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A BRANCH LIBRARY is simply an extension of a main library and is designed for the convenience of the immediate community.

This presents a problem of designing a commercial building with a residential feeling to blend and not offend the adjacent residential area. This lead to the selection of materials such as the heavy hand-split cedar shake roof with generous overhang eaves, brick veneer and vertical cedar siding.

The problem of librarian surveillance of all areas including all entrances was accomplished with an L-shape plan.

The assembly room is so designed to be used in conjunction with the normal library operation and for other group functions. With the location and grouping of toilet areas and entrances it is possible for these areas to be used completely independently at any time.
In a conventional laboratory, the people and equipment within the building enable it to fulfill its intended function. In the new Rohn & Haas facility at Bristol, a third factor has been added to these two basic essentials. The building itself also has a role in the work which is conducted within it. It is designed to function as a proving ground for architectural applications which are of current interest and it can also be adapted for similar studies of developments that are yet to come.

The decision to have the building serve this functional purpose posed problems of design, since it would involve some sacrifice of architectural unity. However, although the building includes more different plastic applications than would normally be incorporated in a single structure, the effect is pleasing and the laboratory is colorful and attractive, both in daytime and at night.

The laboratory building is basically rectangular, 300 feet long by 100 feet wide. Along one long stretch of the north wall, enclosing a portion of the shop area of the laboratory, conventional fenestra-

(Continued on following page)
The spandrel panels over the windows here are made of opaque Plexiglas laminated to a plastic foam inner layer for insulation. Opaque Plexiglas is also used in the cornice and soffit areas.

Here in the test laboratory, studies are made on the physical and chemical properties of plastic under various conditions. Rohm & Haas Plastics Engineering Laboratory, Bristol, Pa.

PLASTICS LABORATORY
(Continued from page 3)

estion has been omitted and a curtain wall of laminated plastic panels is used instead. The sandwich panels are 4' 10" x 5' 4" and are four inches thick. They consist of inner and outer faces of formed Plexiglas sheet in a translucent golden-yellow color, with the formed areas filled with a rigid transparent foam as the insulating medium. Because of the transparent foam core and the translucent Plexiglas faces, this wall section admits diffused light by day and glows on the outside from the interior illumination of the building at night. The use of laminated plastic-and-foam panels in curtain wall construction is an interesting new development in the architectural field, but in these commercial installations, opaque panels are generally used. The translucent panels in the Bristol laboratory are an experimental installation employing a special, large cell transparent foam material which is not available commercially. This curtain wall section provides a means of studying performance from every angle—mounting techniques, sealants, laminating methods, insulating effect, light transmitting properties, resistance to change from temperature and humidity variations and other considerations. The weatherability and color stability of the Plexiglas faces themselves can, of course, be observed in this study, but the ability of this acrylic plastic to withstand years of outdoor exposure without significant change has already been established through experience that extends over the more than twenty years during which Plexiglas has been a commercial product.

In another part of the north wall, near the main entrance of the building, Plexiglass sheet is used in an entirely different way. Here white translucent Plexiglass sheet, formed in the shape of shallow pans, 4' x 2' x 3", is used to make a luminous wall. The pans are mounted side by side and end to end to cover the entire wall—an area of 350 square feet—and they extend around the corner over an additional area of approximately 100 square feet. Fluorescent lamps are mounted behind the pans so that the entire wall is backlit at night. Mounting techniques have been devised which permit the panels to be raised for access to the lamps. This is a type of installation which has already been employed in basic concept in commercial application such as fronts for stores, banks and service stations but it was felt that the possibilities of the backlighting wall idea may not yet have been fully developed. The installation at Bristol will be used to evaluate modifications of the technique in various ways. As an example, the identifying sign for the building, presently mounted on this wall, illustrates one technique of combining a luminous front with the signing of a building. Other sign designs may be erected here from time to time, providing a means of studying mounting techniques as well as the visual effect which may be obtained when legends and decorative designs are used in combination with a luminous wall section.
Plans for construction of an air-conditioned ballroom-exhibit hall that will be one of the world's largest within a hotel were announced by Chalfonte-Haddon Hall, Atlantic City, N. J.

Instigated by "a trend to more and bigger conventions" and a desire "to give back the public lounges of the hotel to the individual guest," Leeds & Lippincott Company, owner, said that ground will be broken for a two-story, 55,000 square foot addition to their 1,000 room Boardwalk hotel. When completed in ten months, the building will give Chalfonte-Haddon Hall 155,000 square feet of public space, more than doubling its present capacity for meetings, banquets, and exhibits. The increase will reinforce the hotel's position in the "biggest" class.

The new hall will be joined to the existing Haddon Hall structure on the north side. It will greatly complement Chalfonte-Haddon Hall's reputation for enormous variety and flexibility, comfortably seating, 3,300 for a meeting, 2,200 for dining. It will add space for 300 additional 8 x 10 foot booths, more than tripling the hotel's existing capacity.

The architect is William B. Habler, F.A.I.A., New York City.

The placement of columns in the street level exhibit hall will be "mathematically perfect" for 8 x 10 foot and 10 x 10 foot booths, and, of equal importance, a ceiling height of 17 feet 9 inches will be provided, according to Mr. E. D. Parrish, the hotel's vice president in charge of sales. He described the planned lighting effects and utility services as equal to, or surpassing the better halls around the country. Entrances for exhibits will be wide and high enough for a large cabin cruiser, tractor trailer, and the big hay balers of farm machinery shows. Excellent loading dock facilities are planned with tailgate heights of 2½ feet and 4½ feet. Four trucks may unload simultaneously. A large service elevator will serve three levels, ground, second floor, and stage. An escalator will provide easy access to the ballroom above.

The second level ballroom, free of columns, will be permanently carpeted, increasing Chalfonte-Haddon Hall's 21 miles of carpeting already laid.
AUTOMATED ONE-MAN CEMENT PLANT

Interior of huge kiln where 2700 degrees temperatures convert the slurry into clinker. Projecting rod at bottom houses one of many thermocouples automatically monitoring critical temperatures with close exactness. Huge dangling chains weighing 214 tons aid in heat transfer as slurry moves by gravity through the inclined kiln.

In addition to truck facilities, the Catskill is equipped with an modern automated loading facility. The 250 barrel/hr. belt conveyor loads a 7500-barrel in only 3 hours.

The Catskill plant's total storage capacity of more than 540,000 barrels of finished cement, over 2 months' production, allows rapid filling of containers no matter how large. Storage silos in the ground hold 254,000 barrels.

This space-age control center is the brain center for the entire Alpha Portland Co. cement plant near Pittsfield, N. Y. Entire cement manufacturing process is operated from this room.
The multi-million dollar, three million barrel per year cement manufacturing plant built by The Alpha Portland Cement Company near Catskill, New York, is automated to such a degree that one man in the central control room could control the entire basic manufacturing process.

At Alpha's Catskill plant, a central control system directs all operations connected with withdrawing raw material from stockpiles, tertiary crushing, proportioning, raw grinding, homogenizing, burning, cooling, finish grinding and cement conveying. Supplemental control systems are used for corollary operations such as stockpiling raw materials, cement handling, and packing and loading.

A single belt passes through the reclaiming tunnel to withdraw specified amounts of raw materials and coal. Materials are withdrawn from the stockpiles by Syntron vibrating feeders and fed onto a 1230-foot long belt conveyor which discharges onto a Hammermills, Inc., reversible wobbler feeder. The wobbler feeder rejects oversized pieces of material which are crushed in a 500 H.P. reversible impactor, after which the crushed material discharges onto an inclined belt conveyor feeding a reversible shuttle belt located above the storage silos.

Automation has also been applied to operations at the raw materials storage silos. When the level on a given silo reaches the upper bindicator, the feeder under the stockpile shuts off. After an automatic time-controlled purge delay, all equipment is interlocked in the programming sequence shuts down automatically.

The plant's raw material storage silos will accommodate enough materials to supply full production needs at peak capacity for four days. The eight silos are 52-feet high, with a 13-foot wide, 16-foot conveyor gallery running along the tops. There is a 17-foot stepback, or offset, from the silo rise to the gallery base.

In constructing these silos an unconventional form concrete placing technique was devised to meet the challenge of the step shape. Slips forms used from grade to the silo tops. At this point, the formed concrete was poured in the steps so the gallery could be poured.

A 93⅓-hour continuous pour used 2216 cubic yards of 4000 psi air-entrained concrete and 660 cubic yards of 4000 psi concrete air-entrained concrete and the silos end gallery in a monolithic unit. Cold joints.
Alabama Cream marble creates a distinctive atmosphere of dignity and richness in the banking area of Cleveland Federal Savings and Loan Association headquarters building.

Facade of new headquarters building of Cleveland Federal Savings and Loan Association is enhanced by vertical panels of Georgia White Golden Vein marble.

MARBLE Enriches Both Interior and Exterior of New Cleveland Financial Structure
Downtown Cleveland has been given a "new look" with the marble and glass-fronted headquarters of Cleveland Federal Savings and Loan Association, designed by William F. Cann, Architect. Marble, employed extensively in this $2 million, ultra-modern showplace, performs a major role in brightening and enriching both the interior and exterior of the building. Five stories in height, the structure has a frontage of 64 feet on South Euclid Avenue. The third floor is 160 feet deep, while the fourth and fifth floors are each 90 feet deep.

The exterior facade consists of six four-story-high vertical panels of Georgia White Golden Vein marble, extending from the second to the fifth floors. Between the marble panels are five narrower panels, comprised of alternating windows and architectural glass.

Inside the building, marble has been employed with equal lavishness. In the lower level, a floor-to-ceiling wall in the elevator lobby is faced with Alabama Cream marble. This timeless and enduring material was chosen also for decorative panels on the curved wall behind the first floor tellers' area, for the tellers' section, and for the handsome floor-to-ceiling facings on the first-floor lobby columns. Hone-finished Alabama Cream was used for the floor strip fronting the tellers' row.
THE Cosmodyne Corporation has purchased a new 95,000 square foot national headquarters and cryogenics manufacturing facility situated on a 9-acre site in Torrance, California, president James L. Bartlett, Jr. announced. Cosmodyne will also add to the existing facility an additional 18,000 square feet of office and engineering space.

Purchase price for the building and land was approximately $1,000,000 with an additional $250,000 slated for improvements and new offices.

Mr. Bartlett stated that the new building will house the firm's corporate and administrative offices and engineering, production and testing areas for the Los Angeles area. Cosmodyne has been occupying three separate facilities totaling 60,000 square feet in Hawthorne and El Segundo, California.

The Torrance headquarters and manufacturing plant occupies approximately half of the total acreage purchased. The remaining land has been reserved for the company's future expansion, Mr. Bartlett said.

Situated on a spur of the Atchison Topeka & Santa Fe Railroad, the building is of contemporary architectural design with construction of reinforced concrete and structural steel frame and tilt up concrete walls. Interior details include vinyl asbestos floor tile, special acoustical ceilings, recessed lighting and zoned air conditioning. Both exterior and interior colors will be beige; white and Cosmodyne blue.

Executive offices will be included in the existing office space, while sales, engineering, production control, purchasing and industrial relations will be situated in the new wing of the building. Also to be constructed is an employees' lounge and cafeteria.

Parking facilities for 350 cars will also be provided.

The facility is planned to accommodate a total of 300 personnel, including 70 in administration, 50 in engineering and 180 in production.

Cosmodyne will begin moving its various operations to the new facility starting in September and Mr. Bartlett estimated that all Los Angeles operations and divisions will be moved into the Torrance building by year-end.

Architect for the project is Faxon, Gruys & Sayler, Los Angeles.
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