falls, New York

Architects: Dickerson and Cain
Cleveland, Ohio

Contractor: Scufari Construction Co.,
Niagara Falls, N. Y.

Roofing: The Asbestos Asphalt Corp.
Niagara Falls, N. Y.



A-5125

On Readers' Service Card, circle No. 322

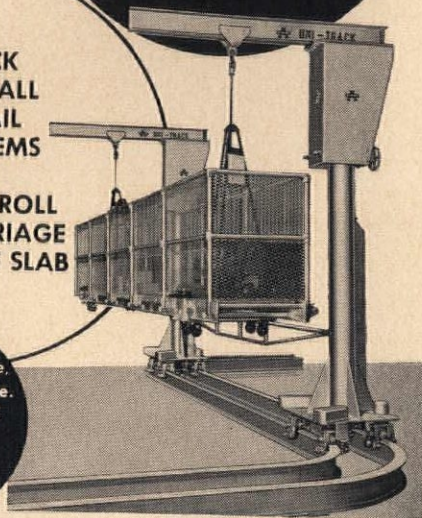
SEE Booth 50
ARA CONVENTION
Cleveland, Ohio



**"UNI-TRACK"
and
"CLIMBER"
POWERED WINDOW
WASHING SYSTEMS**

• Illustrated
**ROOF DECK
PARAPET WALL
GUARD RAIL
TRACK SYSTEMS
and
FOUR WHEEL ROLL
AROUND CARRIAGE
FOR CONCRETE SLAB**

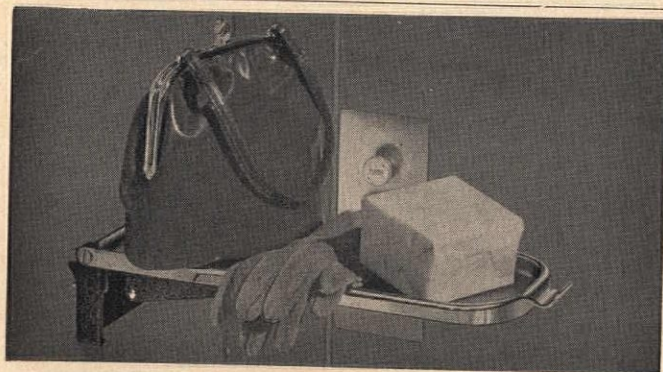
Write for 12-page
illustrated brochure.
ARA W-54-CC
AIA-35-J7
Specifications
included



ALBINA ENGINE & MACHINE WKS.

2100 N. Albina Avenue • Portland, Oregon 97227

On Readers' Service Card, circle No. 323



NOW...a handy PULLDOWN SHELF

for restroom booths

A safe place for purses, gloves, packages, hats, coats, and briefcases. Attractively designed . . . quality built . . . self-clearing. Easily installed with just 2 bolts. A plus-factor in any building with public restroom facilities.



\$11.95*

F.O.B. Indianapolis
Finished in lustrous chrome

*Slightly higher in the west

Send for free specifications, price list and installation instructions.

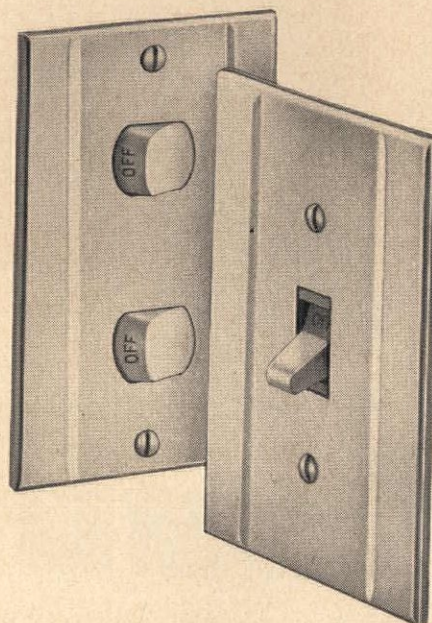


The NIK-O-LOK Company
422 East New York Street
Indianapolis 2, Indiana

On Readers' Service Card, circle No. 401



75 Years of Leadership in the Electrical Industry



**A New Dimension
In Wall Plates**

Simple...Unadorned...Attractive

The classic beauty of these new P&S wall plates—with intentionally understated design—complements any decor.

No distracting embellishments to overemphasize the wall plate installation or present a cleaning problem. Two vertical planes produce interesting and distinctive tonal effects of light and shadow.

These new UNILINE plates have the solid feel of excellence. Molded of high-quality phenolic material in Brown (61000 series) or Ivory (62000 series), they are available with a wide variety of openings.

For more information write Dept. PA 1065

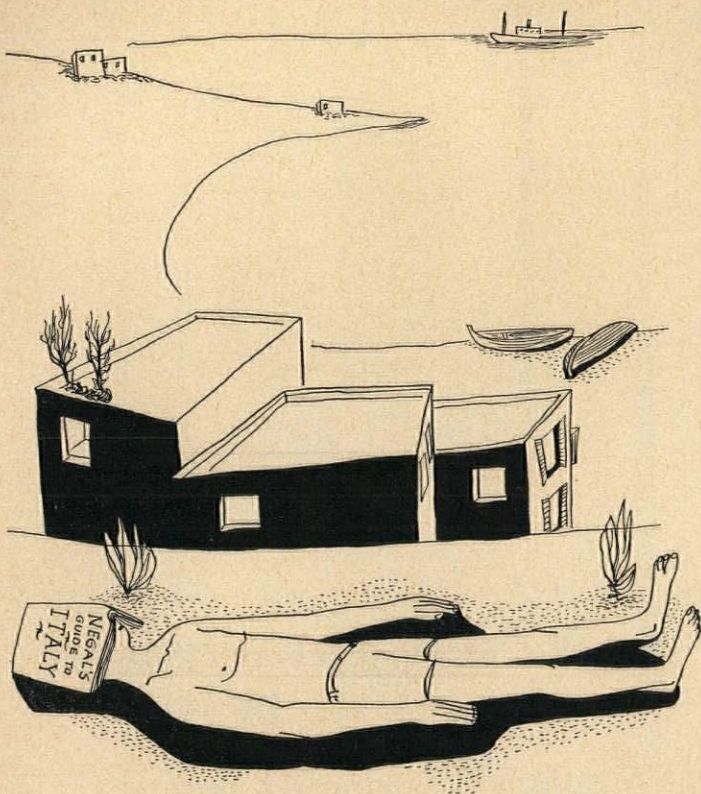


PASS & SEYMOUR, INC.
SYRACUSE, NEW YORK 13209

BOSTON • CHICAGO • LOS ANGELES • SAN FRANCISCO

On Readers' Service Card, circle No. 403

NEXT MONTH IN P/A



■ **Vacation Houses . . . free thinking clients plus swinging young architects combine to create designs for fun and games. There are eight exciting houses in this picture-story folio.**

■ **Harvard's Medical School Library . . . a non-library architect brings new thinking to a classic problem.**

■ **Cracks in high-rise partitions . . . an exhaustive report on an architectural nightmare by a firm of consulting engineers.**

■ **Low-cost housing in Jamaica . . . concrete panel and plastic molds help provide mass housing and modest cost. There's more: the lively News Report Section and the critical P/A Observer.**

■ **Send your \$5 check immediately and you will receive the exciting November issue of P/A plus eleven more, including the big Design Awards Issue in January. Address Circulation Department, PROGRESSIVE ARCHITECTURE, Reinhold Publishing Corp., 430 Park Avenue, New York, N. Y. 10022.**

various types of wood. Weyerhaeuser Co., Box B-273, Tacoma, Wash.

On Readers' Service Card, Circle 234

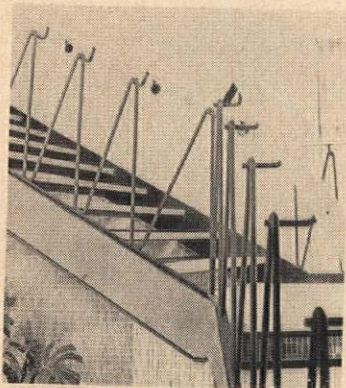
Vinyl/Fiber Floor



"Tapiflex" floor covering consists of 100 per cent vinyl, molded to a heavy "live-fiber" base of jute. When installed directly on concrete floor, Tapiflex has a coefficient of sound insulation of 21 db. It is resistant to all commercial solutions of acids, bases, oils, greases, and solvents with the exception of acetone and prolonged exposure to some chlorinated compounds. Flooring becomes brittle at -20 F and softens above 160 F. According to manufacturer, it is non-skid, even when wet. When installed with Tapiflex adhesive, it is nonflammable and will meet most Federal, state, and local flame-resistance requirements. Brochure illustrates in color some of the more than 30 colors and patterns available. 4 pages. Tapiflex Div., Felters Co., 210 South St., Boston, Mass.

On Readers' Service Card, Circle 235

Patterned Tiles



"Vico" wall and floor ceramic tile patterns are shown. Among types of Vico tiles shown are "Weavetex," appearing like hand-loomed fibers; "KCM," a multidimensional striated wall tile; and "Nuvo-Tex," a crystalline-glazed tile. Backings for tiles are, according to manu-

facturer, impervious to moisture, heat, frost, and other climatic conditions. Stains wipe off with a damp mop. 16 pages. Amsterdam Corp., 41 East 42 St., New York, N.Y.

On Readers' Service Card, Circle 236

Comparing Tile Colors

1965 edition of color comparison charts cover both vinyl asbestos tile and asphalt tile. Revised edition makes it easier to select equivalent color and style combinations. Vinyl asbestos patterns compared are chip, wood, marble, special marble, embossed travertine,

and plain. Under asphalt are marble and cork. Products compared are from Amtico, Armstrong, Azrock, Congoleum-Nairn, Flintkote, Johns-Manville, Kentile, and Ruberoid. Asphalt and Vinyl Asbestos Tile Institute, 101 Park Avenue, New York, N.Y.

On Readers' Service Card, Circle 237

Bathtub Specs

Technical Bulletin "No. CTI-O-108-64" gives details on Roman bathtubs. Complete information and drawings outline recommended standards for inspection, materials, waterproof-

ing, reinforcing, testing, membranes, and sloping. Both on-grade and on-joist construction recommendations are covered. Ceramic Tile Institute, 3415 West 8 St., Los Angeles, Calif.

On Readers' Service Card, Circle 238

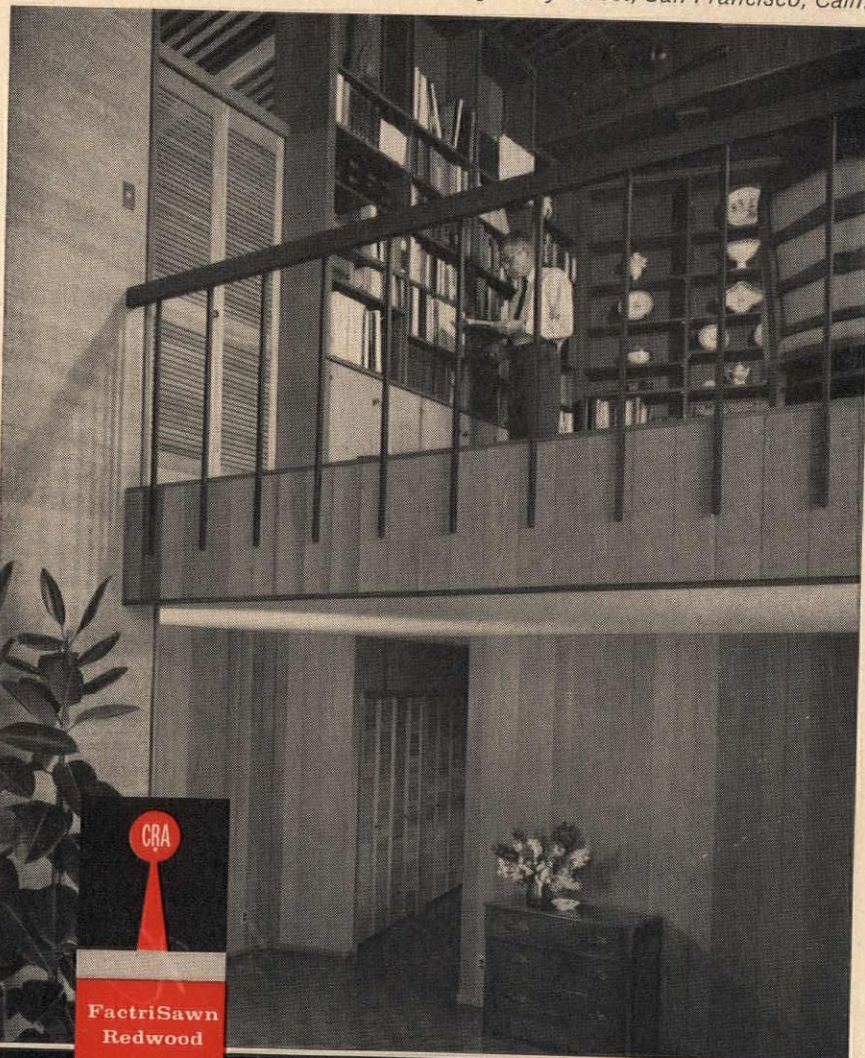
PROGRESSIVE ARCHITECTURE NEWS REPORT

REINHOLD PUBLISHING CORPORATION
430 Park Avenue, New York, N.Y. 10022

EditorJan C. Rowan
Associate EditorE. K. Carpenter
PublisherP. H. Hubbard, Jr.
Publishing Consultant.....D. B. Wilkin
Advtg. Sales Mgr.W. R. Evans, Jr.
Production Mgr.Joseph M. Scanlon

THE FINISHING OF INTERIOR REDWOOD

When FactriSawn redwood is given a clear finish, it harmonizes beautifully and naturally with other materials. On the other hand, a dark stain is often used to provide a handsome background for the owner's prized possessions. To receive your copy of "REDWOOD INTERIOR FINISHES", write Dept. 64-A, California Redwood Association, 617 Montgomery Street, San Francisco, Calif.



FactriSawn
Redwood

The Tongue and Groove paneling shown is FactriSawn® a trademarked Certified Kiln Dried product of these mills... UNION LUMBER CO. • THE PACIFIC LUMBER CO. • WILLITS REDWOOD PRODUCTS CO. • SIMPSON TIMBER COMPANY MILLER REDWOOD COMPANY • GEORGIA-PACIFIC CORPORATION • ARCATA REDWOOD COMPANY... which form the CALIFORNIA REDWOOD ASSOCIATION.

a story
worth
remembering
by bradley
washfountain

Witness the modern lounge or powder room . . . bright, beautiful, marvelously sanitary. A vast improvement over the washrooms of yesterday! One reason for this phenomenon: progressive architects and discriminating owners select Bradley Duos — the washfixtures that win

Compliments *For* The House

Duos are far more sanitary, because they are foot-operated. Hands touch only clean, tempered water, never germ-laden faucets or taps. And the water spray rinses the bowl *clean*. Space-saving Duos serve two people, yet require no more space than single lavatories. Of course, they are available in a full spectrum of colors to complement the most elegant decor. Bradley Duos are the last word in beauty and sanitation. And the last word of a guest leaving a Duo can well be "How thoughtful!"

REC 00221965

AQJ

FEE

EB

HS

KN

JT

WL

LL

218 3

Ask your Bradley representative for assistance on specific applications. Or write for latest literature, Bradley Washfountain Co., 9141 Fountain Drive, Menomonee Falls, Wis. 53055.



COUNTER-TYPE
WASHFOUNTAIN

On Readers' Service Card, circle No. 345