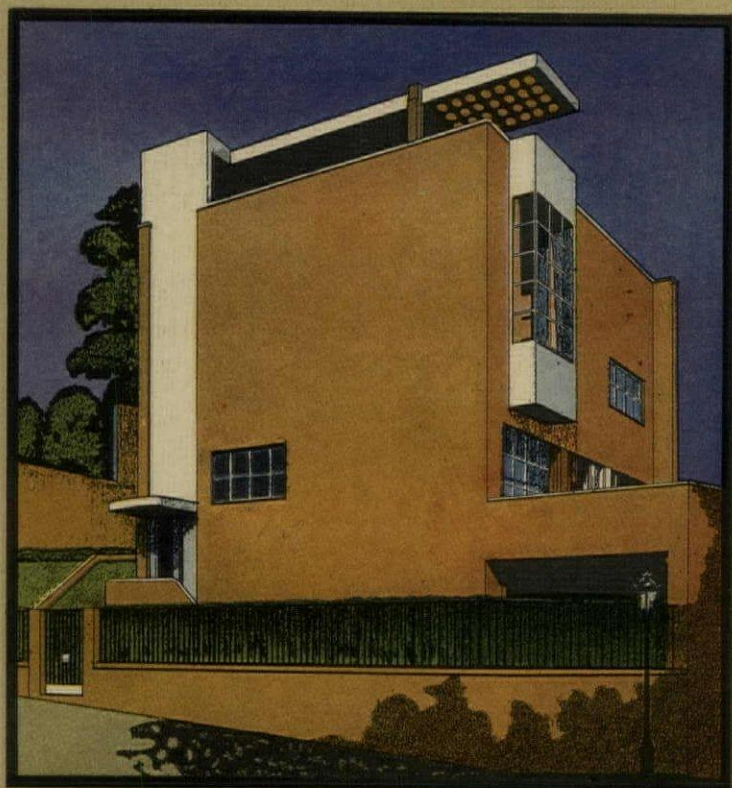


THE
ARCHITECTURAL
FORUM
IN TWO PARTS



PART ONE
ARCHITECTURAL DESIGN
OCTOBER
1929



Interior of Southwestern Bell Telephone Company Building at Fort Worth, Texas. Double-Waxed Linoleum, made by W. & J. Sloane. Photograph un-retouched.

Linoleum delivered to job with DOUBLE-WAX FINISH



This Service Free to Architects

If you wish practical suggestions in planning linoleum floors, do not hesitate to call upon our Architects Service Department. There is no charge nor obligation involved. You may also have for the asking a copy of the Linoleum Data Book illustrated above. It will help you in preparing specifications. Address: Architects Service Department, W. & J. Sloane, 577 Fifth Avenue, New York City.

*M*ANY specifications now call for linoleum to be delivered to the job with the wax finish already applied.

For years waxing has been recognized as the one suitable treatment for the preservation of linoleum floors. The wax forms a surface film which prevents dirt and grime from being ground into the body of the linoleum. This both enhances the appearance by giving a pleasing lustre to the floor and decreases the amount of cleaning and care required.

The exceptional finish of W. & J. Sloane

Linoleum comes first from extra-processing in manufacture. This provides a smooth, compact surface without pores or cracks. To this fine *natural* finish is then added a double coat of wax applied *at the plant*.

W. & J. Sloane *Double-Waxed* Linoleum meets with approval on big jobs because it is easy to handle and lay and ready for instant use when laid.

Look carefully into the matter of finish before you specify. We will gladly send you quality samples for comparison.

W. & J. SLOANE
Double-Waxed LINOLEUM

HANLEY FACE BRICK



*Number One Cedar
Street Building,
New York City*

*Clinton & Russell,
Architects*

*Shroder & Koppel, Inc.,
Contractors*

Hanley white glazed brick



ESTABLISHED 1893

This building, finished with Hanley white glazed brick, is rising on the famous skyline of New York's financial district. Not as a daring experiment, but as the result of practical advantages. This brick is easily and economically cleaned and retains its white appearance over a long period of years. Its cost is little more than half that of stone, and about one-third more than the cost of face

brick. A novel spandrel treatment was obtained in this building by using brick glazed on the face and bed side, and laying them in soldier courses in the spandrels extending out in steps from the wall. This is only one of many uses that can be made of Hanley Glazed Brick, obtainable in white, blue, green, tan and black glazed colors.

HANLEY COMPANY

Largest Manufacturers and Distributors of Face Brick in the East

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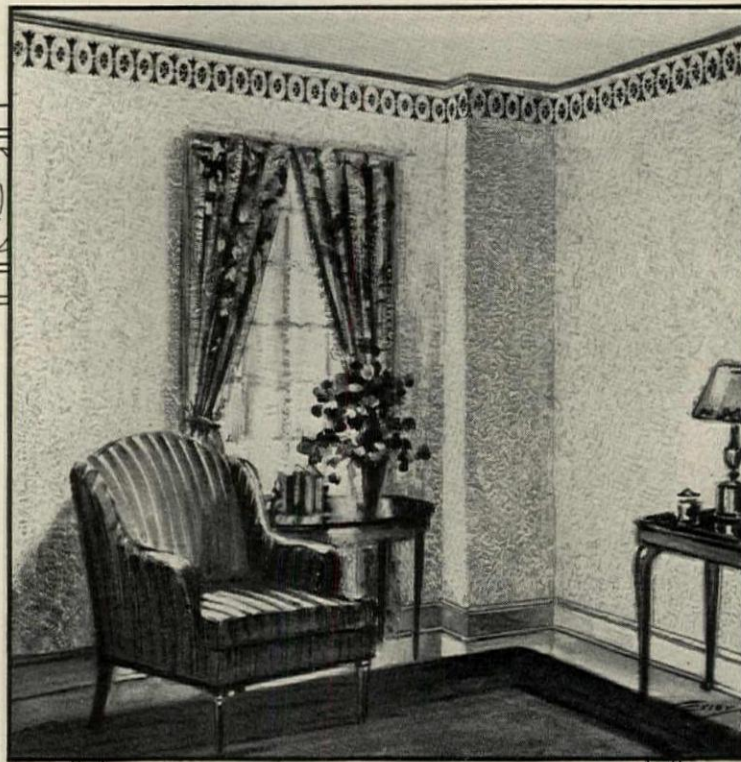
BRADFORD, PA.

NEW YORK—565 FIFTH AVE.

THE ARCHITECTURAL
FORUM

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VOLUME LI
Number 4



Textured Walls provide authentic atmosphere

Interiors, too, can be utilized in expressing the intangible with the tangible. Textone, The Plastic Paint, can create a feeling within a room in perfect harmony with the architectural plan.

Soft tones—delicate tints—elusive color combinations in three dimensional design—through these means, Textone brings a warm beauty to walls and ceilings.

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Textone, The Plastic Paint, can be specified with confidence in its dependability. It is a standard material made by specialists in wall surfacing.

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TEXTONE

(Reg. U. S. Patent Office)

THE PLASTIC PAINT



LEAD.....

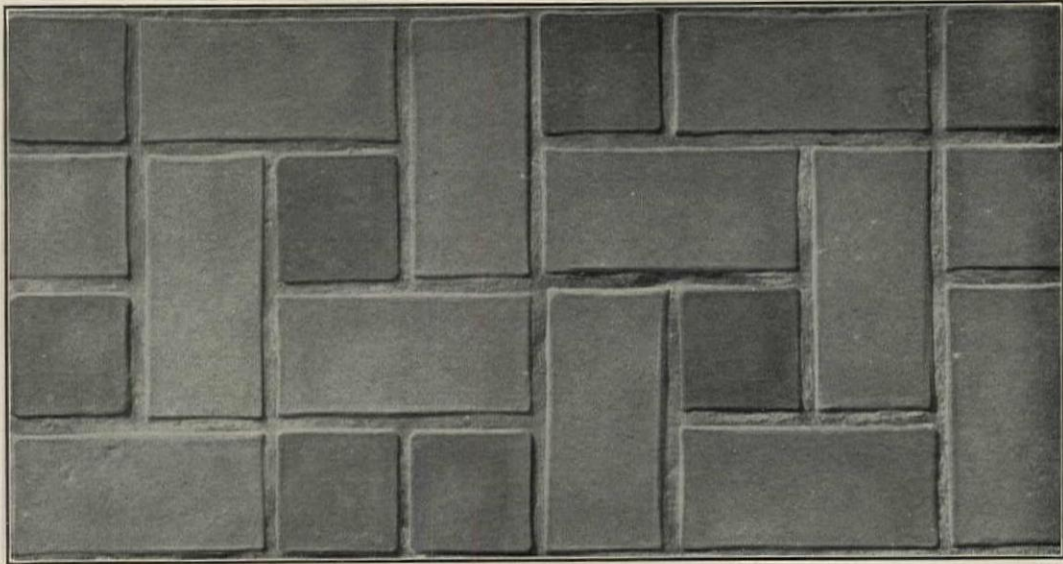
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Hand Fettled Pavers

As a pleasing departure from the mechanical straight edge quarries and pavers the Hood Company now introduces Hand Fettled Pavers, having the same rich quality of fireflashed values in the autumn foliage tones as well as buff and gray range, but having in addition the plastic feeling of a hand made unglazed faience. Hardness and durability make this material adamant to wear.

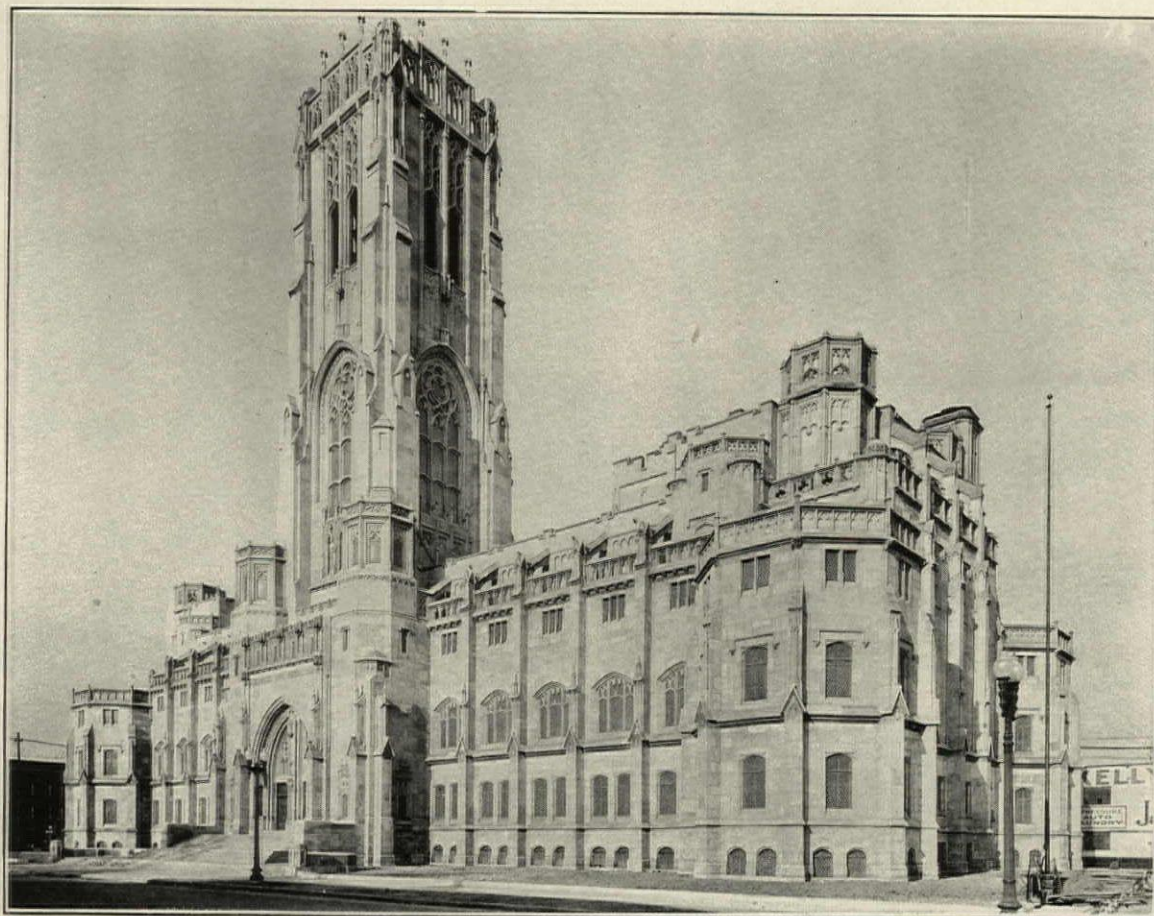
Hood Hand Fettled Pavers are now obtainable in many rectangular sizes and shapes, also regular six-inch hexagons and eight-inch elongated hexagons, triangles and half pieces.

Samples are ready for your request. Address Department F, Daisy, Tennessee.



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TRADE MARK
 DAISY, TENNESSEE

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No Worthy Substitute for Indiana Limestone

THE increasing use of Indiana Limestone for all sorts of commercial as well as monumental building, we believe, is creating a new standard of architectural beauty in this country.

It is the comprehensive organization of Indiana Limestone Company that makes available this beautiful natural stone in unlimited quantities at moderate prices. The aim of this company has been and is to provide such a high standard of service that it will be possible for the architectural profession to use Indiana Limestone for almost every sort of project, large and small.

There are financial benefits for the property

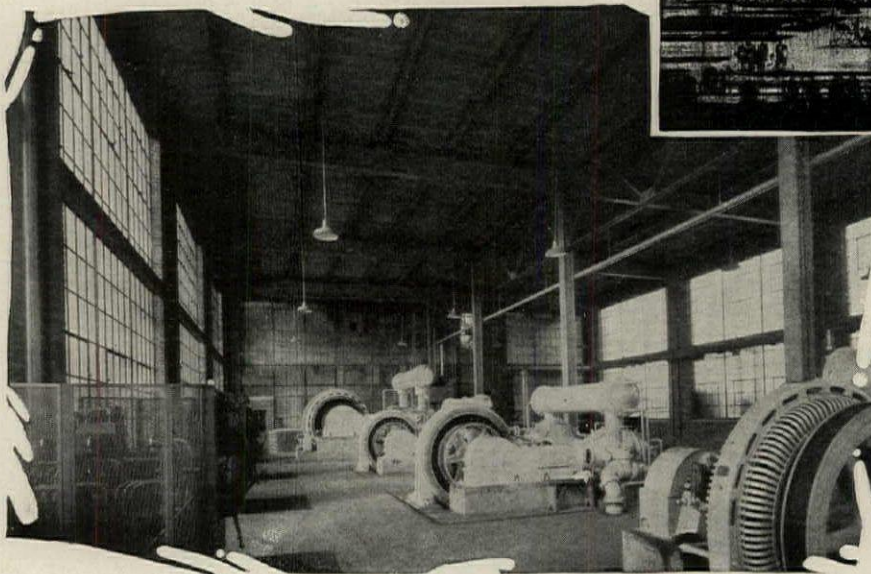
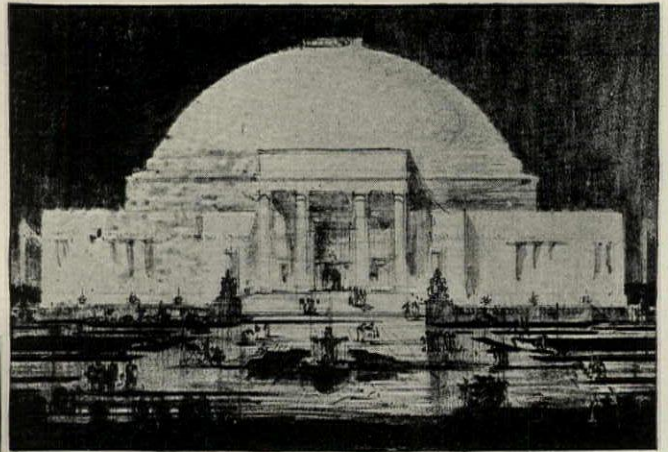
owner which make it the wisest sort of investment to provide the building with an all-stone facing. The public preference for buildings whose exteriors present the pleasing light color of Indiana Limestone is bound to increase as fine examples of stone construction multiply in all parts of the country. Why not take advantage of Indiana Limestone and Indiana Limestone Company service to a greater extent than you have in the past? Surely this is the way to provide your community with a more beautiful architecture, to benefit your client most, and to secure that perfect expression of your own ideas which you seek. We are always glad to figure estimates without obligation.

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General Offices: BEDFORD, INDIANA

Executive Offices: TRIBUNE TOWER, CHICAGO

Now on some of the Country's *best known* Buildings!



PUBLIC

Above, Chicago's new Adler Planetarium, displaying a unique panorama of the heavens with the relative positions of the stars and planets. This monumental structure is roofed for permanence and fire-safety with Featherweight Concrete Insulating Roof Slabs.

INDUSTRIAL

Interior of building for Chrysler Motors at Detroit. The expensive machinery shown must have the safest kind of roof protection—such as the Featherweight Concrete slabs on this building afford. Incidentally Federal has furnished over a million square feet of roof for Chrysler—one building alone being almost a half-mile long.

Featherweight Concrete INSULATING ROOF SLABS

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Buildings for leaders in industry like Chrysler — Inland Steel — Oakland Motors; the great new Detroit Airport Hangar; the magnificent Auditoriums at Shreveport and Flint; the distinctive Planetarium at Chicago — are fitting examples of the confidence placed in Featherweight Concrete slabs by prominent architects, engineers and contractors.

Our new "Catalog and Roof Standards", just issued, tells the story of this outstanding development. Your copy on request.

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Alfred Fellheimer and
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Architects

PASSENGER Concourse of New York Central Station, Buffalo, where ideal acoustic conditions and permanency of construction have been achieved by the installation of AKOUSTOLITH sound absorbing tile as soffit course to structural tile ceiling vaults.

✠✠✠ **R. Guastavino Company** ✠✠✠

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R. GUASTAVINO CO. OF CANADA, Ltd.
 New Birks Building, Montreal, P. Q.

What's wrong with this picture?

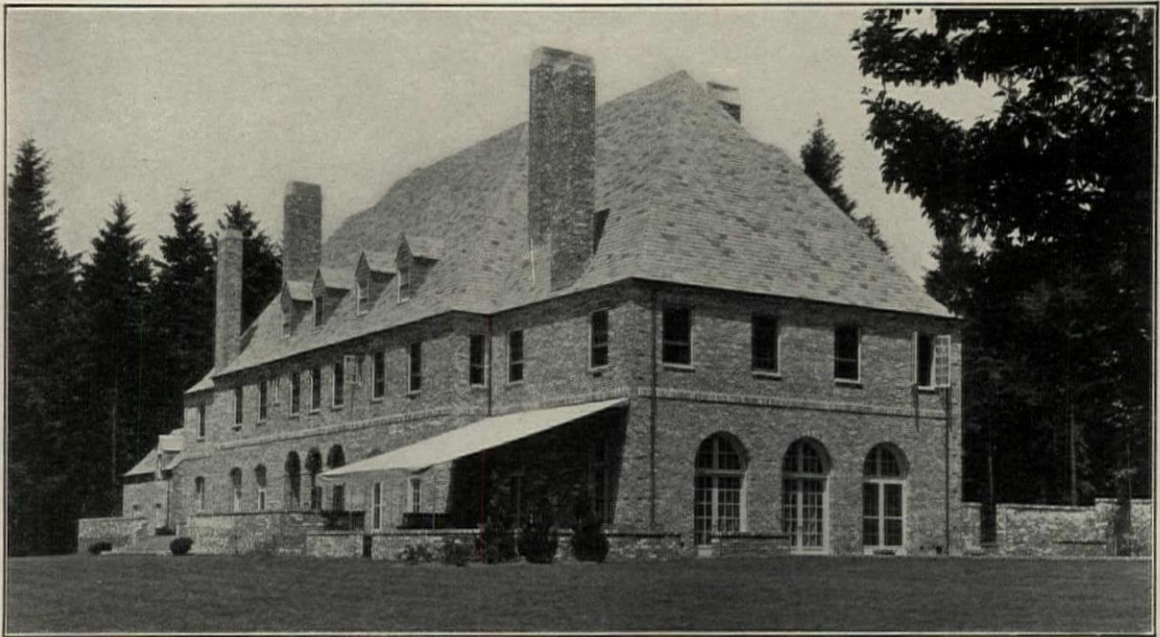
Mr. Corbett hadn't yet taken possession, hence the absence of curtains, drapes, etc.

What's right with this picture?

For one thing, it represents one of the outstanding projects of its kind, in recent years, on the Coast. But, as you might expect, we like to emphasize the "rightness" of crowning this magnificent residence with "the Roof of Eternal Beauty," than which there could be no more worthy, no more fitting.

To particularize: This roof is a combination of Sheldon's Mottled Grays, Vermont Blacks, and Antiques, in sizes ranging from 20 to 10 inches in length, random widths (15,000 square feet in all) and in thicknesses from $\frac{1}{2}$ inch to $\frac{3}{16}$ inch.

*Owner, Hamilton F. Corbett
Architects, A. E. Doyle & Associate } Portland, Oregon*



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ANACONDA

ARCHITECTURAL EXTRUDED BRONZE IN STANDARD SHAPES

PLATE 20

WITH THE EXCEPTION OF THE SMALL CAST PANELS
THIS SUGGESTION FOR A STAIR RAIL HAS BEEN DESIGNED
ENTIRELY FROM AVAILABLE SHAPES SHOWN IN OUR BOOK
"ANACONDA ARCHITECTURAL EXTRUDED BRONZE SHAPES."

THE AMERICAN BRASS COMPANY
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SECTION "D-D"

SCALES

SECTIONS ELEVATION

V. HAGOPIAN, DES. & DEL.

Complete sets of these plates may be had for the asking



● ONE of the most distinctive pieces of new architecture in New York is this building of individual shops. It stands at the center of the city's smartest shopping district, where 57th Street crosses 5th Avenue . . . The roof is a very essential part of the design, thus the color and character of the roofing material was an important consideration. Buchman and Kahn, the architects, chose to use IMPERIAL Closed Shingle Roofing Tiles in shades of green.

L U D W I C I - C E L A D O N C O M P A N Y

Makers of IMPERIAL Roofing Tiles

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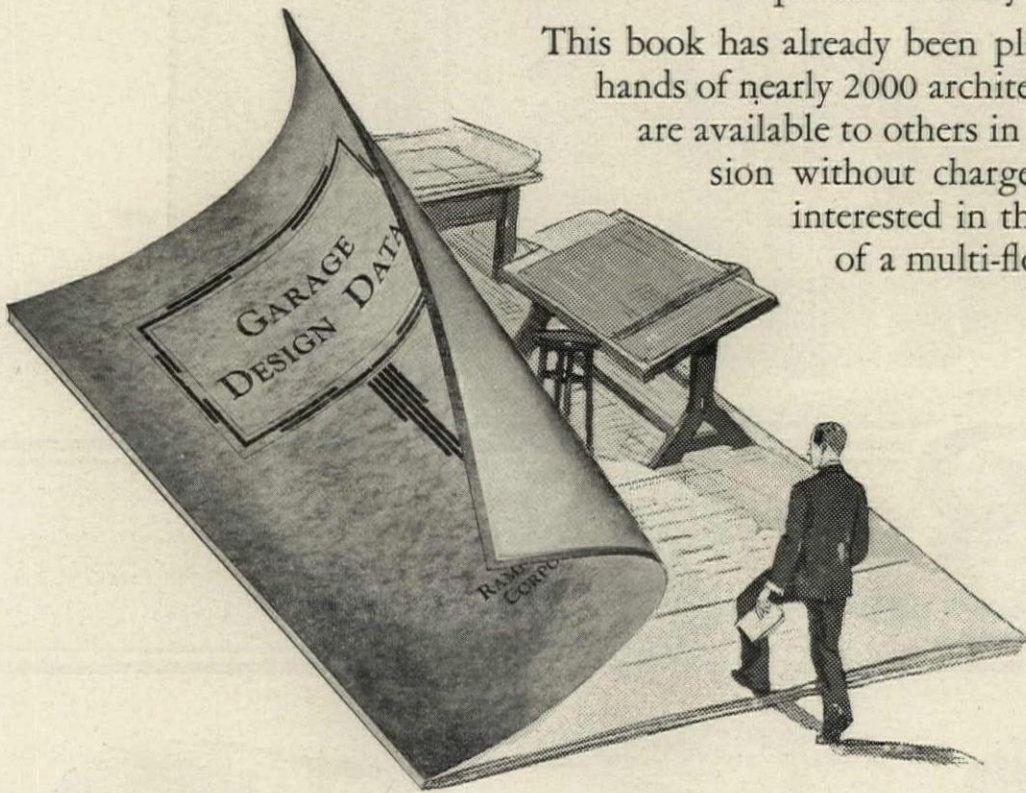
AMERICA NEEDS MORE GARAGES IN HER CITIES

The Place

to start to plan a GARAGE

... is a review of the essential design and engineering data as compiled between the covers of this book. It contains in data sheet form the best thought evolved in our engineers' decade of specialized study.

This book has already been placed in the hands of nearly 2000 architects. Copies are available to others in the profession without charge. Are you interested in the planning of a multi-floor garage?



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157

G A R A G E
CONSULTANTS ON PROMOTION

E N G I N E E R S
AND GARAGE MANAGEMENT

NEW METAL DESIGNS,

Store front constructions are called upon daily to meet greater demands for style and adaptability to the newer architecture. In the vanguard of this trend, Brasco has developed newer treatments, and brilliant effects that offer just the individual touch for building design. PermaWite—Art Bronze—Copper—Solid Bronze—all these are now available in complete form, distinguished for their modern beauty, strength, permanence and glass safety. Catalogs, samples and details gladly sent on request.

BRASCO MANUFACTURING CO.

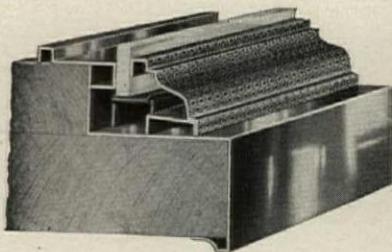
5031 WABASH AVENUE, CHICAGO

28-14 WILBUR AVE., LONG ISLAND CITY COMMONWEALTH BUILDING, PHILADELPHIA



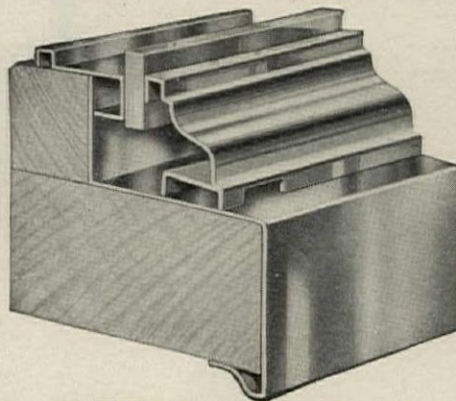
An exceptionally attractive New Jersey store, designed by the owner and his builder, Peter Tripley. All plate is safely set in Brasco Construction.

Brasco



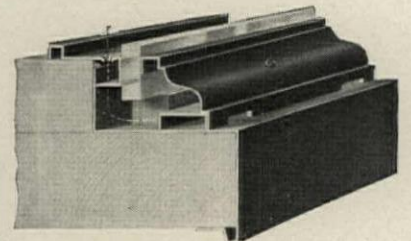
BRASCO
ART BRONZE

Offering a distinct contribution to modern store architecture with its striking patterned effects in deep relief.



PERMAWITE

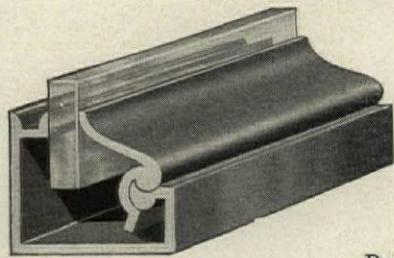
Of solid metal, PermaWite retains its flashing chromium-lustre whiteness, resisting wear and weather.



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The metals of proven merit, serving successfully on thousands of Brasco store fronts all over the country.

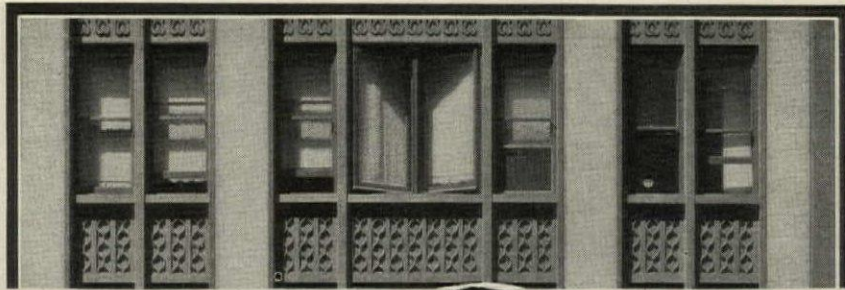
NEW DISTINCTION!



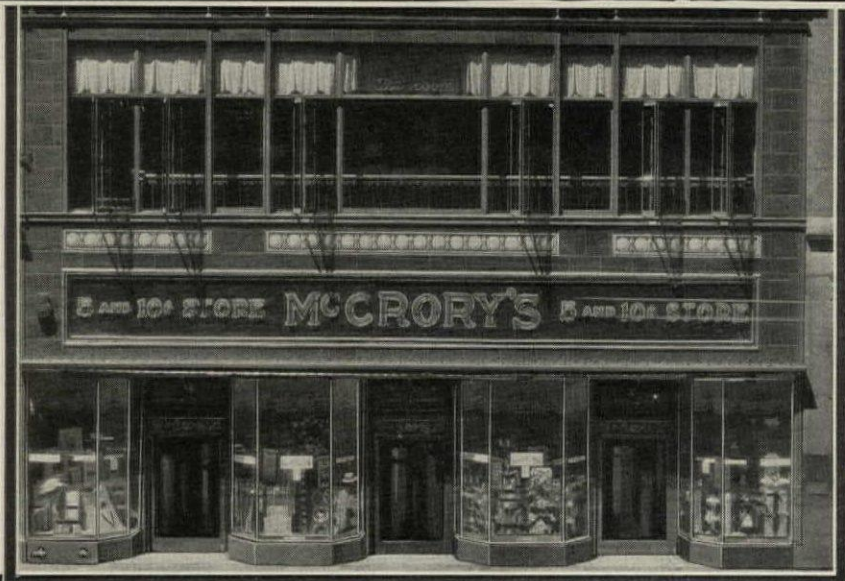
Built on the fulcrum principle of indirect screw pressure, Davis assures utmost safety to the largest plates. All glass is set from the outside without need for putty or plastic cement.

DAVIS

SOLID BRONZE



Store Fronts



The McCrory Store on State Street, Chicago, with all display plates framed in permanent Davis Solid Bronze. Leichenko and Esser, Architects. This is but one of many chain stores around the country beautified by Davis and Brasco.



RESIDENCE OF W. P. CRADDOCK
 BATON ROUGE, LA.
 Architect—Lewis A. Grosz
 Contractor—L. W. Eaton
 Russwin Dealer—Doherty Hdwe. Co.

IN planning the comparatively small house pictured here, both owner and architect sought a design that would allow of spacious rooms, convenient arrangement, and good looks. The result is this very livable home in Dutch Colonial style, distinguished for such interesting details as panels of hand-blocked wall papers decorating the interior walls of plaster.

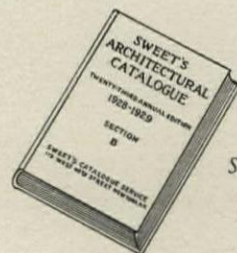
Having a wide range of designs as well as a known reputation for trouble-free service and enduring wear, Russwin Hardware was a natural choice for this residence as well as for the new Hotel Heidelberg, pictured in the insert.



HOTEL HEIDELBERG, BATON ROUGE, LA.
 Architect—Edward F. Neild, Shreveport, La.
 Contractors—Glassell-Wilson Co., Inc.,
 Shreveport, La.
 Russwin Dealer—Doherty Hdwe. Co.

R&E
 SINCE 1839
RUSSWIN
 RUSSELL & ERWIN
 DISTINCTIVE
 HARDWARE

Hardware that lasts—base
 metals of bronze or brass



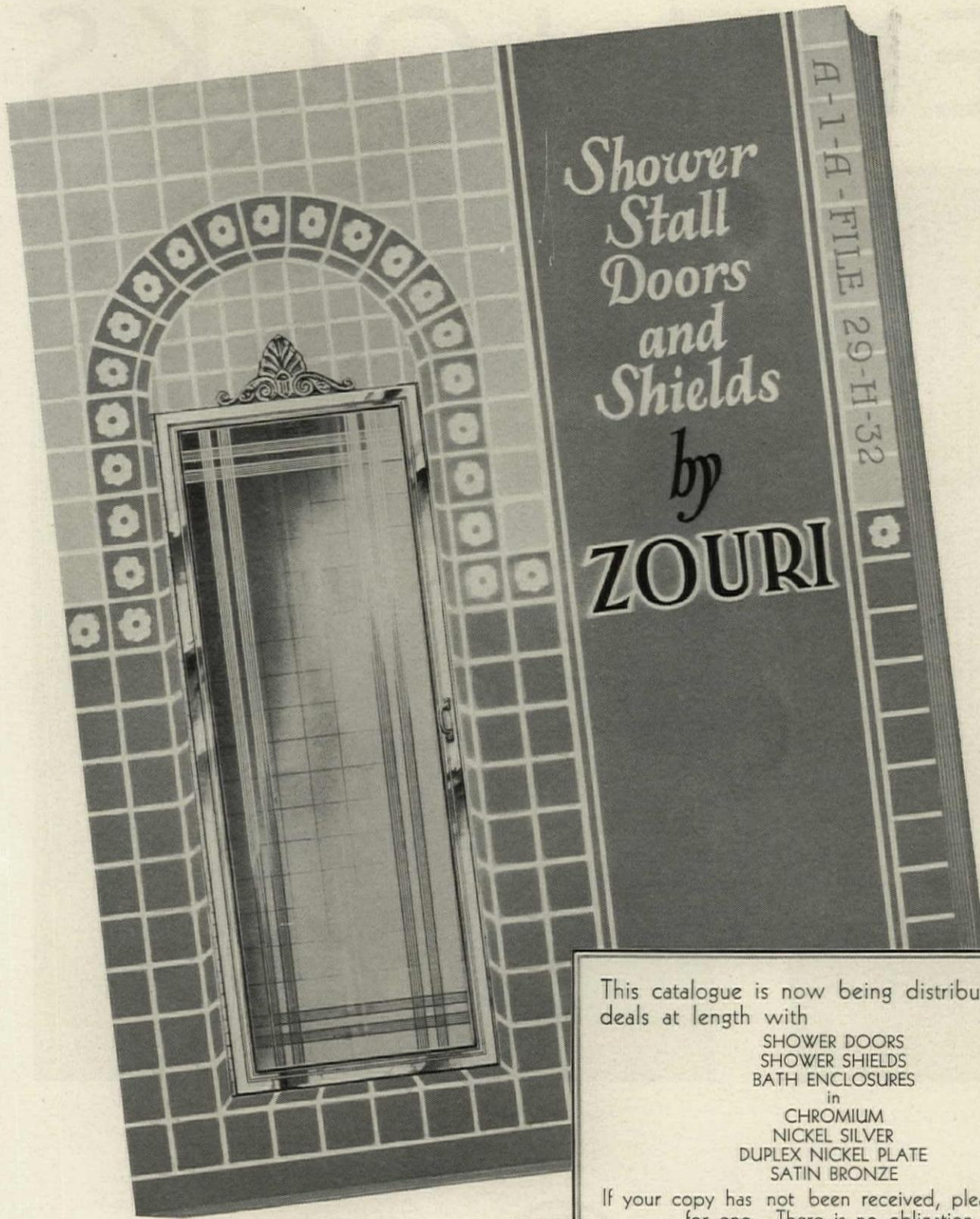
See pages 2519-2598
 for a listing of
 Russwin Hardware

RUSSELL & ERWIN MFG. CO.
 The American Hardware Corporation, Successor
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NEW YORK

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SHOWER SHIELDS
BATH ENCLOSURES

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NICKEL SILVER
DUPLEX NICKEL PLATE
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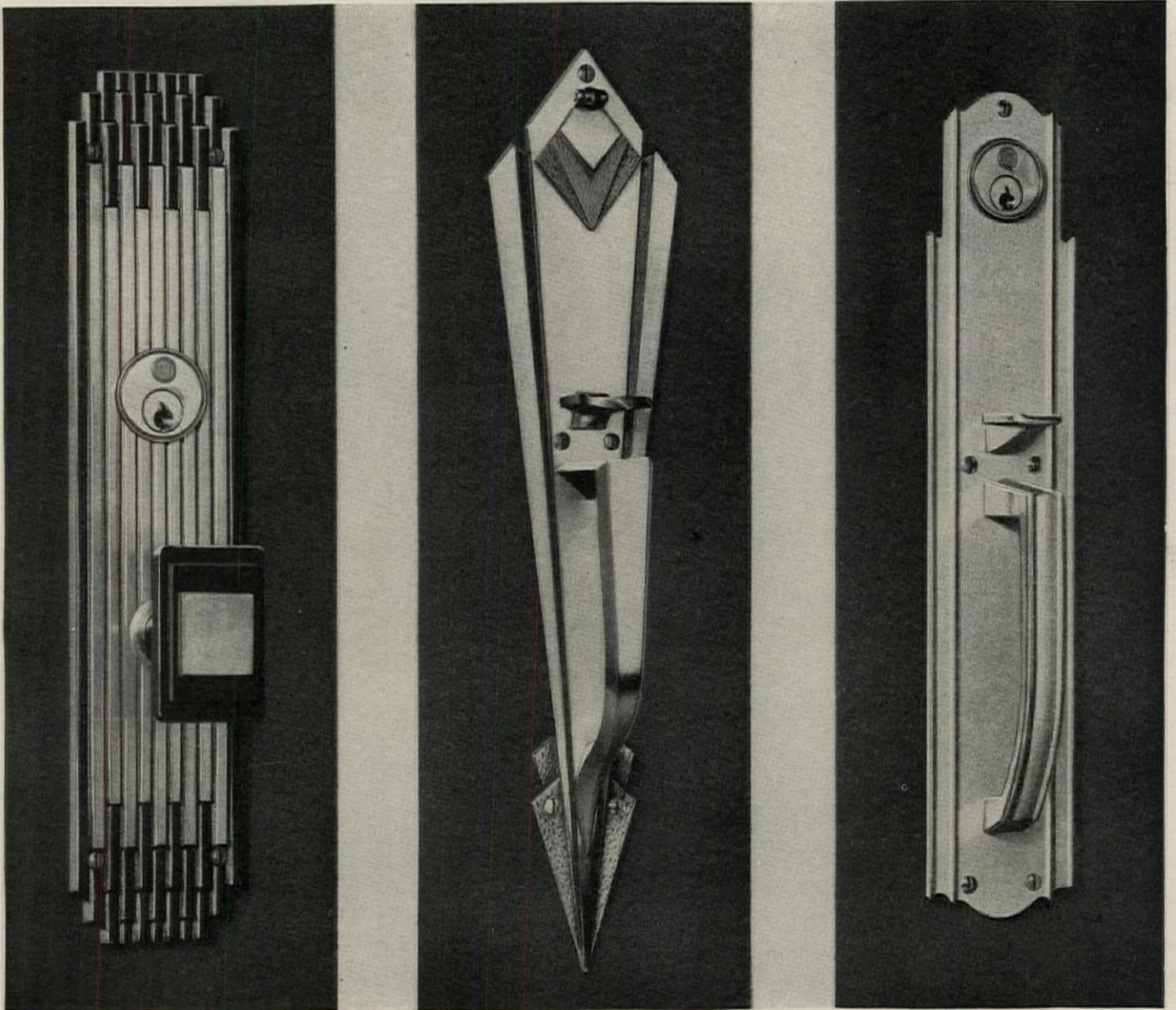
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PENN LOCKS



PENN-VOTAW

PENN-VINDEX

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ESTABLISHED 1877

PENN HARDWARE COMPANY
 Reading, Pennsylvania

BOSTON . CHICAGO . LOS ANGELES . NEW YORK CITY . PHILADELPHIA . SAN FRANCISCO

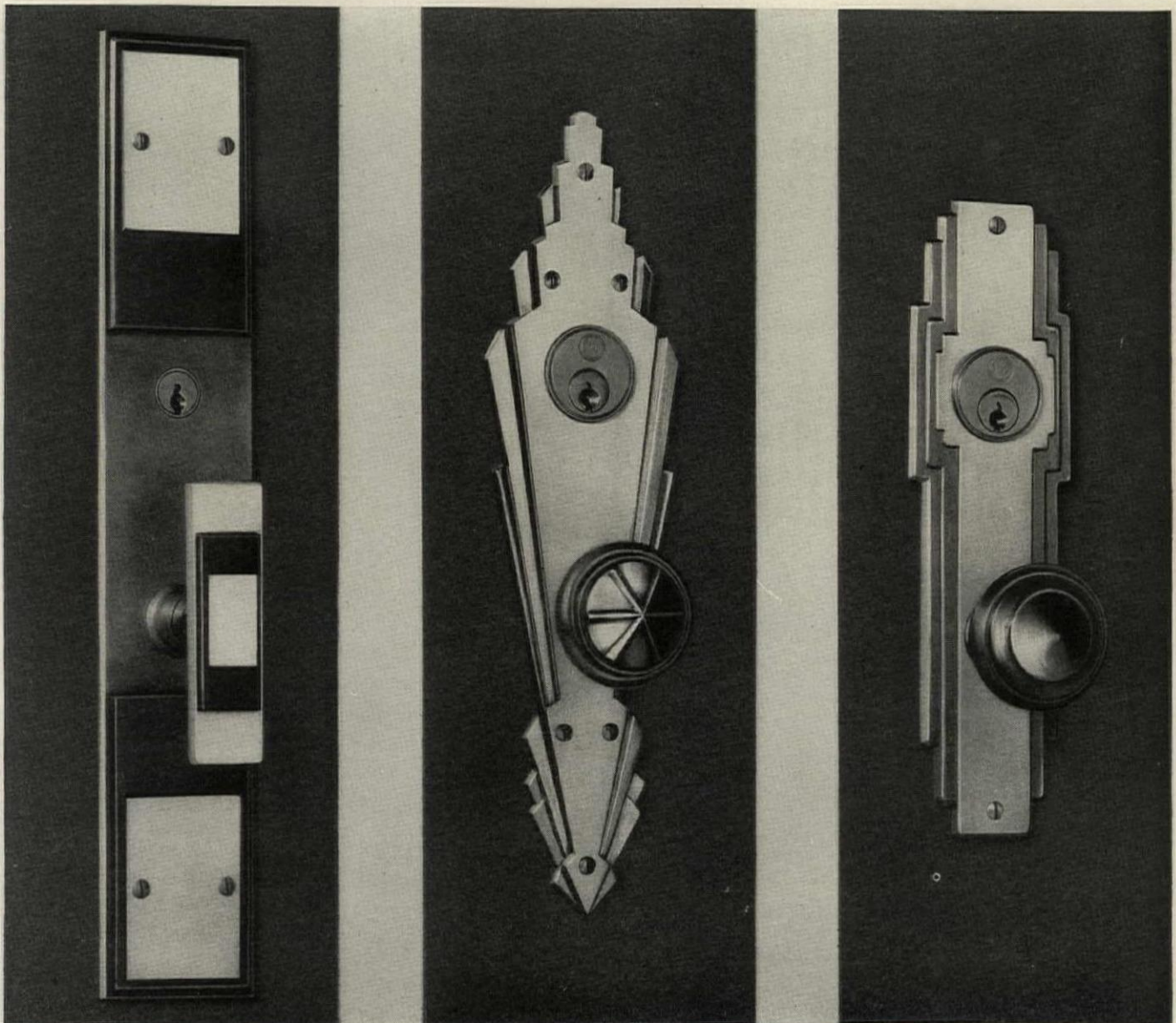
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... FINISHING HARDWARE

While decidedly modern, these new Penn designs express the intelligent moderation toward which the new school now is moving. In them we find a definite restraint — a greater stability . . . This modern trim has been added to the wide line of classic pieces which has made the name Penn synonymous with fine design in finishing hardware since 1877.

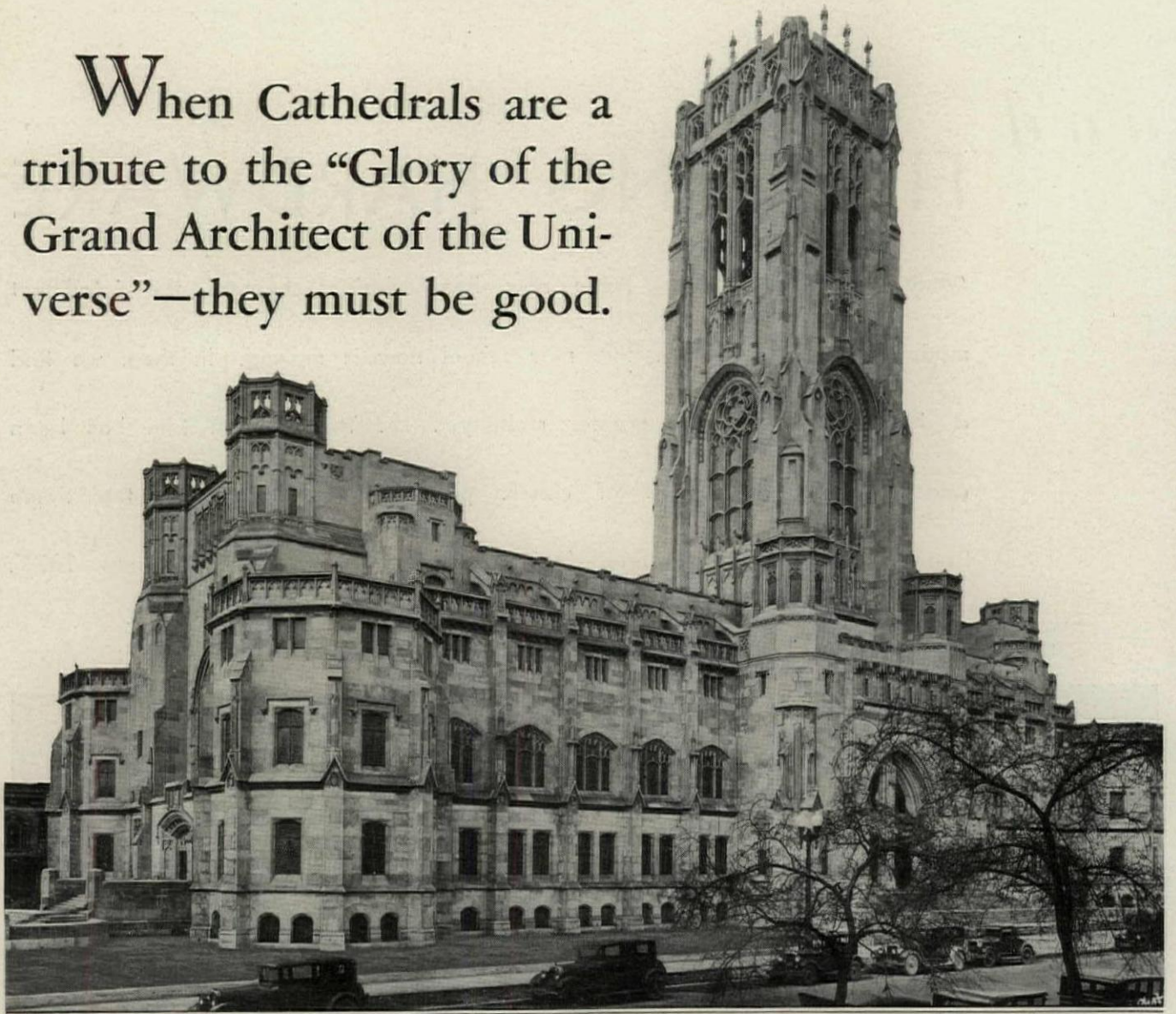
PENN-VILONA

PENN-VIGO

PENN-VINSON



When Cathedrals are a tribute to the "Glory of the Grand Architect of the Universe"—they must be good.



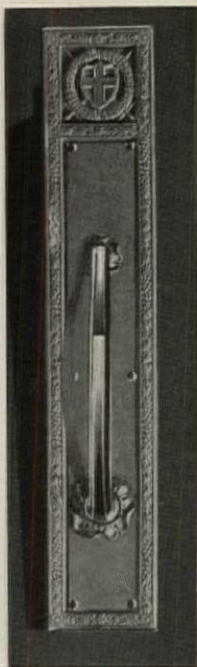
Good Buildings Deserve Good Hardware



SCOTTISH RITE CATHEDRAL

Valley of Indianapolis

Architect—George F. Schreiber—Indianapolis.
Contractors—The Hunkin-Conkey Construction Co. Cleveland, Ohio.



THREE thousand years ago, 184,600 men labored for seven years, expended over four billion dollars, and completed King Solomon's Temple. Needless to say this magnificent edifice, a tribute to the Grand Architect of the Universe, must have been a *good* building.

Down through the ages other fine temples and cathedrals owe their conception and construction to the Masonic Order. Today the newest and finest of these Cathedrals has just been completed at Indianapolis.

Like Solomon's Temple, this Cathedral is a *good* building. And so it is natural to expect, and to find, that beautiful doors have been made more beautiful by Good Hardware-Corbin. For throughout this fine example of Gothic architecture, *all* the hardware is Good Hardware-Corbin.

P. & F. CORBIN SINCE 1849 NEW BRITAIN, CONNECTICUT

The American Hardware Corp., Successor

New York

Philadelphia

Chicago



The ENGLISH COTTAGE *in* MODERN COLOR

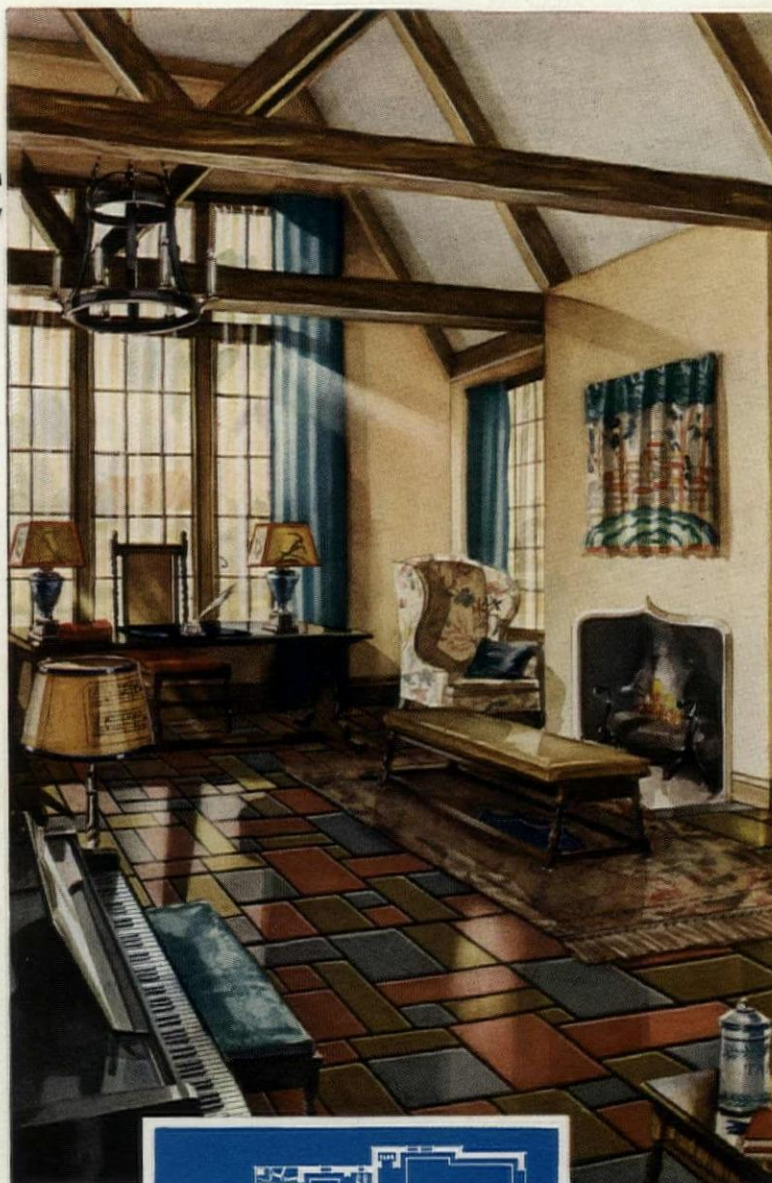


Austerity is relieved by color and design
in the Embossed Armstrong's
Linoleum Floor

PLAIN walls with ceilings structurally simple characterize the English cottage. Interesting, the effect, but lacking in vitality if based upon a plain floor—lacking in what this color-conscious day calls zest, pep, verve! First visualize the appearance of the room on this page with a plain monotone floor. Then compare with that picture, this other. Put a modern floor of colorful Armstrong's Linoleum in this room and notice the effect. No loss of the essential air of quaint countryside quiet—rather the emphasis of contrast.

No matter what interior effect you create, no matter what color scheme you carry out, you will find an Armstrong pattern admirably suited to your purpose. And your selection will be practical as well as decorative, for every Armstrong Floor is foot-easy, permanent, simple to care for—made spot-proof, stain-proof, worry-proof by the new Accolac Process, which produces a satin-smooth surface sealed against dirt with a tough nitro cellulose lacquer.

Let us send you a folder of complete linoleum information for your files. Ask for our new file-size specification book. You can also consult our specifications in the current



LIVING-ROOM AND PLAN OF FIRST FLOOR. ENGLISH COTTAGE BY ARCHITECT WILLIAM CLIFFORD, JR. THIS FLOOR IS ARMSTRONG'S LINOLEUM, NO. 6042.

Look for the
CIRCLE A
trade-mark on
the linoleum book



"The English cottage type of interior can meet the present American demand for color by the use of modern materials."

ROGER BULLARD, A. I. A.

edition of Sweet's Architectural Catalog. Ask for samples and colorplates of designs if you want them. Discover for yourself how much these modern floors offer you—in beauty, practicability, and economy. Address the Armstrong Cork Company, Floor Division, Lancaster, Pennsylvania.

Armstrong's Linoleum Floors

for every room in the house

PLAIN • • JASPÉ • • INLAID and EMBOSSED • • also ARMSTRONG'S LINOTILE AND CORK TILE

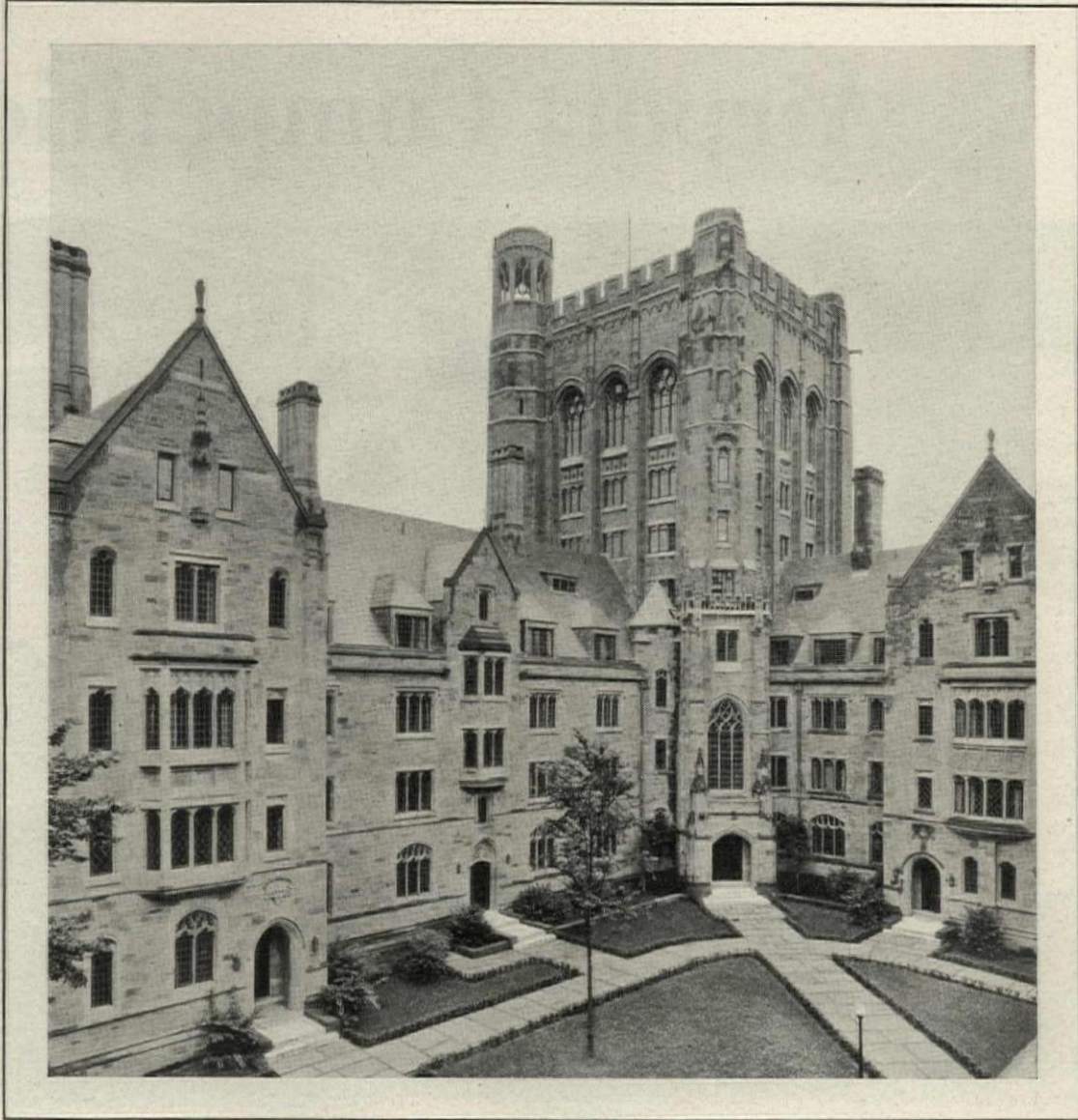
L U P T O N

A N N O U N C E S A N E W L I N E

ALUMINUM WINDOWS FOR FINE MONUMENTAL BUILDINGS

After experiments extending over several years, the Lupton organization is in a position to place a new type of window on the market. Lupton engineers have been working with the metal, aluminum; testing its toughness, its wearing qualities in various window-designs. Finally, they achieved their object: that of making a window with the strength of steel and the beauty of aluminum ■ Aluminum windows heighten the distinguished appearance of a monumental building. They can be buffed to a soft gray color that harmonizes, with dignity, with almost any type of building construction. The soft luster of polished aluminum against, say, limestone furnishes a pleasing and impressive contrast of materials. And, as aluminum is rust-proof, it has no up-keep cost ■ Lupton is now prepared to manufacture the Lupton Projected Casements in aluminum, as well as the standard steel. These window-designs you will find illustrated on pages A-1202 to A-1215 of your 1929 edition of Sweet's Catalog. From time to time, Lupton will announce additional window-designs, also available in aluminum. The nearest Lupton sales-representative will be glad to give you further details. Or write to David Lupton's Sons Company, 2207 East Allegheny Avenue, Philadelphia, Pa.

IN THE HEAVY-CASEMENT FIELD LUPTON IS THE STANDARD OF QUALITY



*Lupton Heavy Casements in the Bingham Hall Dormitories at Yale.
Walter B. Chambers, Architect. Sperry & Treat Co., Contractors.*

FOR YEARS, Lupton has been producing heavy-type steel casements, whose beauty of design has been matched by their superior usefulness. Their performance over these years has been completely satisfactory.

In the production of heavy casements, the craftsmanship of the individual plays an important part. So the highest skilled workmen in the Lupton plant are put on the heavy-casement jobs. These men have been carefully trained over a period of years. Their mature experience, combined with the finest tools, machinery and materials, has enabled the Lupton organization to fashion heavy casements beyond range of any substantial competition.

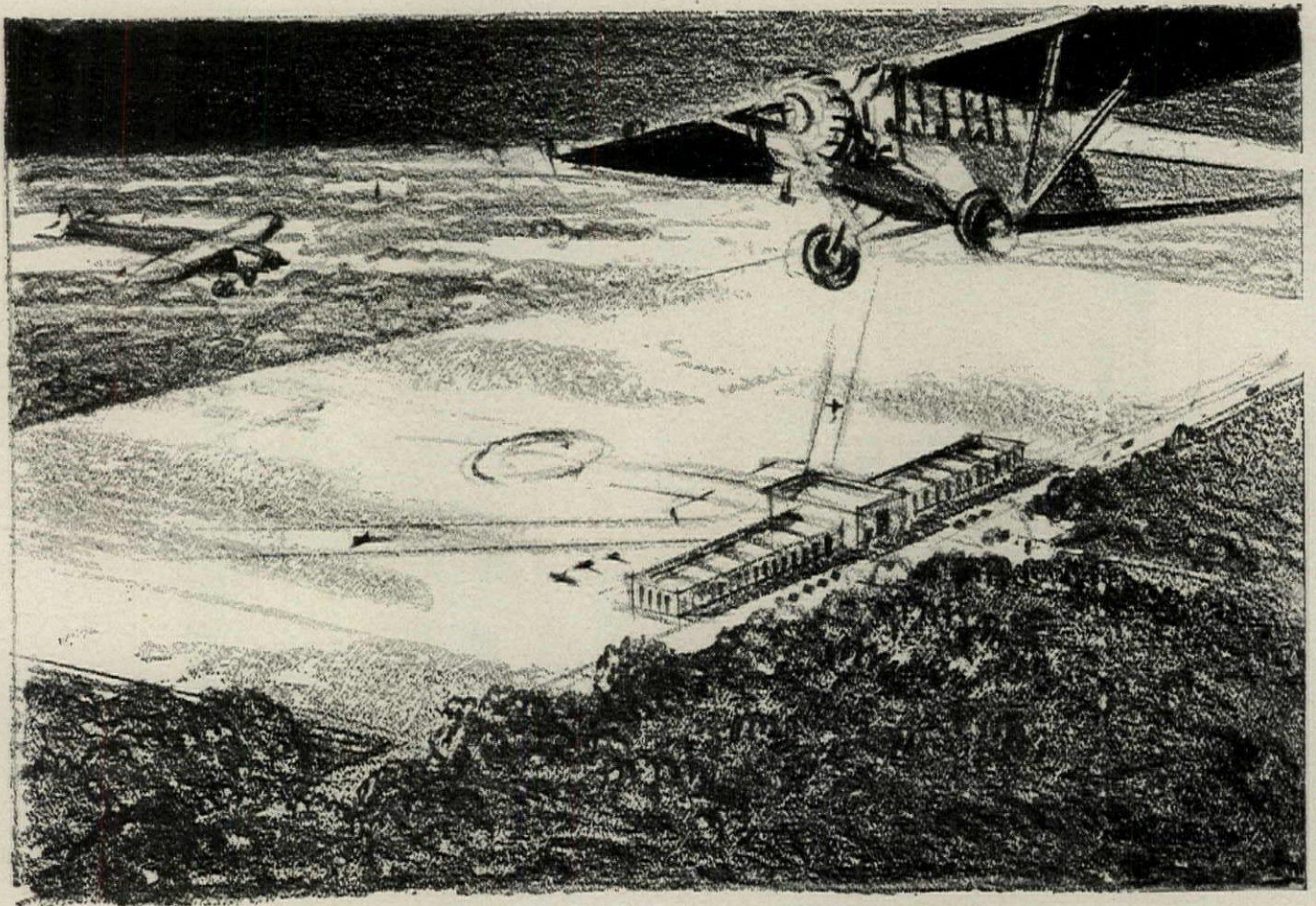
The quality of Lupton Heavy-Casement Windows has been recognized by the leading architects of the nation. These famous windows have been installed in the finest buildings in the country—public libraries, banks, club houses, first-class hotels and office buildings, schools, as well as buildings of a monumental type.

The complete details about Lupton Heavy Casements are right across the desk from you. Turn to page A-1193 of your current edition of *Sweet's* and review the facts. We will be glad to co-operate on your present building job by submitting tentative designs and finished drawings. David Lupton's Sons Co., 2207 East Allegheny Ave., Phila., Pa.

LUPTON

WHERE STEEL IS FUSED WITH SINCERITY

There is yet time to enter this National Airport Competition



Closing
November 18, 1929

Help solve the nation's air traffic problem by entering the Lehigh Airports Competition.

To the 25,000 planes traversing the country's air lanes, 10,000 will be added this year. The need of adequate airport facilities to care for this amazing traffic presents a problem of vast importance to America's industrial and civic development—and offers a unique opportunity to America's architects and engineers.

Authorities name \$250,000,000 as a conservative estimate of the cost of airport development during the past 12 months, and prophesy that more than double that amount will be expended for this purpose during the next two years. Wise employment of this enormous capital depends in the last analysis upon trained creative minds, with technical knowledge and experience competent to grasp and solve this modern problem.

As a first step, the Lehigh Portland Cement Company announced last April a competition for the design of a modern airport. This competition is open to every architect and engineer in the United States. The widespread and enthusiastic response received indicates that technical experts welcome this stimulus to sound thinking and to broader public interest in airport development.

And perhaps no competition has ever carried such important collateral value to the competitors. It will introduce to the aeronautics industry a general recognition of the importance of architects, engineers, and city planners in solving the essential ground problems of the world's newest mode of transportation.

Immediately upon the completion of the competition the Jury of Awards, consisting of the chairmen of the four sections of the Program Committee and other members selected by them, will judge each entry for excellence of design, practicability from an engineering and aeronautical standpoint, and ingenuity in developing the various structures and their disposition with respect to the landing area best to handle the air traffic of today and the immediate future.

Winning designs and those receiving honorable mention will be widely published for the guidance of national and local organizations interested in airport development.

All entries remain the property of the competitors and will be returned within at least one year after the completion of the competition.

There is yet time for you to prepare a well-considered contribution. Programs containing full details of the simple requirements of the competition have been widely mailed. If you have not received your copy, a wire to the Lehigh Portland Cement Company, Allentown, Pa., or Chicago, Ill., will bring you one by return mail.

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EARLY AMERICAN WROUGHT IRON

A REVIEW BY
ROBERT STUYVESANT HOOKER

ONE of the most encouraging details of modern building practice is the careful attention that is being given to the matter of choosing and designing hardware and metal fittings. It may be said, in fact, that in this respect we are in the midst of a renaissance of good taste in use of metalwork. In colonial times the

instinctive striving for beauty, coupled with use of primitive methods of manufacture, was instrumental in producing a class of work characterized by a simple, rugged beauty that has never been surpassed. But as time went on anvils and hammers used by skilled artisans gave way to machinery and quantity production methods, so that hand-wrought iron was largely superseded by the cheaper cast iron, and simple purity of design developed into

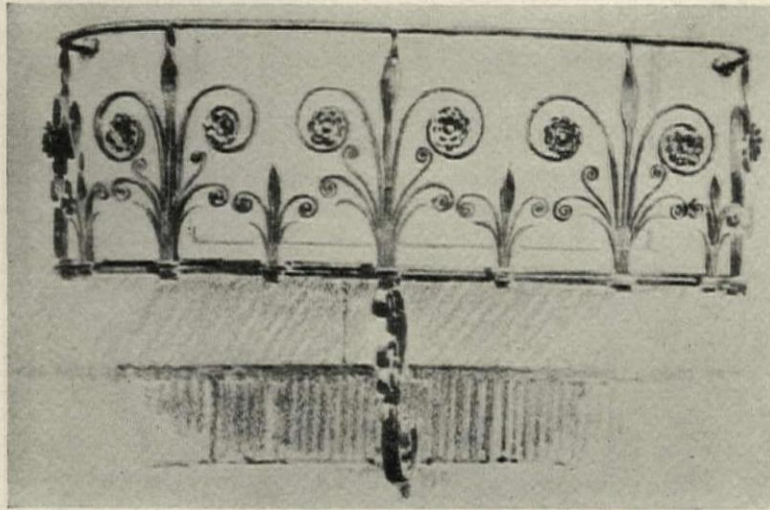
over-elaborate, florid motifs of no artistic value whatever. Recently, however, due to the revival of interest shown in many such things, there have been springing up about the country, studios and forges operated by earnest and skilled craftsmen to supply the demand for authentic reproductions as well as for original work in wrought iron. The greatness of the demand for such articles is most encouraging and leads one to hope that there will follow a very real and important development. From the standpoint of the architectural designer, too much care cannot be given to the use of hardware as ornamental and decorative features. The metalwork furnishes strong, contrasting notes that serve to lend snap and vividness to the subject, and its use may make or mar the effect sought.

The sources of reference on which to base a study of the early work in wrought iron are limited largely to the pieces themselves which because of their rugged construction and lasting qualities are still to be found in old buildings scattered here and there about America, as well as in private collections and public museums. As to the lives or even the identities of the early smiths who created these pieces, very little has come down to us, either in written and printed records or from any other source. Some slight idea of the way in which

they worked can be gained from the old shops with their anvils and forges, a few of which are still in existence, but as to the sources of design and the men themselves, nearly everything is left to conjecture and imagination.

Iron work began very early in the American colonies. Almost immediately, deposits of iron were discovered in

bogs and swamps, and it was this "bog iron," together with some imported metal, that was used largely during the early period. At first, of course, only the simplest and most necessary objects were made, and the design was governed almost entirely by utilitarian considerations. As living conditions became less severe and there was more leisure, ornamental work began to appear, and various degrees of refinement in design were



Balcony Railing, Colt Mansion, Bristol, R. I.
Illustration from "Early American Wrought Iron"

reached. Although this development was quite general in character, it is easy now to discover regional and national influences on the work found in the various sections. In the northern region the rigor of the climate and the struggle for existence permitted only use of the most simple and useful household fixtures and hardware. On the other hand, in the southern colonies where life was more tranquil and where the social and economic system gave rise to greater concentration of wealth, the life of the times is reflected in the design of elaborate wrought iron balconies, fences and entrance gates. The nationality of the colonists also had a marked effect on the design motifs, the predominating style being of course English, due to the predominance of English settlers. Other important national styles are the Dutch in New York and New Jersey; the French in New Orleans, and the German in Pennsylvania, while the Swedish influence is strong in Delaware and Maryland, as is the Spanish in some of the southern states. In a general way, it may be said that the four most important sources of material of this sort are New England, especially Connecticut; Pennsylvania; New Orleans; and Charleston.

The rapidity with which good examples of early wrought iron are disappearing, due largely to lack of

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appreciation and care on the part of their owners, has led Albert H. Sonn to spend several years in conducting an investigation of the subject and in making sketches of meritorious examples wherever they might be found, whether in museums, private collections, or in their original positions in old houses. In the latter case, Mr. Sonn has made much original investigation and has conducted something of a house-to-house canvas in search of interesting bits of early ironwork to be sketched and included in his three-volume work on the subject, entitled "Early American Wrought Iron." These volumes have recently been published and are very impressive in their physical proportions. Each volume is 10 by 13 inches and contains an average of about 240 pages, including very interesting introductory discussions and a complete bibliography. The main and most striking feature of the work is, of course, the plates, of which there are in all 320, taken from pencil drawings by the author. It is this reviewer's opinion that no more effective means could have been found for presenting the subject of wrought iron than that of pencil drawings, especially when they are as well made as these. Certainly, Mr. Sonn is a master of pencil technique, and his ability to express the distinctive character and ruggedness of wrought iron is positively uncanny. Another pleasing feature of these plates is the scale of the drawings. The large size of the pages permits many of the objects to be presented at almost full size, and all are of such generous proportions that none of the effectiveness of the wrought iron texture is lost. The plates in most instances contain drawings of several objects each, and it may be imagined what a wealth of material is pre-

sented in this way on the 320 plates. Opposite each plate is a printed description of each article shown, giving, wherever possible, its approximate date, the place where it was found, its size, and other important details. In many cases the author points out important features of the designs and discusses interesting incidents or facts.

Volume I is devoted almost entirely to early American door hardware, with particular reference to door latches and their development from the crude wooden latches, through the various styles of wrought iron latches to the latch-lock combinations, several examples of which are presented for the purpose of showing how latches developed into the more modern locks. The wooden forerunners of wrought iron door knockers developed into the interesting (though quite rare) combination known as the "knocker latch." There are also some sketches of the ingenious escutcheon lift latches, a few examples of which have been found in this country. Then there are innumerable examples of Suffolk and Norfolk latches in all the variations of the popular arrowhead, ball and spear, bean, swordfish, tulip and heart designs which were so popular in early times.

Volume II is also concerned with door hardware, with special reference to such pieces as hinges and bolts and with many sketches of the doors themselves, showing the hardware in place. Here again a wide variety of designs are shown, the most important being cockshead, H and H L hinges, butterfly, serpentine and strap hinges. Several plates devoted to fittings taken from the quaint Conestoga wagons of the early German settlers in Pennsylvania and catches, hinges and straps from old chests and sea chests, contain much interesting

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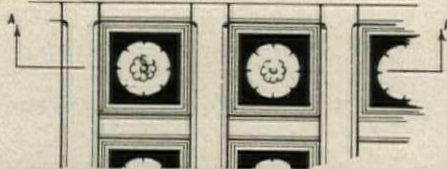
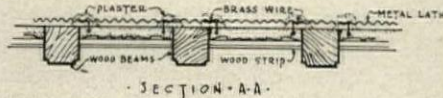
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and valuable material. Volume III presents a greater variety of objects and is of the greatest interest from the architectural point of view. Here are shown elaborately designed wrought iron balconies and braces, railings and newels, gates and grilles from all parts of the country, notably from Charleston and New Orleans. The quaint, old world charm of both these places is due in no small measure to the effect of their elaborate iron balconies, fences and gates, and the author presents sketches of well chosen examples from both cities as well as of some very beautiful gates and balconies from Virginia, New England, Philadelphia and other places. They afford a wealth of material of the greatest interest.

Weather vanes, perhaps the most conspicuous of all ornamental metalwork, present an insistent demand for careful design. Many amusing as well as beautiful vanes were fashioned by the early craftsmen, the design motifs being often taken from familiar objects of everyday life. Thus we have vanes portraying ships, Indians, cockerels, arrows, quills and fishes as well as the dated and pennant types. Wall stays and numerals were often used in early buildings, both for structural and ornamen-

tal purposes, and the practice is still continued where it is felt that some contrasting touch is needed to break up the monotony of a broad wall surface. The stays and numerals sketched in plates devoted to that type of object afford some very good precedent for this kind of work. The lowly foot scraper has been deemed worthy of consideration by the author, and with good reason, for a scraper adapted from one of the many quaint and graceful designs shown here might very well add a pleasing touch of welcome to the entrance of any modern house. Again the author has made a good and varied selection, and presents sketches of a number of shutter catches found on old houses. Fireplaces, which form such an important feature in all interior schemes, afford a good background for the use of ornamental metalwork, of which andirons are the most effective and decorative features. These, together with the other fittings and accessories usually found about fireplaces, form the subject of several very interesting plate pages.

EARLY AMERICAN WROUGHT IRON. By Albert H. Sonn. 3 Volumes, 730 pp., including plates. 10x15 inches. Price, \$35. Charles Scribner's Sons, 597 Fifth Avenue, New York.

RECENT ENGLISH DOMESTIC ARCHITECTURE

A REVIEW BY
DOUGLAS WILLIAMS

IN December, 1928 there appeared an issue of the well known English publication *The Architectural Review*, part of the contents of which attracted such widespread interest and created such an instant demand that within a fortnight the issue was out of print, and it became impossible to obtain a copy of the much coveted number at any price. The continued demand for this issue led the publishers to decide to republish part of the material in the form of a volume, presenting all the plate illustrations exactly as they appeared in the original periodical and omitting only the usual magazine articles. The result of this determination on the part of the publishers to make these valuable plates available to the architectural profession has resulted in a volume which is fittingly entitled "Recent English Domestic Architecture," since it presents examples of houses built more or less recently in a wide variety of styles, ranging from designs in the early Tudor manner to the most extreme modernistic types of which the conservative British are capable, even in this day of advanced designing.

A feature of the work is the orderly manner in which the various examples are arranged in chronological sequence, depending on the historical style which influenced the designing of each. Starting with houses built in the Tudor manner, as one turns the pages one comes successively on the Jacobean and Georgian, and finally to those experiments in modernism reflecting the continental influence. Although the houses are all modern, comparatively few are "modernistic," and the architects of those which do come under this classification have evidently been very slow to take up the new style of architectural design which has become so popular in France and certain other European countries, and there are in England only a very few isolated experiments in this type of work. The examples shown in the present book occur almost entirely at Silver End, Essex, and are the work of Thomas Stail of the firm of Sir John Burnet & Partners. These houses are designed in a modified

version of the work of Le Corbusier, with flat roofs, and blank, white wall spaces relieved here and there by window or door openings of unusual proportions. The plans of these houses are not at all unusual, and the whole treatment is handled in such a way as not to shock too much the easy-going and slow-moving British public. As is to be expected, the present-day English architects have been most successful in designing buildings in the Tudor, Jacobean and Georgian styles.

In many instances the buildings here shown are additions to old houses, or else a structure is built about a fragment of some old manor house as a nucleus. American architects will profit much from a careful study of the way in which British architects have adapted the ancient native precedents to their modern buildings. In the matter of plans we might perhaps discover some features which are not entirely satisfactory from the American point of view; for instance, in many of the larger houses it is quite noticeable that dining rooms and kitchens lie in widely separated portions of the buildings; in many cases from 50 to 100 feet of corridors separate the two. While this feature is no doubt desirable from a standpoint of preventing noise and odors, it would hardly be beneficial in helping to solve the American servant problem. There is also a very noticeable scarcity of bathrooms as compared to the number usual in American houses, there seldom being more than two or three even in the largest houses, some of which have as many as 15 or 20 bedrooms. On the other hand, the general practice of placing the water closet in a room separate from the bath has obvious advantages and is worthy of consideration by American architects. As is highly desirable from the architect's point of view, all the exteriors shown are accompanied by reproductions of the plans of the houses illustrated as well as by some data.

RECENT ENGLISH DOMESTIC ARCHITECTURE. 104 pp. 11 x 13½ ins. Price 15s Net. The Architectural Press, 9 Queen Anne's Gate, Westminster. Orders to be sent directly to publishers.

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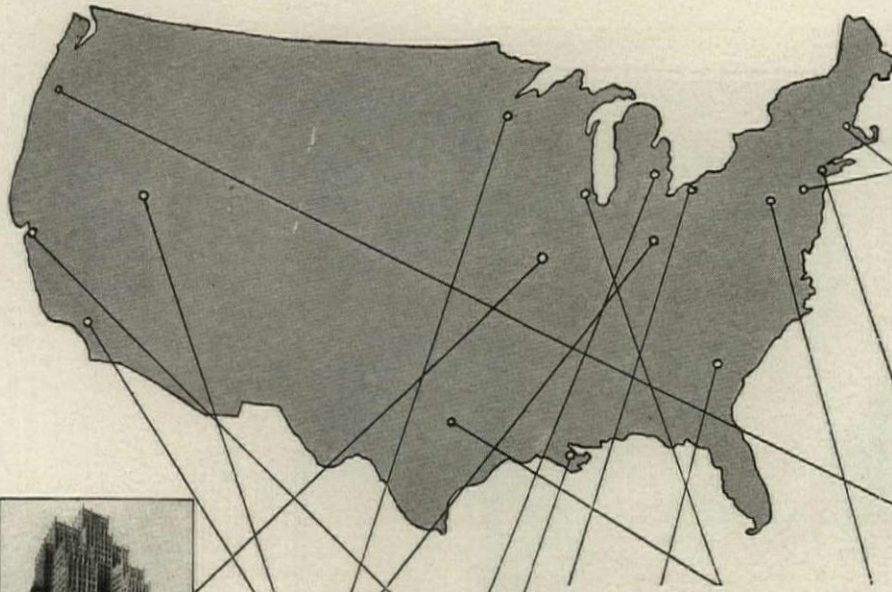
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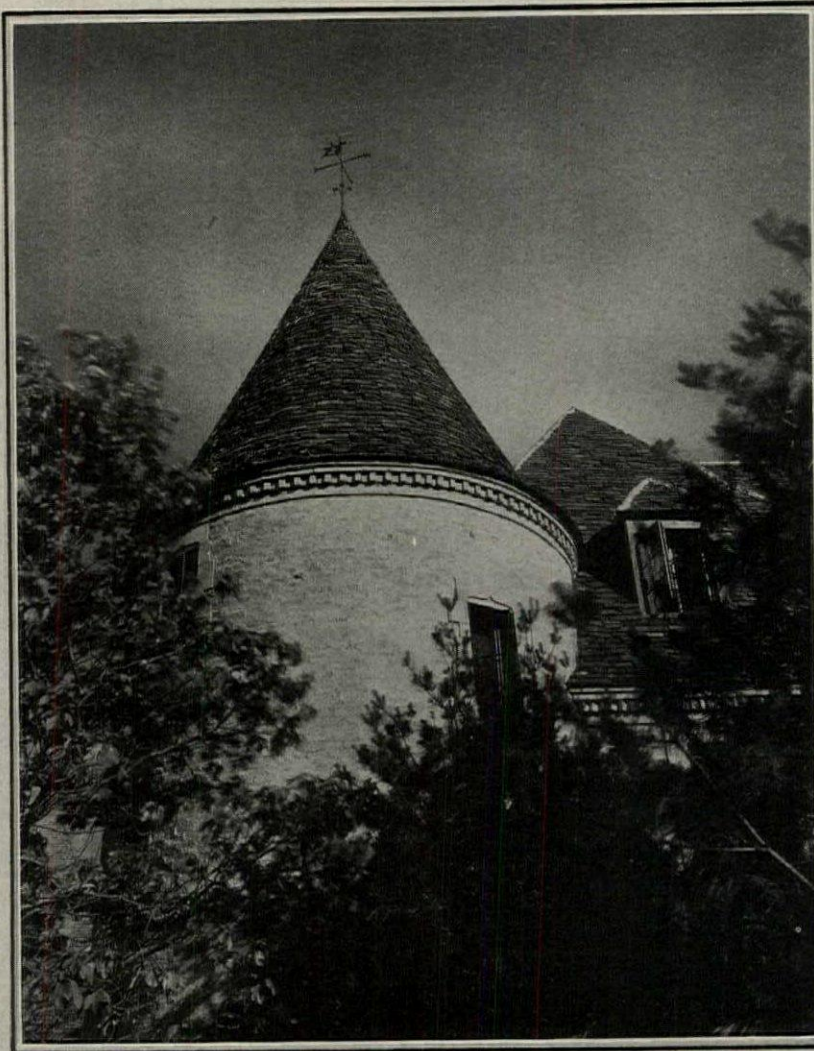
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THE EDITOR'S FORUM

OLD TAPESTRY IN BOSTON MUSEUM

THROUGH the generosity of Robert Treat Paine, 2nd, the Boston Museum of Fine Arts has lately been enriched by a splendid example of late fifteenth century tapestry. While abroad this summer, Mr. Paine purchased the tapestry from Knole House, in Kent, probably the most perfect surviving example of domestic architecture of Tudor England. For more than 400 years the tapestry has hung in the chapel of this famous baronial residence, having been brought to Knole early in the sixteenth century by Archbishop Wareham, then its owner. Like all great houses of early England, Knole House was built in successive stages. Since 1586 it has been in possession of the Sackville family, to whom it passed through gift by Queen Elizabeth to her cousin, Thomas Sackville. According to tradition there are seven courts, 52 staircases, and 365 rooms, the rooms with the exception of the great halls, being small, hospitable, and essentially livable.

The splendid Gothic tapestry, which has after so many centuries left this house for the Boston Museum, measures 29 feet long and 13 feet high. It was woven about 1490, possibly for a cathedral, from which it may have passed into the hands of Archbishop Wareham. This seems possible, since the composition of the tapestry is such as to suggest that the original design included other scenes which may have been cut off at the time the tapestry was installed at Knole between the years of 1503 and 1532, when Archbishop Wareham was in residence there. In the tapestry there are represented six scenes from the Passion depicting the trial and suffering of Christ at the hands of Pilate, Herod, and the populace on the day of the crucifixion. The figures are clad in mediæval costumes of the closing years of the fifteenth century, and each scene is framed in a contemporary architectural design. That the tapestry is from the hand of a very great designer is evident from the drawing and arrangement of the several parts as well from the splendid unified ensemble. While the artist is as yet unidentified, a clue exists in the similarity of the designs of this tapestry and those of the more fragmentary Passion tapestry of St. Maurice, Angers, which is attributed to the much discussed designer, Jean van Roome, and to the no less celebrated Brussels weaver, Pieter van Aelst.

Comparatively few great religious tapestries have survived from so early a date as the Knole tapestry, but many were doubtless woven for cathedrals and chapels, just as many historical and allegorical tapestries were woven for the great halls, and domestic and intimate hangings produced for the retiring

rooms of the mediæval houses. The Knole tapestry is one of the great hangings surviving from the Gothic period. It comes to the Boston Museum in an unusually fine state of preservation, with no patching and practically no darning. Its beautiful colors, quite characteristic of Gothic weavings of the late fifteenth century, are rich and uniformly faded.

THE INSTITUTE STUDIES PLAYGROUNDS

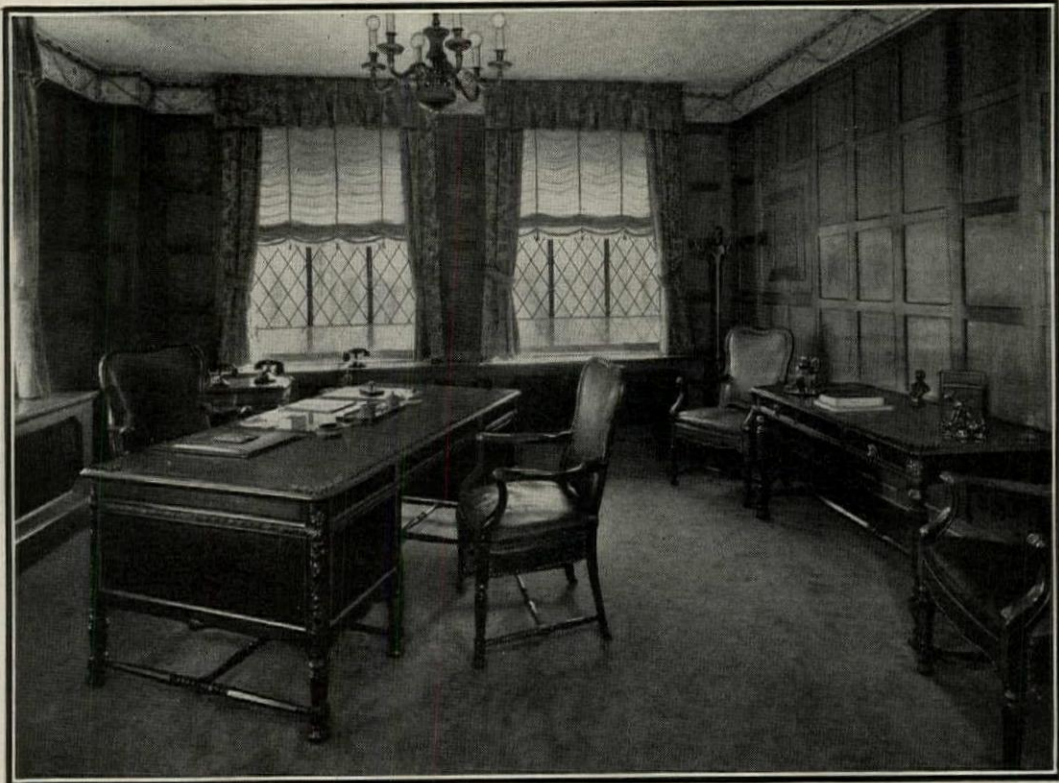
THE American Institute of Architects, through its City and Regional Planning Committee, announces the formulation of plans for aiding the improvement and maintenance of school playgrounds. Charles H. Cheney, the chairman of the Committee, says: "The cost of maintaining playgrounds is a problem which most cities find difficult. Development of playgrounds might naturally be expected of the school boards, which have the responsibility of training the children's minds, and which, in some states, at least, must also provide them with physical education; but in no city are school budgets sufficient to do the playground work necessary outside of school hours or to keep playgrounds open in summer. Hence it is common practice for cities to have a separate playground department for play activities. Sometimes this department is placed under the park board, and sometimes under a separate playground commission. To carry on its work, the budget of the city council provides as much or even more money than the physical education department of the school budget.

"As these play activities of both city department and school department are for children in the same neighborhood, it is decidedly uneconomical to provide separate playgrounds, toilets and field houses for the city department when school buildings, toilets and school grounds already exist. In recent years a coöperative plan between the city council and the school board has been worked out in a considerable number of cities, whereby they join together, each paying half the expense of a good superintendent of playgrounds and physical education combined. He organizes the physical training in the schools, during school hours, and supervises playgrounds outside of school hours, and on holidays, Sundays and vacations throughout the year.

"Oakland, California, has developed the most efficient system along this line in the west, and is probably the leader in America. Over 50 school playgrounds are fenced, equipped and supervised for play after school hours, and maintained every day.

"The work of the Institute will include the study of enclosing and screening playgrounds and other improvement in ways likely to render them desirable instead of detrimental to their several neighborhoods."

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A "CLEMCO" Da Vinci Suite in the private office of Mr. Bulova, President, Bulova Watch Company, Empire Trust Building, New York. Installation made by Flint & Horner Company, Inc., New York.

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THE ARCHITECTURAL FORUM

VOLUME LI

OCTOBER 1929

CONTENTS

PART ONE—ARCHITECTURAL DESIGN

Cover Design: A Modern House on the Rue Nansouty, Paris <i>From a Water Color by Edward A. Batt</i>	Lincoln School for Nurses, New York <i>Pennington & Lewis</i>	118-120
The Editor's Forum	LETTERPRESS	Author Page
Building for N. W. Ayer & Son, Inc., Philadelphia <i>Frontispiece</i> <i>From a Water Color by Norman C. Reeves</i>	The Ayer Building, Philadelphia <i>Ralph B. Bencker</i>	433
PLATE ILLUSTRATIONS	Architect	Plate
Building for N. W. Ayer & Son, Inc., Philadelphia <i>Ralph B. Bencker</i>	97-112	Rockland County Court House, New City, N. Y. 473
Third Church of Christ, Scientist, Detroit <i>George D. Mason & Co.</i>	113, 114	Some Pories of the Eleventh and Twelfth Centuries <i>Milton D. Lowenstein</i>
Presbyterian Church of the Redeemer, Detroit <i>George D. Mason & Co.</i>	115-117	Three Norwegian Log Houses 485
		Three Gardens at Grosse Pointe, Mich. <i>Anne Lee</i> 505
		Baldwin Locomotive Works Office Building 513
		Restoration of "Kenwood," A Regency House 519

PART TWO—ARCHITECTURAL ENGINEERING AND BUSINESS

Stone, Steel and Scaffold <i>Frontispiece</i> <i>From a Photograph by George H. Van Anda</i>	The Building Situation	542
LETTERPRESS	Author	Page
Cold Storage Warehouses <i>Carl de Moll</i>	529	Electrical Wiring Layouts for Office Buildings <i>Nelson C. Ross</i>
Infiltration and the Heating Problem <i>P. E. Fansler</i>	535	Modern Tendencies in the Use of Marble <i>Clifford Wayne Spencer</i>
		The Supervision of Construction Operations <i>Wilfred W. Beach</i>

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FLOOD IN BANK

*....rips linoleum from floor
tears veneer from table....*

TELESCO PARTITION PRACTICALLY UNSCATHED

A FEW weeks ago, on a Sunday, a bursting water main precipitated tons of water into the Director's Room in the Bank of Yorktown, New York City. For practically an entire day the room stood in 2 feet of water. After the water was pumped out, here is what they found:

1. *The linoleum had been ripped clear off the floor and had been floating in the room.*
2. *On the expensive Director's Table in the center of the room, the veneer had been torn away.*
3. *On a coupon booth just outside the room, the finish of the wood was utterly ruined.*

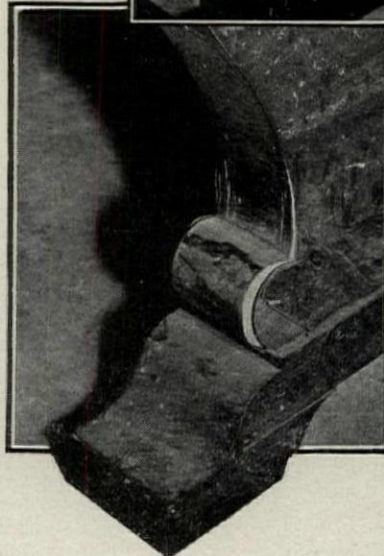
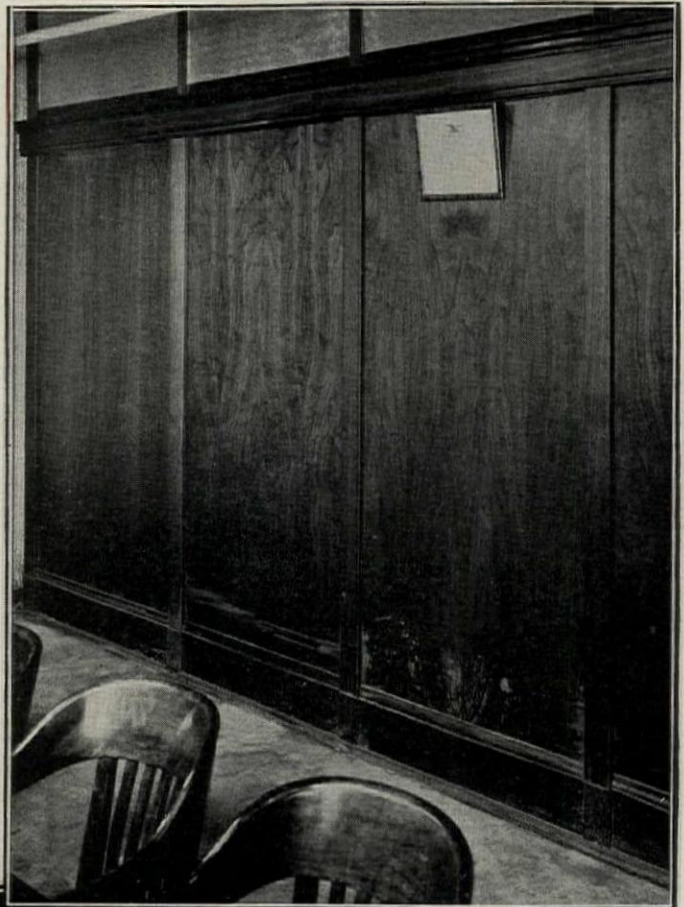
With such havoc around it, you would expect the partition to be a total loss. You might expect it to collapse from the water pressure. Certainly its finish must be destroyed. But as a matter of fact the partition was practically unscathed. For it was Telesco Partition. Its beautiful walnut finish was unharmed, thanks to the exclusive lacquer used. The partition was as rigid as ever except at one point where shelves of stationery stored behind it came tumbling down against it! "We were amazed," writes Mr. J. O'Brien, vice-president of the bank, "at the remarkably fine appearance of the Telesco Partition in contrast to the other equipment in the room!"

Put Telesco under any test... for durability of finish, for ease of erection, for movability, for *real* economy... and its practicability will amaze you; just as its beauty, in luxurious American Walnut or African Mahogany, will impress the most exacting tenants.

HENRY KLEIN & CO., INC.

with which are consolidated Improved Office Partition Co. and Driwood Corp. (Est. 1909)
Display Rooms and General Sales Office:
Dept. A—40-46 West 23rd St., New York.
Branch Offices in
Detroit, Philadelphia and Pittsburgh
Factory: Elmhurst, N. Y.

Telesco Partition
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IT TELESCOPES

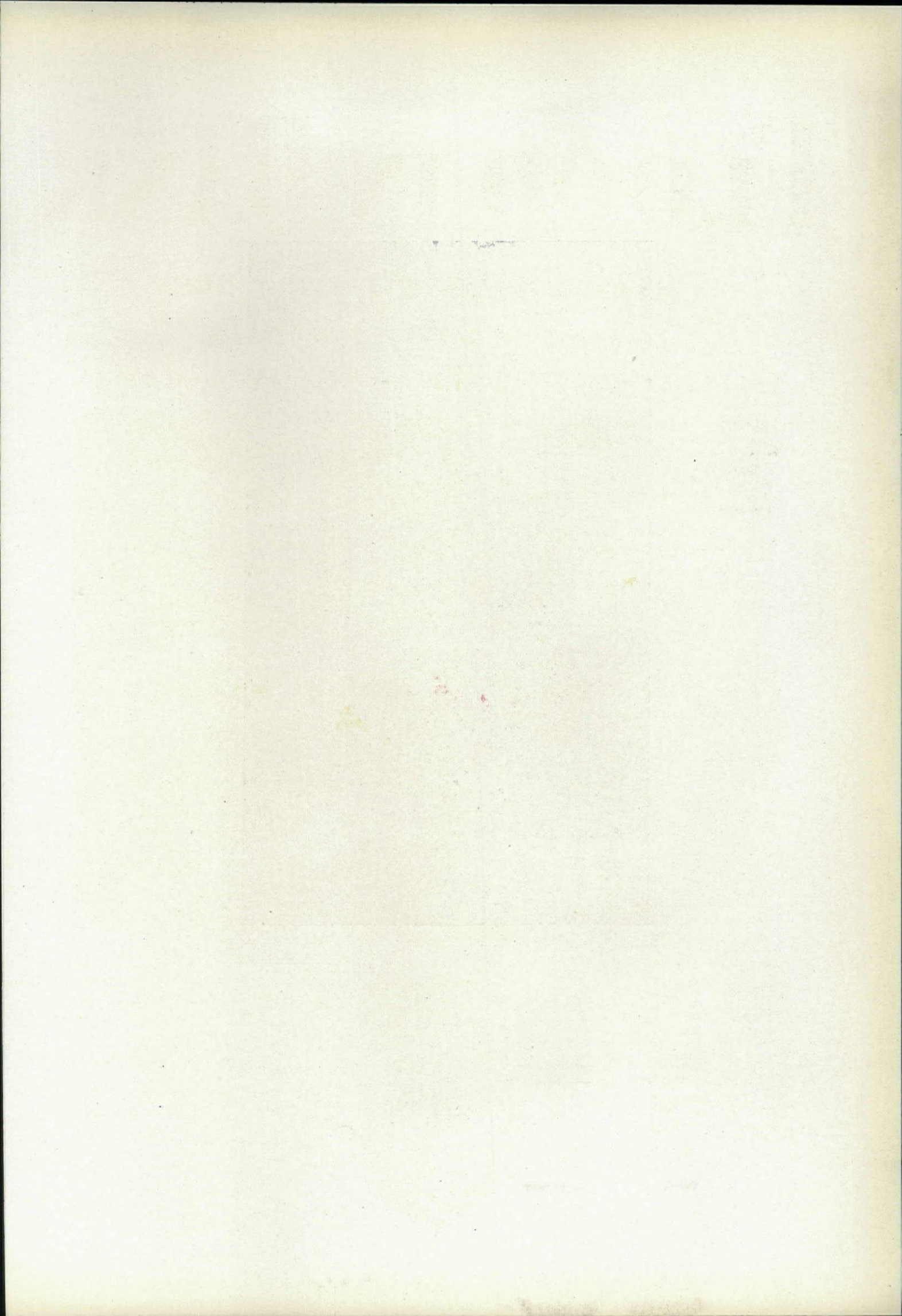


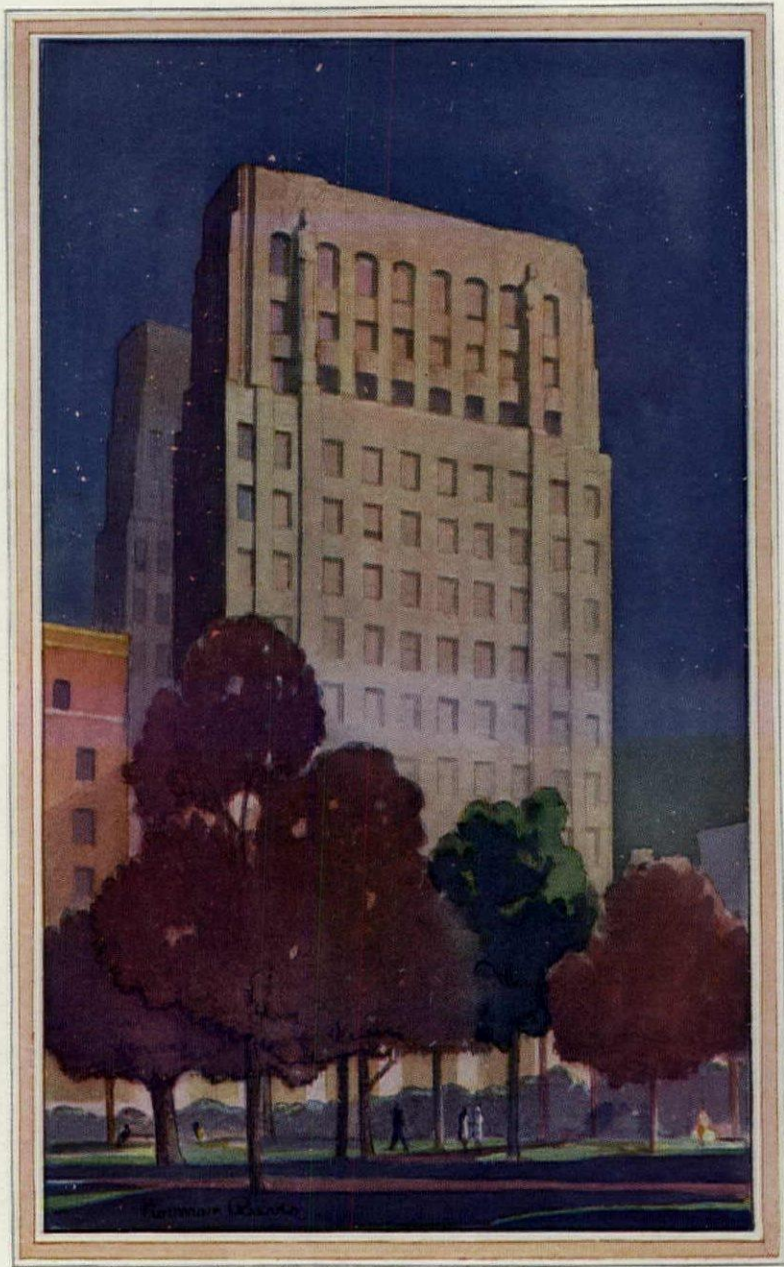
AFTER THE FLOOD

(Photos shown were not retouched)
Above: Telesco Partition, unharmed.
At left: Leg of Director's Table, showing how veneer had been ripped away.

An Invitation

Just off Fifth Avenue, at 40-46 West 23rd St., Henry Klein & Co., Inc. has opened a huge store. Here you will find beautiful examples of paneled rooms for office and home... as well as model offices displaying the use of various types of Telesco Partition. We invite you to come in... for it is a veritable architectural exposition of craftsmanship in wood.





BUILDING FOR N. W. AYER & SON, INC., PHILADELPHIA

RALPH B. BENCKER, ARCHITECT

From a Water Color Drawing by Norman C. Reeves

The Architectural Forum

THE ARCHITECTURAL FORUM

VOLUME LI

NUMBER FOUR

OCTOBER 1929



THE AYER BUILDING, PHILADELPHIA

BY

RALPH B. BENCKER, ARCHITECT

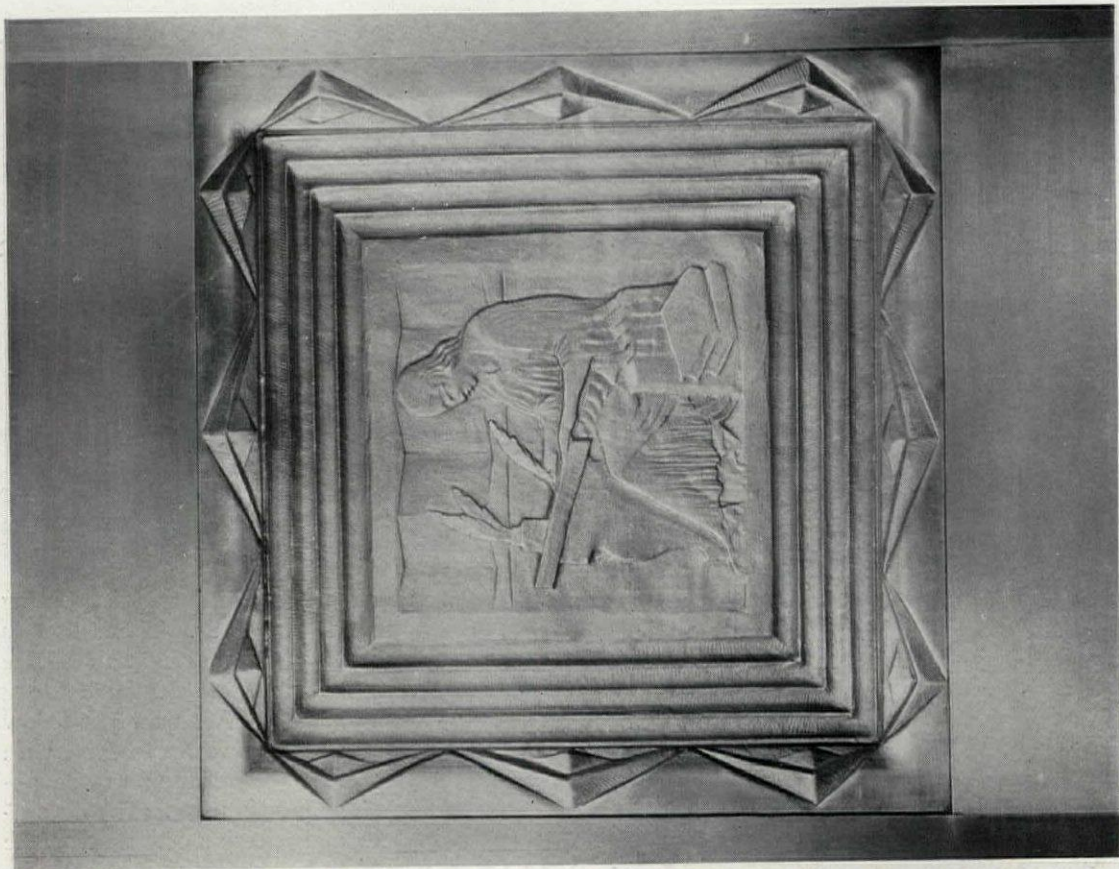
N. W. AYER & SON, INC., had looked forward for several years to the time when they would erect a building to properly house their large advertising organization. They had decided, before they engaged their architect, that the design of this structure should not follow any of the established styles of architecture. In an early discussion with me they expressed a desire for a building with all the beauty and dignity of the Lincoln Memorial, but of a design forward-looking, and of the present day. The problem, then, was not to build a monument, but to create an efficient and appropriate structure of simplicity and beauty as a home for the creation of advertising. Together we undertook this work, realizing fully the great opportunity that the problem offered, and realizing also the great responsibility that was placed upon us.

The building of N. W. Ayer & Son, Inc., faces east and overlooks historic Washington Square which was laid out as a park by William Penn. Diagonally across the way is Independence Square, with the old Pennsylvania State House, home of the Liberty Bell, and directly to the rear is the Morris house, dating from the early days of the country. We endeavored to create a design which, while new, would bring no jarring note to this old section of Philadelphia. The exterior of the building is a simple shaft, 13 stories high, of "shot sawed" buff and variegated Indiana limestone, with the three upper stories set back to give a receding, graceful silhouette. The first ten stories measure on the outer walls 103 by 115 feet, with a floor area each of approximately 9,000 square feet after space is deducted for light wells, elevators and stairways. Starting at the line of the setback, flanking each elevation, are two pylons growing out of the strength of the lower masonry, terminating in figures of "Truth,"

representing the advertising business distributing information to the four winds. These figures were studied to play by form and light and shade interestingly with the silhouette of the building formed by the corner piers. The spandrels below the uppermost arched windows are carved with figures symbolizing the organization of the advertising agency. The motifs used in the decoration of the interior and exterior of the structure were taken from fundamentals of the advertising business; they are the human figure, symbolizing the creative mind, and the figure of Truth; the open book as the vehicle of advertising; and the winged bird as the messenger, symbolizing the widespread power of advertising.

The main entrance to the building fronts the Square, and is in the center of the facade through a bronze and marble vestibule. In the frieze over the doors are two open books with figures representing Truth. In the center is the Sun, the source of inspiration, illuminating two seated figures representing the Executives, supporting one side of the books; on the other side are figures representing "Art" and "Writing." At each end are two figures representing "Youth." The doors are formed with panels modeled in low relief, symbolizing the activities of the various departments of the business of the agency. Directly above the entrance, and centering on the large windows facing the east side of the building, are three panels carved to represent interesting features having to do with the history of the N. W. Ayer & Son organization: the first, the plow; the middle panel, the lamp; and the north panel, the future.

The lobby, with its towering height extending through two stories, has its long axis north and south, with walls of unusually interesting rusticated limestone. To the south of the lobby are three galleries for exhibitions of art and other forms



CARVING IN LOBBY
BUILDING FOR N. W. AYER & SON, INC., PHILADELPHIA
RALPH B. BENCKER, ARCHITECT



PANEL ON ELEVATOR DOOR

Photos. Charles Ogle



Photo. W. H. Hoodt

MAIN FACADE
BUILDING FOR N. W. AYER & SON, INC., PHILADELPHIA
RALPH B. BENCKER, ARCHITECT



Photo. Charles Ogle

MAIN ENTRANCE DOOR
BUILDING FOR N. W. AYER & SON, INC., PHILADELPHIA
RALPH B. BENCKER, ARCHITECT

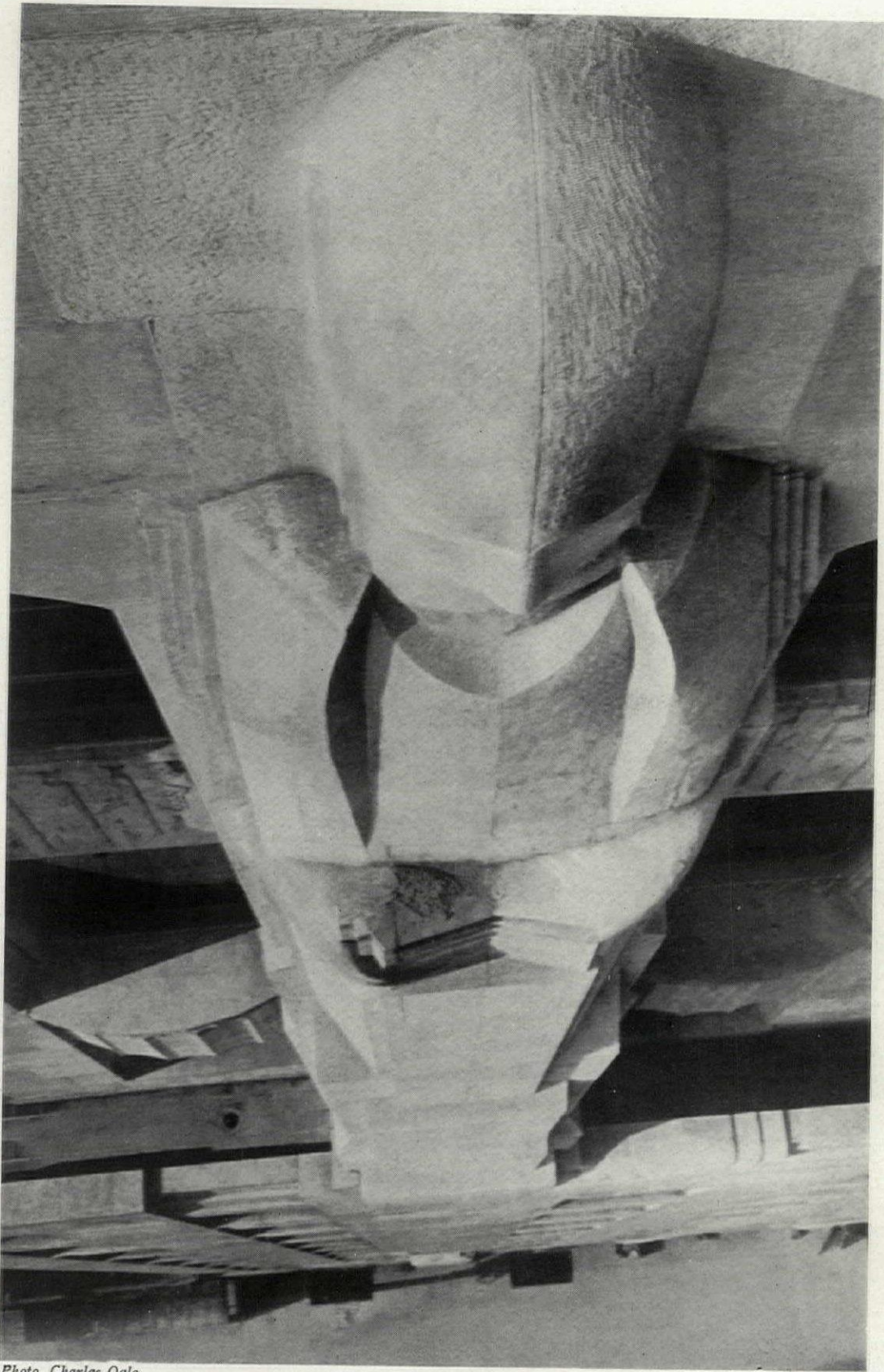


Photo. Charles Ogle

DETAIL OF FIGURE FROM TOP OF BUILDING
BUILDING FOR N. W. AYER & SON, INC., PHILADELPHIA
RALPH B. BENCKER, ARCHITECT

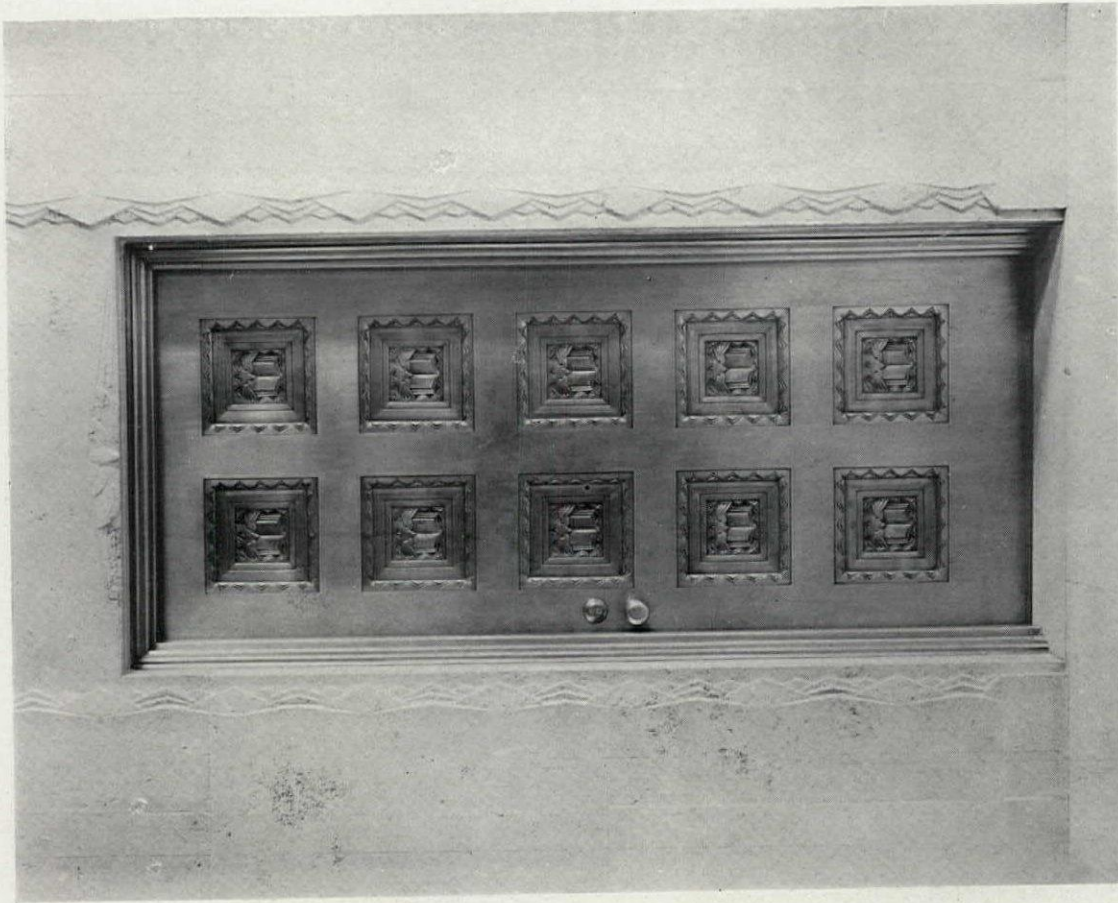


Photo. Charles Ogle
DOOR FROM ELEVATOR LOBBY
BUILDING FOR N. W. AYER & SON, INC., PHILADELPHIA
RALPH B. BENCKER, ARCHITECT

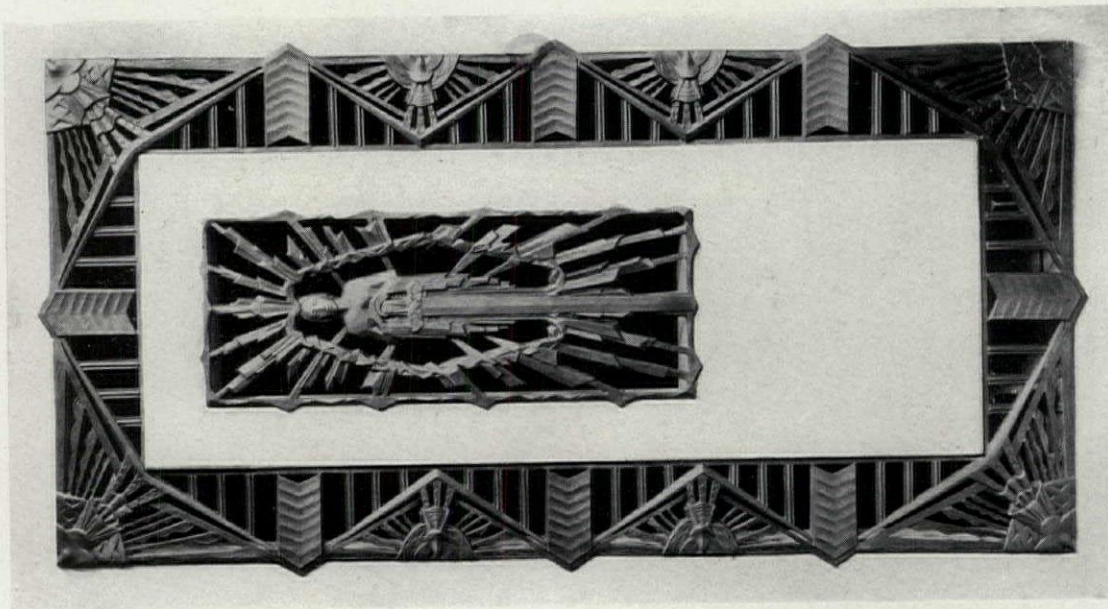


Photo. Sigurd Fischer
RADIATOR ENCLOSURE, MAIN LOBBY

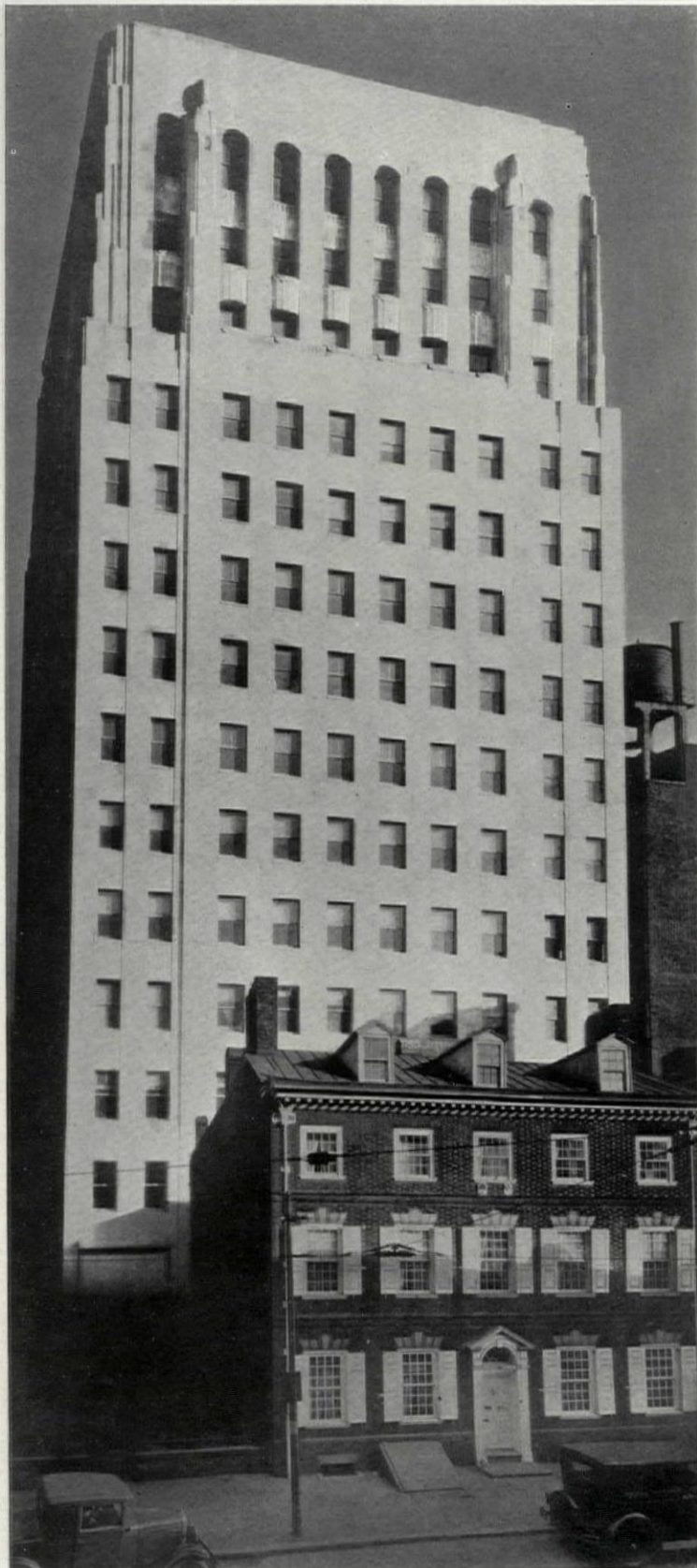


Photo. Charles Ogle

BUILDING FOR N. W. AYER & SON, INC., PHILADELPHIA
RALPH B. BENCKER, ARCHITECT

of the work which has to do with advertising. The walls are of texture fabric with paneling in walnut. The main gallery has walls of a soft gray-green fabric with three painted horizontal bands of receding black, extending into the dull blue of the curved ceiling lines above. When seen through the stone opening from the lobby, this gallery adds a charming color note to the lobby setting.

On the west side of the main lobby, directly opposite the entrance, is the elevator lobby with its walls of soft colored limestone, topped off with an indirect light cove, in which are used cast glass inserts which produce an interesting effect in that they eliminate the hard, dark line which is usual in indirect lighting coves. The cast glass is below the top line of the cove member, and by its faceted sides it diffuses the light rays directly below and above, and softly blends the light above the cove with the walls below. Between the main entrance hall and elevator lobby there is a pierced limestone grille carved in design which shows rays, as of light, radiating from the emblem of N. W. Ayer & Son to various races of the globe. This grille, when seen from the entrance hall or from the elevator lobby presents an interesting decoration because of the play of light, since one side has indirect light, the other direct light.

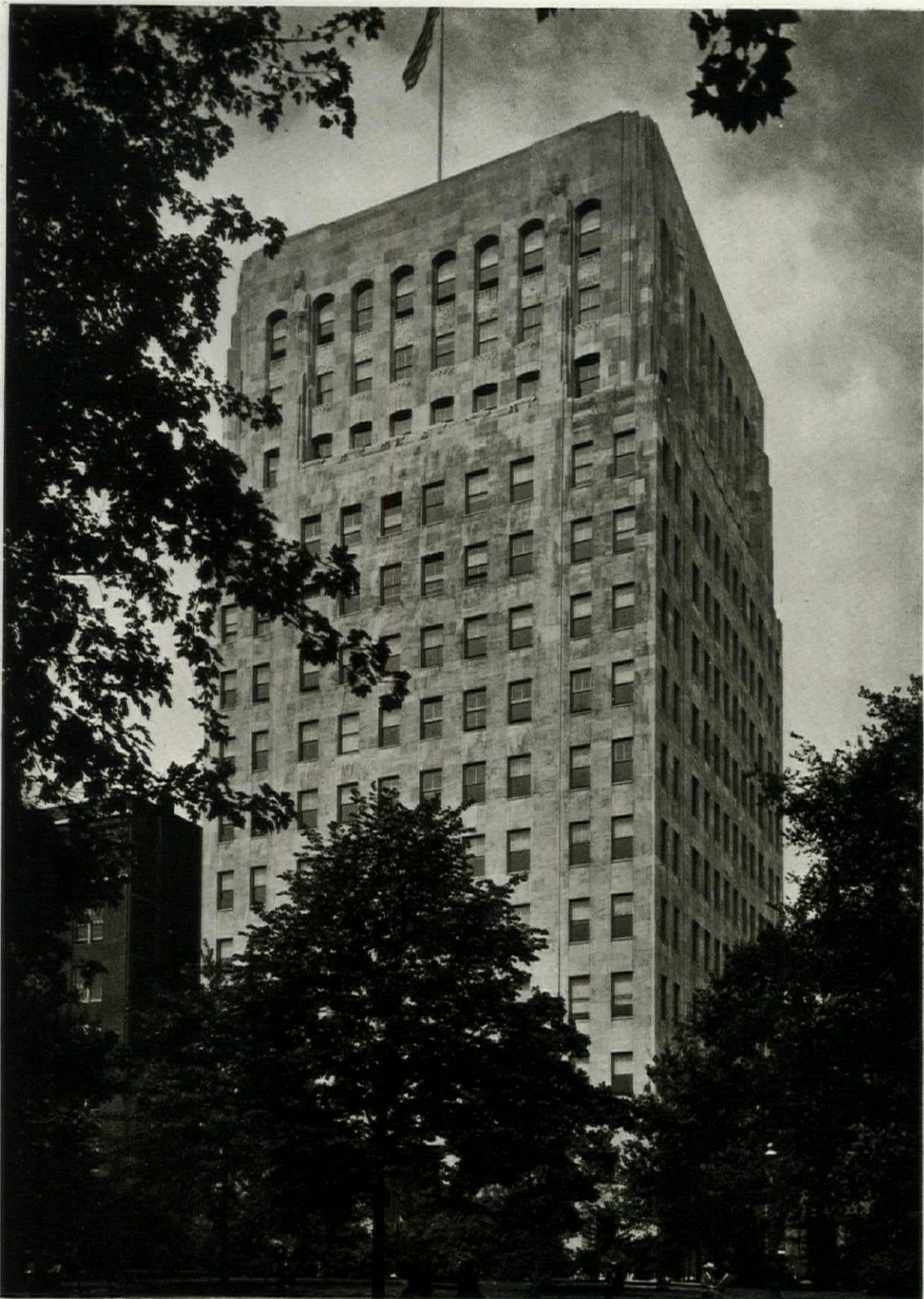
The space on the first and second floors not occupied by the entrance and gallery is used for the printing department. This space has been soundproofed, and the presses have been mounted on platforms of cork so that in the lobby or in any other part of the structure there is no indication that huge, pulsating, vibrating machines are operating just on the other side of the lobby walls. The various other departments occupy the typical floors up through the building to the 13th. These floors are all planned with a maximum of light, with flat ceiling underfloor duct system, and a system of artificial light distribution to allow for the greatest possible flexibility in department arrangement and future growth. Throughout the building it has been the aim to provide the most favorable of working conditions, not only in the matter of light, air and elbow room, but also in an arrangement of departments which permits of the close coöperation necessary in a well knit and cohesive organization. Throughout the structure, temperature regulation was installed, controlling the radiators which are all concealed within the

walls under the windows, covered with metal plates and painted in colors to match the walls, giving to the various floors an unusually fine appearance and a clear floor span.

On the 12th floor are the executive offices and main conference rooms. The entire 13th floor is used for an assembly hall and cafeteria, in which the organization can be brought together on both business and social occasions. The roof is used for recreation, being paved with tile, and from it there is obtained a wonderful view over the city and the Delaware River with its shipping.

On the occasion of the laying of the corner stone of the new building, February 4, 1928, the 80th anniversary of the birth of the founder of the firm, F. Wayland Ayer, the president of the corporation, Wilfred W. Fry, outlined in brief fashion, the general scheme on which the structure was erected. "In preparing for this new building," he said, "we took ample time for planning, we have sought to let purpose and material control design, to mould form to decoration rather than decoration to form, and to approach architecture through logical, structural channels. We believe this new home will fulfill in completeness, efficiency, comfort and simple dignity all that we can hope for in this modern structure of steel and stone. It is safe to assume that with such a building, planned, arranged and equipped to meet our particular needs, with facilities coördinated by many years of experience, in the light of modern practice and with the help of modern mechanical devices, our service to our clients should be measurably quickened and broadened."

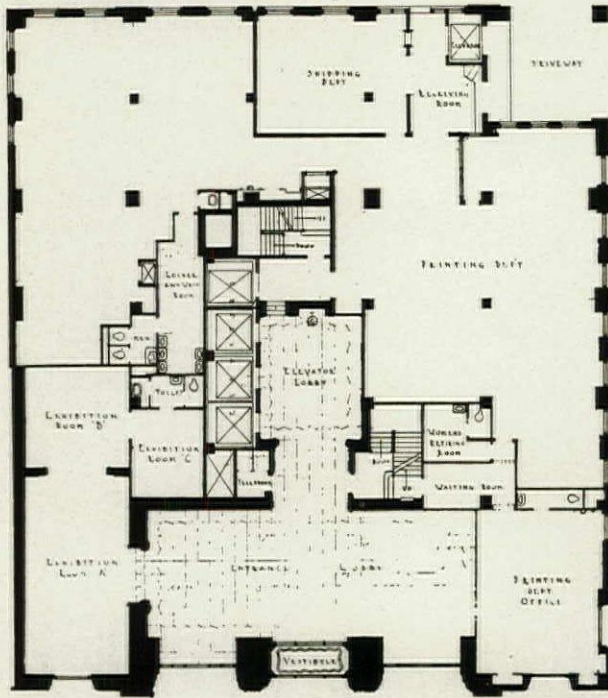
The pride which every individual in the Ayer organization feels in its new business home, is summarized in the words of one of them: "There are some in the advertising business, outside of our organization, who have seen in this new building a significance beyond its immediate importance to us. They have said, graciously, that it is a symbol of the stable state to which the advertising business has been brought, as an accepted force in modern industry and commerce. It is natural that we should like to feel that this is true, because ever since this business was founded by Mr. F. Wayland Ayer in 1869 it has been the earnest purpose of him and the organization to conduct an advertising business that would command the respect and confidence of the public."



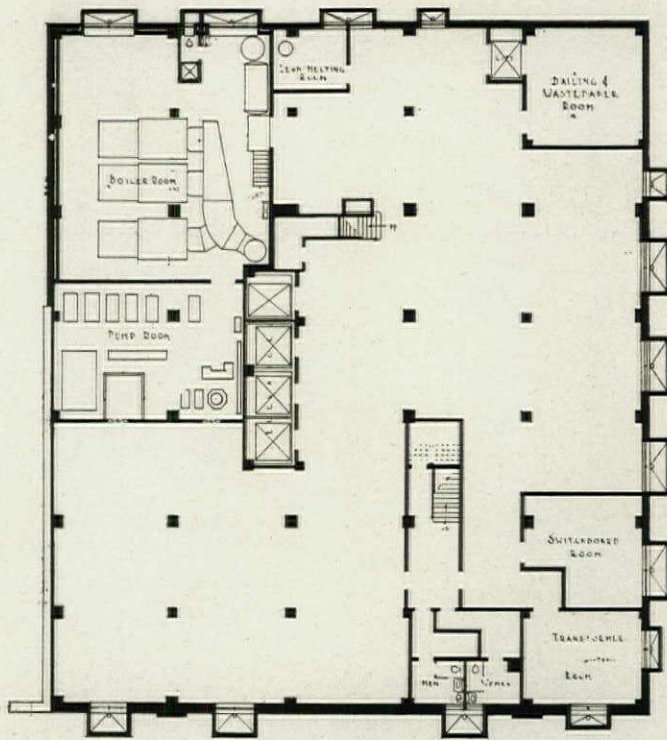
Photos. Sigurd Fischer

Plans on Back

WASHINGTON SQUARE FACADE
BUILDING FOR N. W. AYER & SON, INC., PHILADELPHIA
RALPH B. BENCKER, ARCHITECT



FIRST FLOOR



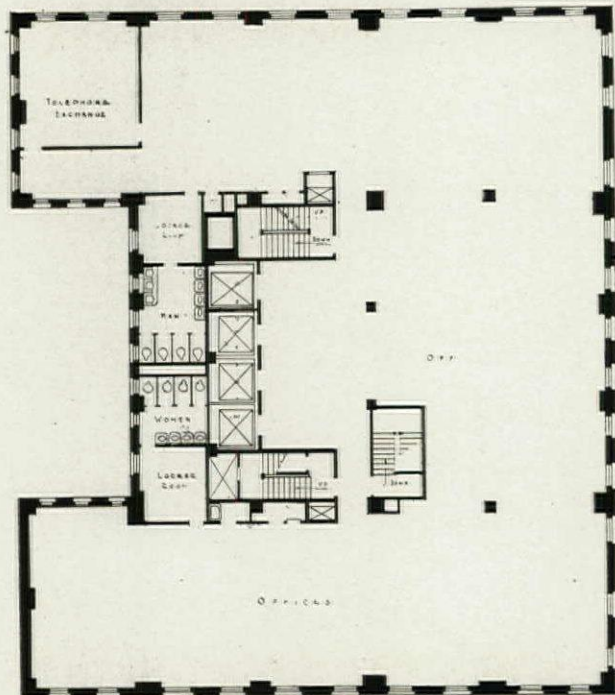
BASEMENT FLOOR

PLANS. BUILDING FOR N. W. AYER & SON, INC., PHILADELPHIA
RALPH B. BENCKER, ARCHITECT

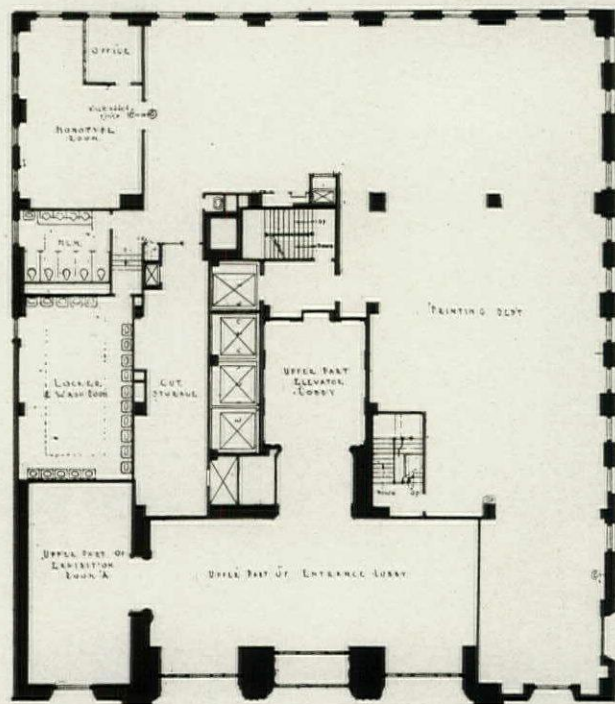


FRONT ELEVATION
BUILDING FOR N. W. AYER & SON, INC., PHILADELPHIA
RALPH B. BENCKER, ARCHITECT

Plans on Back



SECOND FLOOR



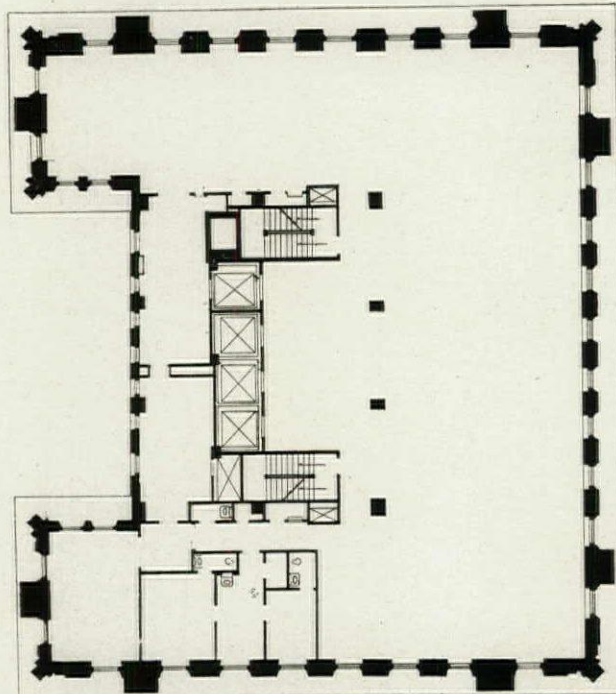
MEZZANINE FLOOR

PLANS. BUILDING FOR N. W. AYER & SON, INC., PHILADELPHIA
RALPH B. BENCKER, ARCHITECT

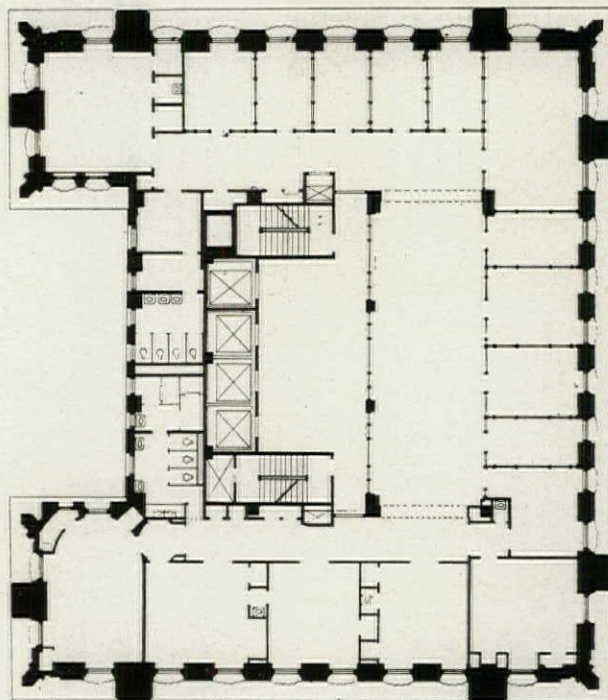


MAIN ENTRANCE
BUILDING FOR N. W. AYER & SON, INC., PHILADELPHIA
RALPH B. BENCKER, ARCHITECT

Plans on Back



THIRTEENTH FLOOR

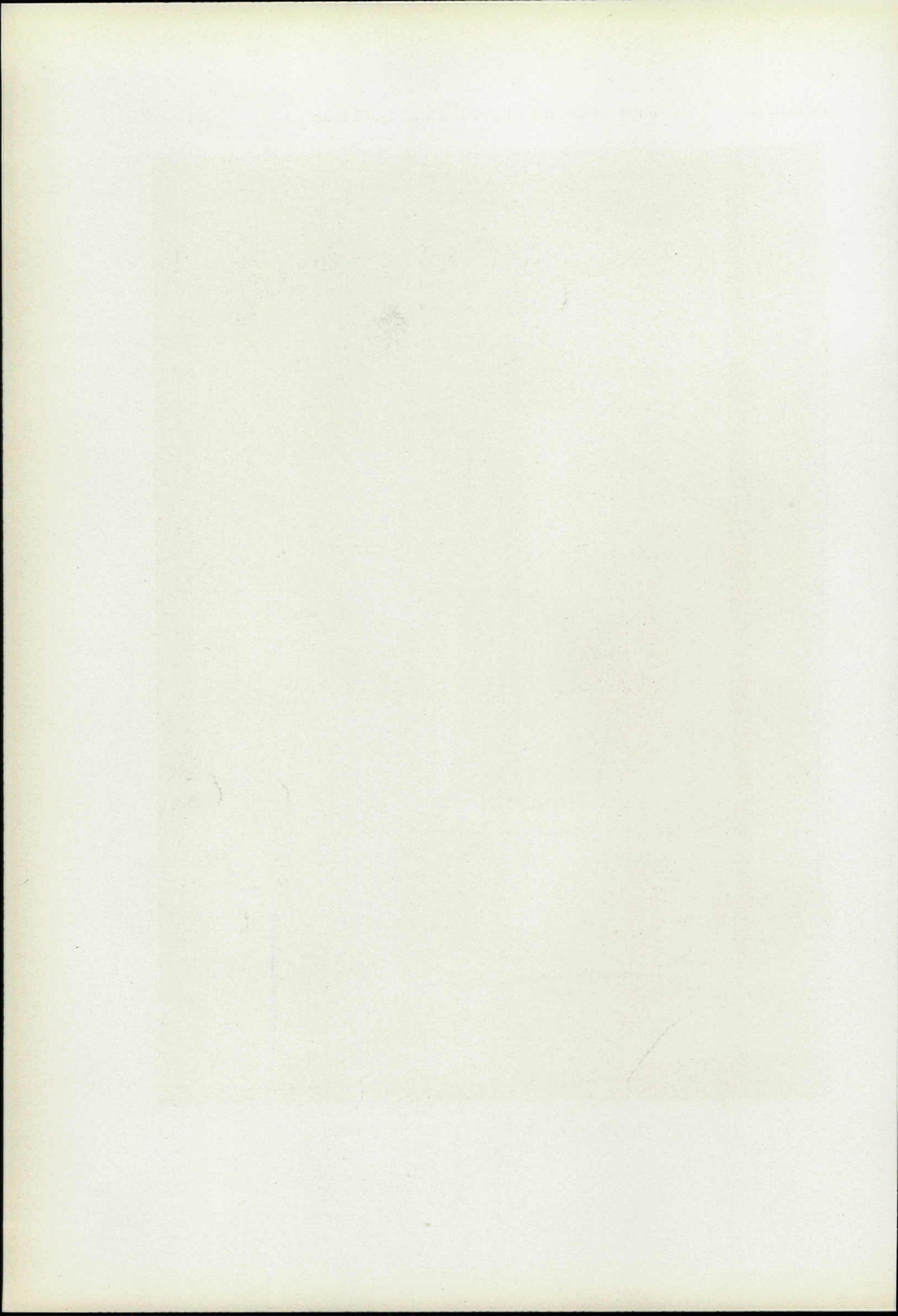


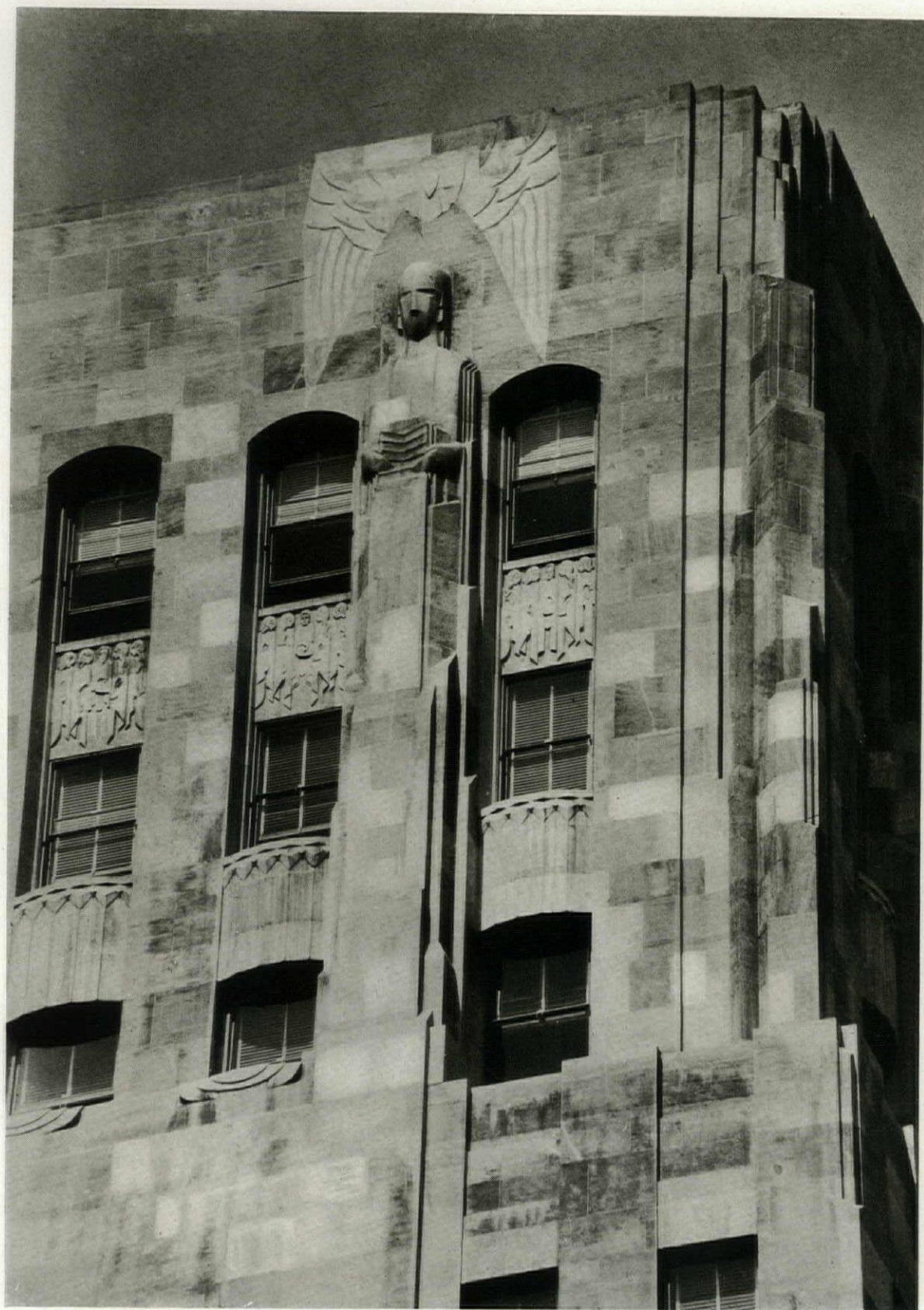
TWELFTH FLOOR

PLANS. BUILDING FOR N. W. AYER & SON, INC., PHILADELPHIA
RALPH B. BENCKER, ARCHITECT

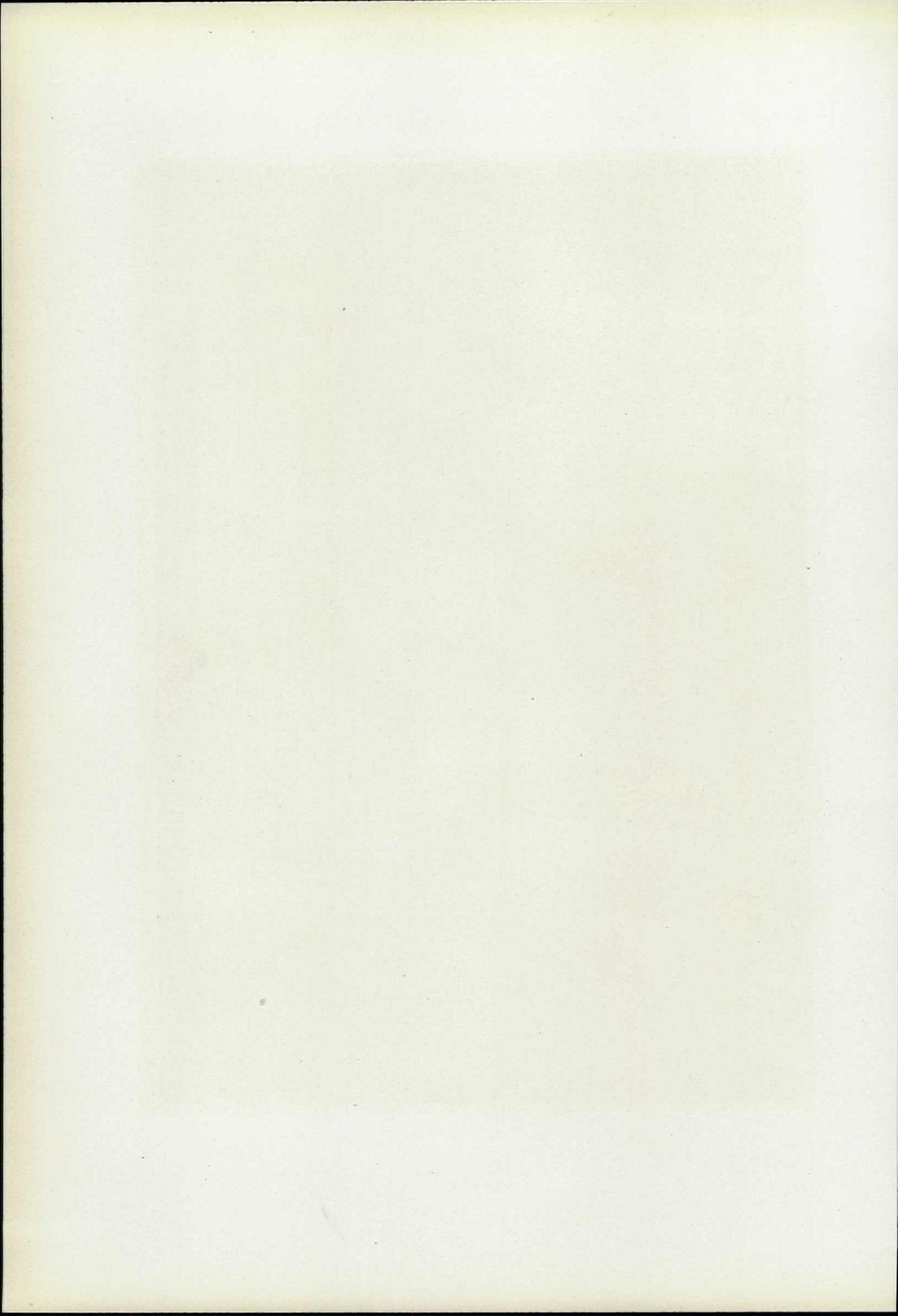


DETAIL, FRONT ELEVATION
BUILDING FOR N. W. AYER & SON, INC., PHILADELPHIA
RALPH B. BENCKER, ARCHITECT



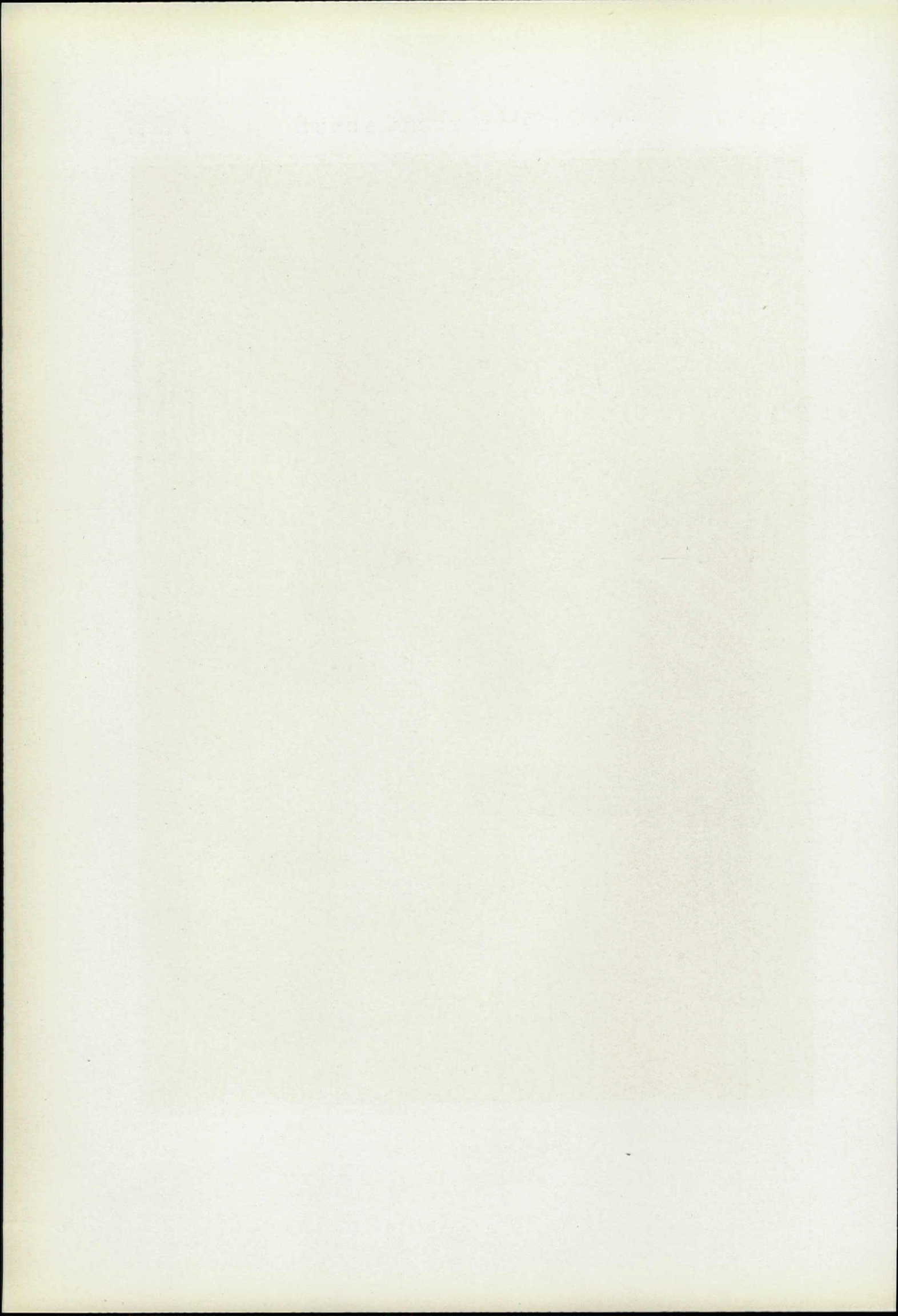


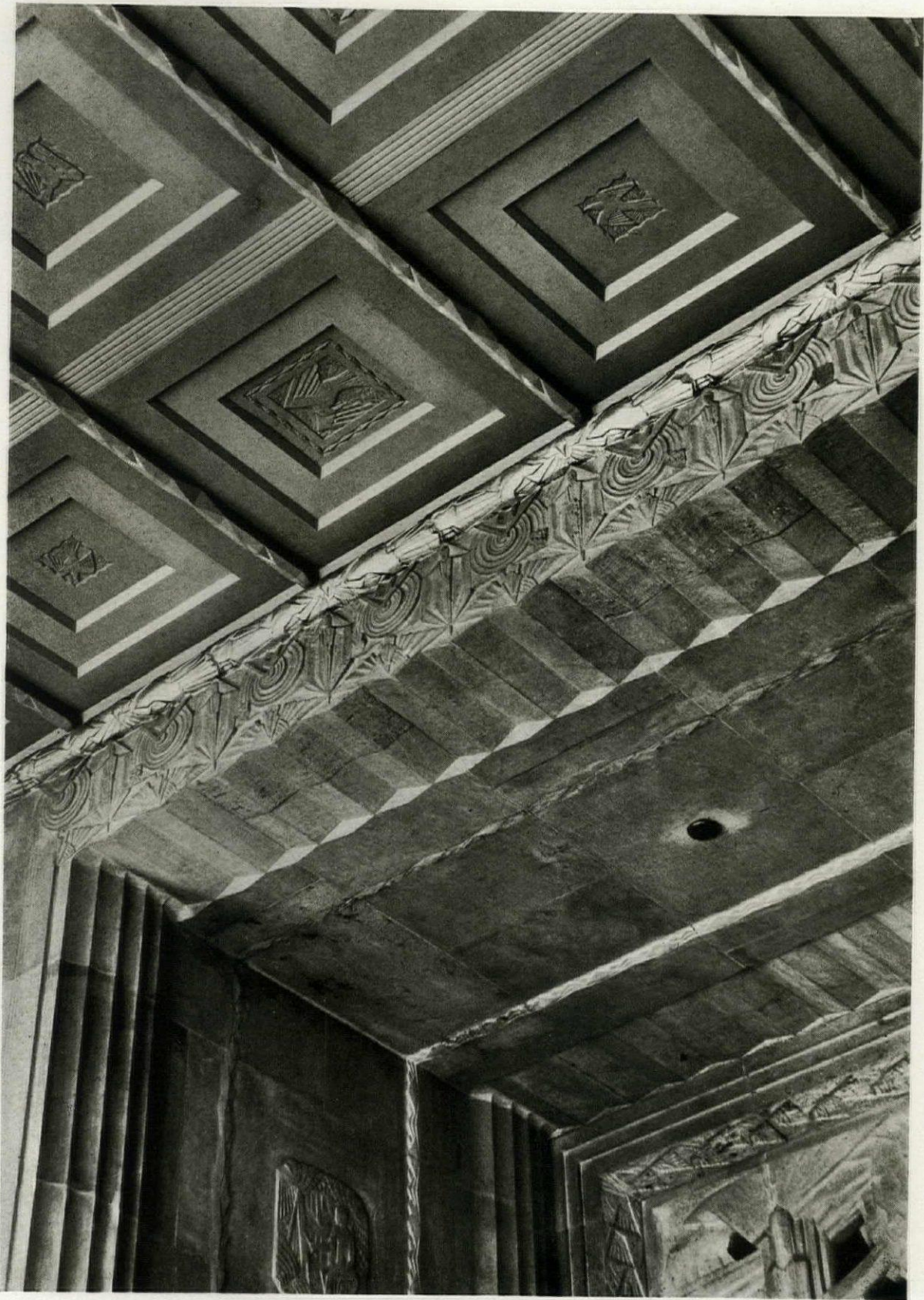
TOP OF BUILDING
BUILDING FOR N. W. AYER & SON, INC., PHILADELPHIA
RALPH B. BENCKER, ARCHITECT



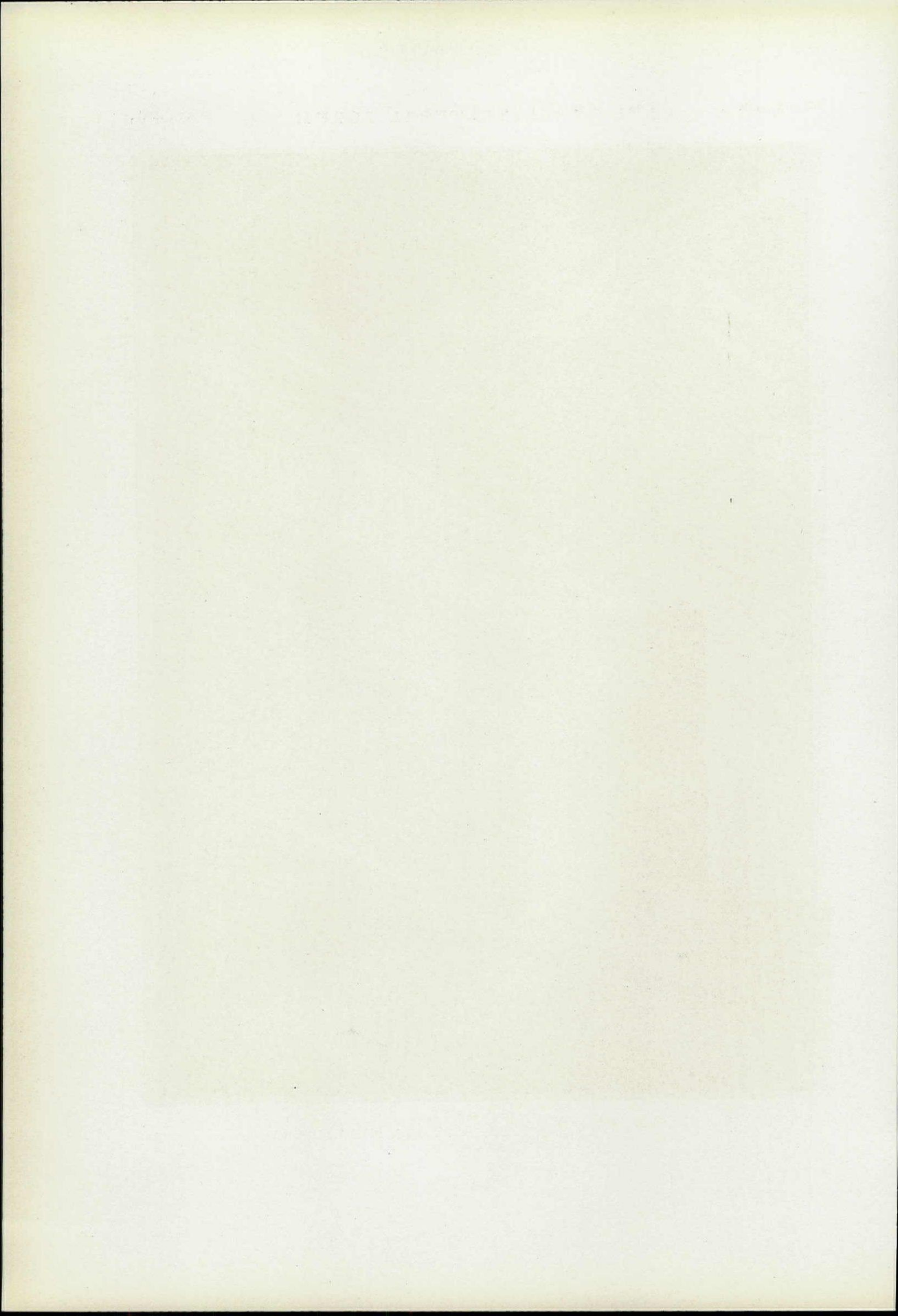


MAIN LOBBY
BUILDING FOR N. W. AYER & SON, INC., PHILADELPHIA
RALPH B. BENCKER, ARCHITECT



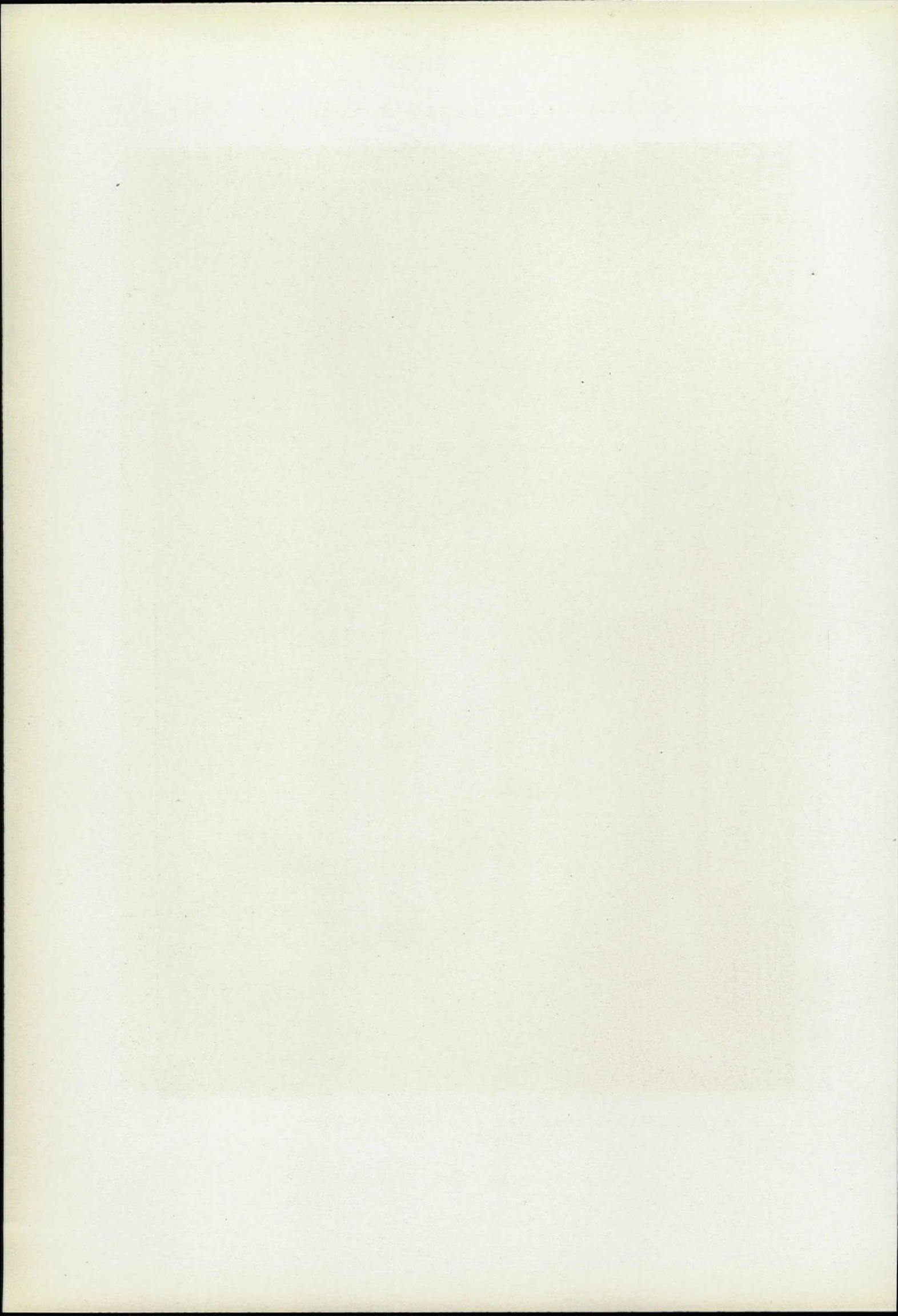


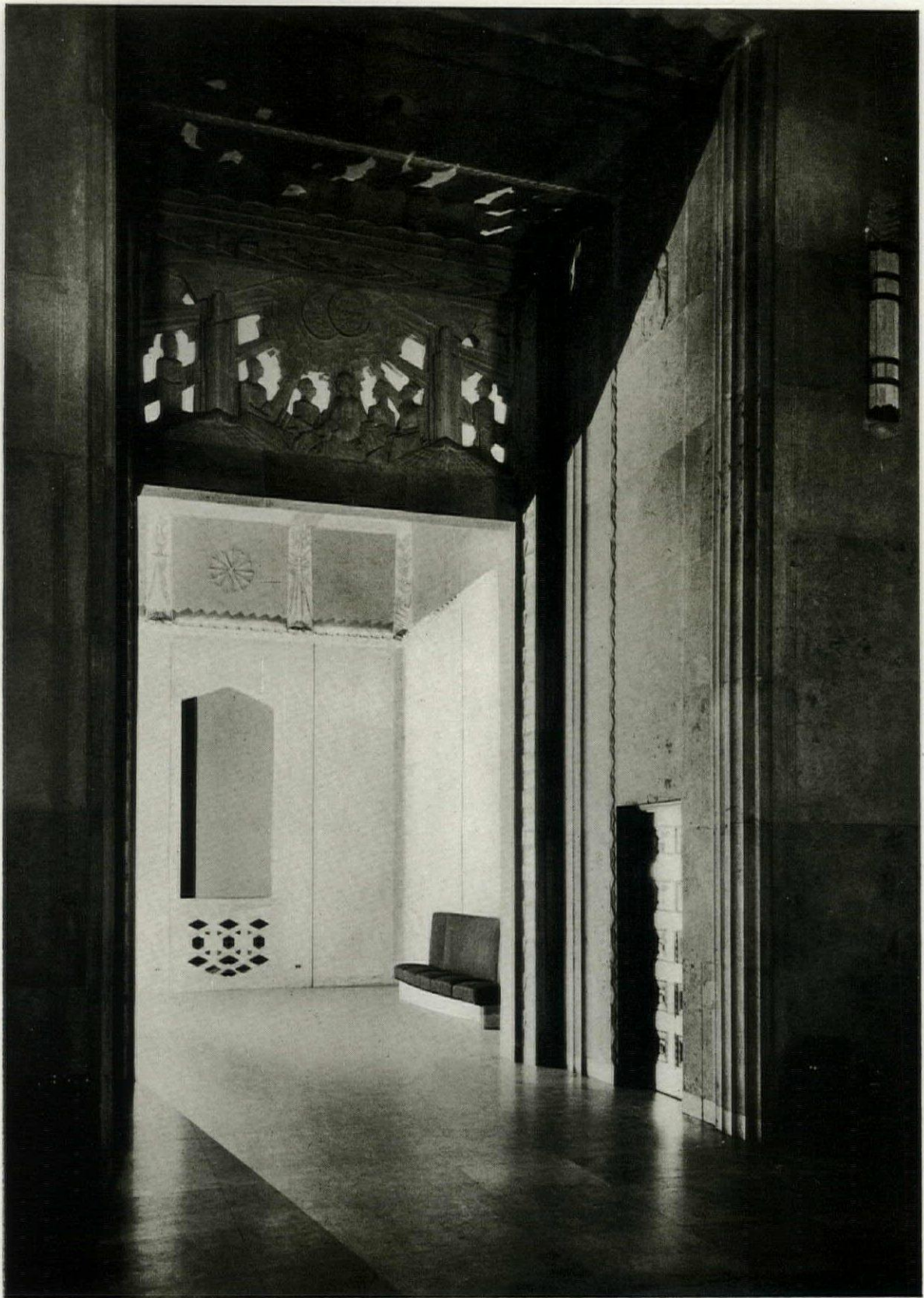
CEILING, MAIN LOBBY
BUILDING FOR N. W. AYER & SON, INC., PHILADELPHIA
RALPH B. BENCKER, ARCHITECT



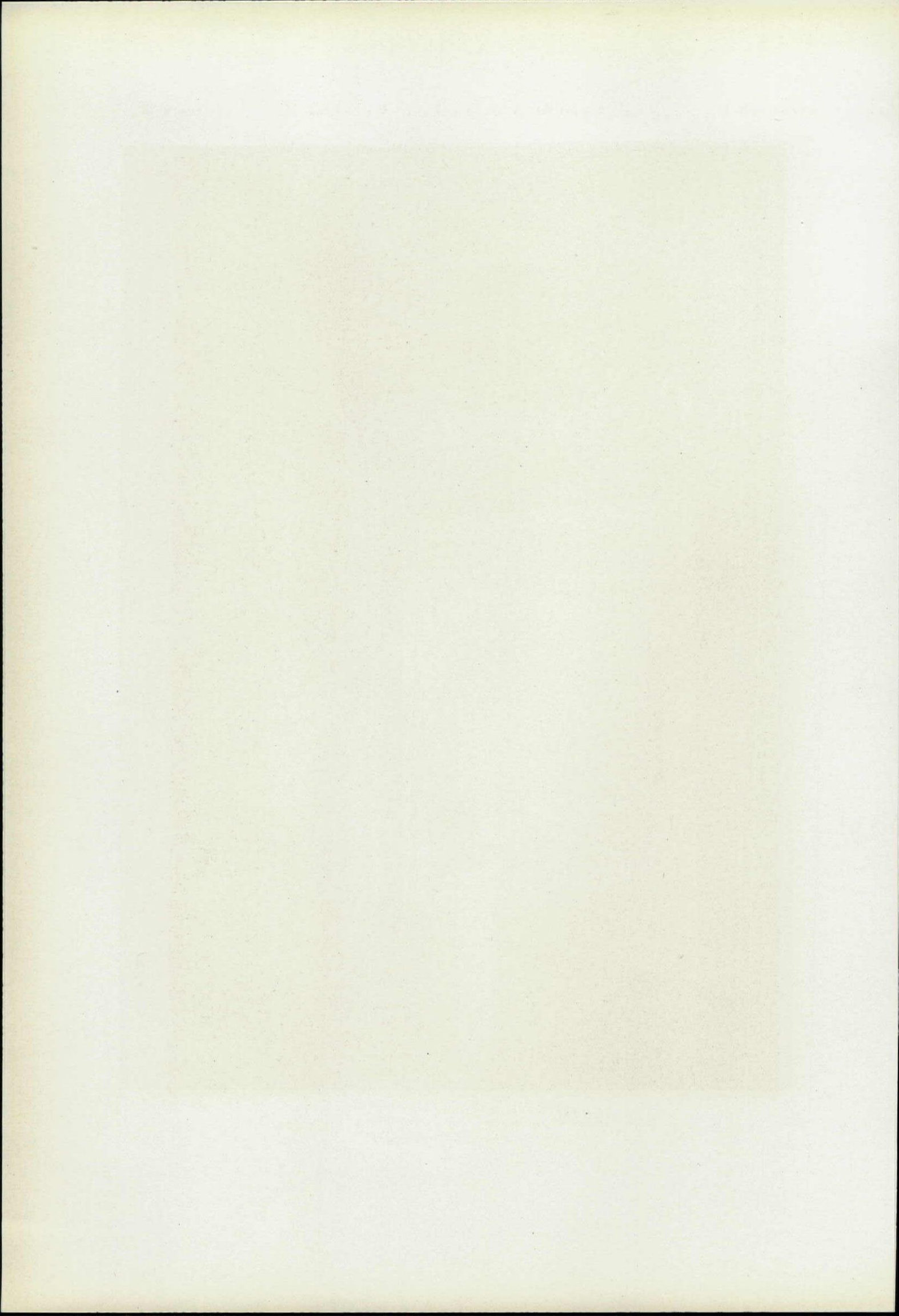


DOORWAY IN LOBBY
BUILDING FOR N. W. AYER & SON, INC., PHILADELPHIA
RALPH B. BENCKER, ARCHITECT



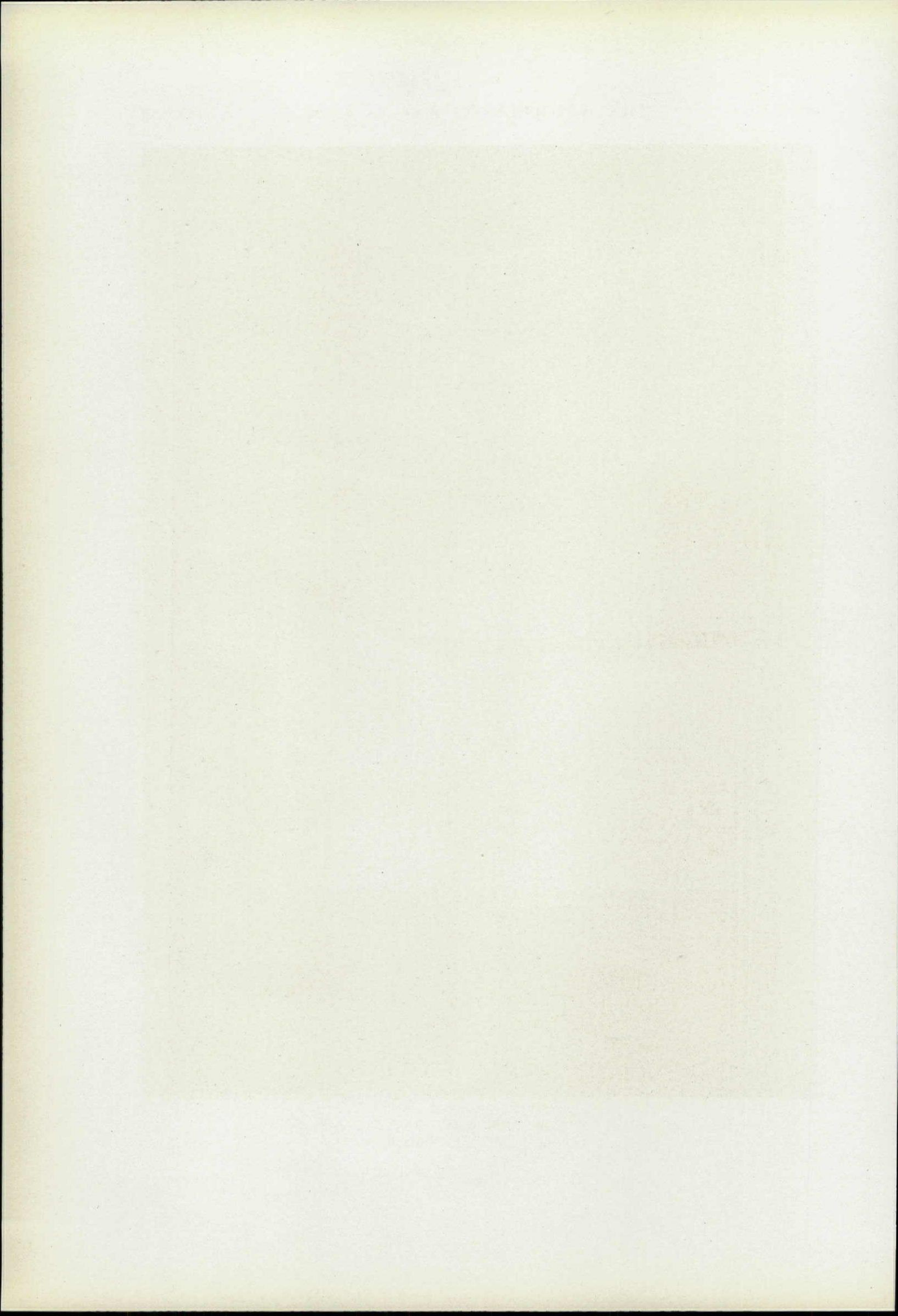


ENTRANCE TO ELEVATOR LOBBY
BUILDING FOR N. W. AYER & SON, INC., PHILADELPHIA
RALPH B. BENCKER, ARCHITECT



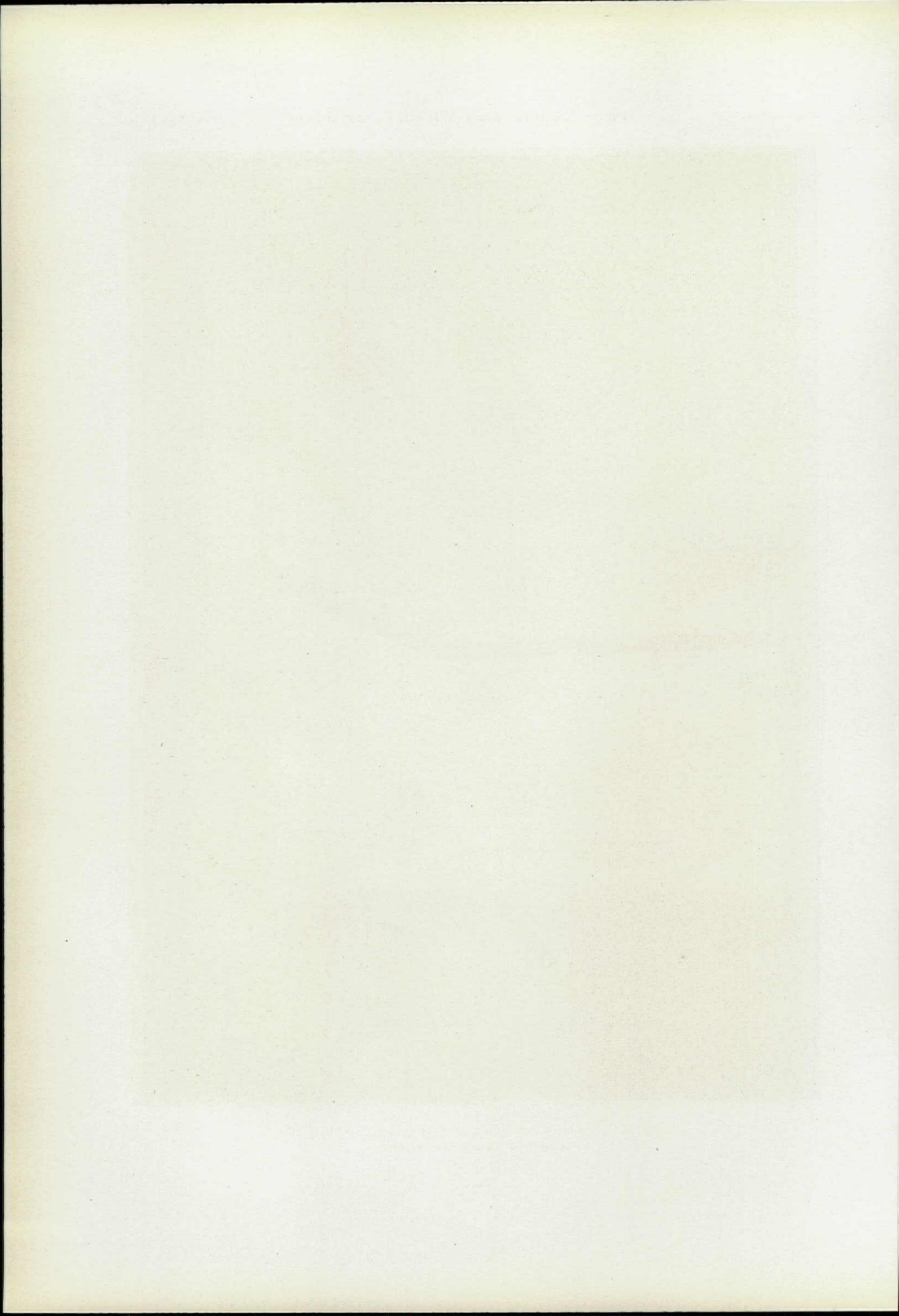


VESTIBULE, PRESIDENT'S OFFICE
BUILDING FOR N. W. AYER & SON, INC., PHILADELPHIA
RALPH B. BENCKER, ARCHITECT



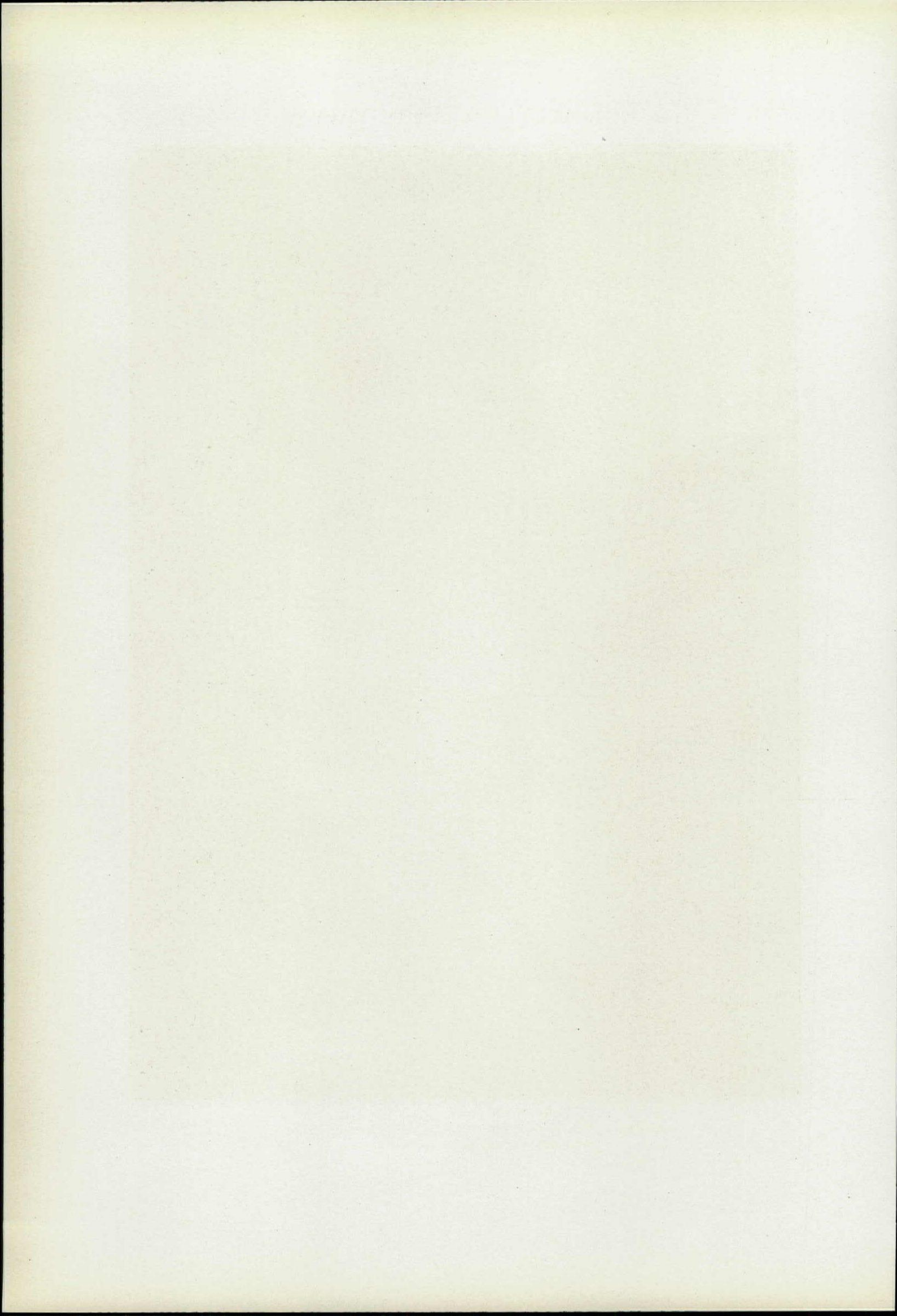


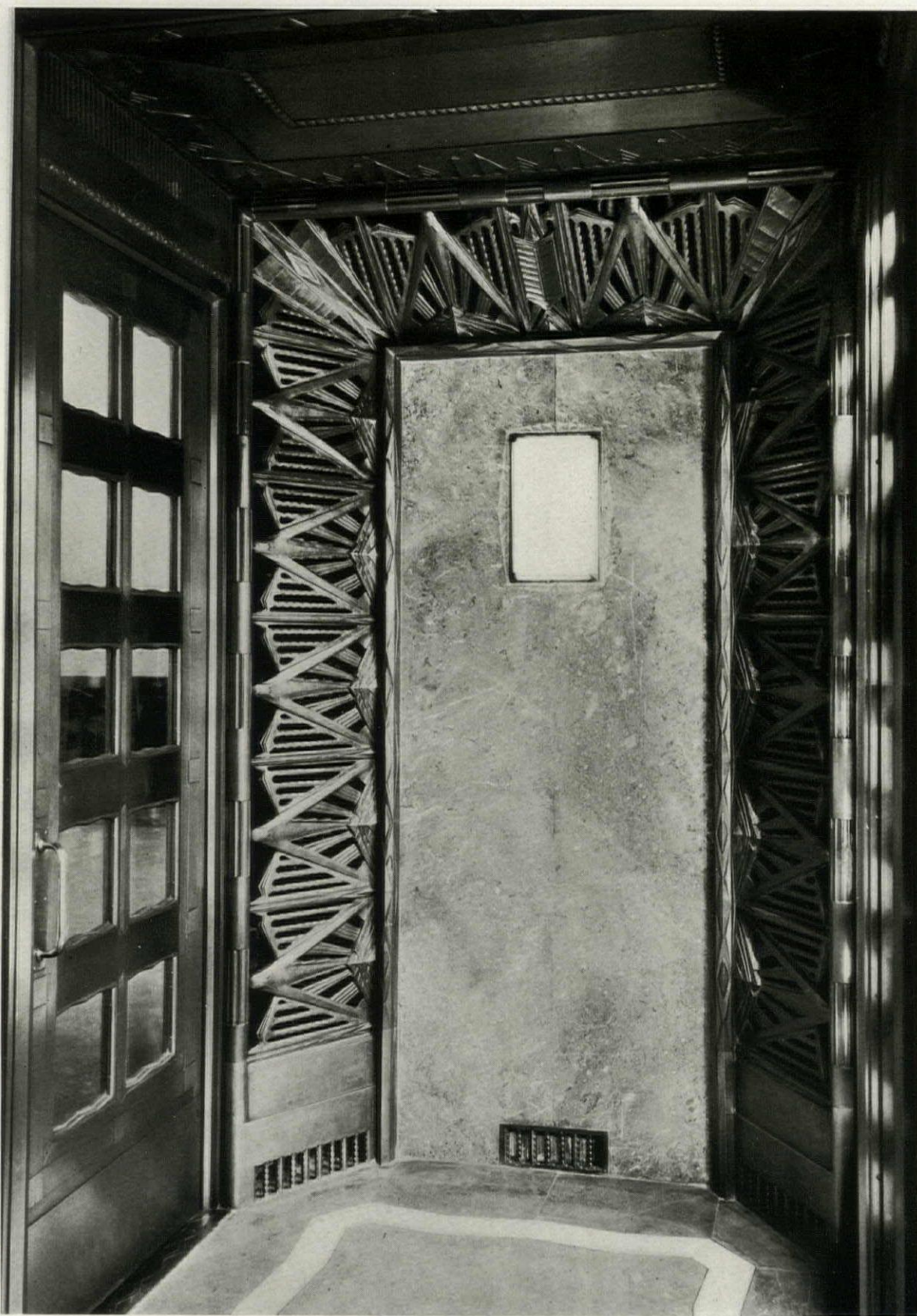
MIDDLE EXHIBITION ROOM, ART GALLERY
BUILDING FOR N. W. AYER & SON, INC., PHILADELPHIA
RALPH B. BENCKER, ARCHITECT



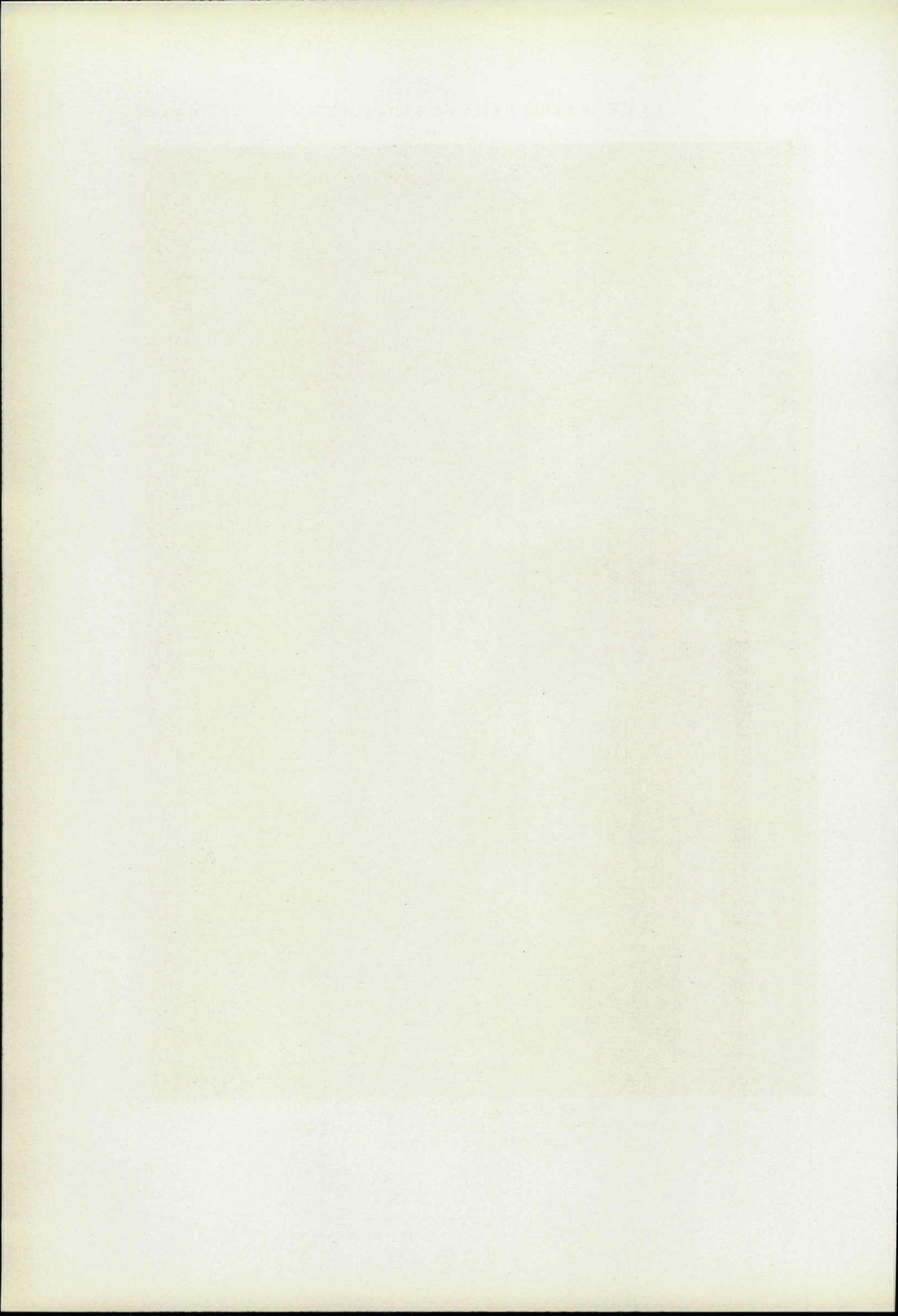


CEILING, MAIN EXHIBITION ROOM, ART GALLERY
BUILDING FOR N. W. AYER & SON, INC., PHILADELPHIA
RALPH B. BENCKER, ARCHITECT



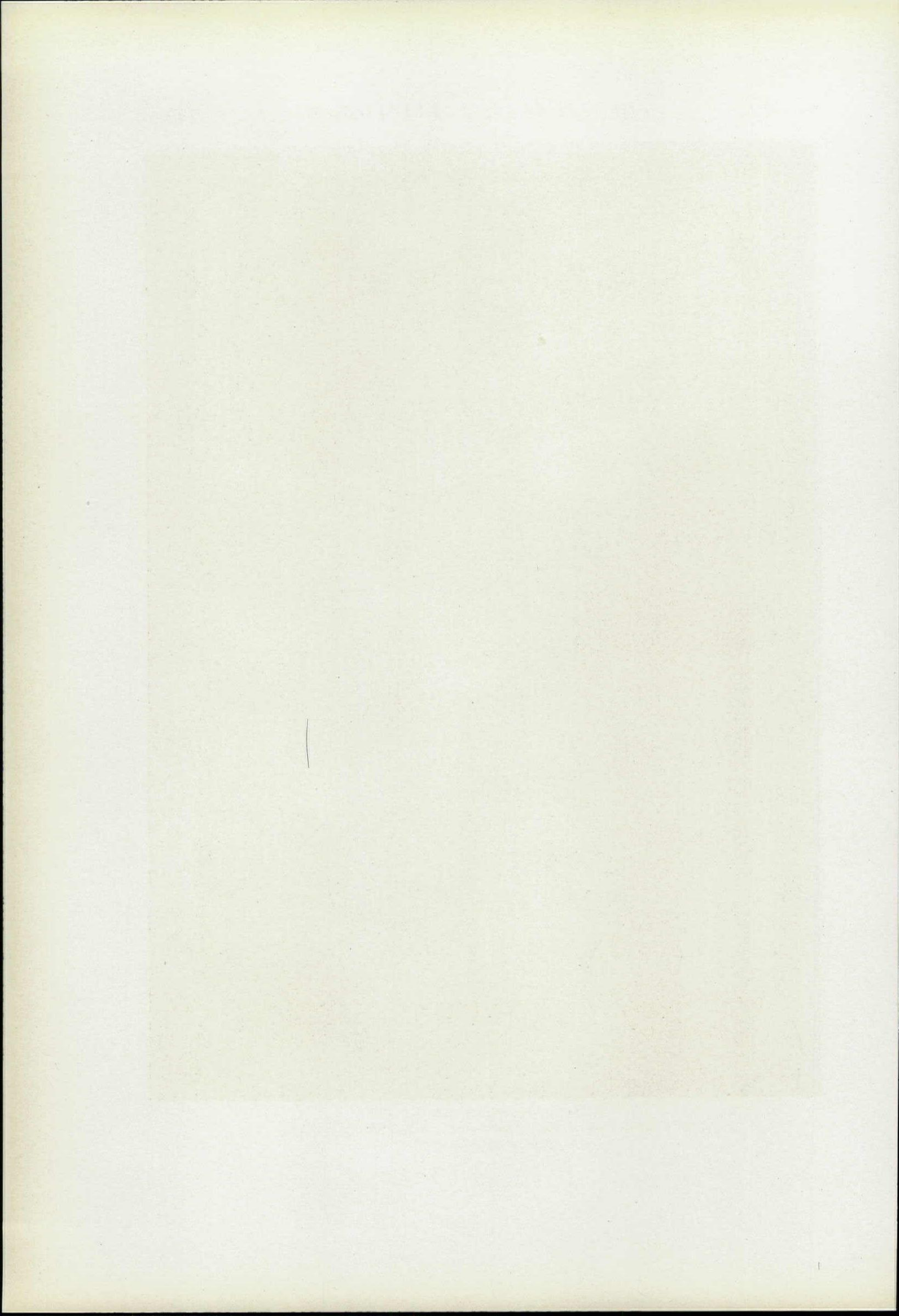


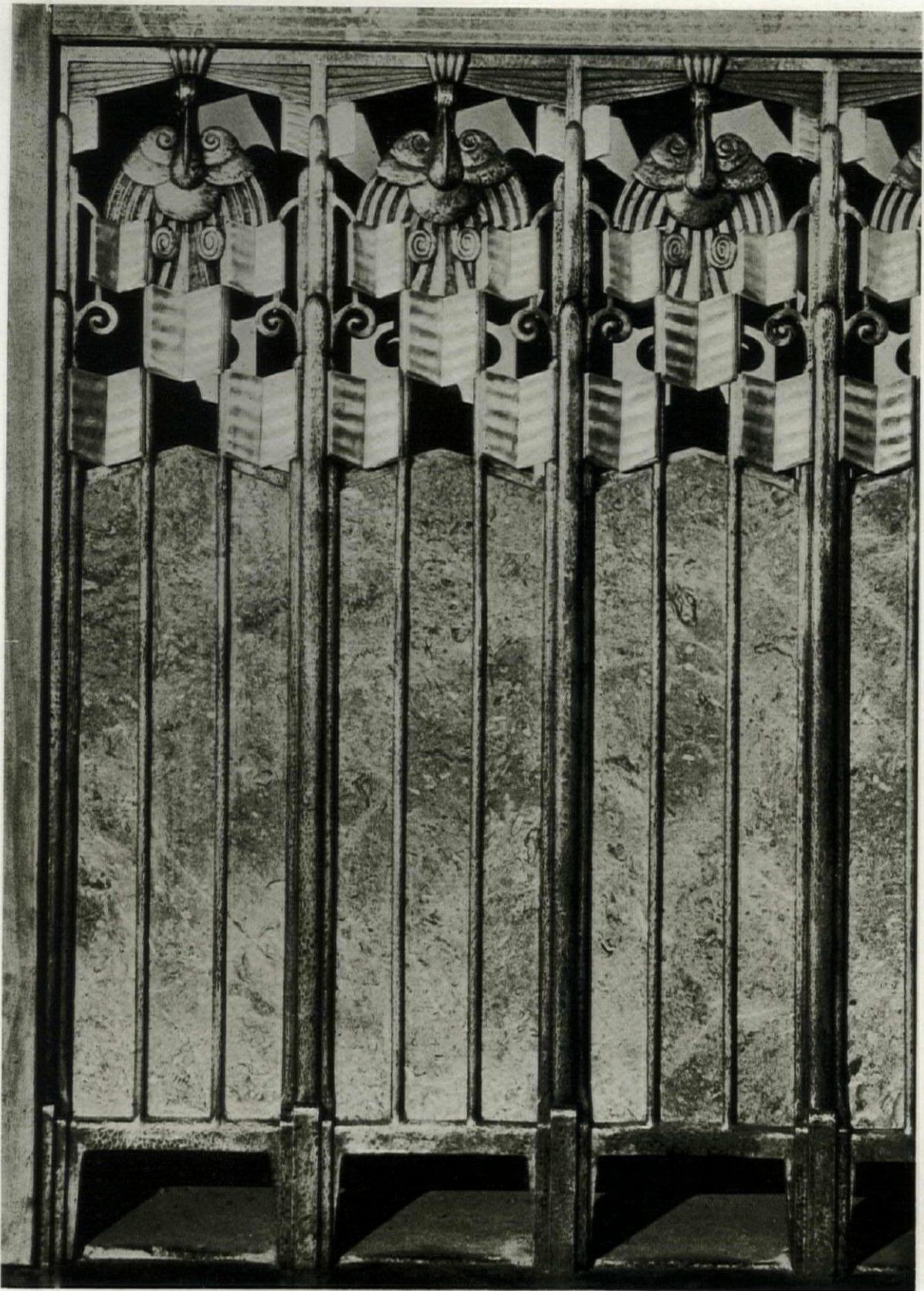
OUTER VESTIBULE
BUILDING FOR N. W. AYER & SON, INC., PHILADELPHIA
RALPH B. BENCKER, ARCHITECT



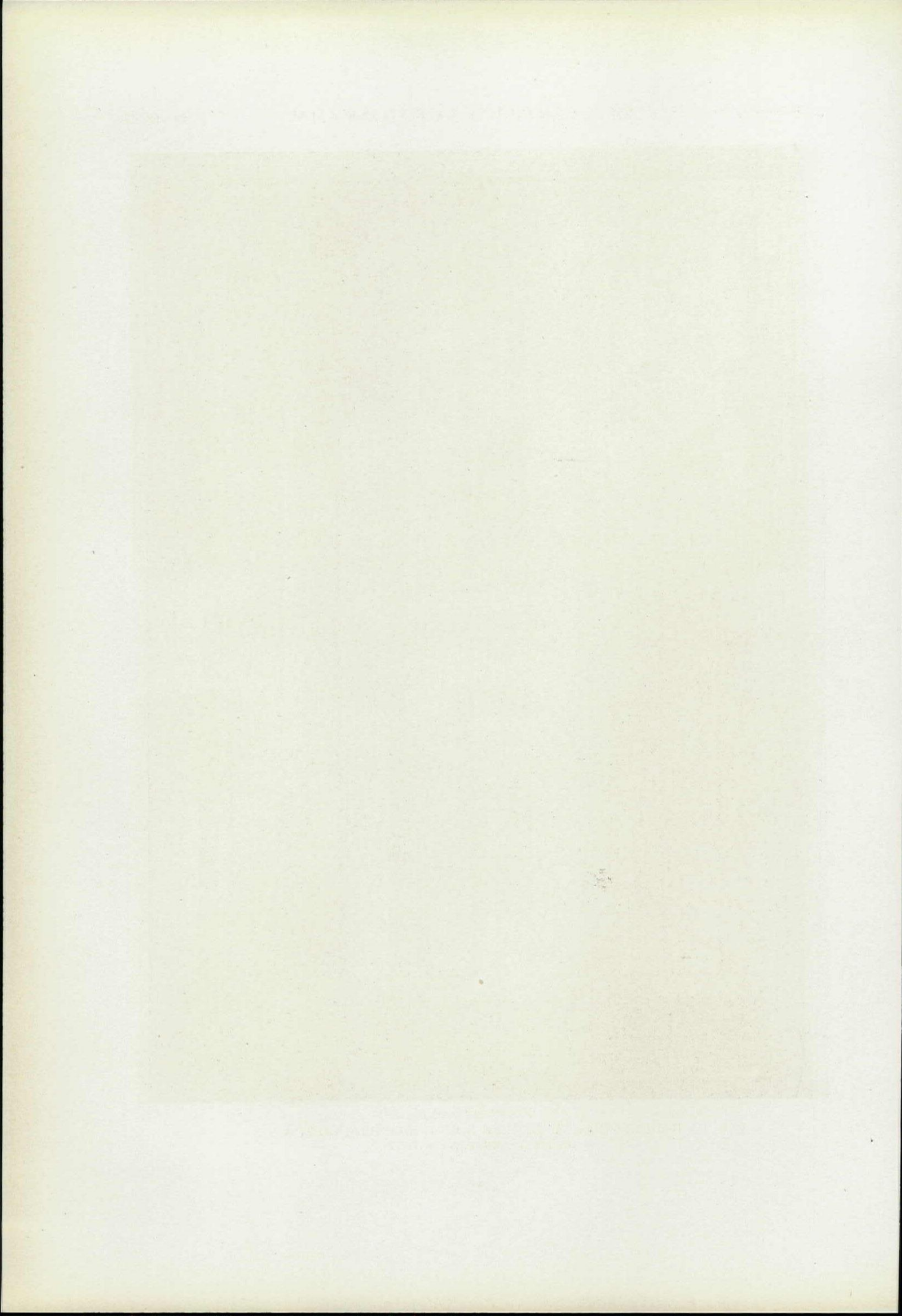


ELEVATOR LOBBY, CAFETERIA FLOOR
BUILDING FOR N. W. AYER & SON, INC., PHILADELPHIA
RALPH B. BENCKER, ARCHITECT



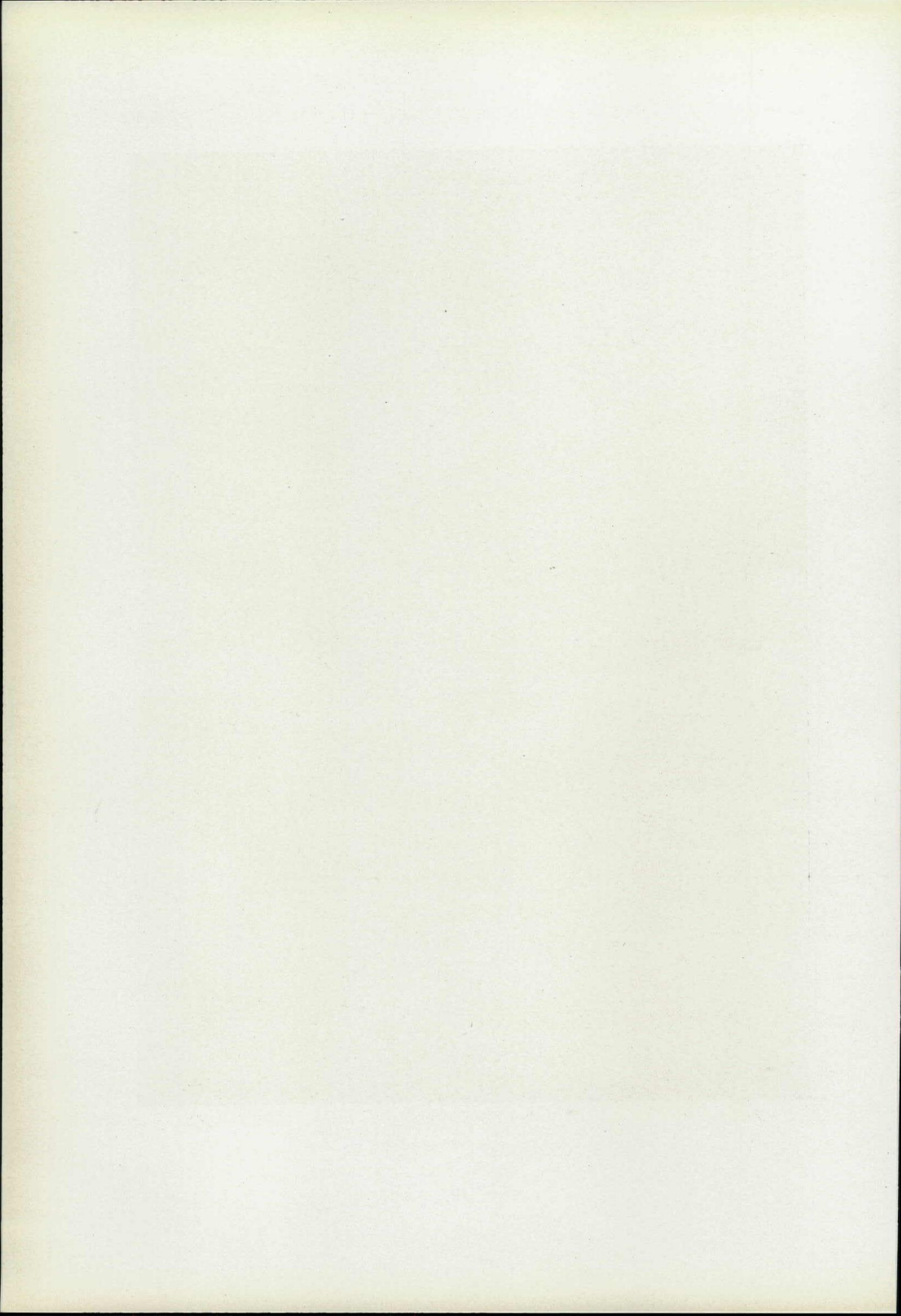


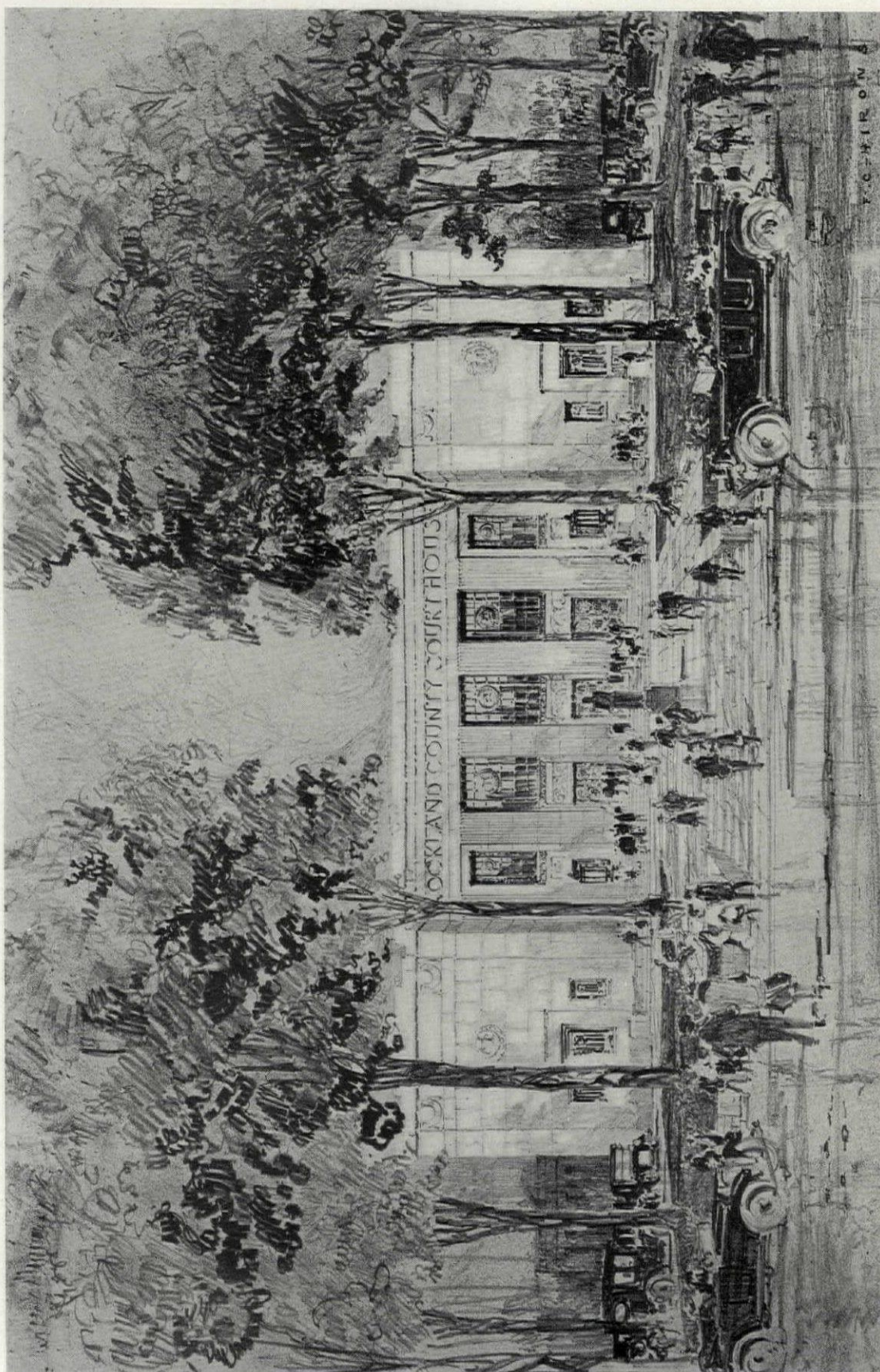
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RALPH B. BENCKER, ARCHITECT



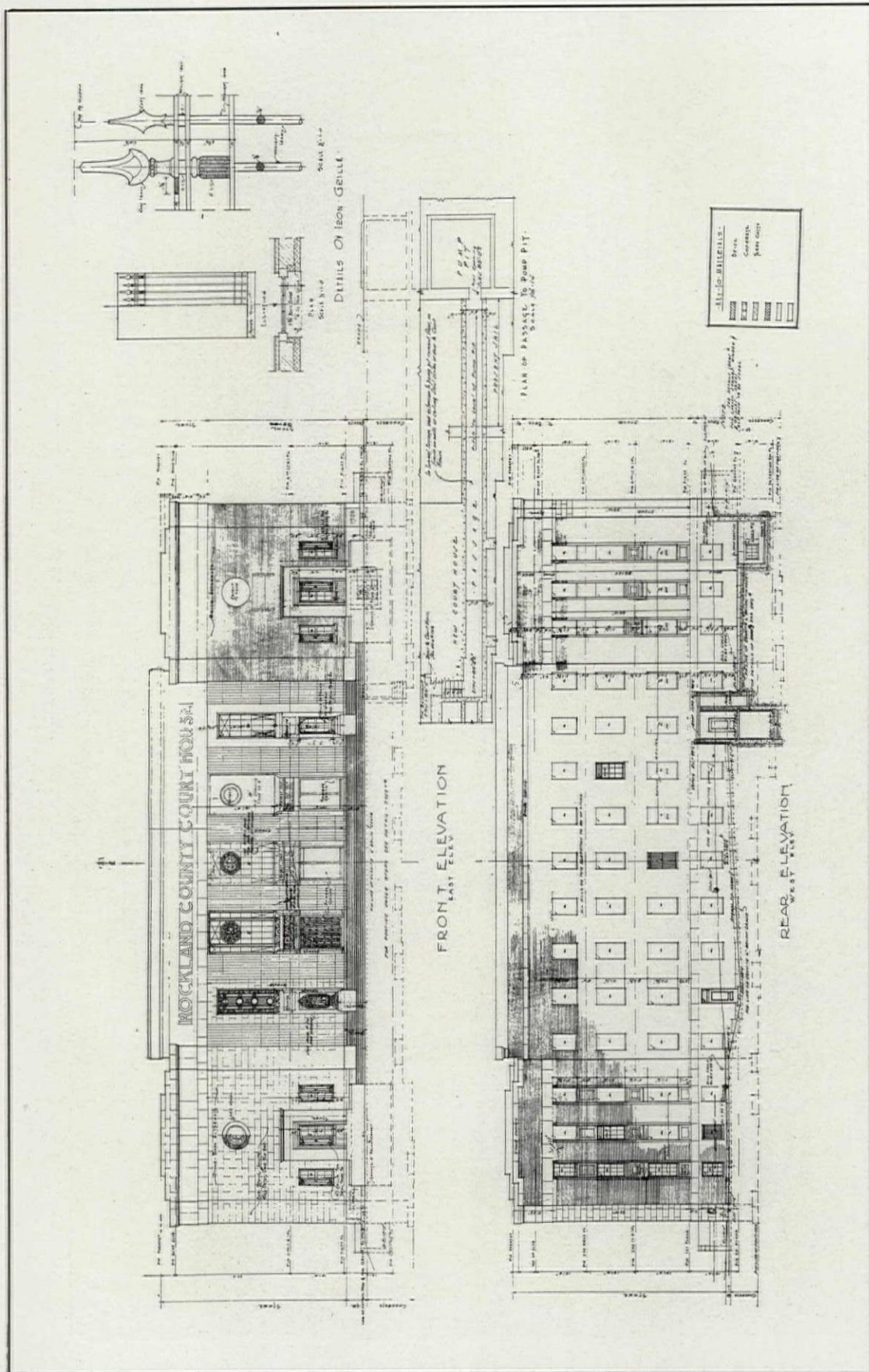


CONFERENCE ROOM
BUILDING FOR N. W. AYER & SON, INC., PHILADELPHIA
RALPH B. BENCKER, ARCHITECT.

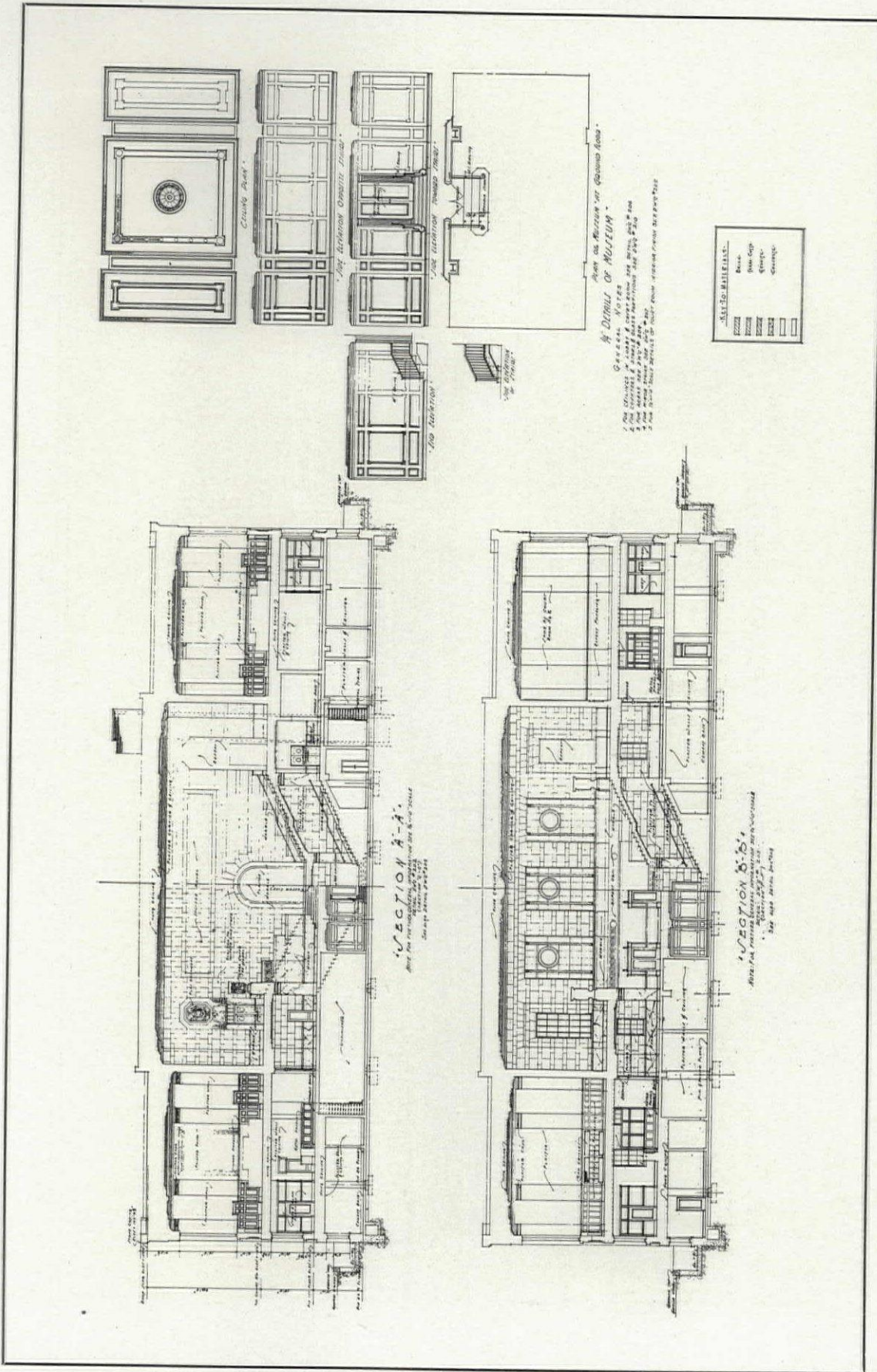




GENERAL VIEW
ROCKLAND COUNTY COURT HOUSE, NEW CITY, N. Y.
DENNISON & HIRONS, ARCHITECTS



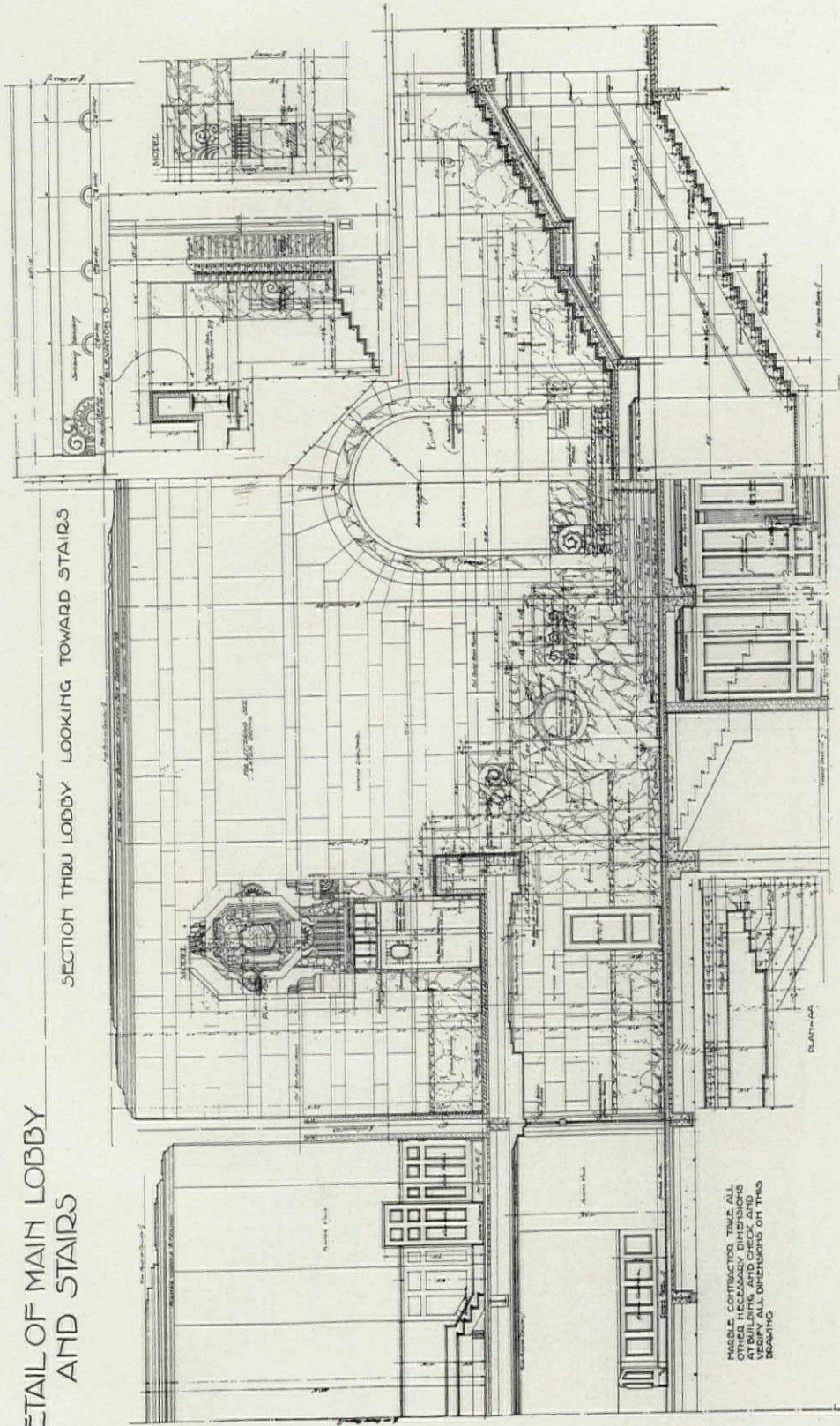
DETAILS. ROCKLAND COUNTY COURT HOUSE, NEW CITY, N. Y.
 DENNISON & HIRONS, ARCHITECTS



DETAILS. ROCKLAND COUNTY COURT HOUSE, NEW CITY, N. Y.
DENNISON & HIRONS, ARCHITECTS

DETAIL OF MAIN LOBBY
AND STAIRS

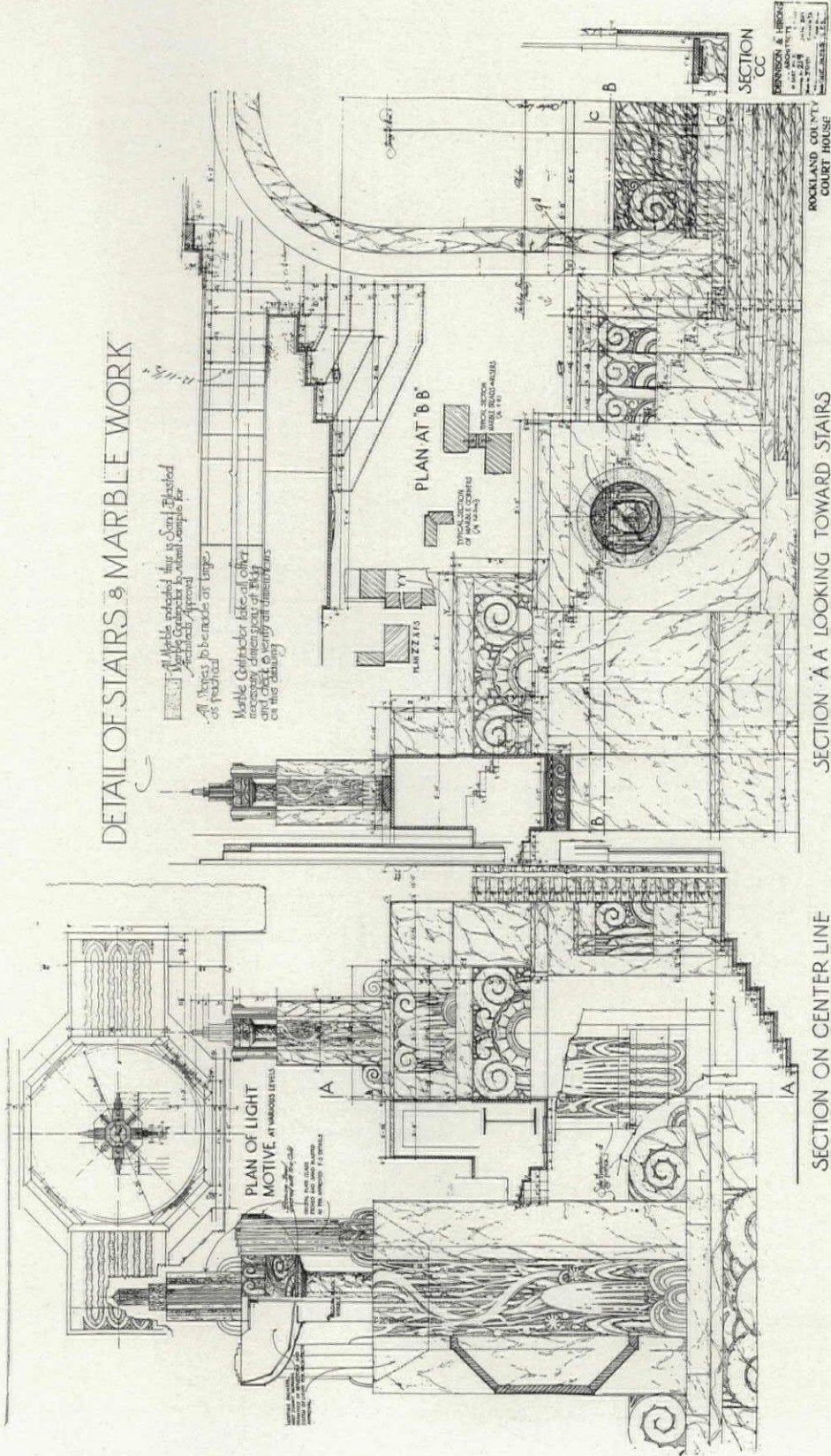
SECTION THRU LOBBY
LOOKING TOWARD STAIRS



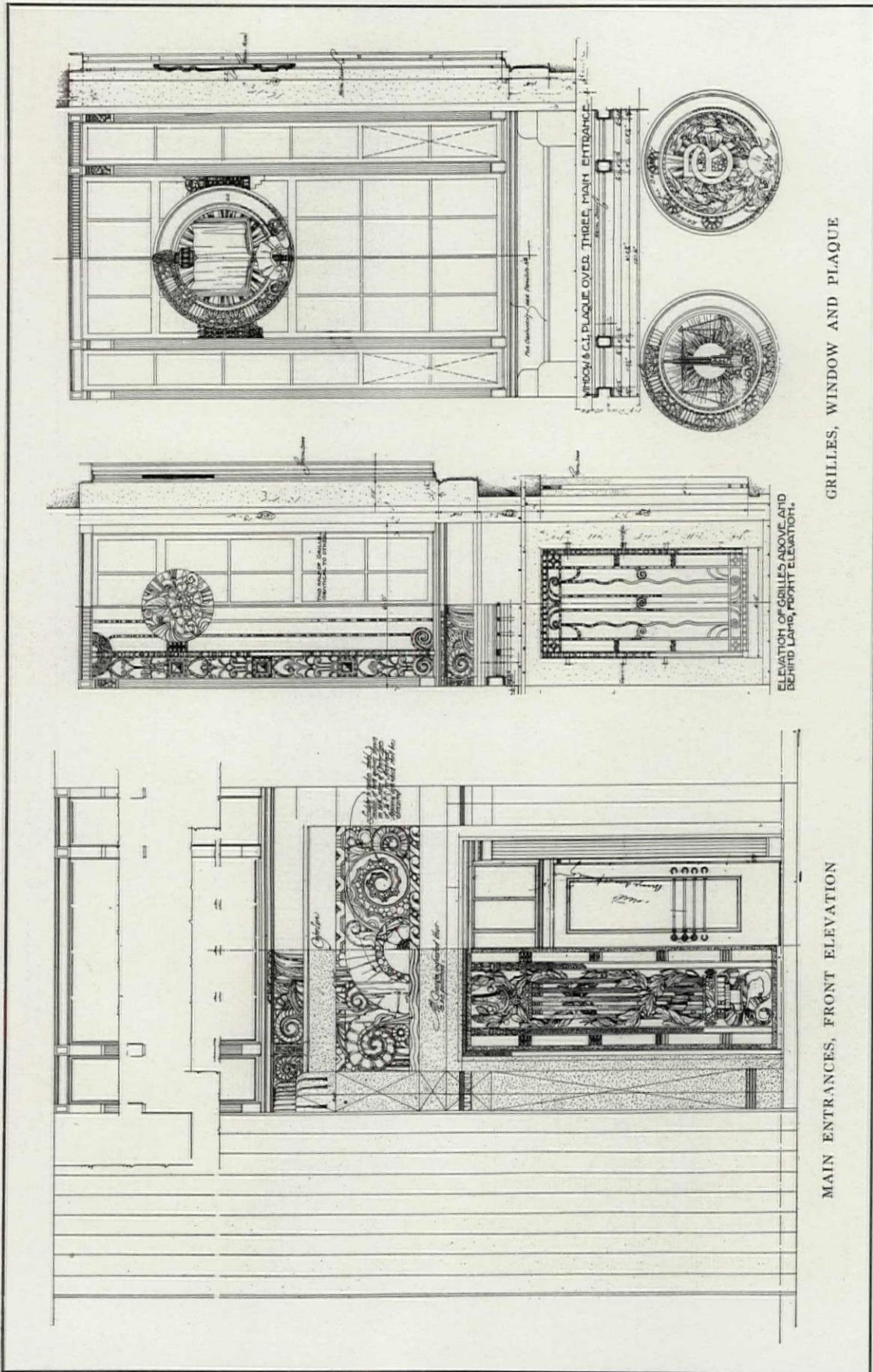
PLEASE CONTRACTOR TAKE ALL
NECESSARY PRECAUTIONS
ON BUILDING AND CHECK AND
VERIFY ALL DIRECTIONS OF THIS
DRAWING

DETAIL. ROCKLAND COUNTY COURT HOUSE, NEW CITY, N. Y.
DENNISON & HIRONS, ARCHITECTS

DETAIL OF STAIRS & MARBLE WORK



DETAILS. ROCKLAND COUNTY COURT HOUSE, NEW CITY, N. Y.
DENNISON & HIRONS, ARCHITECTS



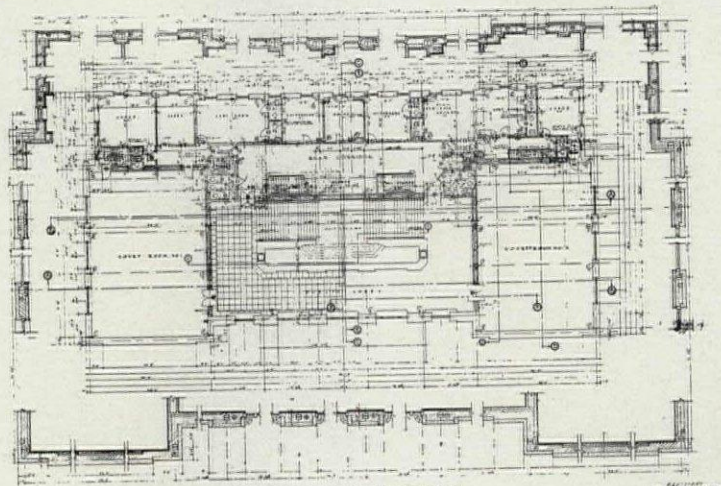
GRILLES, WINDOW AND PLAQUE

MAIN ENTRANCES, FRONT ELEVATION

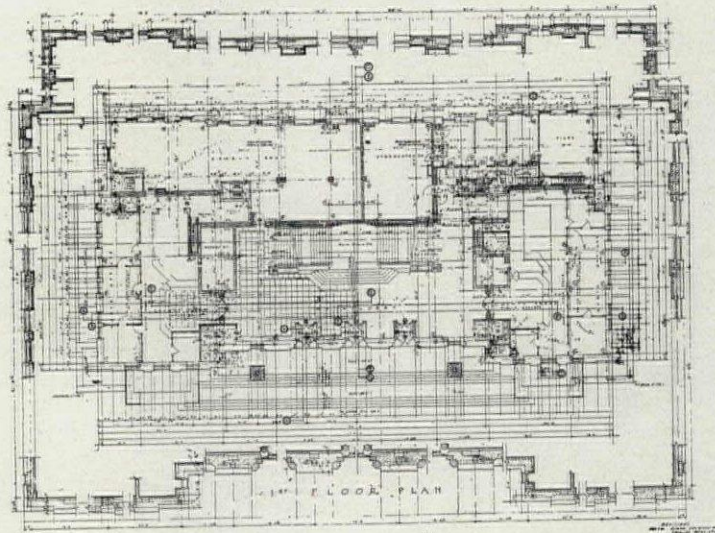
DETAILS. ROCKLAND COUNTY COURT HOUSE, NEW CITY, N. Y.
 DENNISON & HIRONS, ARCHITECTS



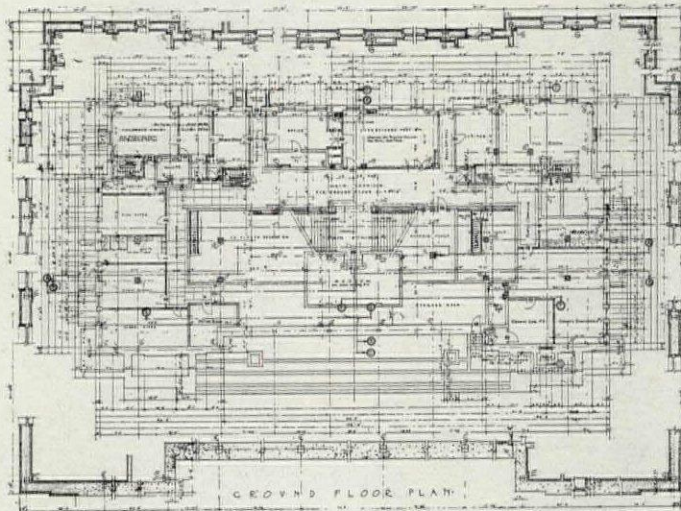
MAIN STAIRWAY
ROCKLAND COUNTY COURT HOUSE, NEW CITY, N. Y.
DENNISON & HIRONS, ARCHITECTS



SECOND FLOOR



FIRST FLOOR



GROUND FLOOR

PLANS. ROCKLAND COUNTY COURT HOUSE, NEW CITY, N. Y.
DENNISON & HIRONS, ARCHITECTS

SOME PRIORIES OF THE ELEVENTH AND TWELFTH CENTURIES

BY

MILTON D. LOWENSTEIN

ARCHÆOLOGY includes the history of a craft as well as that of an art. We can see in architectural forms a picture of an age's actual civilization. The history of other arts is often a story of unrealized aspirations. Religion, literature, painting, sculpture and music anticipate a culture. They shun the mundane and present an ideal which often guides architecture but which is not its unique *raison d'être*. Broken walls that have withstood the ages are remains of important ethical, social or political institutions. The physical environment of the time, the mental attitude of the people and their leaders, their rituals,—not to mention their building traditions,—are all inherently a part of architecture. The modern architect who stopped to concern himself with all the influences which contributed to the building he is designing would hopelessly destroy his genius. He may, however, analyze the intricacies of another age and bring to his own time, through his art, valuable correctives. There are a few architects who understand their age intuitively, but most artists feel at some time in their careers the need of identifying themselves with a tradition and a philosophy to which they can turn for guidance and inspiration.

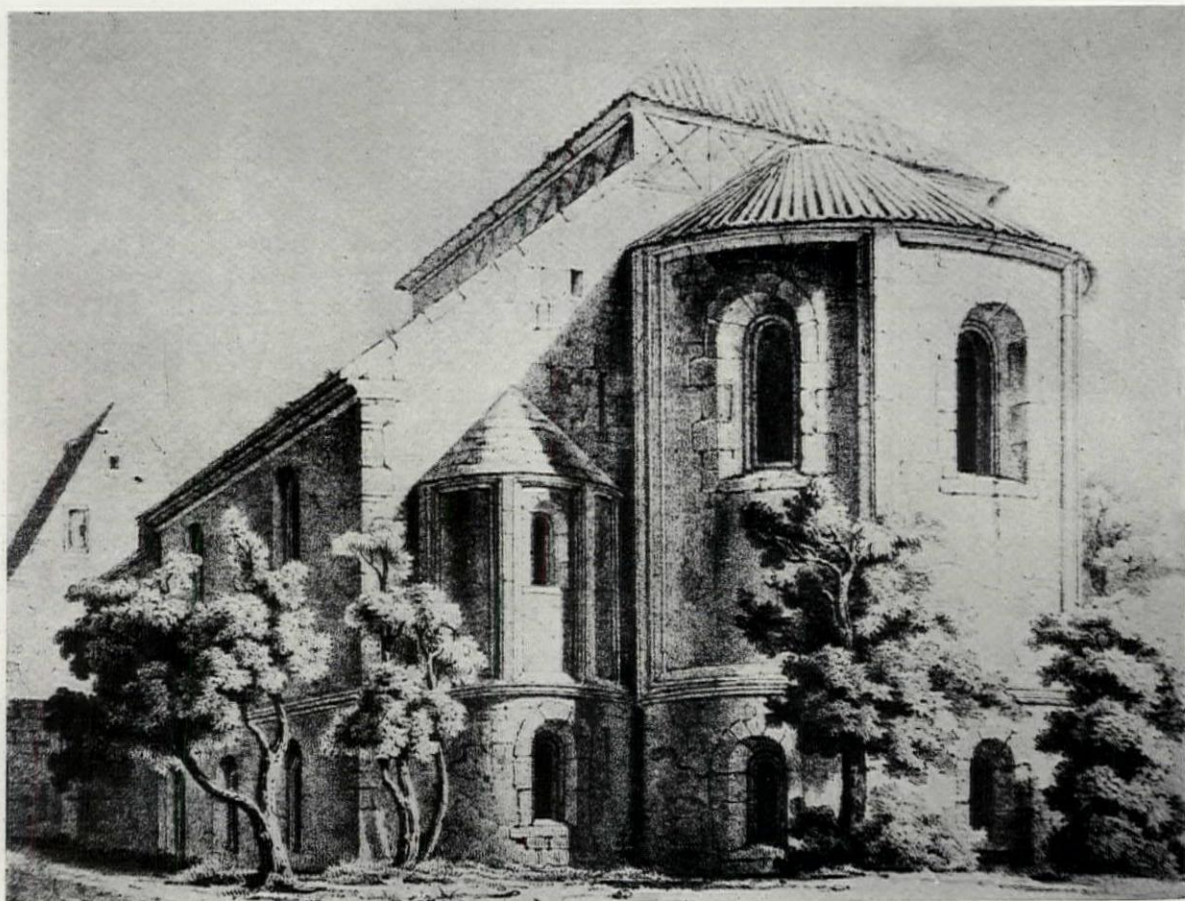
Through fathoming the spirit that motivated mediæval architecture, I had hoped to learn not so much that which is scholastically known as "Gothic" style as to grasp the significance of self-expression. All mediæval ruins held me enthralled when I first went to Europe. It made little difference whether it were a castle in England or a church in France,—anything which had been built between the eleventh and fifteenth centuries was a subject for study. It seemed that during this period there was fostered in all men the desire for artistic creation. In attempting to follow the example of the Creator, men in their small but nevertheless exquisite way endowed material with rare beauty. Eventually my attention narrowed down to small priories or isolated monasteries. Unlike a blatant feudal castle or a gaudy cathedral, the priory seemed to me then to constitute a living entity,—aloof, independent of life's amenities as it guarded the sacred flame of humanity from the fitful storms that swept ceaselessly over Europe. It stood for things that antedated Christianity, and it included all that was permanent and useful in western culture. Only an unsympathetic eye could behold it merely as the offspring of an omnipotent basilica impregnated with oriental philosophy. The priory had less interest for me as a building than as an

expression of ideals common to pagan, Jew and Christian, expressions which transient forces may obscure but which they can never obliterate.

While the Semitic tribes were wanderers, a portable Tabernacle served as a rallying place where personal succor was sought through collective intervention. When the fertile river valleys tempted the tribes to settle and build cities, there was need of law courts, houses of assembly and fortresses. The Tabernacle took over these secular functions, since it was the only place where community life had ever existed for the tribe. Similarly, the secluded citadel of pre-Christian times developed into the pagan temple when organized war for communal rights took the place of spasmodic marauding for selfish gain. The temple served as a symbol of union and as a common treasury for the more gregarious tribes against a barbaric enemy. The offerings made by individuals added to the community's benefits. The beginnings of the priory cannot be dissociated from these influences. To the idea of external propitiation of one kind or another, Christianity, through the examples of the Fathers, had suggested the possibilities of self-abnegation as a corrective for the ills besetting a sedentary civilization. But incessant warfare prevented any common endeavor or spiritual coherence. Wherever the conqueror destroyed, he rebuilt according to his own habits, as heedless of the work he demolished as he was of the brotherhood of man. Until the crusades each community interpreted St. Paul according to provincial contingencies, and church architecture was a local problem with local traditions. Still, in each priory the original, common Christian ideal was maintained unaltered.

Did the disappearance of monastic institutions imply the loss of the culture we associate with them? Or do its peculiarities form a fundamental part of human nature which has found architectural expression in other organizations?

The priory at Moret-sur-Loing had long ago been abandoned as a tannery storeroom when I first saw a corner of its well knit rubble stone wall projecting into the road. I had been sketching in the town cathedral, when a priest showed me an old print of Moret. He told me the story of its ancient glory and sad decline, and among other monuments which he said had disappeared was the Prieure de Pontloup. As I pushed open the battered wooden door, I realized that I was standing amid the ruins of the old church. After weeks of measuring and study, I completed the



The Prioory at Konradsburg, from an Old Print

drawings for the restored building. This study led me into an investigation of asceticism and particularly of the lives of such men as Simeon Stylites and Benedict of Nursia. They were not the first to lift themselves above the senseless turmoil of the time. A thousand years before them Pythagoras adopted the same attitude. Then there had been the Essenes in Judæa and the Therapeutæ of Egypt.

With the founding of the Order of St. Benedict, asceticism became comprehensible to people who had regarded it with superstition or covert ridicule. A new plane of existence was revealed, an encompassing world where citizenship was based not upon tribe, nation or religion but upon a transcendent quality peculiar to the vigorous and the young. It took all of Benedict's genius to perpetuate this quality. Until his time there was no established "rule;" each group of ascetics had lived according to what seemed proper to the conditions of the time and place, but by the end of the eighth century St. Benedict's rule was known over all of western Europe. A code of 73 chapters described minutely and yet briefly the Order's life of silence, humility and obedience.

St. Benedict sought to keep the energies of his

organization confined to purposes exalted enough to encompass everything worth while in life, and yet so limited as to prevent its being racked by the struggle of internecine forces. When Pope Urban II directed the eyes of Christendom to the Holy Land, many petty strifes were absorbed by the imminent single struggle. While the fiery zeal of men like St. Bernard, representatives of the one stable traditional element in Christianity, awakened the multitudes, the monasteries supplied a neutral meeting place for the allies. A fragmented society learned to appreciate the company of its neighbors in assembly and at prayers,—not to mention in times of war.

The monk took three vows. 1. *Stability*; he bound himself forever to the monastic family. 2. *Conversion*; he renounced the three concupiscences. 3. *Obedience*; the monk subjected his will to the command of a superior. Unceasing prayer kept the monk reminded of his vows and offset the temptations of self-indulgence by the refreshing experience of shared lofty emotions. People of the surrounding country joined in the more simple and obvious forms. Mass, sometimes held out of doors, like Grace dignified the day of crude physical activity and self-emolument. Monastic



Ruins of the Priory at Serabonne

labor included all the activities that took place in a small city of the time, without the arrogance which usually accompanies individual accomplishment. The monks tilled the soil, learned trades, engaged in commerce and took part in the controversies that developed from all this work. The joy of labor, having replaced the pride of achievement, demanded a form of expression. "The laborer holding the handle of the plow shall chant alleluia; the reaper drenched in sweat shall walk along singing psalms; and while the vine-dresser prunes the backbent vinestock with his sickle, he shall mumble King David's psalms." (Dom Martene. *De antiquis monachorum ritibus*). Whether rendered in set old phrases, in stone or with paint, the melody transmuted the crude material into a complement of the moment's joy. The priories, built in many instances by the monks themselves, are the most eloquent examples of this abandonment to the pleasure of workmanship and also monuments to worthy construction.

The capitals and balcony carvings in the priory of Serabonne are incomparable examples of monastic art. I came upon this little church while studying the work at St. Michael de Cuxa in the Pyrenees mountains. Accessible only by way of a mountain path, the priory is hardly known. I

thought at first I would make only a few sketches of the sculpture, but I became so fascinated with this marvelous gem, set amid the bleak ranges, that I decided to make a study of the entire building. "If it should happen that a brother is enjoined with a difficult or even an impossible task, he must receive the command given him in all meekness and obedience." (*Reg. S. Bened. clxviii*). As there was no hotel within several miles, I lived in the priory, using an old coffin filled with straw as a bed. A kitchen was constructed in one of the subterranean vaults which had partially fallen through. I was reminded that food and drink supplied a sensual attraction to the novice which the monotonous tone of the "reader" in the refectory could not always succeed in overcoming when a young monk's appetite was sharpened in the keen mountain air! Benedict believed that punishment deprives the erring one of dominion over his own worldly life; that it wrests from man the noble dignity which comes from a consciousness that his soul, which he identifies with his Creator, is sole arbiter of his fate. But the compensatory nature of a man's acts, and in the case of evil their retributory character, also thwart this dominion. Through submission to a superior and through confession, the monk

sought to preserve the best part of himself and to continue in that state of grace necessary for a happy earthly existence.

The following year, accompanied by my father, I sought another example of a priory, in Germany. Near the town of Ermsleben, in the Hartz mountains, we found the remains of a twelfth century church built into an old feudal estate known as Konradsburg. The tenants seemed to be living under conditions far worse than those said to have been prevalent seven centuries ago. As we measured and sketched the ruins we obtained an unusually good picture of peasant life, and we heard those strange stories which often make the past seem far away, but which in our situation made the ancient plots live again.

Refining the technique of living is reserved for sensitive natures, who, possessing many resources, will exploit them only for a transcendent purpose. In general this means a renunciation of the greatest portion of life and, to the ordinary man, annihilation itself. Then there comes a Paul, a Bernard, or a Joan, who, by thwarting their own hidden nature, change the contemporary tendencies and bring to a focus within themselves the surging inchoate forces of a new existence for men.

In the twelfth and thirteenth centuries that part of Spain not subjected to the Moors thrived under a form of monastic leadership which depended upon the ideals of the Christian Fathers for its authority. But an institution, unlike an individual, may persist a long time after its usefulness is accomplished. When the little communities no longer needed the lesson of contented living through restraint and craftsmanship, monasticism waned but did not wholly disappear. The priory became the community church, and the prior the curate. Near the town of Reinosa there is a small mountain village called Retortillo. At the time of the year I found the priory, the peasants were cutting their winter hay. Everybody, from small tots perched atop of the loaded ox-carts and preventing the wind's blowing the hay away, to leather hided, wizened grandfathers and grandmothers who gathered the grass together as it was cut by the younger generation, took part. I first saw the rotund figure of the curate, swathed in his long black soutane, swinging a scythe with the others. It was near the hour of lunch, and he invited me to share his meal in the shade of the loaded cart while we discussed the possibility of making drawings of his little church. We finally arranged that his niece, who rode to Reinosa every morning with the milk, would stop at my hotel and carry my instruments up the mountain to Retortillo. He wanted me to ride on the little donkey too, and seemed surprised when I told him I preferred to let his niece ride!

These brief accounts of the four priories,—Pontloup (Moret), Serabonne, Konradsburg and Retortillo,—are attempts to explain, through the measured drawings and archæological facts, the significance of the priory and its historical and sociological implications. Although the ascetic's most eloquent passages were the living moments of his life, archæology may make his ideals accessible to contemporary man. The aspirations of the Greek artist and the Hebrew prophet may be found again in them and reinterpreted by the discerning architect!

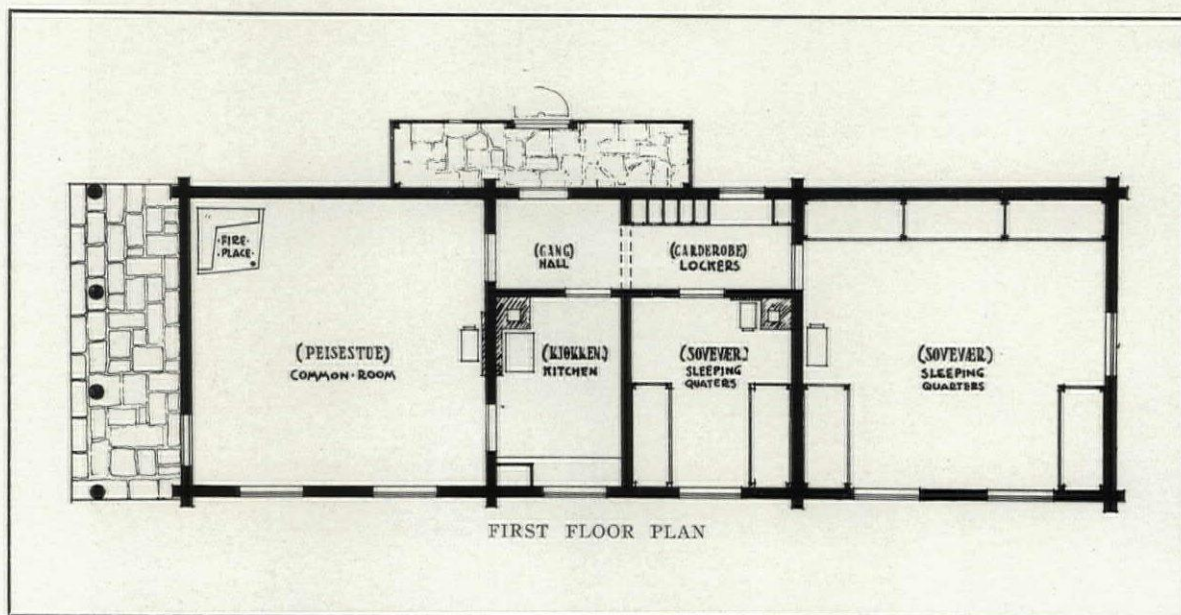
EDITOR'S NOTE. This introduction to "Studies of Certain Priories of the Eleventh and Twelfth Centuries" serves to give a slight idea of the sympathetic and understanding treatment Mr. Lowenstein has given to the subject, a subject seldom studied or appreciated by the modern architect, and yet one which should be of inspiration and value to church builders of today. It was in the monasteries and priories of mediæval Europe that the fundamental principles of the early Christian faith, as well as the remnants of the intellectual culture of the Roman Empire were preserved, after the barbarians swept down over the land and destroyed the decadent civilization of southern Europe. It was here that the literary relics of the past, including early versions of the Bible, were safeguarded, translated and rewritten. It was here that the Catholic faith was enshrined until it burst forth with renewed strength and vigor, to find visual and architectural expression in the churches and cathedrals of England, France, Spain and Italy toward the end of the middle ages. What more natural, then, that the church builders of today should be powerfully influenced by the architecture of the monasteries and priories, in which the Church itself had been preserved, and which had been given new strength, new meaning and new architectural expression? It is for this reason that THE ARCHITECTURAL FORUM has availed itself of the opportunity to publish Mr. Lowenstein's valuable discussions on four of the oldest European priories, Pontloup (Moret), Serabonne, Konradsburg and Retortillo. The introduction to these discussions, published here, clearly indicates the several spiritual and religious influences which, in Mr. Lowenstein's opinion, gave to these old priory buildings such archæological and architectural value.

Milton D. Lowenstein, who was graduated from the architectural school of Columbia University, is now in Europe engaged in special research work for the Institute of International Education. A portion of the results of this work will be published next year in THE FORUM, particularly Mr. Lowenstein's studies of the "housing problem," as solved in Europe.

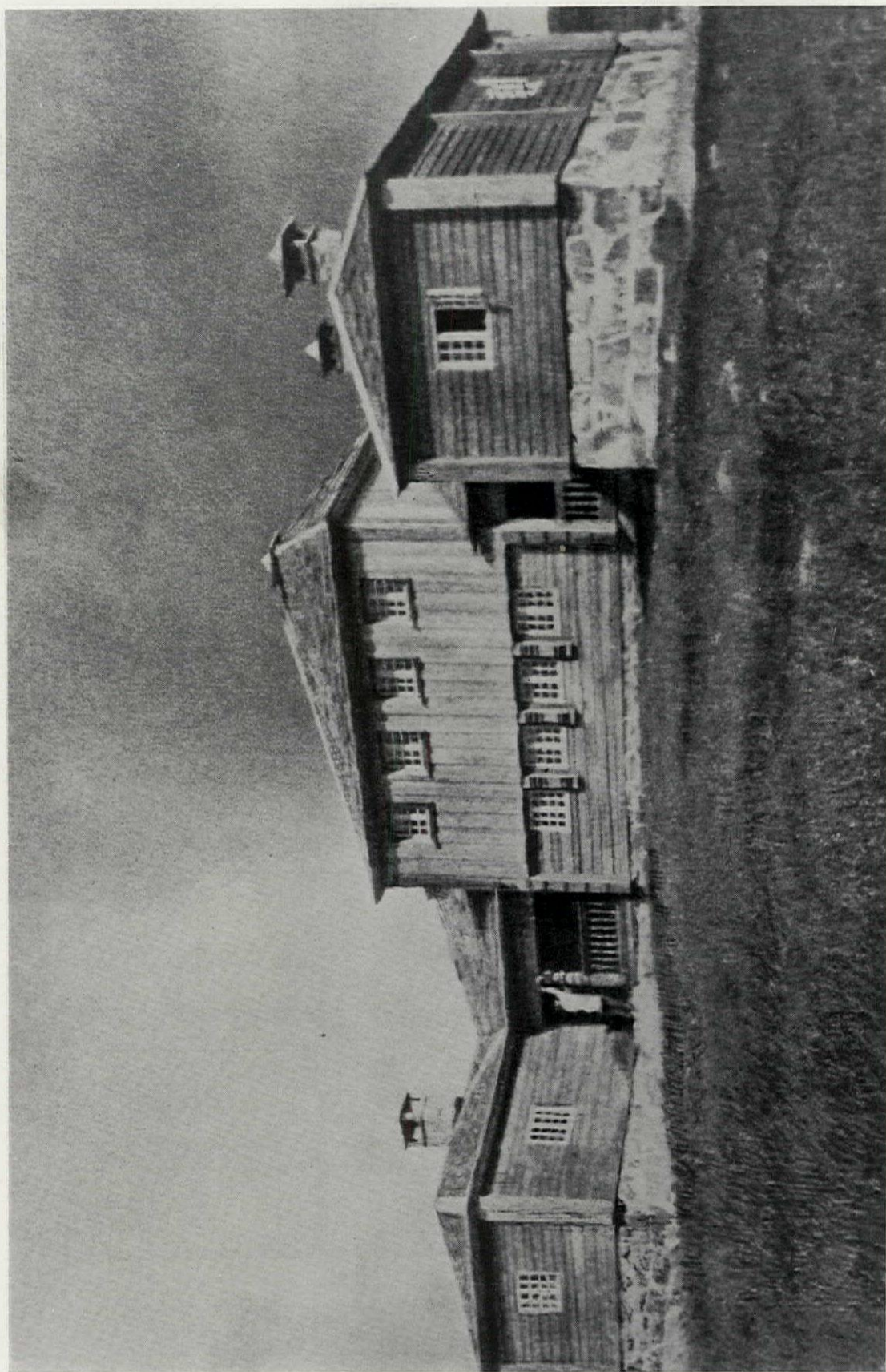
THREE NORWEGIAN LOG HOUSES



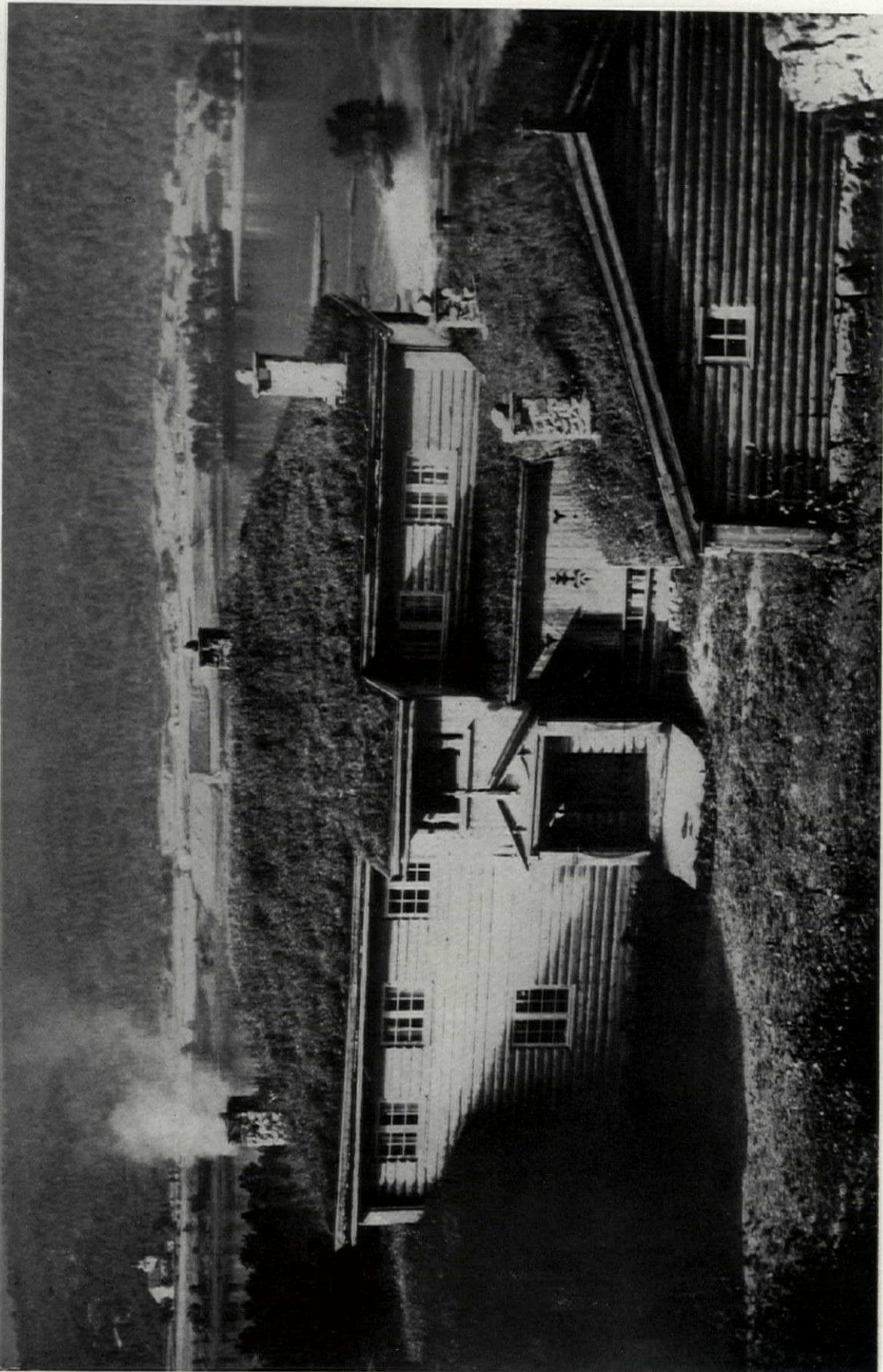
Photos. Sigurd Fischer



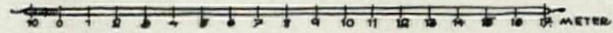
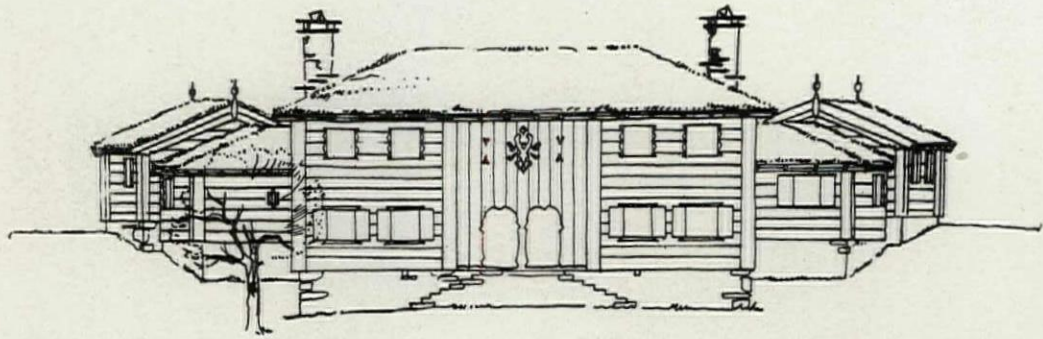
"SKI" CABIN FOR "SKI" CLUB, NORDMARKEN, NORWAY
HENRIK NISSEN, ARCHITECT



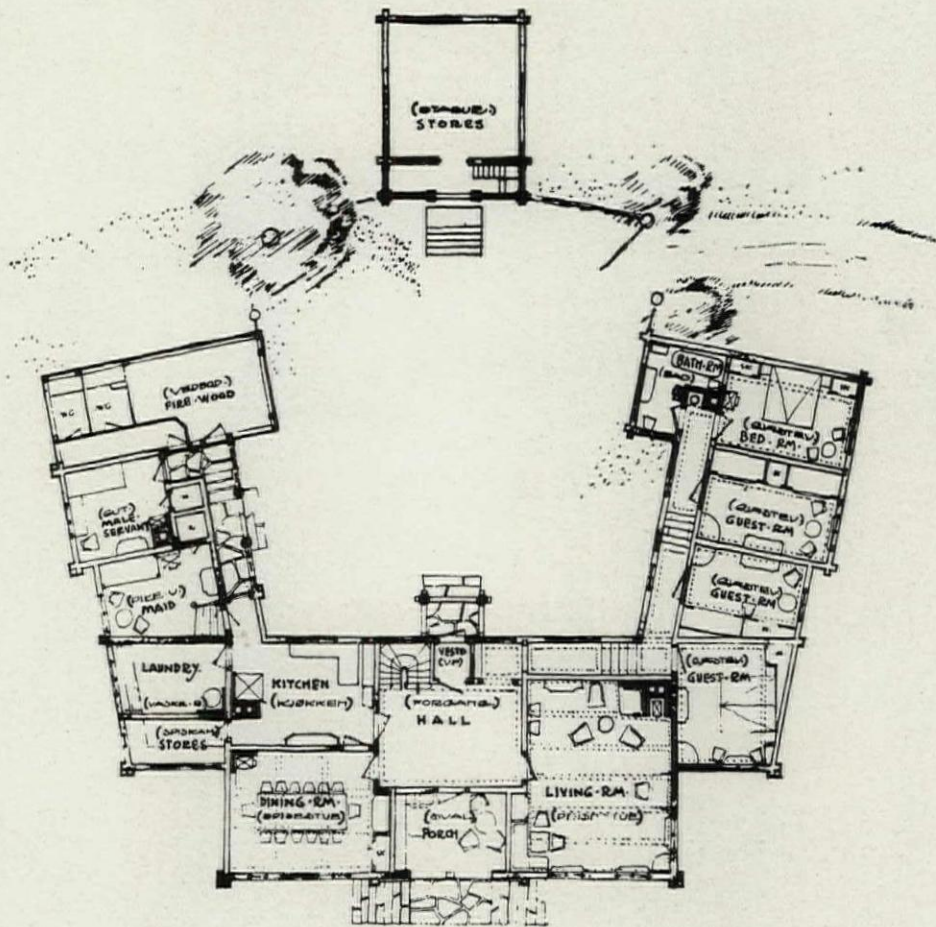
HUNTING LODGE FOR B. STANG, ESQ., SLETKOLLEN, NUMEDAL, NORWAY
MAGNUS POULSSON, ARCHITECT



MOUNTAIN HOUSE FOR EMIL STRAY, ESQ., SAETERDAL, NORWAY
MAGNUS POULSSON, ARCHITECT



SKETCH ELEVATION



FIRST FLOOR PLAN

MOUNTAIN HOUSE FOR EMIL STRAY, ESQ., SAETERDAL, NORWAY
MAGNUS POULSSON, ARCHITECT



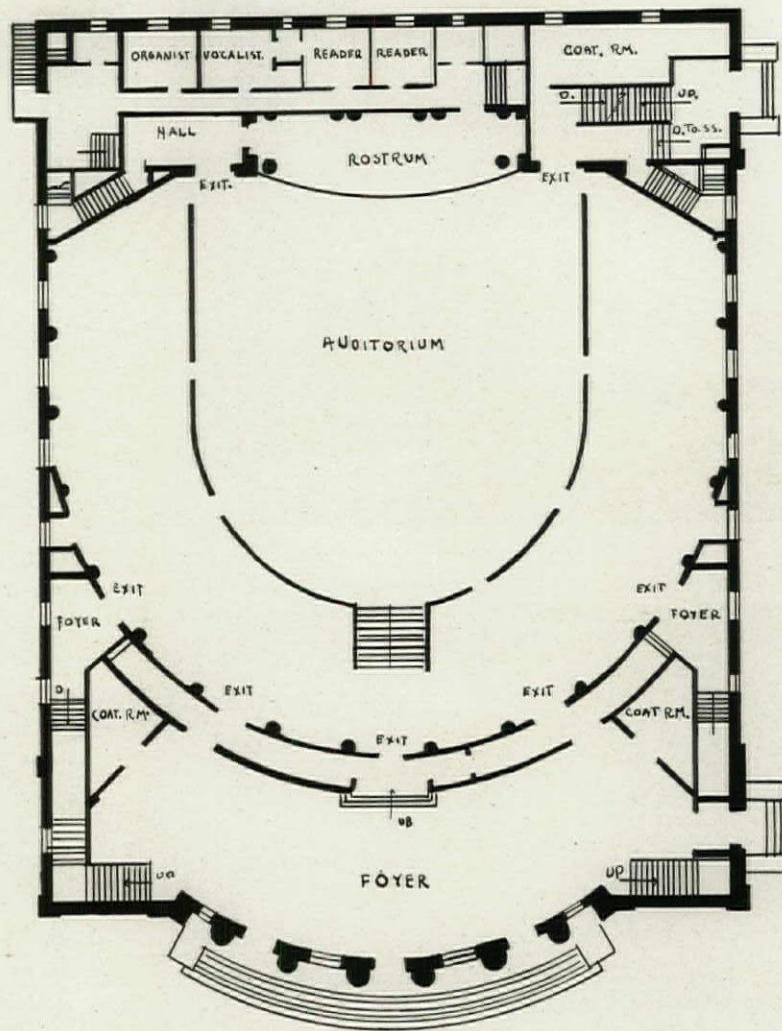
GENERAL VIEW



Photos. Thomas Ellison

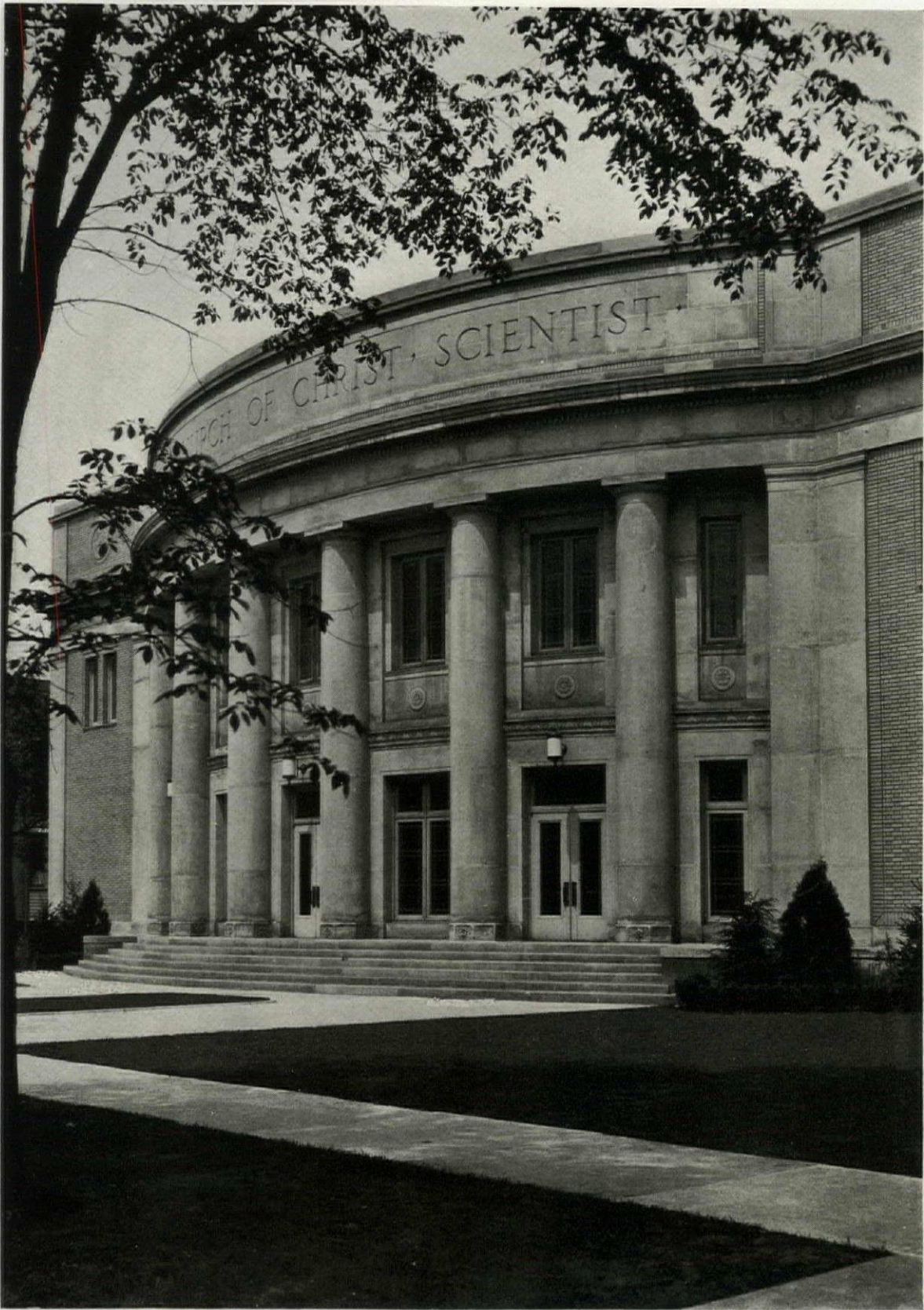
Plan on Back

INTERIOR
THIRD CHURCH OF CHRIST, SCIENTIST, DETROIT
GEORGE D. MASON & CO., ARCHITECTS

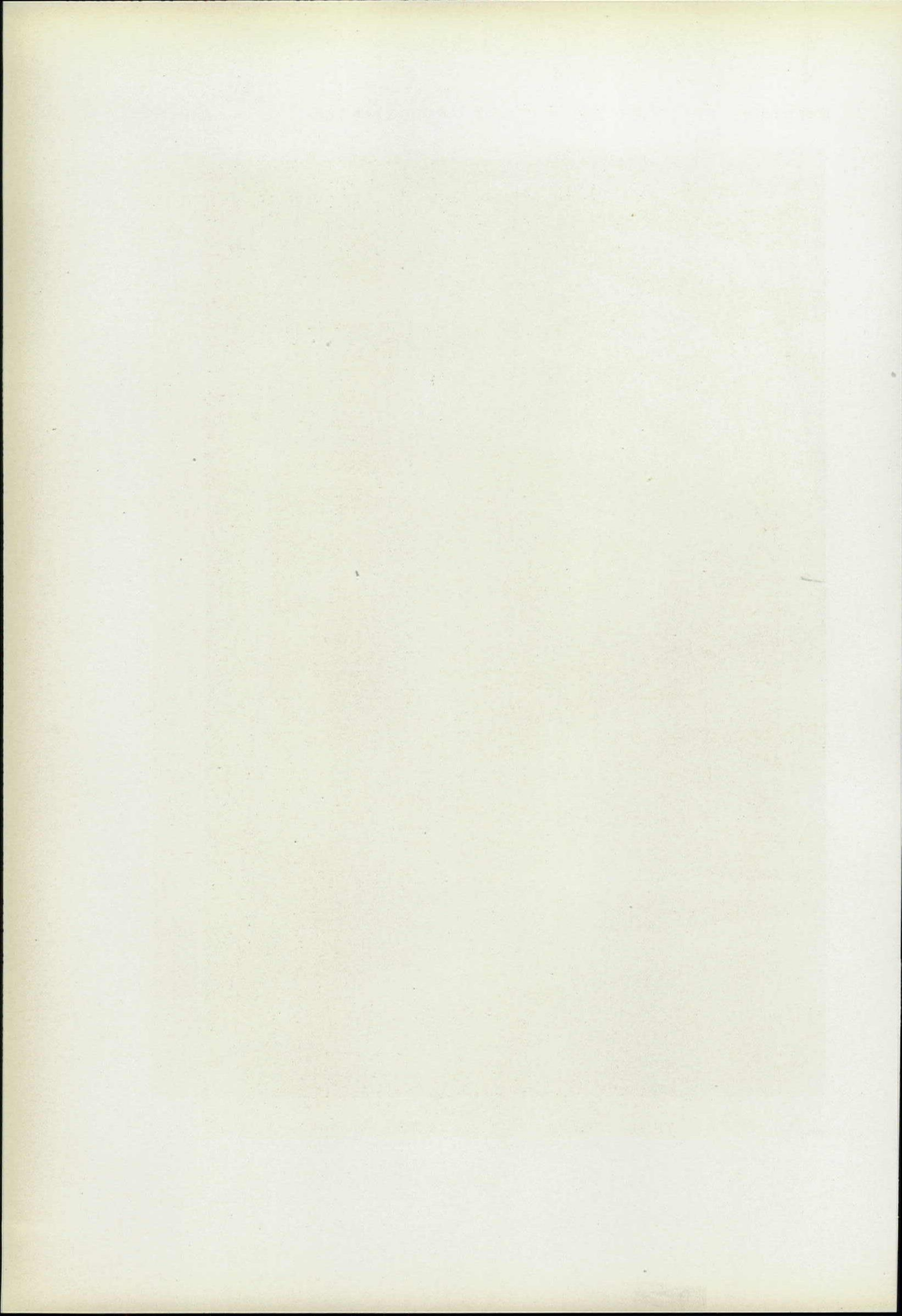


FIRST FLOOR

PLAN. THIRD CHURCH OF CHRIST, SCIENTIST, DETROIT
 GEORGE D. MASON & CO., ARCHITECTS



MAIN FACADE
THIRD CHURCH OF CHRIST, SCIENTIST, DETROIT
GEORGE D. MASON & CO., ARCHITECTS

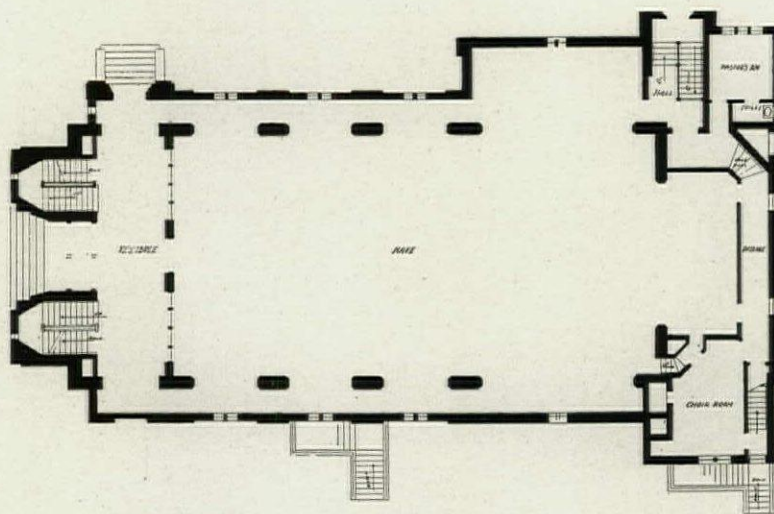




Plan on Back

Photos, Thomas Ellison

GENERAL VIEW
PRESBYTERIAN CHURCH OF THE REDEEMER, DETROIT
GEORGE D. MASON & CO., ARCHITECTS

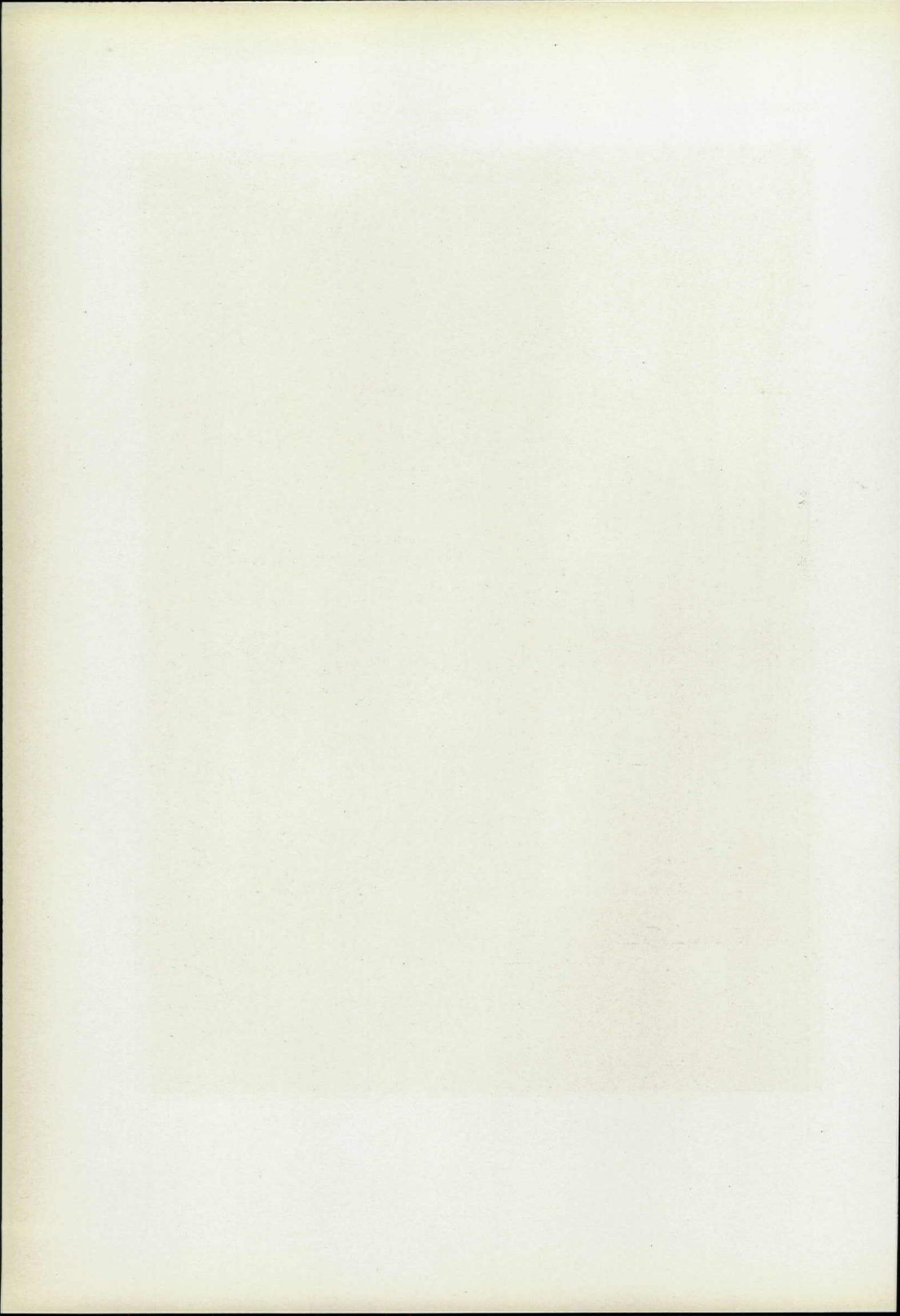


FIRST FLOOR

PLAN. PRESBYTERIAN CHURCH OF THE REDEEMER, DETROIT
GEORGE D. MASON & CO., ARCHITECTS

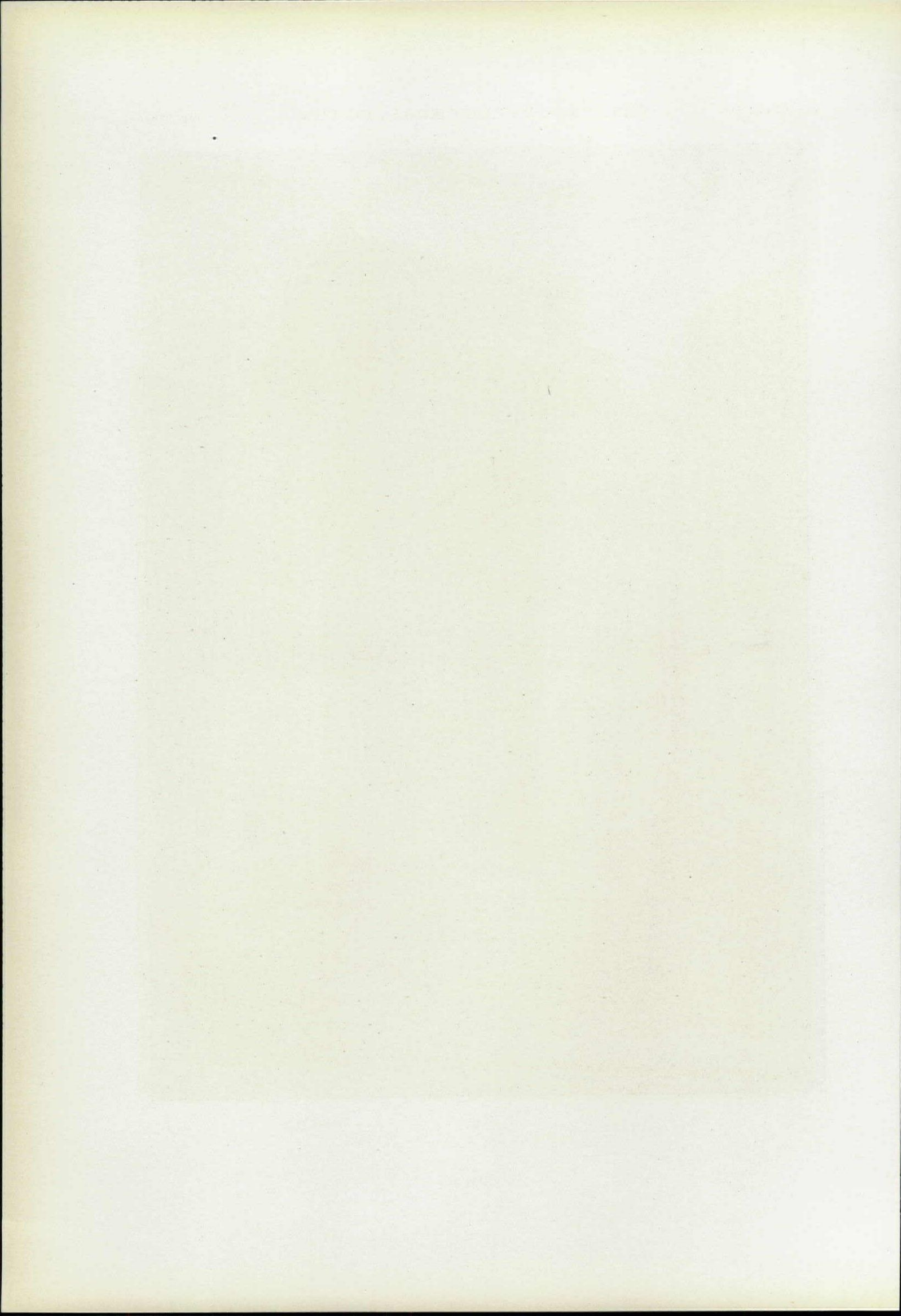


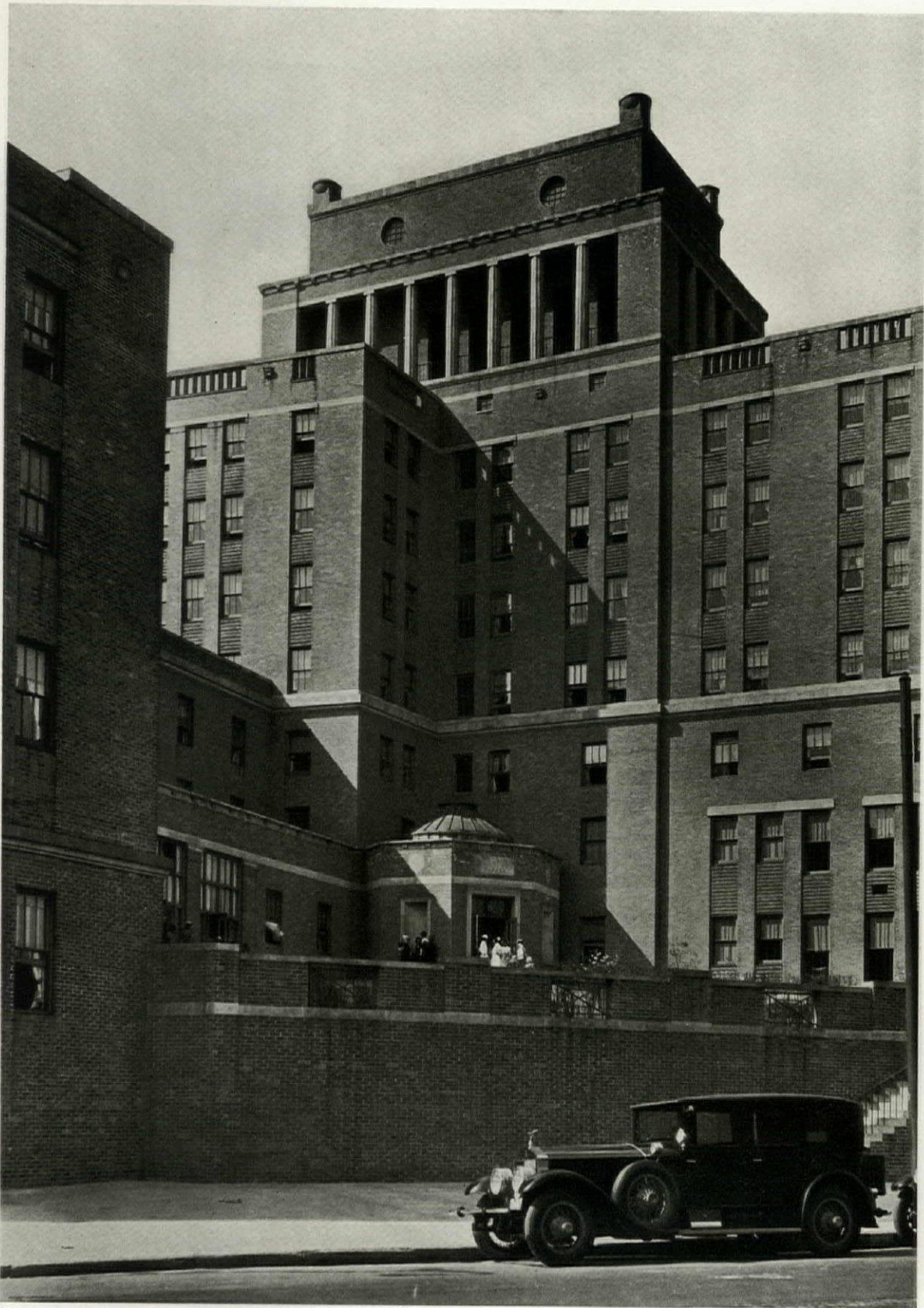
WEST FRONT
PRESBYTERIAN CHURCH OF THE REDEEMER, DETROIT
GEORGE D. MASON & CO., ARCHITECTS





INTERIOR
PRESBYTERIAN CHURCH OF THE REDEEMER, DETROIT
GEORGE D. MASON & CO., ARCHITECTS

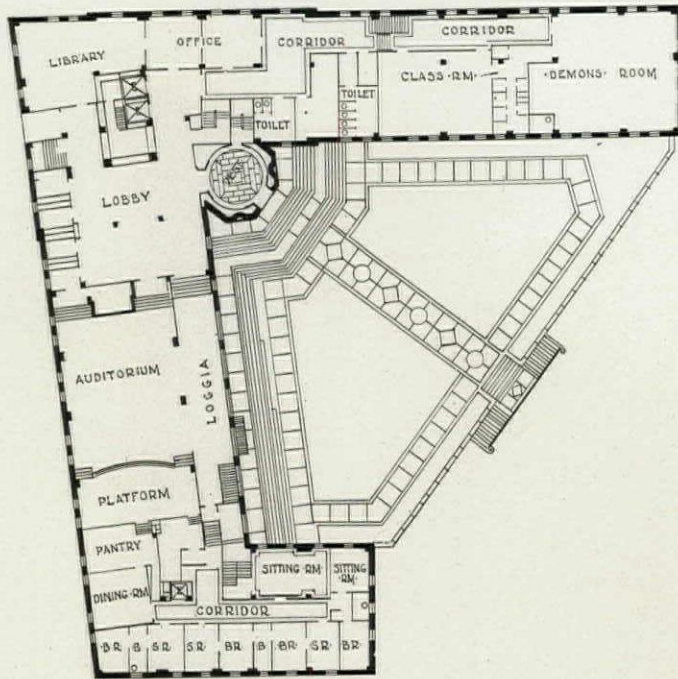




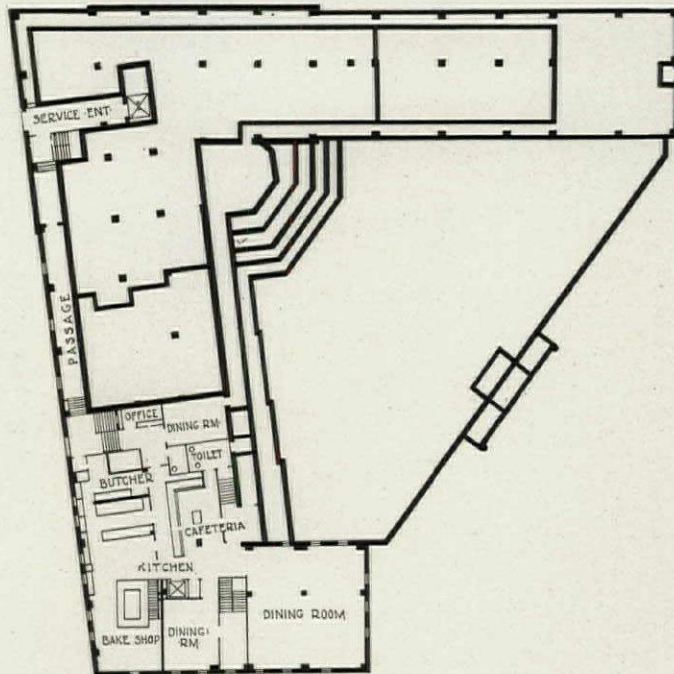
Photos. S. H. Gottsche

LINCOLN SCHOOL FOR NURSES, NEW YORK
PENNINGTON & LEWIS, INC., ARCHITECTS

Plans on Back



SECOND FLOOR



FIRST FLOOR

PLANS. LINCOLN SCHOOL FOR NURSES, NEW YORK
 PENNINGTON & LEWIS, INC., ARCHITECTS

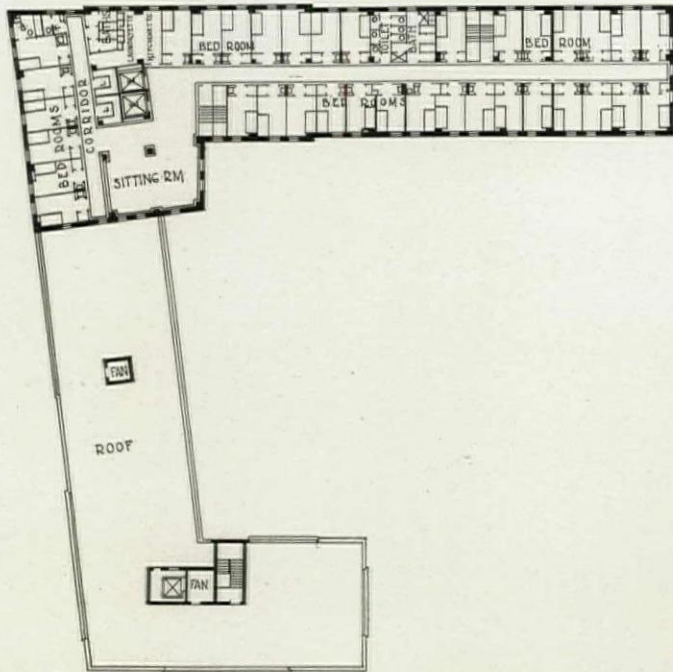


GENERAL VIEW

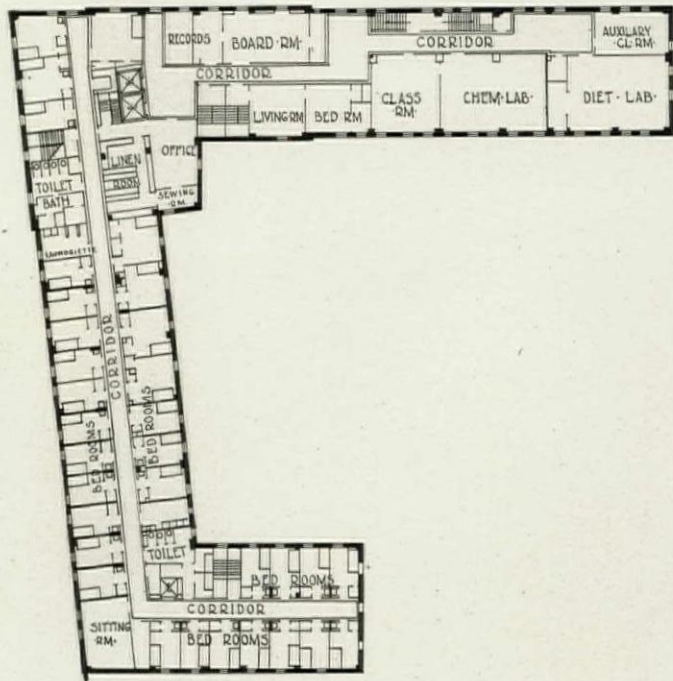


Plans on Back

VIEW FROM 141st STREET
LINCOLN SCHOOL FOR NURSES, NEW YORK
PENNINGTON & LEWIS, INC., ARCHITECTS



FIFTH, SIXTH & SEVENTH FLOORS



THIRD FLOOR

PLANS. LINCOLN SCHOOL FOR NURSES, NEW YORK
 PENNINGTON & LEWIS, INC., ARCHITECTS

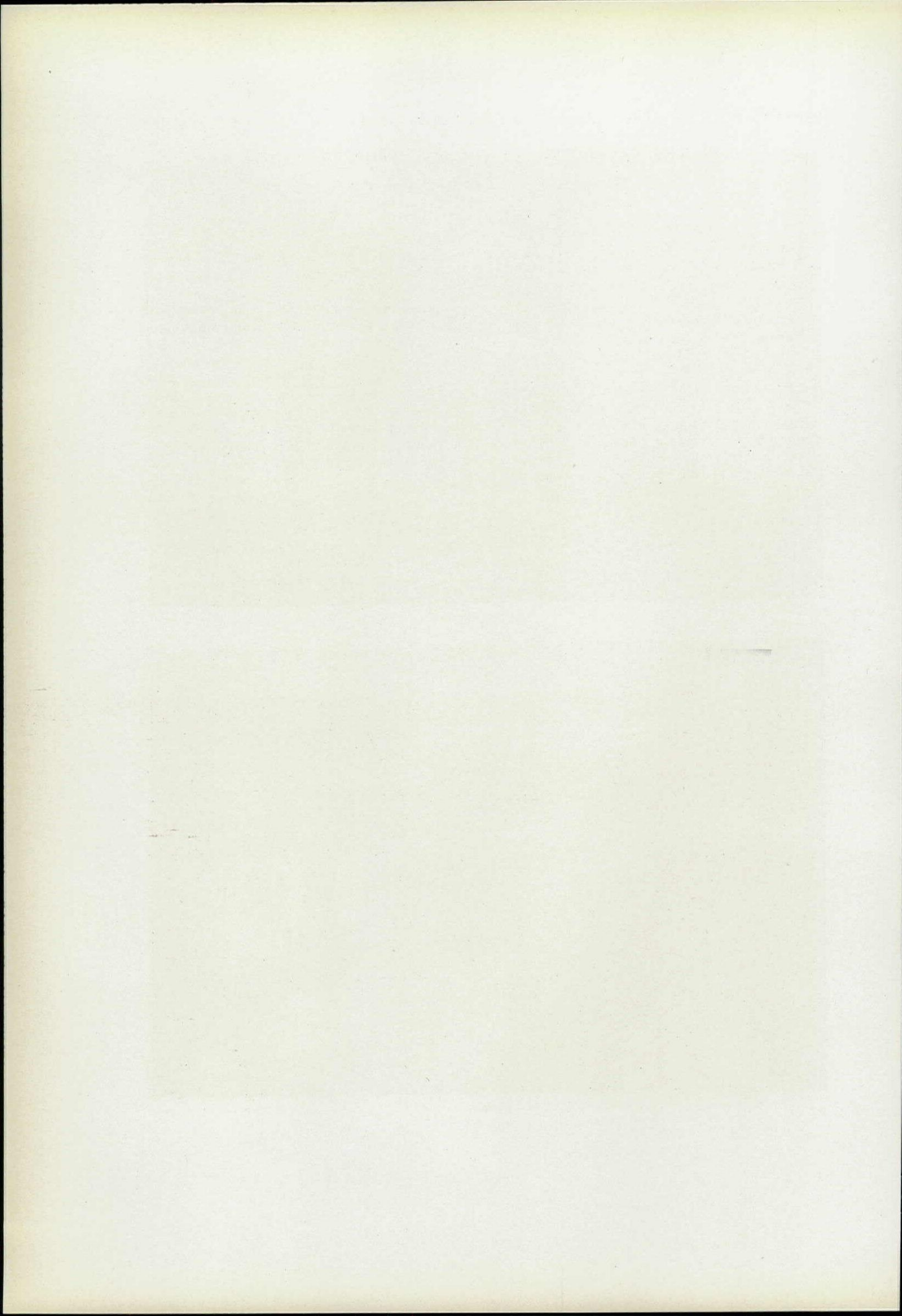


AUDITORIUM



LOBBY

LINCOLN SCHOOL FOR NURSES, NEW YORK
PENNINGTON & LEWIS, INC., ARCHITECTS



THREE GARDENS AT GROSSE POINTE, MICH.

RUTH DEAN, LANDSCAPE ARCHITECT

BY
ANNE LEE

AWARDED The Architectural League's 1929 Medal of Honor in Landscape Architecture, Ruth Dean is the first woman to achieve this distinction. Although the award was made for three Grosse Pointe, Mich., gardens, it may be assumed that the background and professional prestige of the contestant were duly considered along with the specific gardens for designing which the medal was bestowed. The precedent established by this recognition of a woman landscape architect no doubt lends encouragement to the increasing number of women engaged in that profession. Sixteen years of independent practice, following her training at the University of Chicago and varied experience in both architecture and landscape work here and abroad, have given Miss Dean every type of landscape problem to solve. Her commissions have included developing tiny plots as well as small and large estates in various parts of the country, and the results have earned for her a name for successful work in the planning and planting of gardens. Due to her knowledge of architecture, this landscape architect has also acquired a habit of thinking in terms of architecture, of working with the two-

fold purpose of creating a garden that is not only beautiful in itself but that affords a proper setting for the specific house to which it belongs.

The medal-winning Grosse Pointe gardens exemplify the diversity of Miss Dean's landscaping. Two of the three gardens,—those of Mrs. Howard Bonbright and Ledyard Mitchell,—are somewhat architectural in plan although informal in feeling, whereas the third,—that of Hiram Walker,—is distinctly naturalistic. The former two, each consisting of an acre or a bit less, illustrate the possibilities of this popular sized plot. So designed that they afford considerable privacy and adequately meet the needs of their owners, these gardens are examples of securing the maximum utilization of comparatively small areas. Restfulness has been achieved by means of a well balanced relationship between open stretches of lawn and luxuriant planting in the one case, and in the other between large, old trees and beds of perennials. Grass paths, pools and effective brick walls are features of both gardens.

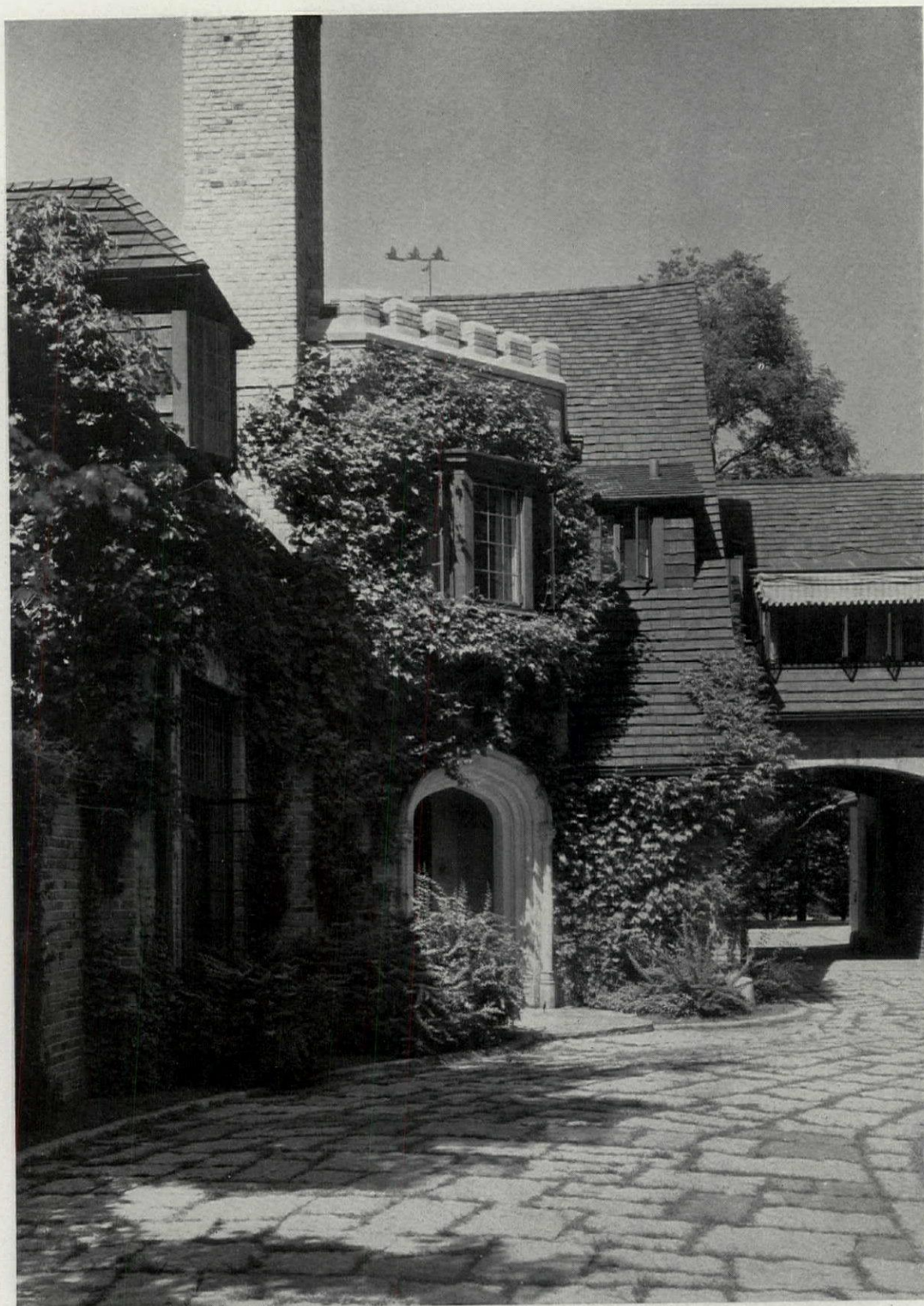
Somewhat unusual in plan is the Bonbright garden. The fan-shaped arrangement met the client's desire to have the garden afford an effect



Photos. Tebbs & Knell, Inc.

Careful Planting of Perennials, With Grass Paths, Produces Interesting Effects in the Hiram Walker Garden

Ruth Dean, Landscape Architect



VIEW OF THE HOUSE OF HIRAM WALKER, ESQ., SHOWING TERRACE AND PLANTING
IN COURTYARD
RUTH DEAN, LANDSCAPE ARCHITECT



VIEW FROM THE HOUSE OF HIRAM WALKER, ESQ., SHOWING THE PRIVACY OF THE GARDEN

RUTH DEAN, LANDSCAPE ARCHITECT



Although the Illustration Shows the Concrete Rim of the Pool, Which Was Not Entirely Filled, It Was So Built That Grass Could Be Grown to Meet the Water Line Without Showing Concrete



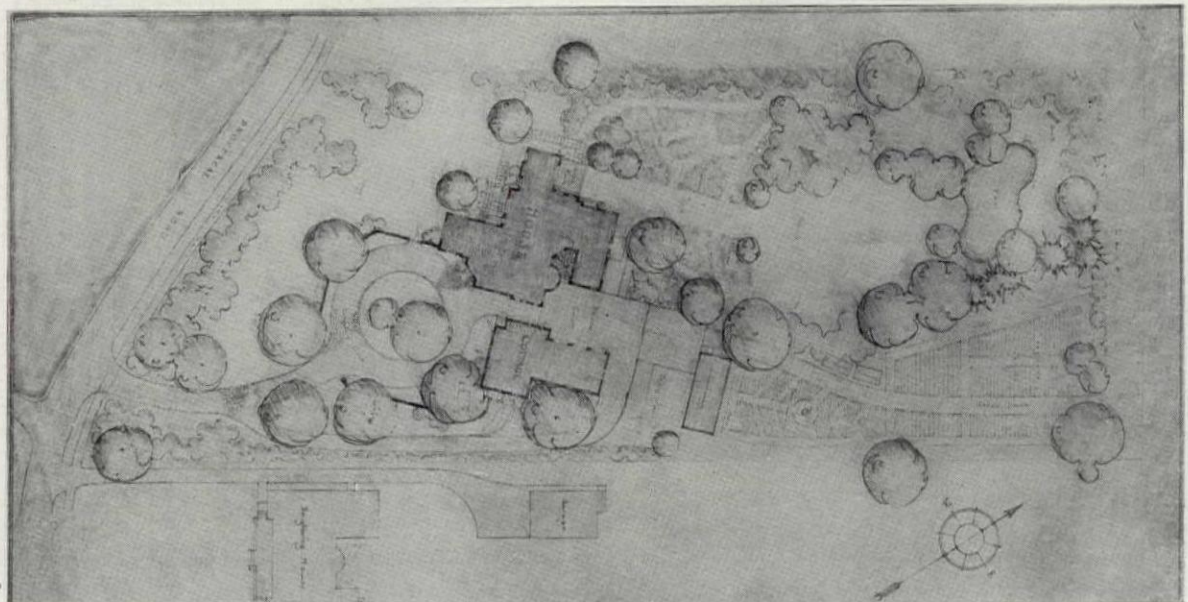
Limestone Slabs Give the Pool a Picturesque Effect with Water Spilling Over Stones from an Upper Level to Give the Effect of a Natural Spring-fed Pond

Garden of Hiram Walker, Esq.

Ruth Dean, Landscape Architect

of spaciousness and at the same time seem intimately related to the terrace. This was accomplished by keeping the main axis open and by using side paths that radiate from the terrace. To lend an effect of distance, hawthorn trees were

placed in front of the pool, one on each side of a path wide enough to permit a view and give depth. Due to the square-shaped plot, the landscape architect found it necessary to secure an effect of depth entirely by means of planting. There was



Sketch Plan. Garden of Hiram Walker, Esq.

Ruth Dean, Landscape Architect



Flower Beds in the Garden of Hiram Walker, Esq.
Ruth Dean, Landscape Architect

little or nothing available in the way of trees to begin with. To block out a rather high brick house on the adjoining property, it was necessary to depend upon heavy planting to give seclusion.

In the Mitchell garden, the red brick wall, built with piers and capped with flagstones, serves as a background for vines, primroses, ferns, Canada lilies, plantain lilies, Solomon seal, snakeroot and violets, these plants having been used because of the amount of shade thrown by the splendid, old large maples and because of the fact that they take so much nourishment from the soil.

The Walker garden,—which shows the most ingenious planning and is perhaps the most interesting of the three,—comprises about four acres. With a frontage of only 250 feet and a depth of 500 feet on one side and 800 feet on the other, the plot presented something of a problem. The existence of number of large elms and native hawthorns suggested adopting the naturalistic style of treatment. So successfully was it carried out that the visitor is inclined to give to nature the credit which really belongs to the landscape architect. Referring to this garden, Miss Dean spoke of it as an ideal operation on which to work. The beauty of the piece of land, a sympathetic client and a most coöperative architect combined to make it so. From the time the first sketches for the house were drawn, Miss Dean worked with the architect. Together they decided upon the location of the house. Making a detailed survey

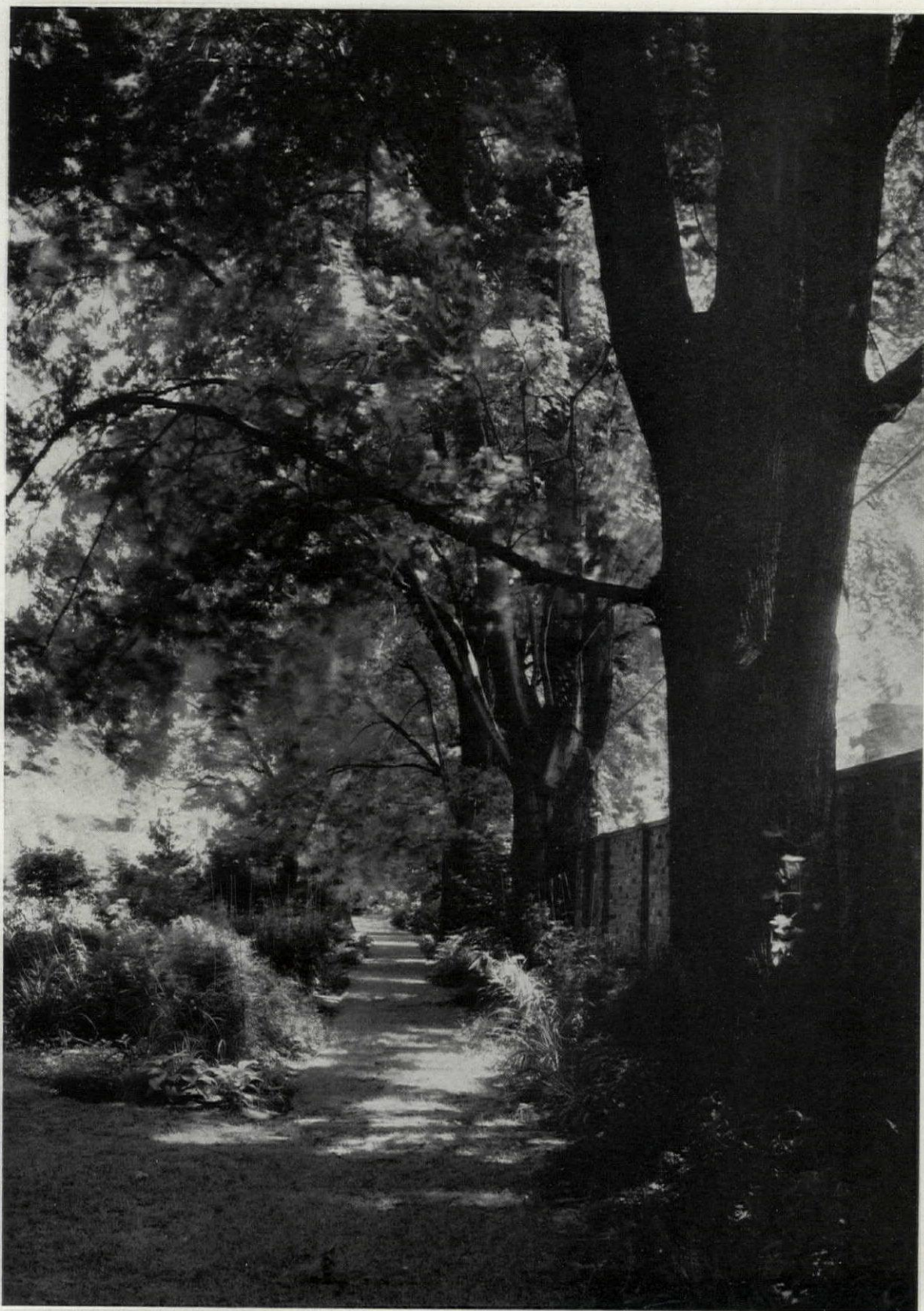
of the land, they experimented with a small, scaled model of the house to determine the most desirable building site,—a location which would assure privacy from neighboring houses and the most advantageous outlook from the principal rooms. Besides accomplishing those objectives, they so placed the house among the trees that they appear to enfold it. The plan included here shows the effective arrangement of the vegetable, herb and flower gardens, the latter with irregularly shaped beds and grass paths. There is a wide grass lane through the vegetable garden, which was carefully planned with cut flower borders to edge the paths and with a grape arbor at the far end to help frame it. A large, irregularly shaped swimming pool set among the trees at the rear of the plot is one detail of the Walker garden. In its successful naturalistic effect, there is no hint of the conscientious effort that was made to have it appear that the pool was the work of nature. Excavation for the concrete tank provided earth for a rise in the land at one end, the level of which is 4 feet higher than the pool level. By lining that end of the pool with slabs of mellow-toned limestone, only the weathered edges of which are exposed, and by piping the water to the top of the rise so that it spills over the stones into the pool, the effect is that of a natural spring's being the source of supply. This naturalistic effect was further heightened by building the concrete tank so that earth could be



VIEWS OF GARDEN FROM THE TERRACE, SHOWING LARGE OPEN SPACE IN CENTER WITH PATHS AT THE SIDES



A PLAYGROUND IS LOCATED AT ONE END OF THE PLOT; GARDEN OF MRS. HOWARD BONBRIGHT
RUTH DEAN, LANDSCAPE ARCHITECT



A LONG GRASS PATH BETWEEN BEDS OF PERENNIALS LEADS TO THE POOL IN THE GARDEN OF LEDYARD MITCHELL, ESQ.
RUTH DEAN, LANDSCAPE ARCHITECT



Two Views of the Garden of Mrs. Howard Bonbright
Ruth Dean, Landscape Architect

placed over the receding rim in order that grass might be grown to the edge of the water line. Due to the fact that the tank had not been entirely filled when the pool was photographed, the rim is visible in the two illustrations shown on page 508.

Wild prairie roses and wild grape, banked behind the pool so that their branches fall naturally over the stones, add to the effectiveness of the setting. The springboard is placed between beds of mint. Locust logs form the steps leading to the rise, where a rustic seat placed amid luxuriant foliage affords a secluded spot. The planting there includes shadbush, black alder, arrow-wood, hawthorns, ironwood, and some bittersweet. Elders, white birches, beeches, elms and oaks are to be found among the trees behind the pool. To approach the swimming pool from the house, one may take either of the two paths leading from the paved area outside the dining terrace. The narrow grass path separates beds of perennials, luxuriant with bloom throughout the seasons, from tulips to chrysanthemums. Skirting a clump of trees, including large existing sycamores, lindens and a hawthorn, this path rambles through a delightfully wild retreat, where plant life native to that region is allowed to grow in profusion amid numerous trees that make the spot a woodland nook. The planting there includes snakeroot, baneberry, wild asters, beebalm, Solomon seal, wild columbine, lady slippers and several varieties of native ferns. There are witch-hazel, high bush

cranberry and ninebark shrubs, and the trees include the white pine, bird cherry, elder and Judas. The other path is a broad grass lane that runs past the rose garden to the large, beautifully kept lawn, across it and through the trees to the pool. Both paths were planned to lend pleasant vistas from the dining terrace. Several large elms are so situated on the property that shadow effects on the lawn are lacy and interesting, the landscape architect having made an effort to avoid too much solid black in the shadows. Proper placing of trees will produce shadows to break a plain stretch of lawn, and that was kept in mind.

Among its other charms, the Walker garden has the effect of spaciousness and the privacy achieved by the planning as foremost factors. Because of the shape of the property, this accomplishment is especially noteworthy. Work on this estate was begun in 1925, some of the planting having been done before the house was commenced. Since its completion the next year, Miss Dean has been called in to make an inspection and submit a report on the condition of the garden each spring and fall, her recommendations being carried out by the gardener. This may be another reason why the landscape architect refers to the Walker garden as "an ideal commission,"—another reason, perhaps, why it helped win the Medal of Honor awarded to Miss Dean by The Architectural League at the Architectural and Allied Arts Exposition held in New York in April.

THE BALDWIN LOCOMOTIVE WORKS OFFICE BUILDING

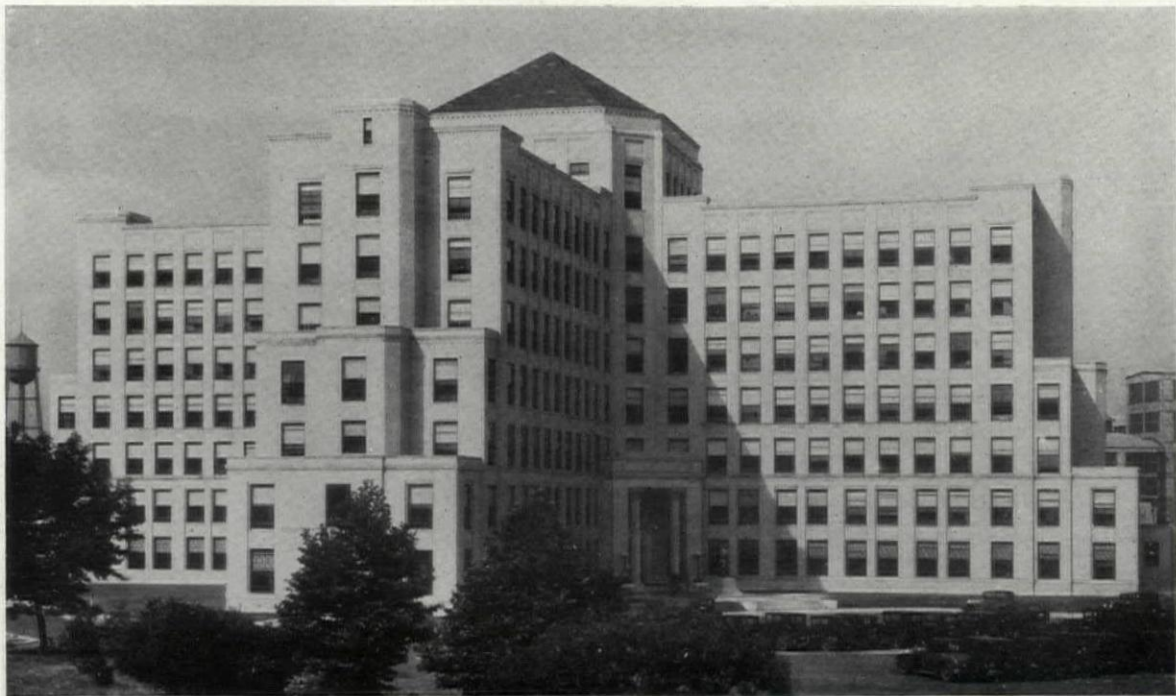
SIMON & SIMON, ARCHITECTS

WHEN the management of the Baldwin Locomotive Works decided to transfer its entire plant and general offices from an intensely developed 20-acre location in central Philadelphia to a new 600-acre site in Eddystone, the housing of the executive, administrative, engineering and clerical departments presented a special problem. In order that the solution might be made with the benefit of thorough study and professional knowledge, this problem was turned over to an architectural and engineering organization. After research in the subject, the architects drew up a program for the project.

The unusual form which the building assumed in the solution of this program can be best explained through a summary of the preliminary study. From the clients the architects obtained statistics from which graphs were prepared showing the sales and volume of the company's manufacture as well as the number of its employes over a period of years. An analysis was made of the present organization, beginning with an organization chart and ending with a study of areas and personnel by departments. A questionnaire designed to determine the future activity of departments was submitted to the management, and its findings were tabulated and

compared with a similar estimate made by the architects, their study being based on present maximum, and probable future criteria for each department. From these it was possible to determine the area necessary for the personnel to be accommodated and the spacial requirements for each department. The ideal department location was considered in relation to the building and also to other departments, including the manufacturing plant. From the inter-departmental studies the subjects of entrances and circulation areas were given consideration.

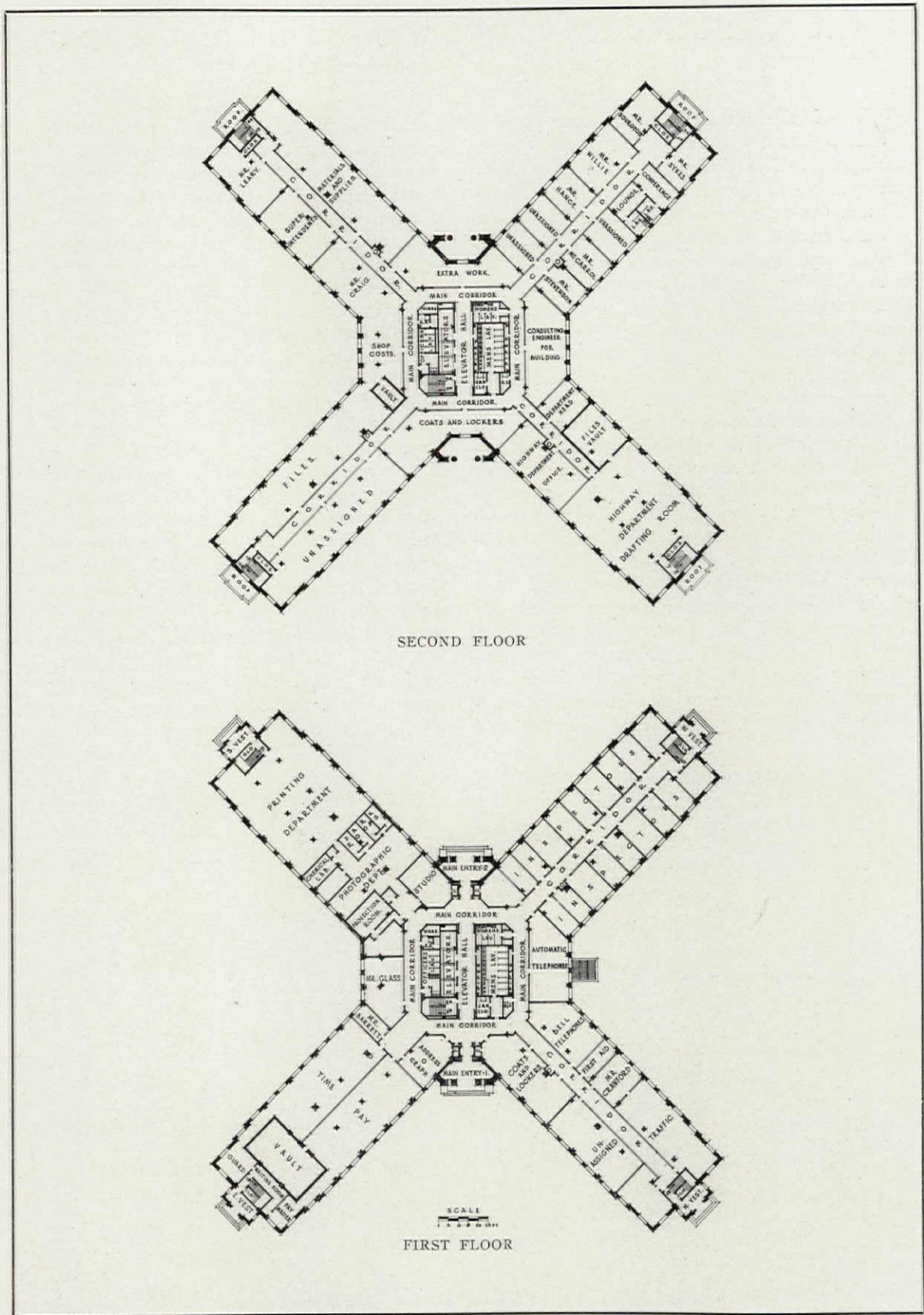
As the land was of only moderate value, it followed that the building might take whatever shape or area its program required. Block plans of different shapes were analyzed with reference to ratio of net to gross areas, maximum travel across the building and the length of enclosing walls. The Greek cross plan selected showed a gross area of 25,500 square feet of which 85 per cent was net usable area as compared with 28,600 square feet with 68 per cent net for a hollow square plan and 27,500 square feet with 80 per cent net for an "H" plan. The maximum travel across the building for the three schemes was 256 feet for the cross, 272 feet for the hollow square, and 360 feet for



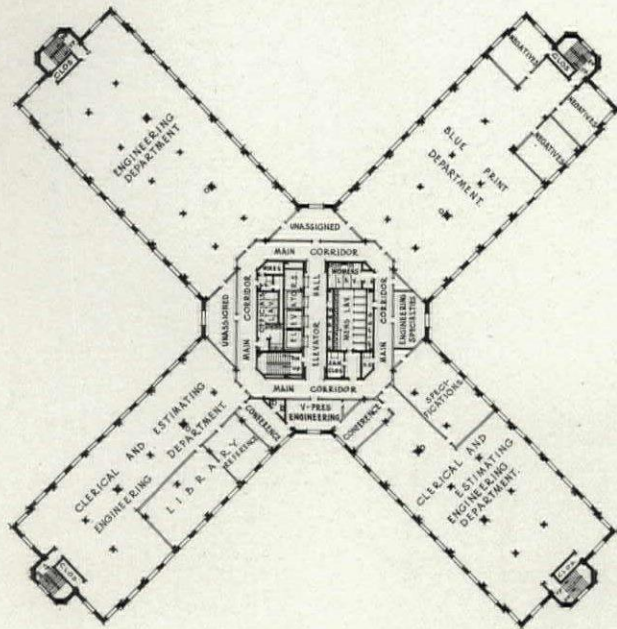
Photos. Richard T. Dooner

Baldwin Locomotive Works, Eddystone. Pa.

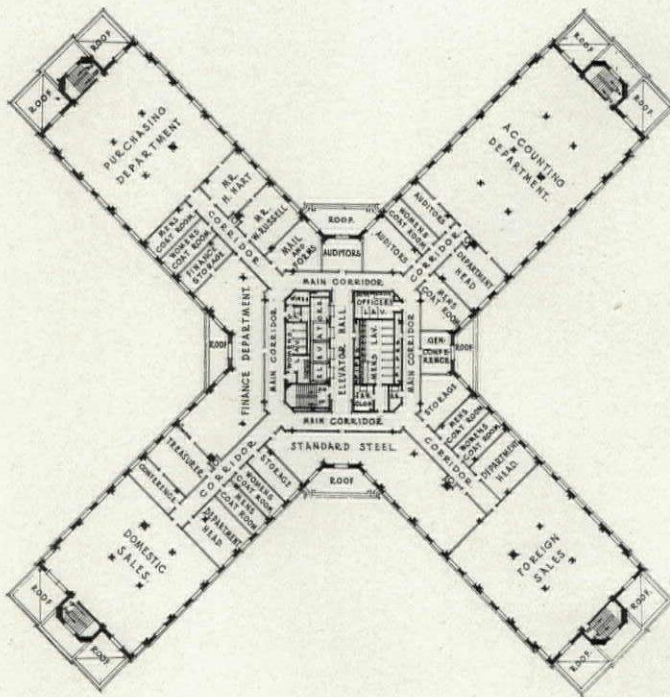
Simon & Simon, Architects



PLANS. BALDWIN LOCOMOTIVE WORKS, EDDYSTONE, PA.
SIMON & SIMON, ARCHITECTS

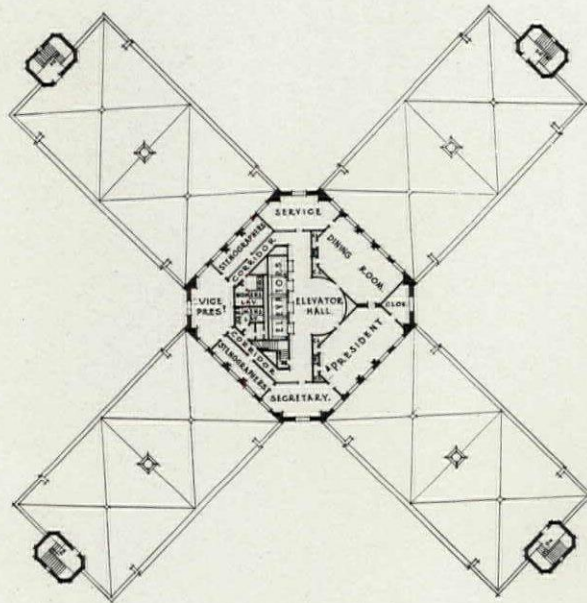


FOURTH FLOOR

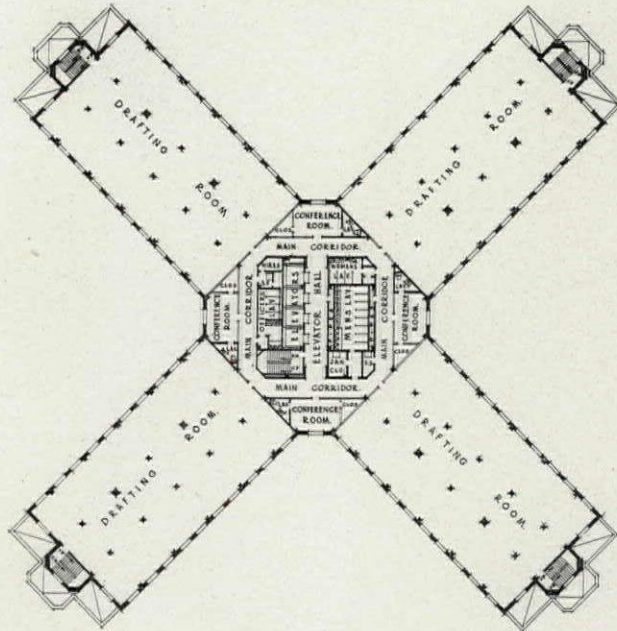


THIRD FLOOR

PLANS. BALDWIN LOCOMOTIVE WORKS, EDDYSTONE, PA.
SIMON & SIMON, ARCHITECTS



EIGHTH FLOOR AND ROOF



FIFTH, SIXTH AND SEVENTH FLOORS

PLANS. BALDWIN LOCOMOTIVE WORKS, EDDYSTONE, PA.
SIMON & SIMON, ARCHITECTS



MAIN ENTRANCE
BALDWIN LOCOMOTIVE WORKS, EDDYSTONE, PA.
SIMON & SIMON, ARCHITECTS

the "H" plan. The advantages of natural light and ventilation given by the cross plan presented additional points in its favor. It also affords the desirable relationships of departments, supplies centralized access and communication by a convenient grouping of elevators, and gives a positive control of traffic throughout the building.

The arrangement of the floors follows the requirements of the program. The first floor is devoted to those departments which the shopmen have most occasion to use,—the inspection, transportation, time and pay departments. The second floor houses the officials and staffs which have supervision of manufacturing and plant maintenance. On the third floor are located foreign and domestic sales, the purchasing, financial and accounting departments. From the fourth to the seventh floors inclusive are housed the engineering department and drafting rooms, with the engineering executive offices and the sections for estimating, specifications, blueprinting and engineering clerical work on the fourth. The general executive suite, on the eighth floor, contains the Eddystone offices of the president, secretary and treasurer, with their clerical staffs.

Foundations rest on concrete caissons carried down to rock. The structure is of fireproofed steel, the exterior veneer being of brick and terra cotta with the entrance detail of granite. The depth of the wings of the building is 52 feet, 11½ inches, and the length from extremity of wing to extremity of opposite wing is 315 feet, 6 inches. The total usable or office floor area exceeds 154,000 square feet, and the gross floor area, including building utilities, stairways, corridors, lobbies and elevator shafts, is slightly in excess of 200,000 square feet. The principal entrances are two in number, in the northeast and southwest re-entrants between wings of the building. Additional access for emergency use is provided by four stairways, with outside exits.

The mass of the structure developed in an interesting manner, as departments were superimposed one upon another. From the first floor, accommodating the general shop departments, up through the other departments to the executive offices in the top of the central tower, the allotment of the required space has led to floors of diminishing areas, which results in use of the pyramidal or "set back" form of composition.



President's Office
Baldwin Locomotive Works, Eddystone, Pa.
Simon & Simon, Architects

RESTORATION OF "KENWOOD," A REGENCY HOUSE

LEIGH FRENCH, JR., ARCHITECT; HAROLD D. EBERLEIN, ASSOCIATED

AT Bethayres in the Huntingdon Valley just outside of Philadelphia, "Kenwood," is a country house recently remodeled and added to for the fourth time within a century and a quarter. In its present form it is also a restoration to the manner indicated at the first remodeling about 1810, a manner more or less in accordance with which the two next changes and enlargements were carried out about 1830 and 1840. This manner, in spite of the debased form of a waning tradition in vogue at the date of the last named structural change, and in spite of sundry later Victorian mutilations, was still evident enough to suggest the course for the work recently completed. It is of interest to note that wherever demolition became necessary in the process of reconstruction, traces were constantly coming to light of good things that had been obliterated and forgotten or else built over and hidden from sight.

The original house, incorporated in a part of the present servants' wing, was built about 1708.

Just what its aspect may have been, we can now only conjecture. It was a small, staunchly built stone structure, and in all likelihood was much the same as any other little Pennsylvania stone farmhouse of the period. All its pristine character disappeared at the time of the first remodeling and addition, about 1810, when the exterior, it seems, was first coated with stucco, and when the mantelpieces, doors, shutters and all other interior and exterior woodwork were changed to conform with the prevailing mode of the time. The manner of the time, of course, was the Regency or Græco-Roman manner of the early nineteenth century, of which Latrobe, Robert Mills, Strickland and the rest of the coterie who followed in Latrobe's wake were the apostles,—a manner of neo-Classic interpretation that had begun in England somewhat earlier with Henry Holland, was carried on by Nash, Papworth, Cockerell, Mylne, Foulston and others, and reached its full maturity during the regency and



"Kenwood," Bethayres, Pa.

The appearance of the building before the recent remodeling



SOUTH FRONT AND SERVICE WING



EAST FRONT AND SERVICE WING
"KENWOOD," BETHAYRES, PA.

LEIGH FRENCH, JR., ARCHITECT; HAROLD D. EBERLEIN, ASSOCIATED



NORTH AND WEST FRONTS FROM DRIVEWAY



WEST FRONT

"KENWOOD," BETHAYRES, PA.

LEIGH FRENCH, JR., ARCHITECT; HAROLD D. EBERLEIN, ASSOCIATED



"GAZEBO," TERRACE AND FISH POOL
"KENWOOD," BETHAYRES, PA.
LEIGH FRENCH, JR., ARCHITECT; HAROLD D. EBERLEIN, ASSOCIATED



NORTH DOORWAY
"KENWOOD," BETHAYRES, PA.
LEIGH FRENCH, JR., ARCHITECT; HAROLD D. EBERLEIN, ASSOCIATED



Dining Room

reign of George IV,—and hence the name.

The dining room at Kenwood, occupying most of the area of the present dining room, was built at the time of the first remodeling. The next addition took in the library, with its semi-hexagon end, and the space between the library and dining room now taken up by the stair hall. The final addition completed the outward structure of the main body of the house as it stands today. At this time the verandas were built and equipped with cast iron fretwork supports. The oldest part of the house and the dining room addition of the early nineteenth century were all on the same level. The second and third additions had a ground floor level 3 feet higher. These levels have been retained. Upstairs, the floor levels after the third enlargement did all sorts of strange things, and to go from one part of the house to another was like following the course of a roller coaster. All changes subsequent to the third enlargement were interior alterations of little consequence so far as the structure was concerned.

Several of the accompanying illustrations give some idea of the outside of the house as it appeared after it had been unoccupied for 20 years and just before the recent remodeling was undertaken. At this stage, inside there was a splendidly proportioned drawing room, 36 feet long by 17 feet wide, with a ceiling slightly more than 13



Service Wing

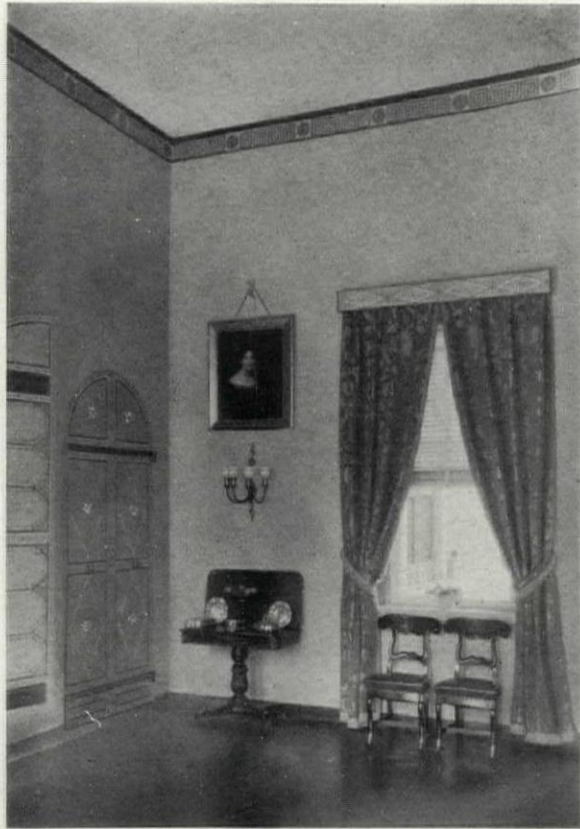
"Kenwood," Bethayres, Pa.

Leigh French, Jr., Architect; Harold D. Eberlein, Associated

feet high; there were five full length windows, nearly 11 feet high, with triple-hung sash, three on the long east side, and one each at the north and south ends. There was also a long hall, 36 feet long and 12 feet wide, running through the house from the north door to the south door. In both the drawing room and the long hall the plaster decorations were of excellent character and in good condition. The library, to the west of the long hall, was 27 feet long to the extremity of the half-hexagon bay, and in width a little more than the width of the bay.

The exterior changes were more radical in appearance than in actual fact. The eaves were sheared off, and a parapet was substituted in such a manner that the low part of the gutter is only a few inches below the coping, so that there is no difficulty with snow lodging in a deep pocket; the veranda was removed from the east side, and a flag-paved terrace was built in its stead, corresponding with the flag-paved terrace added on the west side, which never had a veranda; and the north and south verandas were slightly narrowed and re-roofed with tin with standing seams.

Inside the house, the stair hall is paved with black slate, and the stairs,—of one continuous run, which ascends in an elongated oval,—are also of black slate, polished. The balustrade is of wrought iron with a polished brass handrail,

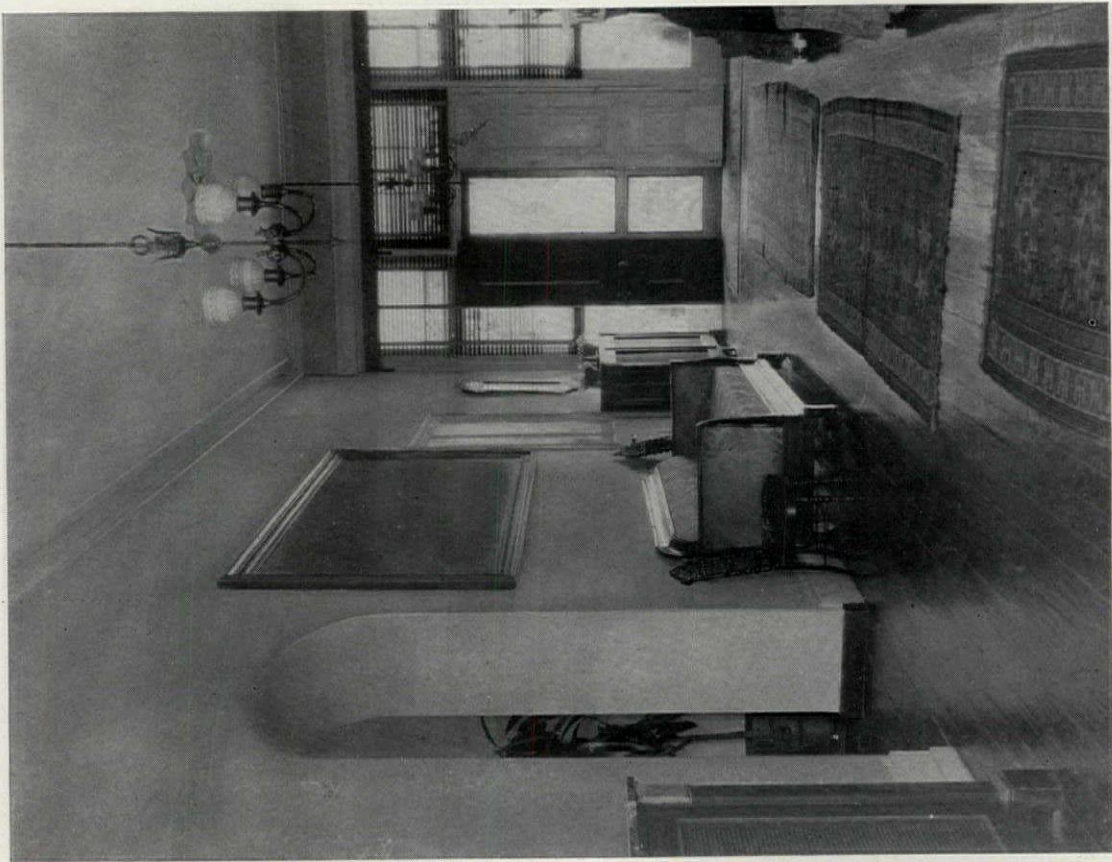


One End of Dining Room

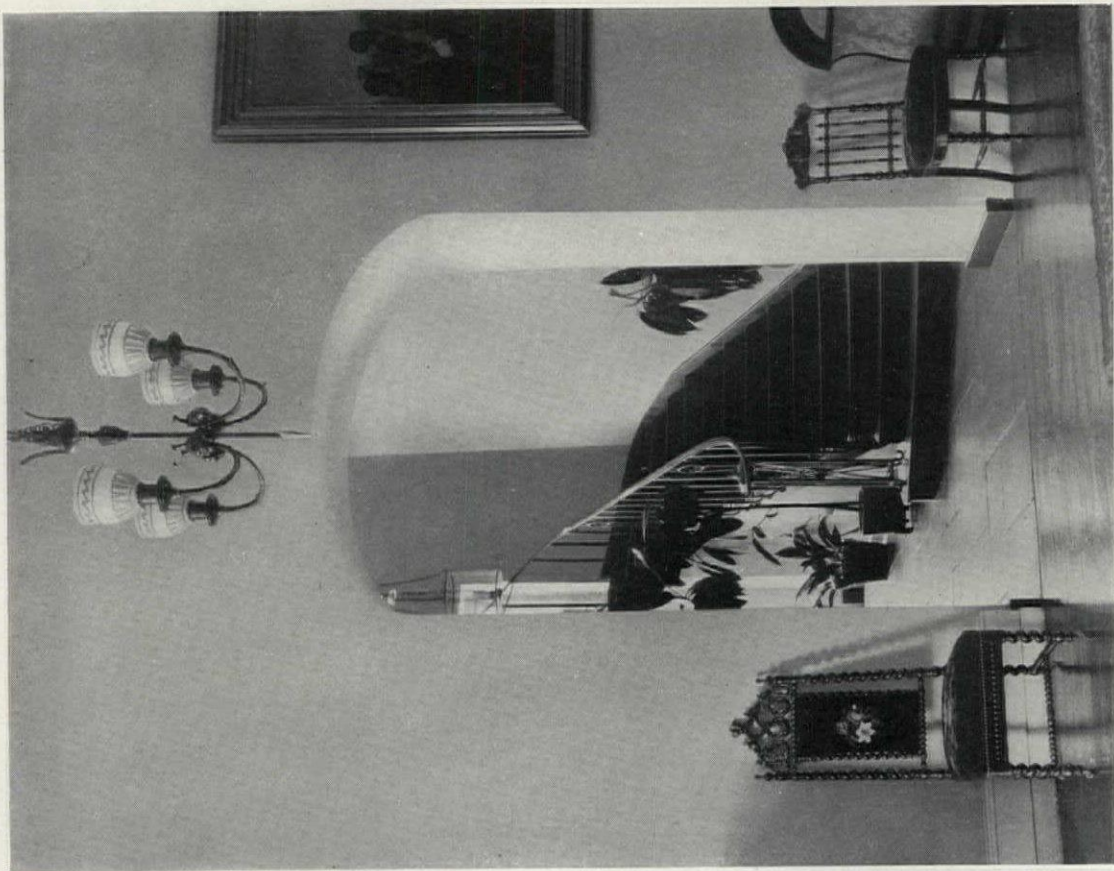


New Part of Service Wing
 "Kenwood," Bethayres, Pa.

Leigh French, Jr., Architect; Harold D. Eberlein, Associated

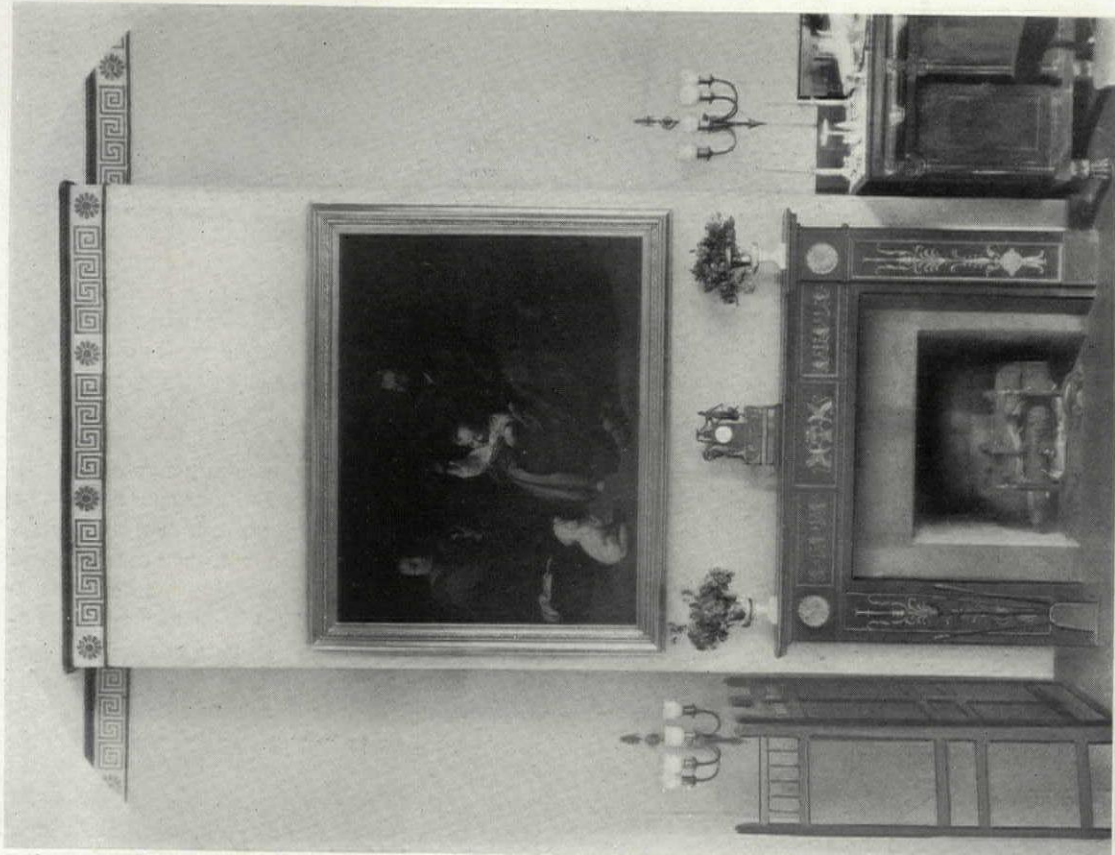


MAIN HALL



STAIR HALL

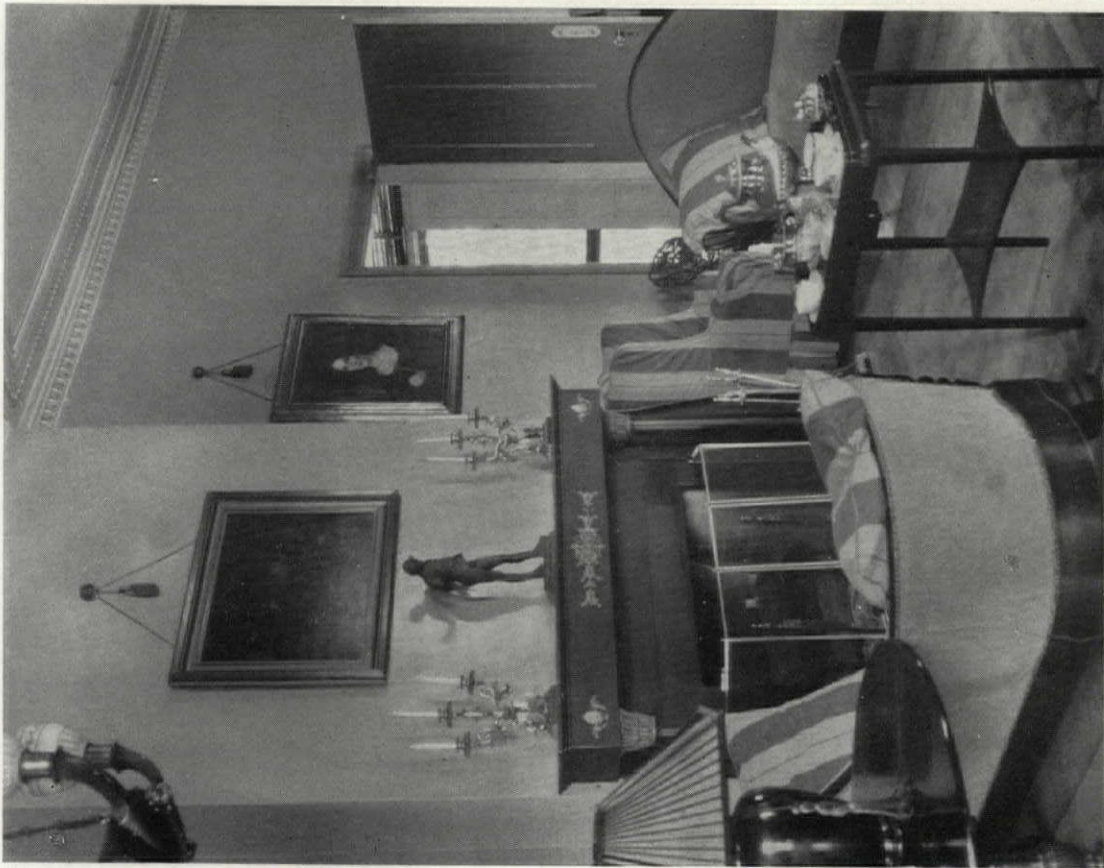
"KENWOOD," BETHAYRES, PA.
LEIGH FRENCH, JR., ARCHITECT; HAROLD D. EBERLEIN, ASSOCIATED



DINING ROOM FIREPLACE

"KENWOOD," BETHAYRES, P.A.

LEIGH FRENCH, JR., ARCHITECT; HAROLD D. EBERLEIN, ASSOCIATED



DRAWING ROOM FIREPLACE

and the newel post has a polished brass cap surmounted by a crystal ball. In the stair hall the landing of the upper floor is likewise paved with black slate. The base is of black slate, and the walls are painted a cool sea-green, the window reveals and the jambs and soffits of the arches being white; the ceiling is white, and the cornice is gilded with black fillets.

The dining room, 3 feet lower than the stair hall, is paved with black terrazzo, and there is a 4-inch base of black marble lined with gold. The walls are painted apricot color, and the woodwork is a rather light peacock green-blue lined with jade green, a lighter tone of the same peacock green-blue being used for the ceiling, which is studded with small gold stars. The cornice is composed of rope, first saturated with black paint and then put in place; the frieze consists of Greek key-frets and roundels painted in gold. There is no wood trim around the central doorway or the arches of the two flanking china cupboards; the heavy unpaneled doors are hung flush with the plaster surface of the wall, and the straps of the stout iron hinges are incorporated in the scheme of the painted decoration of the doors. These decora-

tions are in light jade green, white, gold, black and old rose on the peacock green-blue of the groundwork. The same scheme is continued in the painted cornices from which the curtains hang, and the curtains themselves are of old Italian rose damask brocaded in silver, with green-blue fringes. The Venetian blinds are white.

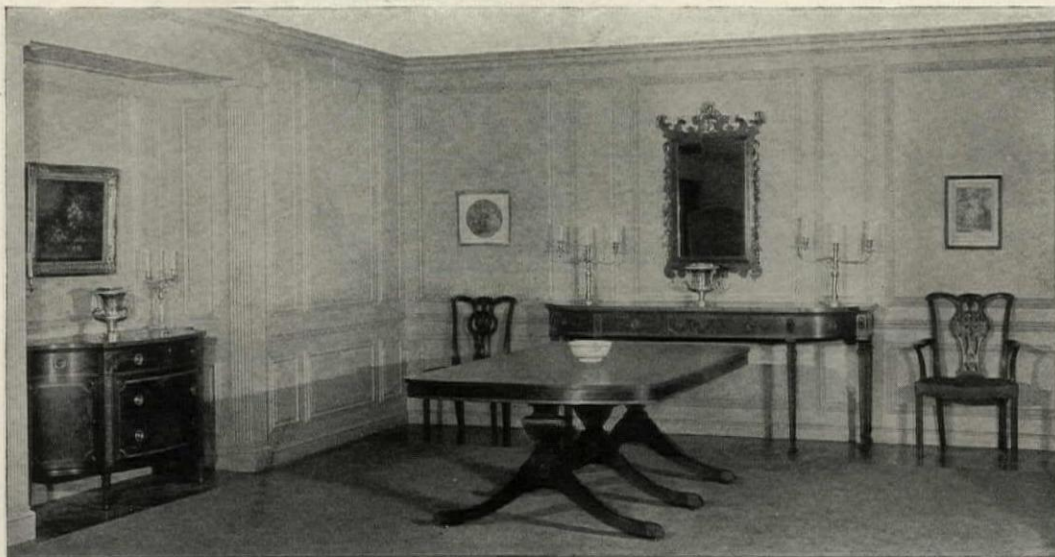
In the library the walls are painted a light yellow, with all the woodwork a deeper tone of yellow lined with gold, and the Venetian blinds are the yellow of the walls. The curtains are of scarlet damask brocaded with a small gold pattern and fringed with apple-green matching the apple-green ground of the cornices, which are lozenge-hatched with black lines, with gold quatrefoils at the intersections. In the drawing room the woodwork is painted a dark gray-blue; the walls are of Chinese pink, affording an appropriate background for early nineteenth century portraits, and the curtains are of brilliant yellow damask hanging from black cornices with classic gold ornament in relief. Here, as elsewhere, the cornices are of simple carpenter's make painted, with the comports applied and gilded. The mantel is likewise an unpretentious piece of millwork.



North Front of Barn, Unaltered
"Kenwood," Bethayres, Pa.

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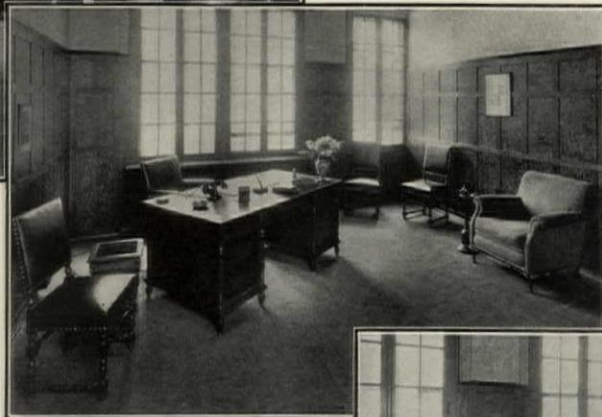
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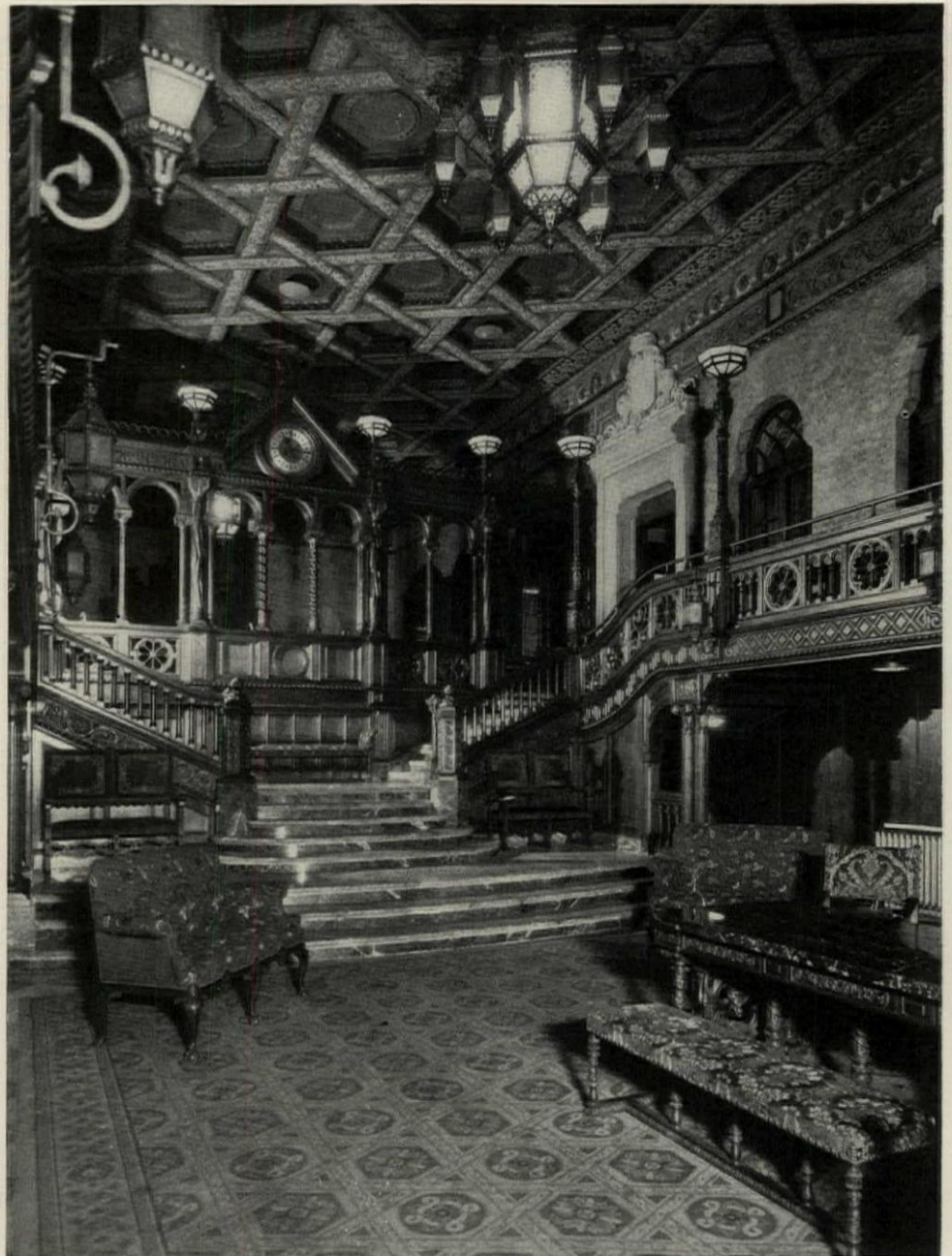


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*that Driwood
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A VERY natural doubt arises in the minds of many architects. They find it hard to believe that Driwood Period Mouldings in Ornamented Wood are really made of wood.

But we can prove it to you in a minute. Just take a knife, whittle off a few slivers from any Driwood Moulding, and you will instantly see that it is all wood—not imitation or composition.

And because Driwood Mouldings are all wood, they will never chip or crack. Because Driwood Mouldings are all wood, any carpenter can easily erect them. Because they are all wood, they can be painted or stained as desired. Best of all, because they are all wood, the cost is so reasonable that any home can afford them . . . and they have been widely used in schools, hotels, club houses, banks, etc.

The photograph above can only suggest the new beautiful room effects which architects can achieve with Driwood Mouldings for cornice, wall panel, chair rail, window casing, door head, base, etc. You



CORNICE CC33



PANEL MOULDING 2053

must see the room itself to appreciate fully the richness, the grandeur, the authentic Period feeling introduced by the use of Driwood Period Mouldings and by the Driwood Period Mantel also shown in the illustration. This is one of many model Driwood interiors in our great new store. You are cordially invited to drop in and browse around!

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Period Mouldings . . .
. in Ornamented Wood

Creating an Atmosphere of Luxury... **ECONOMICALLY**

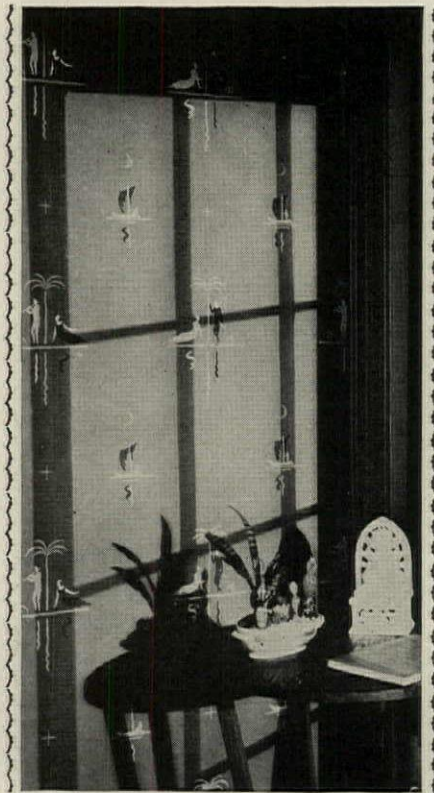
*I*N the mural painting we have wall decoration in its highest form—a method best calculated to create an atmosphere of luxury.

But what ordinary budget will permit the specification of the mural decorator's work? The mural painting's charm and richness are due to its sweep of line, the depth of its coloring, the originality of its design and the handwork evident in the artist's brushstrokes.

To approximate the work of the mural decorator and achieve an atmosphere of luxury *economically*—specify Salubra.

Salubra has much in common with mural painting. The extra width of Salubra allows the artist a freedom of execution which is immediately apparent in the unusual designs. Designs by leading European artists—and there are hundreds to choose from—are applied in fine oil colors, made with the same materials the artist mixes on his palette. The technique of its manufacture produces a texture that adds depth and character to the wall finish impossible to attain in any other form of wall treatment—an effect of hand painting in which you can almost see the artist's brushstrokes where one color overlaps another.

Paradoxical though it may sound,



the atmosphere of luxury created by Salubra is most economical.

Salubra is easily applied the same as any good wallpaper. Its application is even more economical of the workman's time because of its larger covering surface, its malleability and strength, and the fact that less care is needed in handling, due to its washability after hanging. The use of Salubra speeds the completion of the building.

Salubra's economy is even more apparent as the years roll by. Salubra is "paint-by-the-roll"—washable and fadeless—and has retained its original beauty on walls for twenty years and more. In ten years, Salubra can save the cost of three periodic redecorations which would be required if another wall finish were used.

Actual comparison with other decorating mediums will prove Salubra's economy for all types of buildings. If you now have a hotel, apartment, club, hospital, or residence in the plan stage, let us estimate for you the cost of decorating with Salubra. This is part of our service to architects and it will quickly prove to you how economically Salubra can create an atmosphere of luxury.

Frederic Blank & Company, New York Central Building, 230 Park Ave., New York; or Marshall Field Annex, 24 North Wabash Avenue, Chicago.

"A Portfolio of Interesting Wall Treatments using Salubra" has been prepared especially for architects, showing eight different Salubra designs adapted to various types of interiors. A copy will be sent with our compliments upon request.

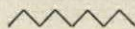


Salubra

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WON'T FADE—WILL WASH

*For more than thirty years the pioneer
in washable, fadeless wall coverings.*





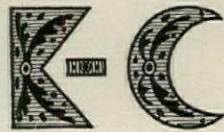
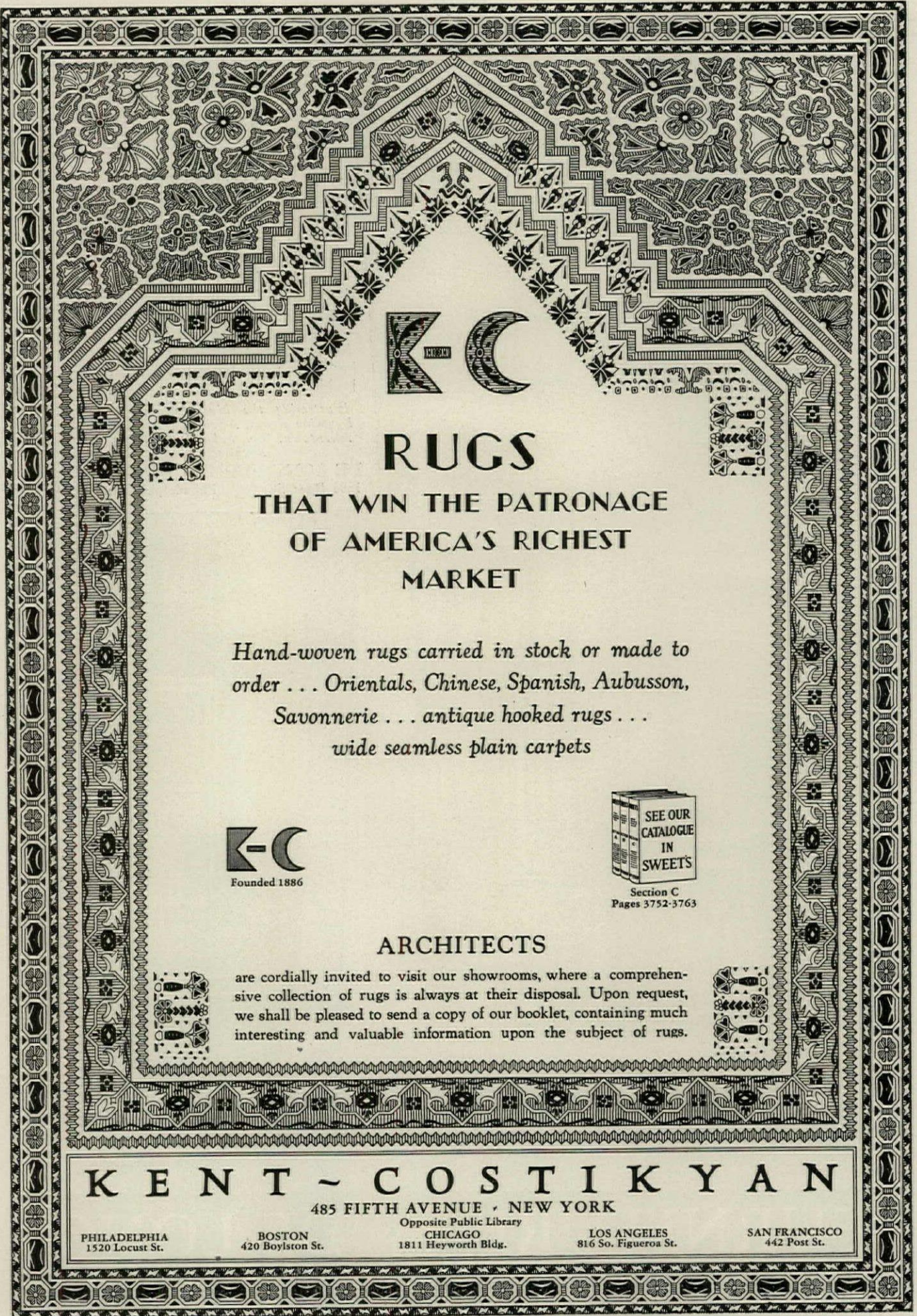
The Egyptian Room

The magnificent effect of the Egyptian treatment in this famous room of the Allentown Masonic Temple is enhanced by the hand-decorated, lacquered furniture designed and executed by De Long. Our brochure, "Fraternal Buildings," illustrates many interesting rooms in typical fraternal buildings equipped by De Long.

Illustrating the Master's Station, Egyptian Room, Allentown Temple, Allentown, Pa. Schmid & Ryan, Architects.

DE LONG FURNITURE CO.
1505 Race St. Philadelphia, Pa.

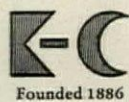
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Section C
Pages 3752-3763

ARCHITECTS

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AUTHENTIC PLASTER ORNAMENT

XVIIIth
 Century
 French
 Foyer



The Studios of BRUNOVAN, INC.

CARLU and BOYLE, Architects

THE French foyer illustrated above, executed entirely in artificial caen stone, was inspired by that inimitable example of neo-classic architecture, "The Petit Trianon". It has all the richness of color that is reminiscent of the court life which flourished in eighteenth century France. In many of the exquisite "Hotels" or town houses of that period, for example in the Andre-Jacquemard House in Paris, this type of foyer attained a popularity which has held over until today.

This foyer was created by Jacobson & Company, entirely from ornament listed in their new catalogue which comprises 3109 new designs never before published. This book, with its unprecedented variety of ornamental plaster, ranging from classic through the Italian Renaissance as well as all the English and French periods, has been welcomed by architects in all parts of the country. It is now ready for distribution to recognized architects and decorators. If you have not already done so, please write to make sure your copy is forwarded promptly.

JACOBSON & COMPANY

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NEW YORK



TEMPLE BETH ISRAEL

PORTLAND, OREGON



Decorative Woodwork and Furnishings
by *American Seating Company*

John V. Bennes & Harry Herzog
Consulting Architects

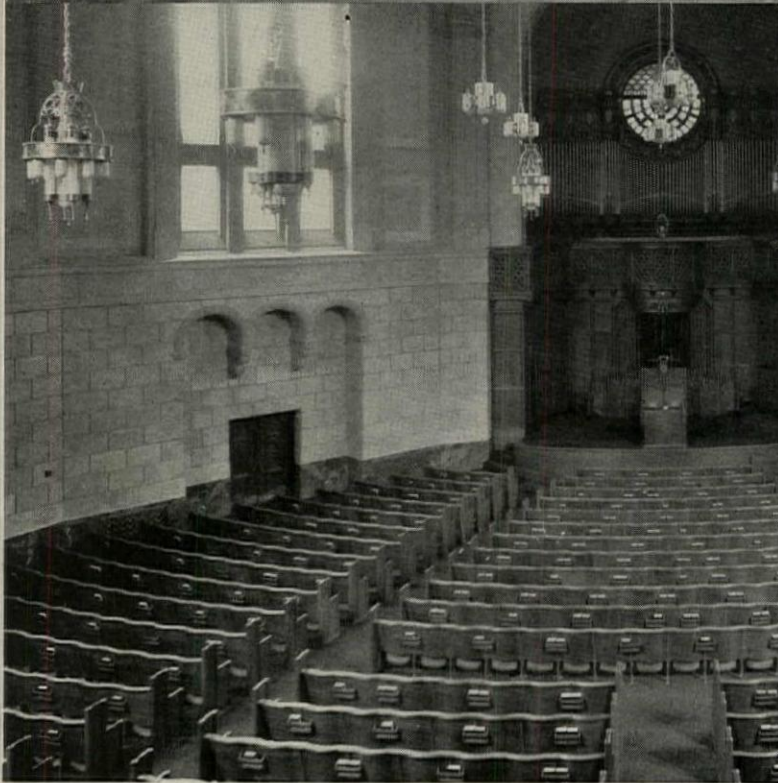
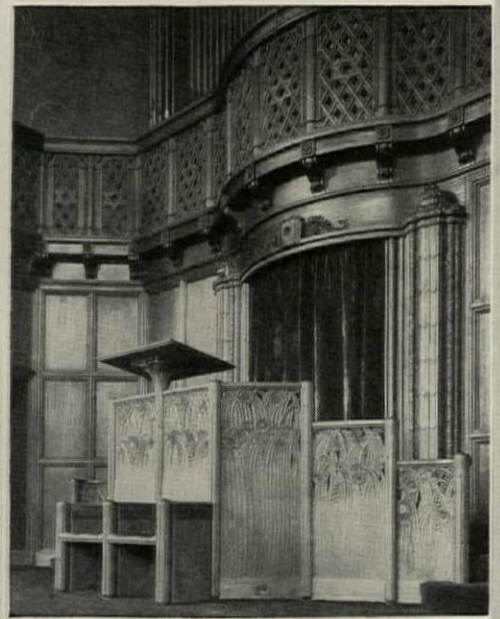
Morris H. Whitehouse & Herman Brookman
Associate Architects



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Branches in all Principal Cities

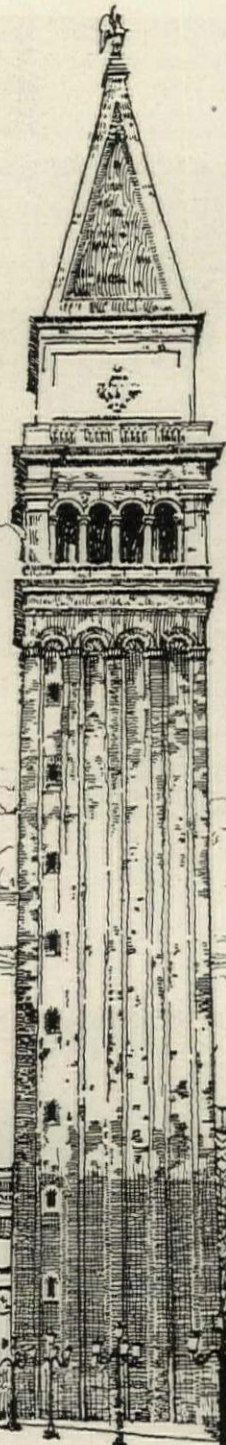


IMPORTED UPHOLSTERY *and* DRAPERY FABRICS

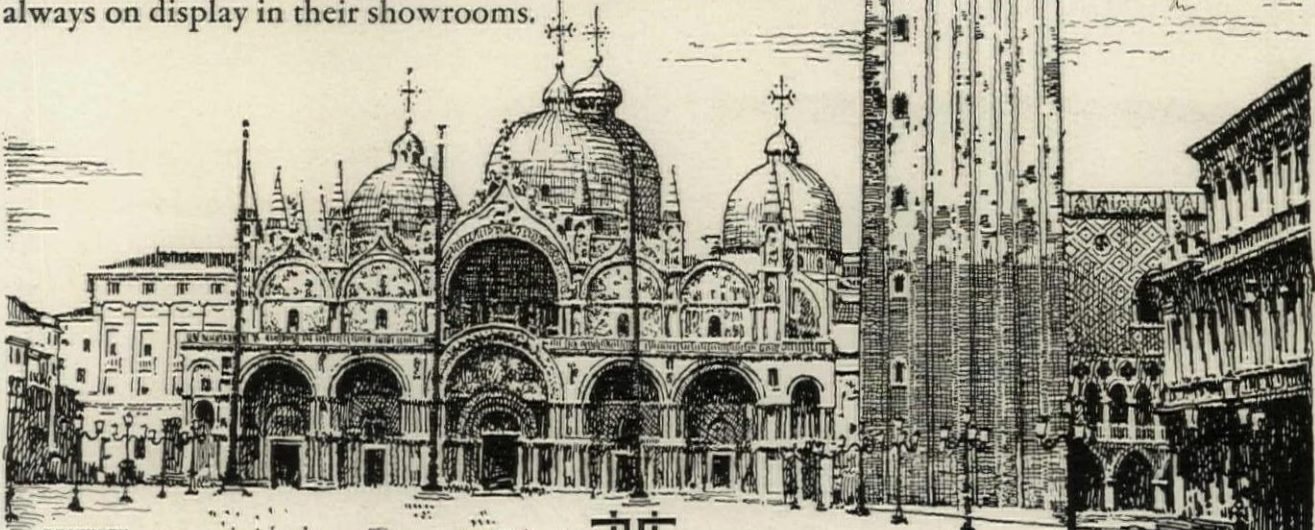
GEOGRAPHICALLY in close proximity to the ancient cultural centres of Greece, Egypt, and the Near East, heir to the priceless treasures of the Roman Empire, first to benefit by contact with the advanced civilization of the Orient as revealed by Marco Polo, Italy centuries ago established her preeminence in Europe in the field of art.

In Imperial Rome weaving reached a high degree of excellence both in design and workmanship. Venice, Florence, and other great cities of mediaeval times fostered the art and produced many masterpieces. Leonardo da Vinci and other great painters contributed their genius in design. And it is from Italy that we obtain today many of our finest decorative fabrics—such as velvets and brocaded silks.

For many years Johnson & Faulkner have been importing from Italy, France, Belgium, Germany, and England the finest fabrics used in home decoration. A wide range of choice, in any material you may require, is always on display in their showrooms.



VENICE
The Campanile
The original bell-tower, built in the Ninth Century, which collapsed in 1902, is faithfully reproduced in the new Campanile, completed in 1912.



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WALTER MCQUADE



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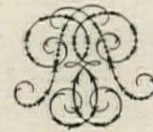
FOUNTAINS

GIRANDOLES

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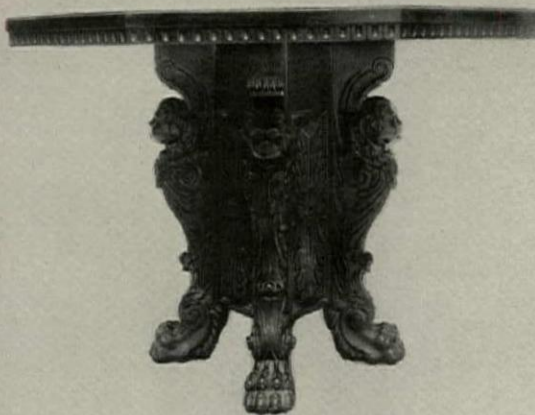
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NOTE: In our recently enlarged permanent exhibit we are showing the largest and finest collection of genuine antiques we have ever brought together at any one time in our history. English, French, Italian and Spanish.

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EXCELLENT proportions and simplicity of design make this fireplace the focal point of interest in the room. And the owner may rest assured that it will function properly, for it is constructed in accordance with the Covert System, and equipped with a Covert Damper and

Covert Smoke Chamber. Years of satisfactory service in thousands of homes throughout the nation have convinced architects that they may safely name the "Covert" in their specifications. We shall be glad to send you our architectural catalogue.

The H. W. COVERT COMPANY, 229 E. 37th St., N. Y.

*A Distinguished
Treatment of Walls..*



*To Appeal to "HER"
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Dierks EARLY AMERICAN NOTTIPINE PANELING

BEAUTIFUL mellow-gold, knotty pine has come into new popularity as a distinguished treatment of modern walls—because "her" beauty-loving imagination immediately caught its classic decorative significance.

To appeal to "her" romantic spirit, the major trend in today's building and decoration centers around the period theme of the Colonial, the Early American, and the New England influence.

Dierks Early American Nottipine Paneling glorifies the very spirit of this established appreciation of the periods. The Cream of the Southern Pine—its sound knots and irregular grain add warmth



The knotty pine paneled living room and built-in book case in a Bronxville, N. Y. home. {Arthur T. Remick, architect}

and color and distinctive charm to the home you design—"she" will appreciate it on sight.

Tongued, grooved, scientifically steam kiln dried, machine-sanded, Dierks Nottipine is a vastly-superior

pine, affording a wealth of possibilities in the decoration of living rooms (such as the room illustrated), library nooks, dining rooms and in offices, hotels and clubs—*architecture's most expressive wood.*

FREE! Your copy of the elaborately illustrated brochure, "Early American Knotty Pine Paneling," showing many distinguished pine paneled rooms. Also send for the booklet on "Bloxtrip Borders", Dierks exclusive new product for modern floors.

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GATES BLDG. KANSAS CITY, MO.



This pine-paneled living room from the William Russell House built at Providence, Rhode Island, about 1770, is rich in suggestions for modern architects and builders. It is now in the Minneapolis Institute of Arts.

Pine-Paneled Walls are in Style

LEADING architects and builders of today find their clients keenly interested in having at least one room paneled in pine. The movement to build "American homes of pine for Americans" is gaining momentum rapidly and one of its essential features is the vogue for paneled walls.

To be sure of pine with fine texture, mellow color and thorough seasoning for such walls, architects are specifying Shevlin Pine. The five varieties of Shevlin Pine make possible a wide range of treatments. Pine of Shevlin quality may be obtained from leading lumber dealers in Shevlin Northern White Pine, Shevlin Ponderosa Pine, Shevlin Norway

Pine, Shevlin California White Pine, and Shevlin California Sugar Pine.

There is plenty of Shevlin Pine always available at a comparatively reasonable price, as through a thrifty policy of selective logging the supply of this enduring material has been safeguarded for generations. All Shevlin mills are now in a position to supply grade-marked lumber when requested.

For further data write for booklet, "Specify Shevlin Pine."

Shevlin, Carpenter & Clarke Company
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Smyser-Royer Works from The Architect's Point of View



No. 299
Scale, $\frac{1}{2}'' =$
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The Smyser-Royer Company has established itself as the Company that works from the architect's point of view. Exterior lamps, lanterns and brackets are produced with strength to last, and this without in the least sacrificing the architect's idea.

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In many instances a perfectly suitable lamp post, lantern or bracket can be found in our catalogue. A copy should be in your files. Write for one.

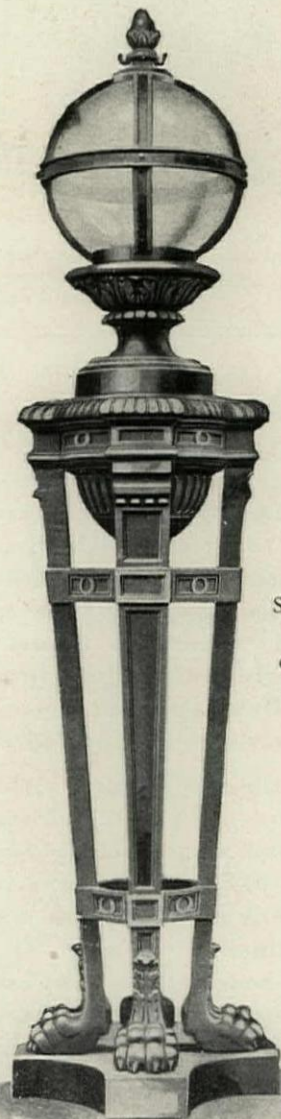
Catalogue "J" illustrating over 300 different designs, will be mailed to recognized architects on request.

Lamp Posts Lanterns Brackets

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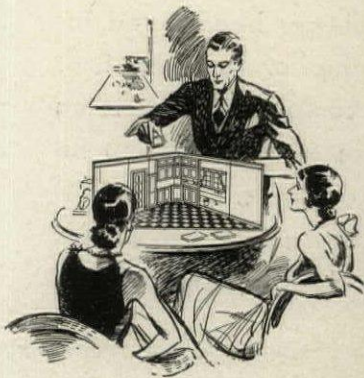
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No. 420
Scale, $\frac{3}{4}'' = 1'0''$
 $7'6\frac{3}{4}''$ high
over all. Base,
 $1'11''$ square.

Kitchens sure to please, *because*
YOUR CLIENTS
HELP DESIGN THEM
... with a Curtis Miniature Kitchen Set



Now you can invite your clients to follow their own ideas in the arrangement of their kitchen appointments. For now all Curtis Kitchen Units are reproduced in miniature . . . ready to be assembled in any arrangement you and your clients prefer.

Architects are finding the *Miniature Kitchen idea* an ideal way to build good will with their clients. First, as in the sketch shown, you'll help them place doors, windows, sink, stove, in their relative positions. Then comes the real fun of planning! A storage unit here? A unit for pots and pans beside the sink? Try a broom closet (with its double duty door that swings down into a sturdy ironing board) near the door. Good! And why not a drawer section beside it? And don't forget that special Curtis Unit with the sugar bin, flour bin, and cutlery drawer that all tilt downward obligingly when opened.



This breakfast room, from a home in the exclusive country club district of Kansas City, illustrates how even a small wall space can be converted to large storage and shelf room with Curtis Units.



This Kansas City installation shows how Curtis Units make every inch of space available—even to "turning a corner", an exclusive Curtis arrangement. Note the open section in the corner, devised to hold incidentals that should be quickly at hand.

Curtis Units are made in a wide variety of sizes and styles to fit any design of kitchen—making for maximum ability and convenience at lowest cost. They come all set up, ready to put in place. No sawing, no trimming, and only a slight installation cost.

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Any Curtis dealer can show you our Miniature Kitchen Set. Also see our complete catalogue, showing every item of interior and exterior woodwork, including the Curtis series of historical reproductions of mantels, entrances and stairwork.

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Visit Curtis Woodwork, Inc., Display Rooms and Sales Office, Room 201, 9 East 41st Street, New York City. Chicago Display Rooms, Curtis Door & Sash Co., 1414 South Western Avenue, Chicago, Illinois.

1866
CURTIS
WOODWORK

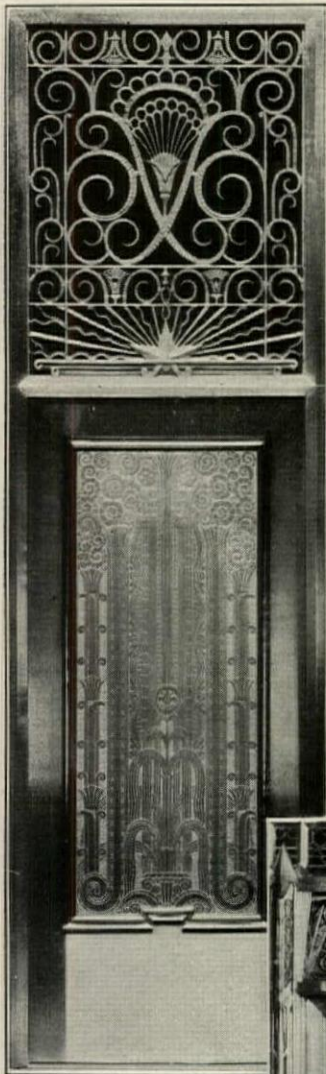
This trade-mark appears only on Curtis Woodwork and no item of woodwork that does not bear this mark is genuine Curtis Woodwork. For your own protection be sure this mark is on each piece.

How The Gorham for Modern

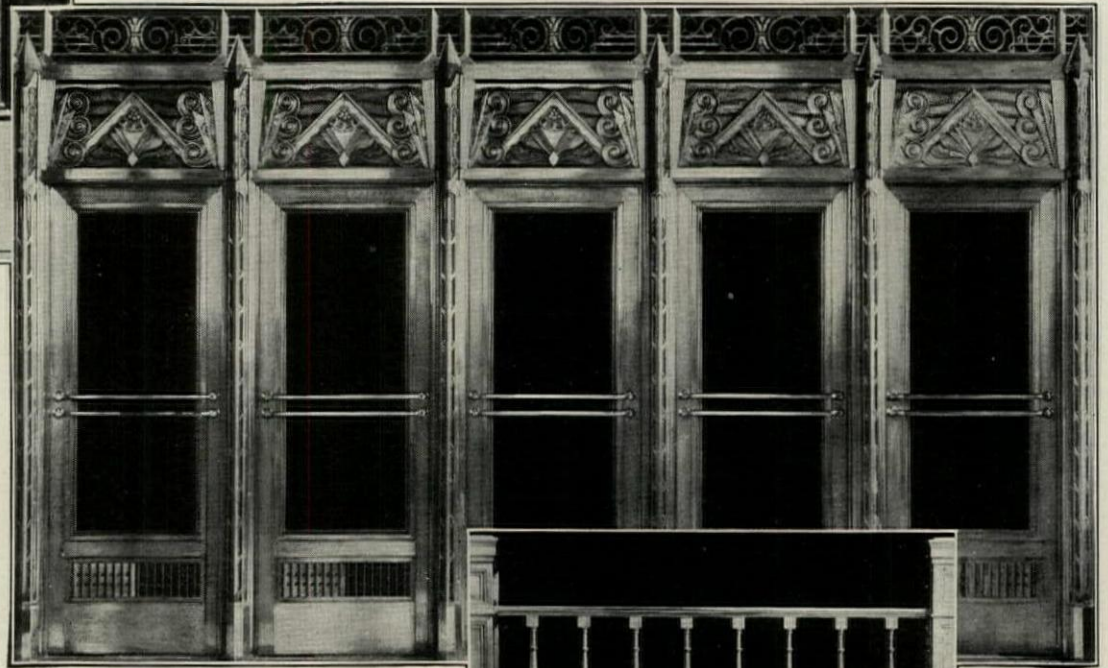
With Anaconda Nickel Silver this famous organization of Master Craftsmen is expressing the spirit of the times.

THE Gorham Company has always been noted for the beauty and craftsmanship of its work. Ever alert to the new trends, this company is now using Anaconda Nickel Silver in executing designs to be used for modern interiors and exteriors.

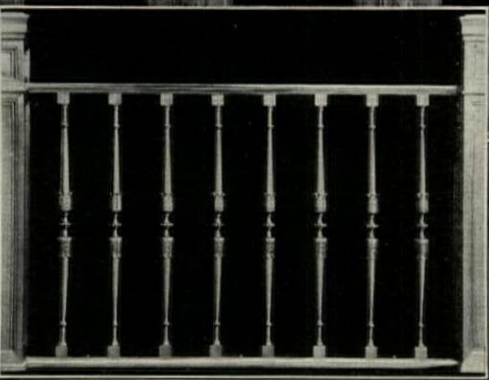
Anaconda Nickel Silver, which is supplied in various alloys, possesses many qualities which make it peculiarly



Design for a door unit,
National Bank Commerce
Building, Houston, Texas;
Franzheim & Finn,
Architects.



Vestibule doorway. National Bank Commerce Building, Houston, Texas;
Franzheim & Finn, Architects.



Design for stair rail. Dennison & Hiron, Architect.

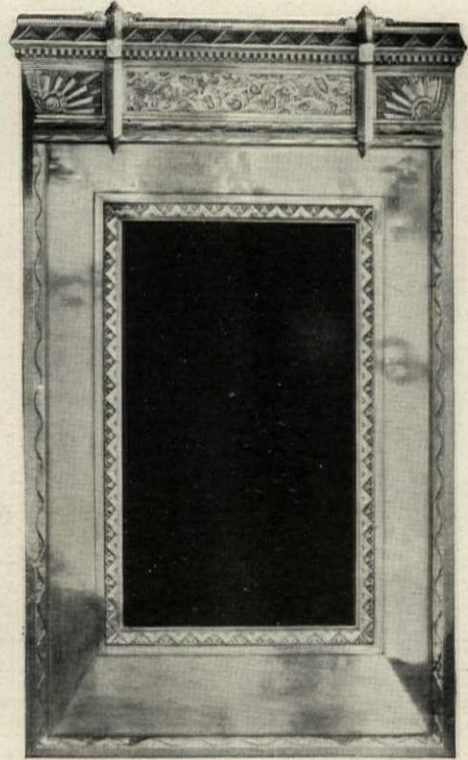


ANACONDA

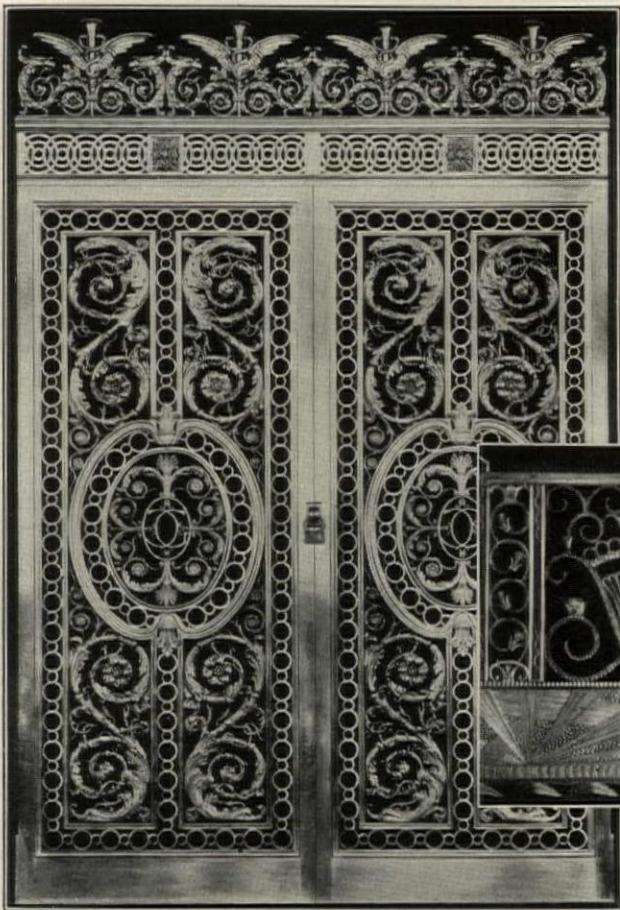
Company meets the demand architectural decoration

suitable for modern treatments: brilliant and silvery in appearance; workable into the simplest or the most intricate designs; easily kept clean; unusually durable; uniform in texture and color.

The American Brass Company manufactures Anaconda Nickel Silver in the form of rods, bars, sheets, extruded and drawn shapes and casting ingots to take care of the requirements of leading fabricators of ornamental metal work. The American Brass Company, Waterbury, Connecticut.



Elevator indicator frame. National Bank Commerce Building, Houston, Texas; Franzheim & Finn, Architects.



Design for gates; made by The Gorham Company.



Mezzanine rail and fascia, National Bank Commerce Building; Houston, Texas; Franzheim & Finn, Architects.

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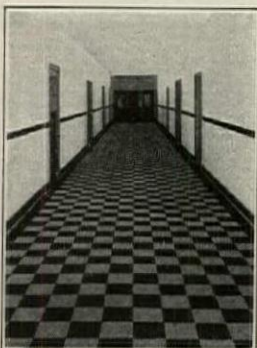
DUBOIS FENCE & GARDEN CO., Inc. 101 Park Ave. (Phone Lexington 2404) New York

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IN this modern day, when human efficiency counts so much, restful sound-deadening floors are a recognized asset. That is one reason why floors of Duraflex Tile are so frequently specified by forward-looking architects, builders and property owners. Duraflex



A Duraflex Tile installation in the Liverpool High School, Liverpool, N. Y. Earl Hallenbeck, Architect, Syracuse, N. Y.

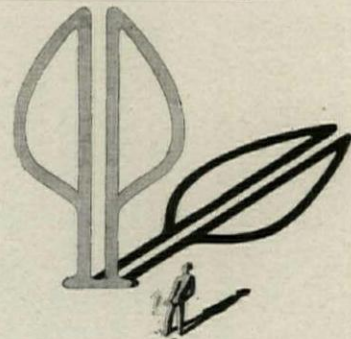


Tile is a *mastic* tile—resilient, easy on the feet—quiet, easy on the nerves. It will hold up under years of pounding feet and is impervious to acids, alkalis, fire or water.

Duraflex Tile comes in soft shades of red, tan, brown, green, grey and black. It is easy and economical to keep clean and sanitary because its smooth surface does not absorb foreign matter.

On request, we shall gladly send you Color Chart of different patterns, with other detailed information. For a solid, seamless, one-piece floor surface, ask also for data on Duraflex-A. The Duraflex Company, Inc., Baltimore, Md. Offices in principal cities.


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MASTIC TILE
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Pondsosa Pine protects you and your clients

THIS trade-mark is a guarantee of satisfaction—protection against the use of anything but the wood you and your clients want to use. It is stamped on the end grain of Pondsosa, the Pick o' the Pines. Manufactured by a Western Pine Manufacturers Association mill.

Trade-marked Pondsosa is always thoroughly seasoned, rigidly graded and carefully milled. Doors, sash, paneling and mouldings made from it stay snug and trim. Paint and varnish will not raise the grain—and because of the texture of this wood, less frequent repainting are necessary. Specify it for outside as well as inside trim. You can buy Pondsosa from a dealer near you. Address Dept. 75, Western Pine Manufacturers Association, Portland, Oregon.

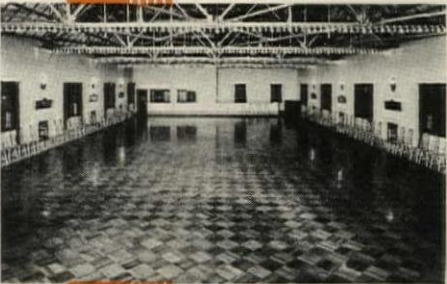
Pondsosa Pine 
The Pick o' the Pines



for dining rooms



for store interiors



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In concrete construction, *CELLized wood floor blocks save material and labor cost of wood subfloor, screeds, and cinder fill, and from 2½" to 3¾" in height per story, without loss of headroom.

Style first

—THEN DURABILITY, with low initial and maintenance costs, have made *CELLized Wood Floor Blocks desirable and economical for types of interiors where wood floors have till now been considered impracticable. They are laid rapidly in EVERBOND, a plastic cement, without nails, directly over wood or concrete, providing a firm, quiet, and sound-deadening floor. The blocks are *CELLized, a chemical treat, to reduce the tendency to change in size, and to guard against insect attacks and decay. This process also improves whatever finish is used, and necessitates less finishing material.



Each block is a complete unit of three or more flooring strips, in oak, maple, beech or walnut; three sizes, 6¾", 9", or 11¼" squares, standard 13-16" thickness. All grades, as specified by Oak Flooring Manufacturers Association. See our catalog in Sweet's.



for apartments and homes



Front and back of block, showing holding-spline

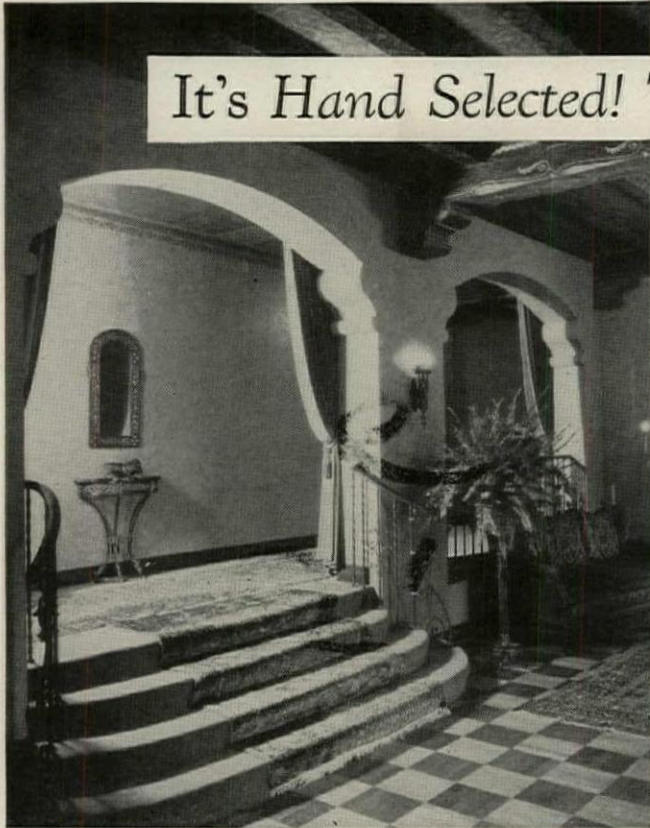
*CELLized wood floor blocks are guaranteed by *CELLized Oak Flooring Inc. when laid by Licensed Flooring Contractors. The names of those licensed to use this label in your locality will be supplied upon request.



*CELLized planks and strip flooring are obtainable through licensees of *CELLized Oak Flooring Inc.

*CELLized oak floor blocks are sold through lumber dealers everywhere; manufactured by E. L. BRUCE COMPANY . . . Memphis, Tenn. NASHVILLE HDW. FLOORING CO. Nashville, Tenn. THE LONG-BELL LUMBER CO., Kansas City, Mo. ARKANSAS OAK FLOORING CO., Pine Bluff, Ark.

***CELLized Oak Flooring Inc.**
MEMPHIS — TENNESSEE



It's Hand Selected! This Beautifully Matched Parquetry Flooring!

Every block perfect -- every room presenting a rich unblemished beauty -- that's the important advantage Ritter Parquetry Flooring brings you!

Made exclusively of Appalachian oak, each piece is in itself fine-grained and velvet-like in texture. There's but little likelihood of an "ugly duckling" appearing to mar the ensemble for every block of Ritter Parquetry is *hand-selected* by thoroughly trained specialists. The color *must* be uniform -- the match *must* be perfect before it receives the inspector's final okay.

This method of personal inspection and re-inspection of every piece is an invaluable Ritter procedure. Therefore to insure utmost satisfaction always specify "Ritter" brand, whether your plans call for block or herringbone patterns or plain strip flooring.

W. M. RITTER LUMBER CO., Columbus, O.

Combination of Ritter Appalachian Oak and Walnut Parquetry Flooring, Block Pattern. Apartment Building, Lee Callahan & Son, Los Angeles, Cal., Architects and Builders.





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lighting
equipment
for 30 years
has set a stand-
ard for high lighting
efficiency, low cost of
installation and low oper-
ating cost. GUTH-LITE
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The EDWIN E. GUTH COMPANY
2615 Washington Ave., St. Louis, Mo.

The World's Finest Club

This handsome structure is entirely occupied by the Medinah Athletic Club of Chicago. It is pronounced by many who have a right to pass judgment as the finest club in existence.

HAMLIN'S Sound-proof doors play an important part in making every floor and room usable and quiet, regardless of proximity to all rooms for physical exercise, elevators, or other places which should be sound isolated.

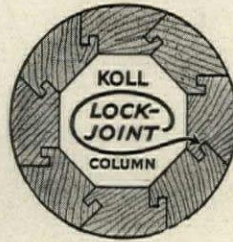
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Manufacturers of
**Sound-Proof
DOORS**
and Folding Partitions
IRVING HAMLIN
Manufacturers

1506 Lincoln St., Evanston, Ill.

WALTER W. AHLSCHLAGER
Architect

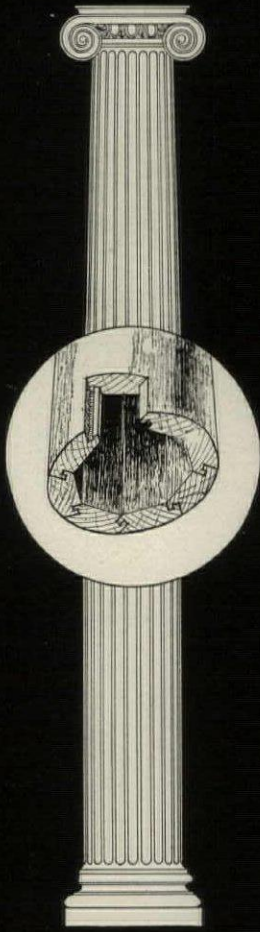




Beautiful KOLL LOCK-JOINT COLUMNS excel in these 8 ways

Far in advance of ordinary conceptions, Hartmann-Sanders Koll Columns not only

meet the discriminating requirements of America's leading architects and builders, but have won a notable place among the fine creations for building construction. Fashioned by trained and long-experienced craftsmen, these better columns excel in the eight important features listed at the left.



- 1 Koll lock-joint columns cannot come apart.
- 2 Not a knot in ten thousand Koll columns.
- 3 Correctly proportioned, according to the five orders of architecture.
- 4 Also made to architect's detail.
- 5 Asphaltum paint waterproofing inside all large columns.
- 6 Ventilated plinths, wood or cast iron, the latter recommended.
- 7 Staves same thickness full length of shaft, for maximum carrying strength.
- 8 Workmanship and lasting qualities fully guaranteed.



THESE BOOKLETS GLADLY SENT
Hartmann-Sanders has just published two interesting booklets, illustrating a notable group of columns and entrances. Architects and builders are invited to write for booklets numbers 53 and 48. No charge. Hartmann-Sanders Co., Factory and Showroom: 2151 Elston Avenue, Chicago. Eastern Office and Showroom: Dept. "I," 6 East 39th Street, New York City.

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KOLL COLUMNS

COLONIAL ENTRANCES

PERGOLAS

ROSE ARBORS

GARDEN EQUIPMENT

GEORGIA MARBLE



PASTEUR MONUMENT, GRANT PARK, CHICAGO, ILLINOIS
BENNETT, PARSONS & FROST, ARCHITECTS. LEON HERMANT, SCULPTOR

The choice of Georgia Marble by prominent sculptors serves as a reminder that in addition to being durable and beautiful, Georgia Marble is *workable*.

The Pasteur Monument stands at the end of the Field Museum, (Graham, Anderson, Probst & White, Architects) the largest marble building in the world . . . The museum is white Georgia Marble, and the monument silver grey Georgia Marble.

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1200 Keith Bldg.
CLEVELAND

For his "Best New Design for a Commercial Building"



MR. WALLACE
F. YERKES

...was inspired by
the ribbon grain
of lovely
Philippine Laminex

TEN YEARS from now you might find this door gracing the foyer of a great new library . . . or executive offices in a hundred-story building. In producing this design for the Philippine Laminex competition, Mr. Yerkes kept a prophetic eye on the future. Even the wood that inspired him was the wood of tomorrow, Philippine Laminex.

There is, in the grain of Philippine Laminex, a quality remarkably well suited to door construction. It has the graceful slender ribbons that you associate with mahogany, although Philippine Laminex doors, in the 23 stock designs in which they're now available, cost only half as much as most mahogany doors.

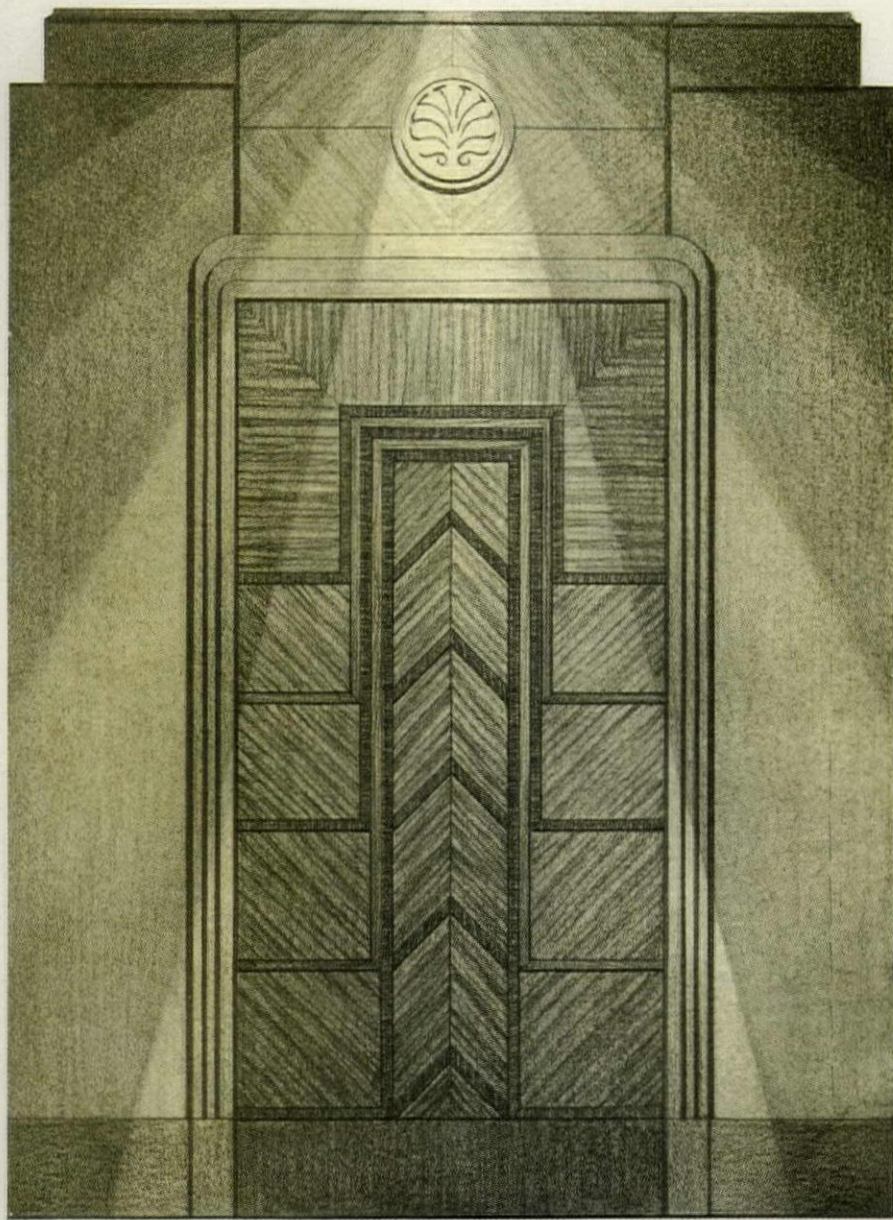
These Philippine Laminex doors may be stained in the rich dark red that mahogany usually is stained or just as strikingly in lustrous walnut or in any of the intermediate shades . . . much as teak! And like all Laminex doors, they won't shrink, swell, or warp.

You must see this remarkable new series at your first opportunity. For the local dealer's name, and the new Philippine Laminex catalog, write your name and address in the margin, tear it off and send it to:

The Wheeler, Osgood Company, Dept. F-109, Tacoma, Washington.

PHILIPPINE
LAMINEX
DOORS

Will not shrink, swell, or warp.



Among the 23 popular Philippine Laminex doors now available at local millwork dealers' are Design 106 (with sash), and Belle Porte.

Chosen, "Best new design for a commercial building" in the Philippine Laminex competition. It is the work of that successful young Chicagoan, Mr. Wallace F. Yerkes. His door, a vigorous expression of modern tendencies, reveals, too, a fine appreciation of the cabinet maker's art. Fundamental in the design is the matched grain, an effect admirably achieved by the use of Philippine Laminex. The lovely close-paralleled ribbons of this wood, although remindful of mahogany, are much more uniform than in the grain of most mahogany.

TERRA COTTA TEXTURE



American Insurance Union
Citadel, Columbus, Ohio.
C. Howard Crane, Archi-
tect, Elmer George Kiehler,
Ben A. Dore, Associates.
Special rough surfaced
terra cotta gives maximum
light reflection for flood-
lighting.



In the matter of surface texture the designer in terra cotta is as free from the restrictions imposed by less facile materials as he is in the use of color and ornament.

NATIONAL TERRA COTTA SOCIETY

230 PARK AVENUE

NEW YORK, N. Y.

(On behalf of the Terra Cotta Manufacturers throughout the United States)

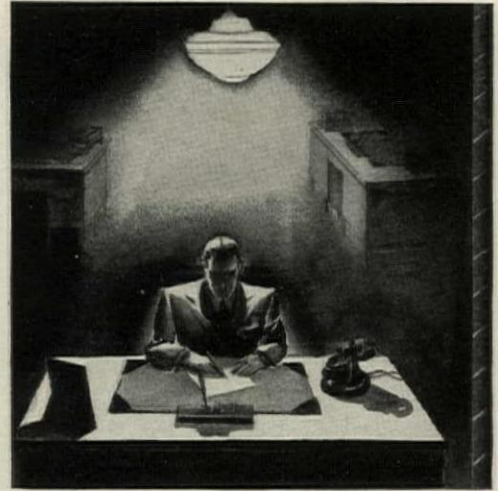
Perplexed...he consulted his architect

THIS shrewd far-seeing client knew that business changed — changed constantly — grew and expanded. Today's needs were apparent. But . . . what of tomorrow's?

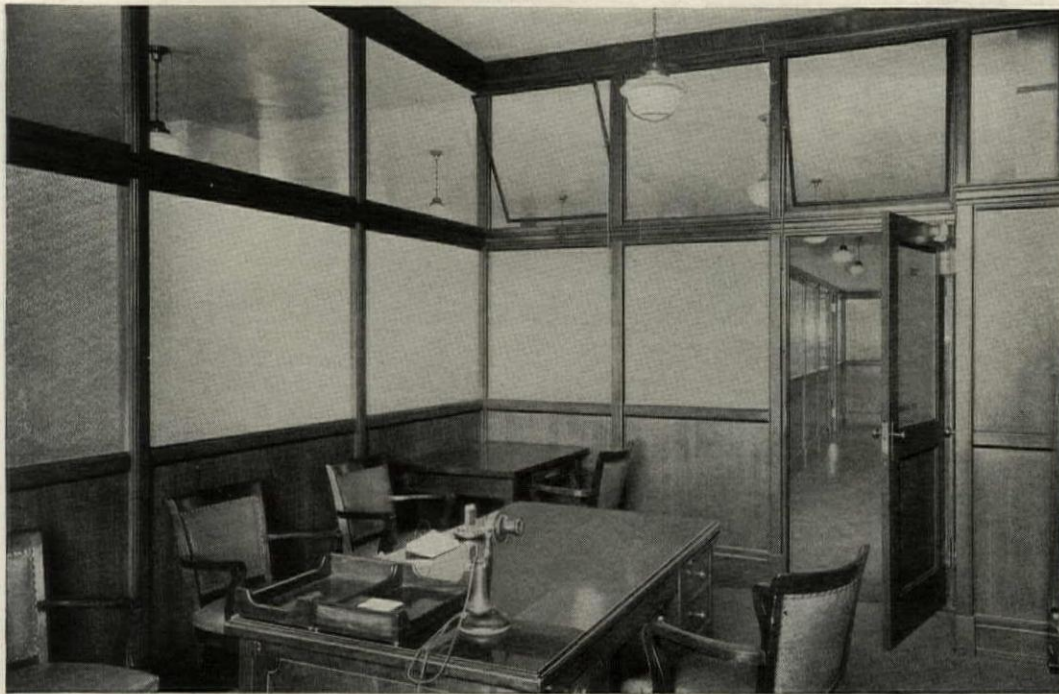
The architect held the solution. He suggested for the new building an interior construction of movable steel — so that changes could be made quickly, economically . . . as needed. He recommended Hauserman Movable Steel Partitions . . . for they satisfied this requirement and more:

They offered variety from which to choose . . . five types — all architecturally correct . . . many colors and finishes — all of them sturdy, fire-safe and sound resisting. And due to large scale production of standardized units they provided outstanding value.

Significant of Hauserman's 13 years' specialization in the steel partition field is the fact that more Hauserman Partitions are being installed today than all other makes combined. Direct factory branches render efficient, nation-wide planning and construction service. Send the coupon for more detailed information about this modern partition.



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THE E. F. HAUSERMAN COMPANY, Cleveland, Ohio
Send me more information about partitions for.....

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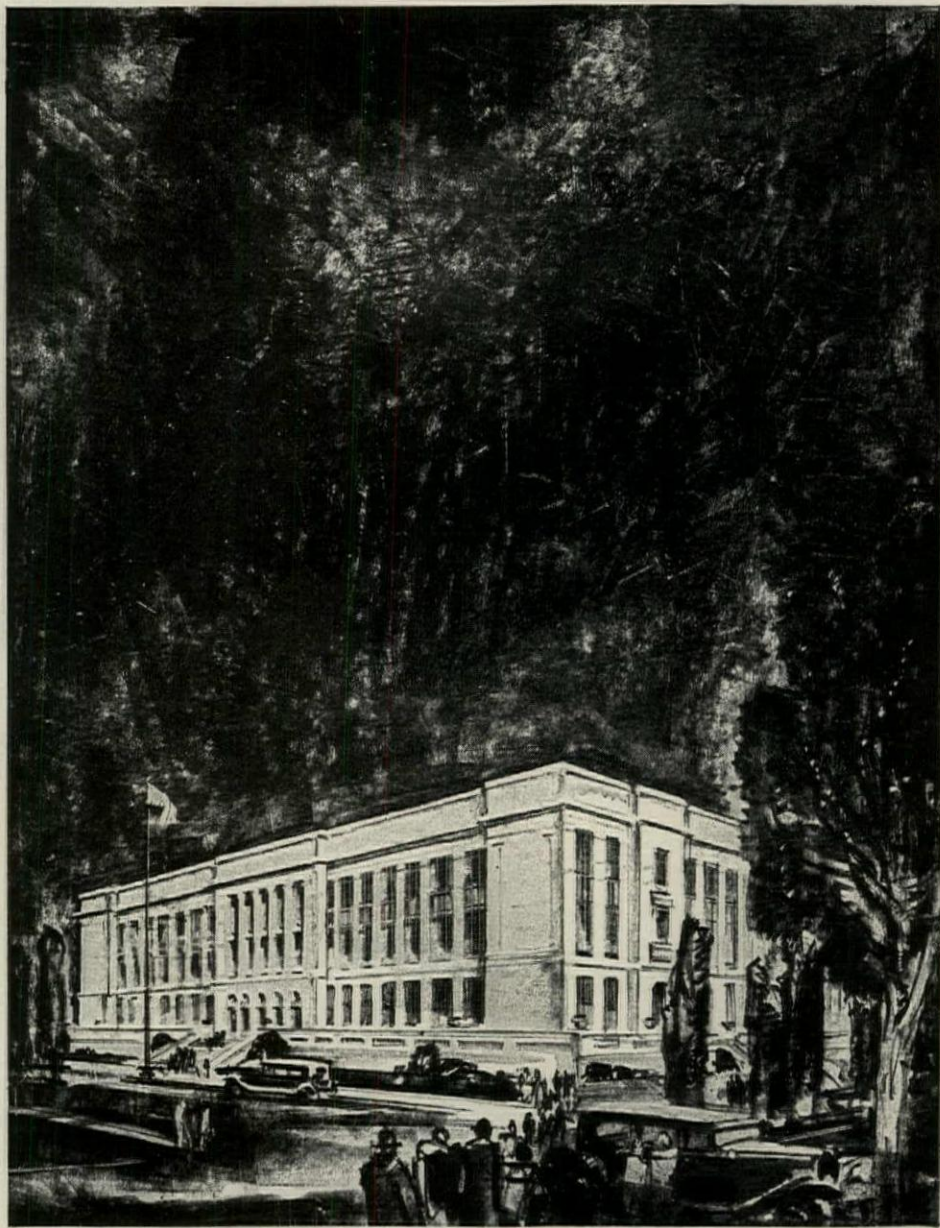
Firm

Address

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ALCOA

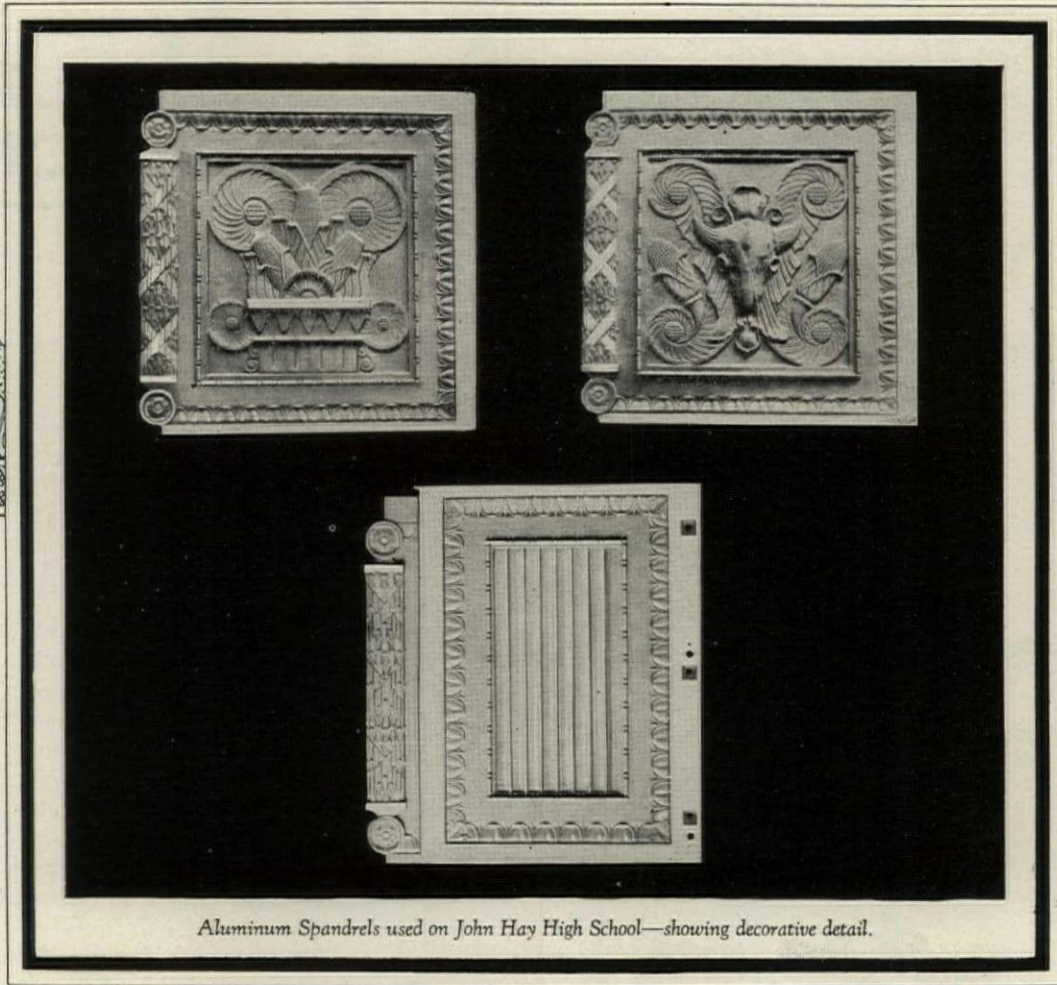


The John Hay High School—Cleveland, Ohio. Architect, G. M. Hopkins. General Contractors, The W. J. Schirmer Company. Sub-Contractors, The Republic Structural Iron Company.

DECORATIVE spandrels made of Aluminum—and shown in close-up on the opposite page—were used on the building pictured above.

Aluminum was chosen because it resists corrosion and does not form colored salts that would streak the adjacent surfaces.

ARCHITECTURAL ALUMINUM



Aluminum Spandrels used on John Hay High School—showing decorative detail.



THE design rendering on the spandrels shown above adds its evidence to the importance of Aluminum as an architectural metal.

Frequent painting, necessary to protect other metal spandrels from the action of the elements, is not only a constant item of maintenance expense, but fills up and finally obscures ornamentation detail.

The original design will always remain a permanent part of Aluminum Spandrels, because Aluminum is non-corrosive, and re-

quires no protective paint covering. The lightness and ductility of Aluminum effect economy in erection. It lends itself to the most elaborate character of ornamentation — and its silvery gray color blends beautifully with a wide variety of decorative schemes.

A booklet, "Architectural Aluminum," describes and visualizes many uses for Aluminum in that field. May we send you a copy?

ALUMINUM COMPANY OF AMERICA

24993 Oliver Bldg., Pittsburgh, Pa.

Offices in 19 Principal American Cities

[[Working drawings and specifications of spandrels used on the John Hay High School will be found on page 120]]

ARCHITECTURAL ALUMINUM

Clinton Grilles

~ always fit evenly



MEASUREMENTS for grille openings is last minute information and grilles themselves are often the last item to be installed. When grilles do not fit perfectly the final completion of the building is delayed while they are being adjusted.

When an architect orders a thirty-secondth of an inch in a dimension he gets it in Clinton Perforated Metal Grilles. There is never a spread, a warpage or buckle to consider. Clinton Grilles lie flat.

Finish too is controlled. Wisco Bronze made to match the hardware or to harmonize with the surroundings is always true to sample. Clinton Perforated Metal Grilles are satisfactory Grilles for the architect to specify.

The full list of stock dies and designs showing the possibilities of combination designs using stock dies are shown in our catalogue. We will be glad to send you this catalogue and have our local representative call.

See Sweet's Architectural and Engineering Catalog for Specifications.

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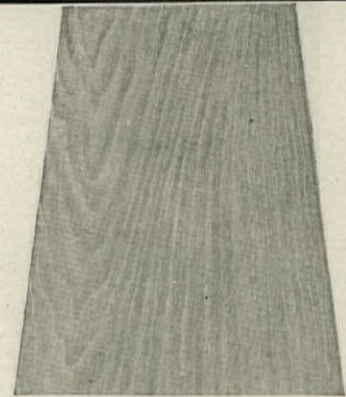
A few desirable territories are still available for responsible dealers to distribute Clinton Grilles



WICKWIRE SPENCER STEEL CO.
41 East 42nd Street, New York City
Send me . . . copies of your latest Handbook on Grilles.
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NO LIMITATIONS



The value of Northern Hard Maple as a flooring material for industrial, commercial and public buildings has long been recognized. It has no superior from the standpoint of comfort. And it is so durable that it actually outwears stone.

But Maple is not limited to such usage. Today, Maple floors *in color* are the new vogue for the finest residences. With special, fadeless penetrating stains which may be applied right in the room, it is now possible to produce permanent, transparent colors of your client's choice in this smooth, resilient Hardwood flooring.

Beech and Birch, close to Maple in hardness, are also ideal for residence floors. Having uniformity of natural color, they finish attractively under wax or varnish. Birch takes color stains beautifully, too.

MAPLE FLOORING MANUFACTURERS ASSN.
1766 McCormick Building, Chicago, Ill.



The letters **MFMA** on Maple, Beech or Birch flooring signify that the flooring is standardized and guaranteed by the Maple Flooring Manufacturers Association, whose members must attain and maintain the highest standards of manufacture and adhere to manufacturing and grading rules which economically conserve these remarkable woods. This trademark is for your protection. Look for it on the flooring you use. **MFMA**

Floor with Maple

Beech or Birch

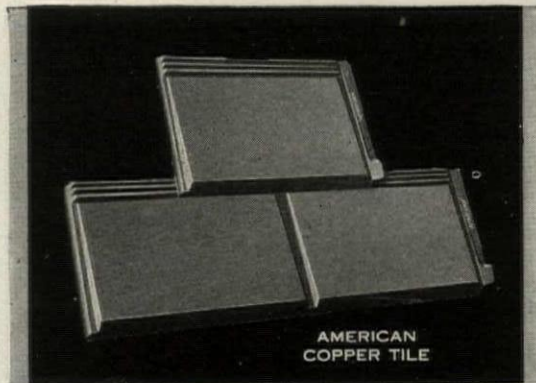
Modern Beauty in Enduring Copper

MILCOR Copper American Tile is made with the famous "Tite-Lock" edge. This feature . . . an exclusive Milcor patent . . . eliminates all possibility of leakage throughout the entire life of the roof. It is simple and yet infallible in its action. This Milcor Tite-Lock edge is largely responsible for the unlimited confidence shown by architects in Milcor Metal Tile.

Roofs of Milcor Copper American Tile are both distinguished and practical. Age beautifies them. They weather and mellow in shades that cannot be artificially reproduced or even successfully imitated. Pure copper is entirely alone in its enduring charm. It is fire proof . . . time proof . . . and free from all maintenance.

Whenever the opportunity presents itself specify Milcor Copper American Tile. It is so designed that it produces the much desired play of light and shadow over the roof . . . It is lasting and dignified. Ask for a copy of our Architectural Sheet Metal Guide for your files.

MILWAUKEE CORRUGATING CO.
1405 Burnham Street Milwaukee, Wisconsin



MS-3R1



Pure Copper

Milcor Metal American Tile is, in addition to pure Anaconda Copper, furnished in Copper Alloy Roof Terne or Armco Ingot Iron painted red or green. However, any color scheme desired can be easily achieved. Also double coated galvanized (hand dipped after formed). All Milcor Metal Tile has the famous Milcor "Tite-Lock" edge, which seals the roof against leakage.



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Eastern Plant: THE ELLER MANUFACTURING CO., Canton, Ohio
Sales Offices: Boston, Mass., Detroit, Mich., Atlanta, Ga., Little Rock, Ark., Minneapolis, Minn.
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Warwick achieves an in disappearing

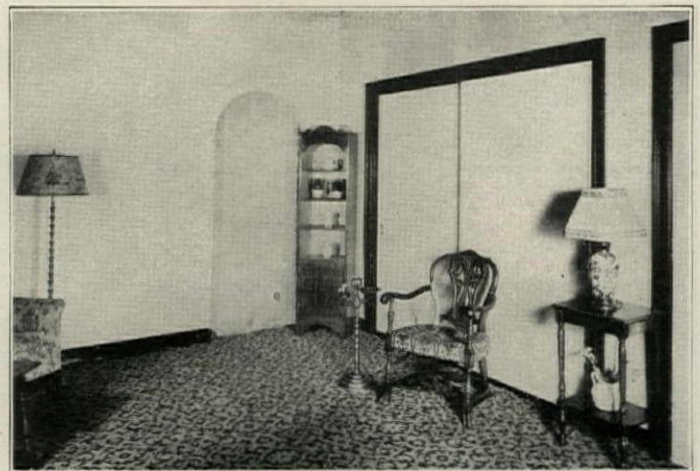


A Warwick twin-bed installation as it will appear in the Beaux-Arts Apartments of New York. The bed closet is concealed behind sliding doors. The beds move forward—out of the closet—and are lowered by a gentle touch of the hand. They are so perfectly balanced, that they remain suspended at any angle.

WARWICK Disappearing Beds are *real beds*. Their modern designs give them all the beauty of permanent bedroom furniture. Their sturdy construction and smooth mechanical performance insure years of trouble-free service. And—they provide the luxurious sleeping comfort you'd expect in the finest stationary beds.

The Warwick line of Disappearing Beds includes Roller, Recess, Pivot and Jamb-Type Beds suitable for practically every plan. May we send you our new catalog, to be off the press soon?

A livingroom with the twinbeds concealed in the bed closet. Note how perfectly this type of installation harmonizes with a modern interior.



Warwick

entirely new principle bed installation

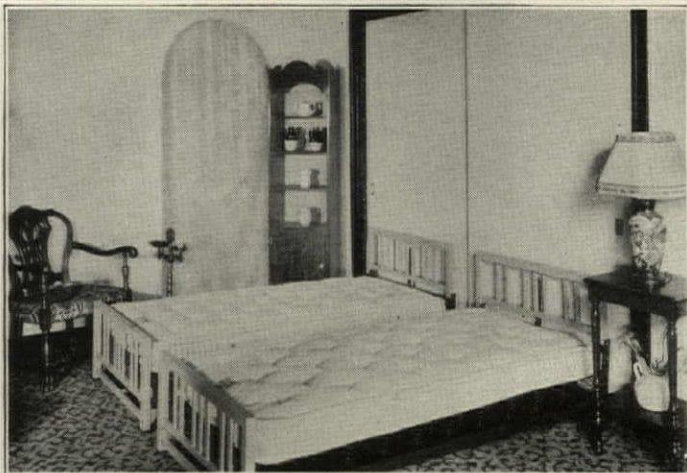
WARWICK announces the first major improvement in disappearing beds in recent years! *A new type of bed that permits a sliding door installation, concealing the bed when not in use . . . concealing the closet when the bed is down!* Now disappearing beds can be used for the finest buildings . . . are adaptable to the most modern interiors!

The new Warwick Bed was selected for the magnificent Beaux-Arts Apartments of New York. Note the prominent architects associated with the project, who selected the Warwick after careful analysis and comparison. There is nothing else like the new Warwick!

No doubt you will want full details of this innovation which is revolutionizing the planning of apartment and residential buildings. You will want to know how it affects your plans and the interests of your clients. A request will bring full information for immediate use or for your files . . . without obligation, of course.

THE "WHITE" DOOR BED COMPANY

40 East 49th Street, New York City 130 North Wells St., Chicago



The same room with the beds down, ready for the night. A striking contrast to the usual open closet and swinging doors!



Architectural approval of the new Warwick bed installation is amply demonstrated by its use in the \$5,000,000 Beaux-Arts Apartments at 307 and 310 East 44th Street, New York City. This outstanding project is sponsored by the following group of prominent architects:

Kenneth M. Murchison
Whitney Warren
Voorhees, Gmelin and Walker
Delano and Aldrich
Benjamin Wisner Morris
Raymond M. Hood
James N. O'Connor
William H. Gompert
John W. Cross
Charles T. Klauder
Ernest F. Tyler

The buildings, which are a source of great interest to architects everywhere, provide for 630 apartments of the most modern type. They are the first of a series of such buildings to be erected in New York and other metropolitan centers.

Architects: The Firm of
Kenneth M. Murchison

Associate Architects: Raymond
Hood, Godley and Fouilhoux

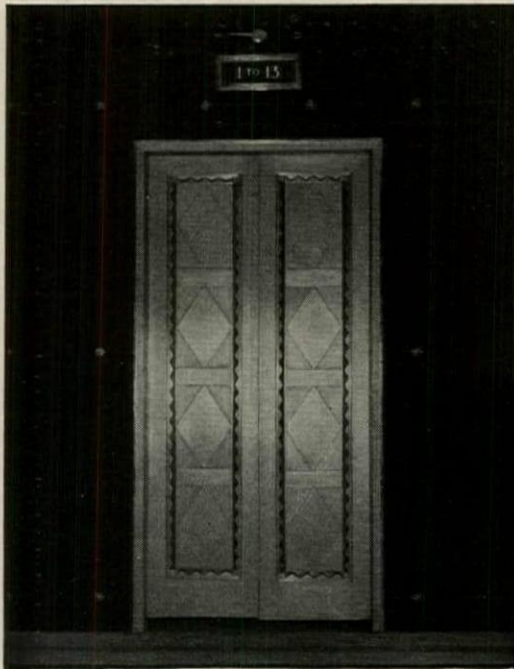
Contractors and Builders:
G. O. Fuller Company



DISAPPEARING BEDS

The WALL AND HANOVER BUILDING

NEW YORK



At left: Detail of elevator door, Wall and Hanover Building, executed in Monel Metal by SUPERB BRONZE & IRON WORKS, Brooklyn, N. Y. Architects, DELANO & ALDRICH, New York.

Lobby of Wall and Hanover Building showing 12 Monel Metal elevator doors executed by SUPERB BRONZE & IRON WORKS, and in the rear, cigar stand and telephone booths executed by DAHLSTROM METALLIC DOOR CO. of Jamestown, N. Y.

Mail box in Wall and Hanover Building executed in Monel Metal by JNO. WILLIAMS, INC. of New York, N. Y.



NEW proof of Monel Metal's superiority for modern ornamental work

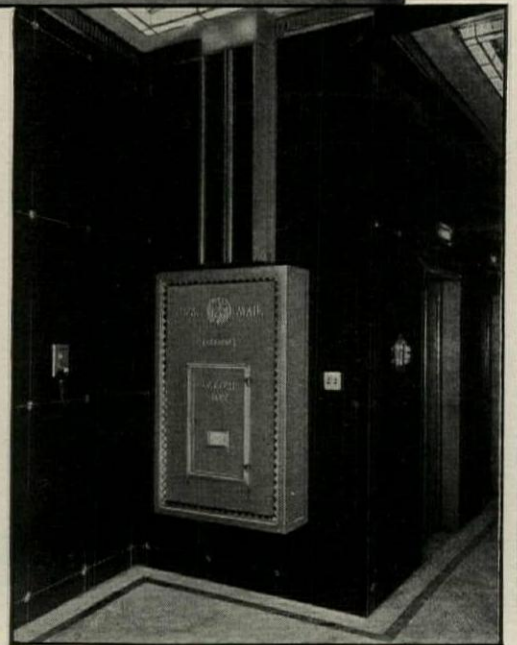
PERHAPS you have seen the handsome Monel Metal interior of the Union Trust Building in Detroit. But you will gain a new and different idea of Monel Metal's suitability for ornamental work from the new Wall and Hanover Building in New York.

In this monumental structure Monel Metal has been used for elevator doors, mail box, cigar stand, telephone booths. Employed against a contrasting background of black marble, the silvery lustre

of Monel Metal shows up to excellent advantage. But of prime importance is the fact that the silvery beauty of Monel Metal is permanent. It will not rust. It resists corrosion. It demands very little attention to preserve its original silvery lustre. And Monel Metal has no coating to chip, crack or wear off. It will last indefinitely under the very severest conditions.

Let us send you more information concerning the architectural uses of Monel Metal.

SEND FOR MONEL METAL ARCHITECTURAL FOLDERS



Monel Metal is a technically controlled Nickel-Copper alloy of high Nickel content. It is mined, smelted, refined, rolled and marketed solely by The International Nickel Company, Inc. The name "Monel Metal" is a registered trade mark.

MONEL METAL

THE INTERNATIONAL NICKEL COMPANY, INC., 67 WALL STREET, NEW YORK, N. Y.





The proposed sixty-four story Bank of The Manhattan Building, adjoining the U. S. Sub-Treasury and Assay Office, Broad and Wall Streets, New York City. H. Craig Severance, Inc., Architects, Starrett Bros. Inc., Builders. Color rendering by G. H. Mitchell.

You too, can obtain a similar effect or many other poster-treatment combinations with a subject of your own choosing. A detailed description of how the above rendering was handled may be obtained from Chas. M. Higgins & Co., 271 Ninth Street, Brooklyn, N. Y., entirely without obligation.

THE OLD, RELIABLE MEDIUM DEPICTS THE MODERN RENAISSANCE IN RENDERING

REGARDLESS of actual treatment, innumerable subjects are best rendered in the old, reliable medium,—Higgins' Drawing Inks.

No other material can so thoroughly comply with the growing preference for line drawings in color, for color work in wash, or in combinations of line and wash, and the brilliant, flat color, poster-type treatments which all combine to constitute today's techniques—the modern Renaissance in Rendering.

Color-rendering in ink offers many variations and possibilities; often it is most essential in order to obtain an effect which is dictated by the type of subject.

"Techniques", an exhaustive, exquisitely-printed treatise upon the subject of rendering in ink, contains the examples of many noteworthy exponents of this medium. Copies will be sent gratis to architects and all others mentioning this magazine.

CHAS. M. HIGGINS & CO., 271 Ninth St., Brooklyn, N. Y.

HIGGINS'

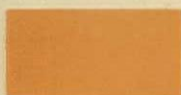
Drawing Inks



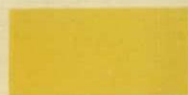
Brown



Vermilion



Orange



Yellow



Blue



Black

ELEVATOR ENTRANCES BY DAHLSTROM



ALL ELEVATOR ENTRANCES IN THIS BUILDING BY DAHLSTROM

PARK PLAZA APARTMENTS ST. LOUIS, MISSOURI

Architects: Laurence O. SCHOPP and Edwin J. BAUMAN
Associated Architects, Saint Louis, Missouri

PARK PLAZA CO., OWNERS AND BUILDERS
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FORMICA[™]

PANELS *and* SHELVING



IN THIS HANDSOME BATHROOM

The picture, reproduced by permission of the Metropolitan Museum of Arts, New York, shows a bath room designed by Ely Jacques Kahn, Architect, New York and shown in the Eleventh Annual Exhibit of American Industrial Art at the Museum.

The door panels, top and bottom in the cabinets at the right are Formica as are also the shelving in the cabinets.

Formica is being widely used in building for kitchen cabinet tops, tops of dinette tables, for window stools and wainscoting. ◡ ◡ ◡ ◡ ◡

The material is not spotted by liquids or burned by lighted cigars and cigarettes. It is offered in a dozen color effects, marble markings, wood grains, solid colors, and art moderne patterns.

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FORMICA

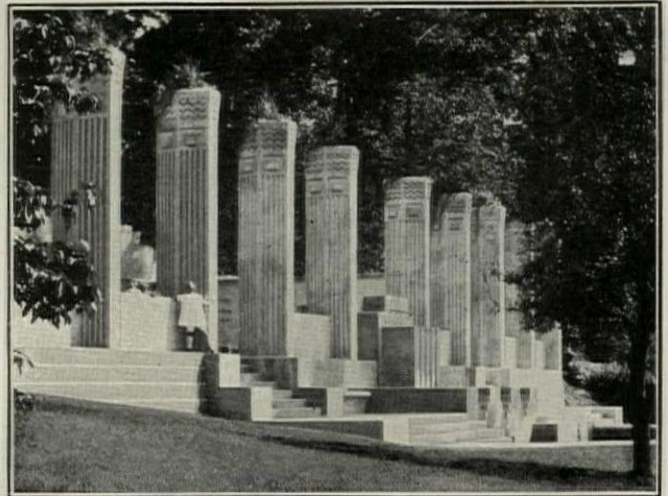
for **BUILDING PURPOSES**

These Beautiful Effects

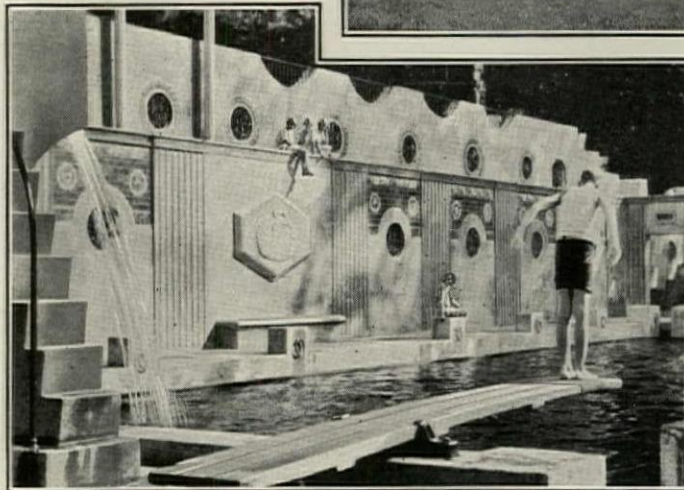


The entrance to the Arcady Apartments in Los Angeles, is a striking example of the ornamental beauty attainable in monolithic concrete. Walker and Eisen, Architects, Los Angeles.

Appreciation of concrete and its advantages, both from the structural and artistic standpoints, is rapidly growing. New examples of the wide latitude of design permitted by this plastic material constantly demonstrate its possibilities.



Classic in inspiration but modern in conception, the approach to this Swimming Pool at Green Hill Farms Hotel, Overbrook, Philadelphia, is a tribute to the monolithic technique. Solid concrete construction gave the architects ample scope for the creation of a beautiful and original setting for the pool proper. Harry Sternfeld, Philadelphia, and John Irwin Bright, Ardmore, Pa., Architects.



Swimming Pool Photographs by Sigurd Fischer, New York City

PORTLAND CEMENT

CONCRETE FOR PERMANENCE

Achieved in Solid Concrete -decorations cast integrally with the structure



This modern factory building, the plant of the Southern Biscuit Works at Richmond, Va., demonstrates the combination of true beauty with the purely practical in reinforced concrete construction. The picture at the left shows also how splendidly a concrete exterior lends itself to flood lighting. Francisco and Jacobus, Architects, New York City.

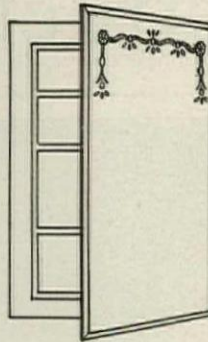
MONOLITHIC concrete construction—the placing of concrete to form an edifice which is, in effect, a single stone—today offers possibilities undreamed of a few short years ago.

Wide latitude, both in design and embellishment, is permitted by the monolithic technique. Ornamentation is cast as a part of the structure. Colors and wall textures may be simply controlled. The new elements of design associated with modern architectural thought are easily executed.

The structures pictured here—from swimming pool to factory—show the possibilities of monolithic concrete. The main walls and the exterior decorations were moulded in place. Harmonized beauty results.

Modern concrete architecture—beautiful, economical and firesafe—is an interesting study. We will gladly assist those who desire to go further into it. Complete data and references await your request.

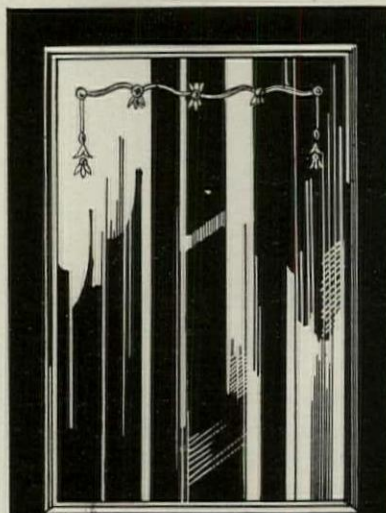
A S S O C I A T I O N *Chicago*
 . . . **A N D F I R E S A F E T Y**



Hess Cabinets are pressed from steel— one piece— electrically welded. Corners are rounded for easy cleaning.

MODERN bathrooms, in keeping with the finest interiors, are now equipped with Hess Mirrored Cabinets. Simple in design, modern in tendency, they give that added touch of comfort and luxury that means much to the home owner. Large mirrors of beveled plate glass conceals the sanitary cabinets, pure white, as easily cleaned as a china dish. A wide variety of sizes and styles is included in the Hess line to meet every service—you will find just the kind of cabinet you want here. Mail the coupon below for catalog and prices.

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The
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RITZ TOWER
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Shade Rollers

The Ritz Tower rears its forty dignified stories above New York's most "ultra" neighborhood, at Park Avenue and Fifty-seventh Street. It looks exclusive — and is.

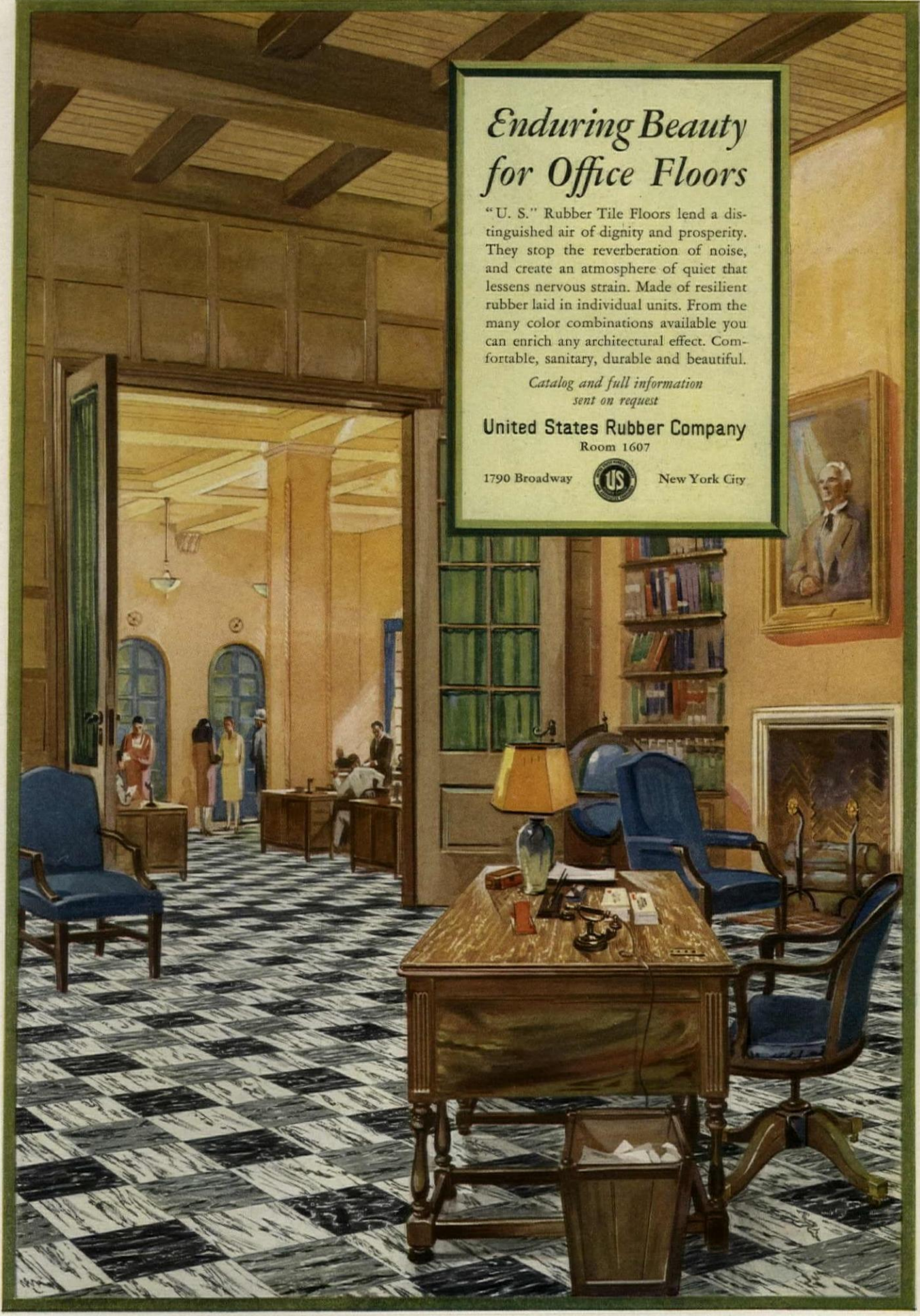
Hartshorn Shade Rollers help to create and preserve the quiet and peace so infallibly associated with an apartment hotel of this type. For shades mounted on Hartshorn Rollers never balk or stick, and are instantly and surely responsive to the slightest touch of the hand upon the shade cord.

STEWART HARTSHORN COMPANY
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SHADE ROLLERS and
WINDOW SHADE CLOTH



Enduring Beauty for Office Floors

"U. S." Rubber Tile Floors lend a distinguished air of dignity and prosperity. They stop the reverberation of noise, and create an atmosphere of quiet that lessens nervous strain. Made of resilient rubber laid in individual units. From the many color combinations available you can enrich any architectural effect. Comfortable, sanitary, durable and beautiful.

*Catalog and full information
sent on request*

United States Rubber Company
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New York City

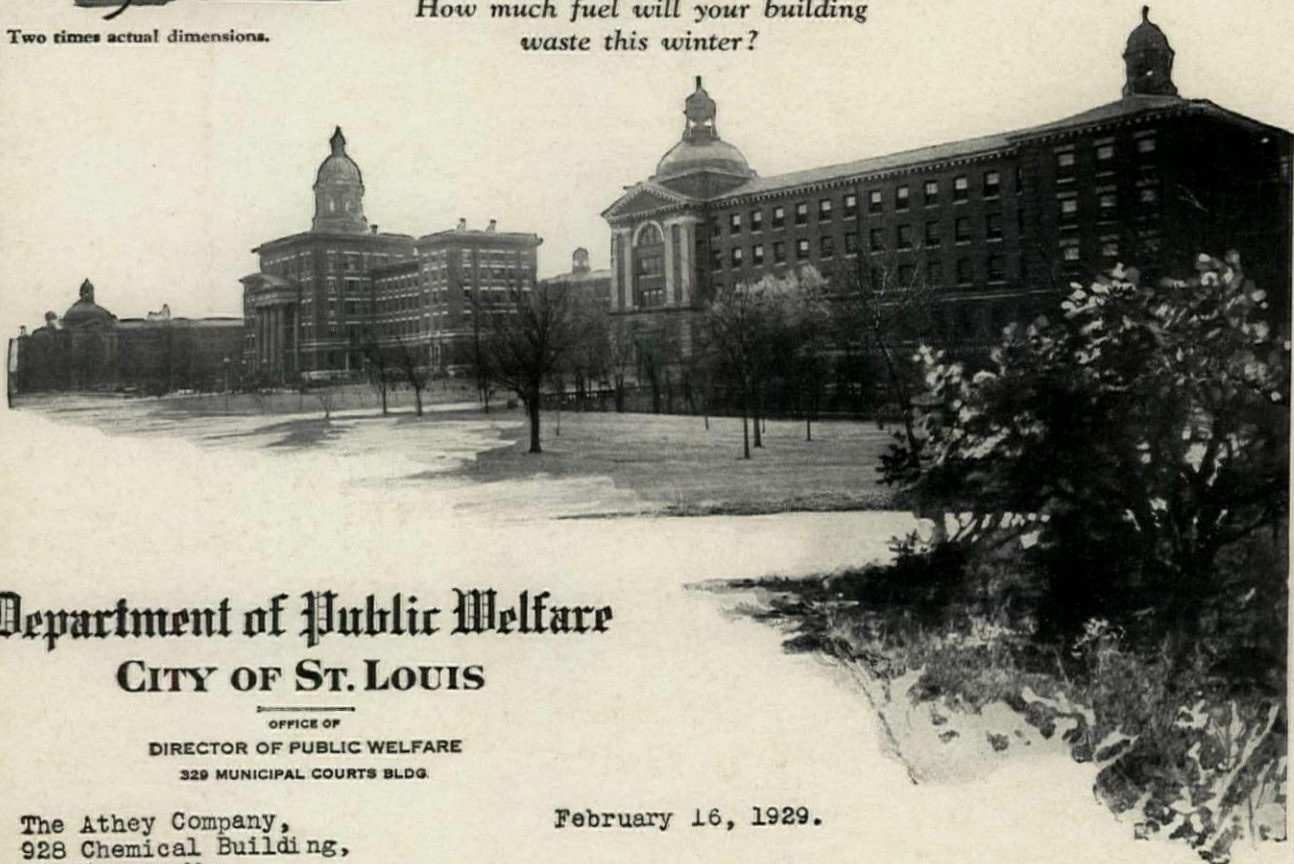


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50% ON THE INVESTMENT FOR every year THE LIFE OF THE BUILDING

Without taking in consideration the big saving in the handling of fuel or ashes or the saving in decoration expense due to the draft-proof windows, keeping out dust, smoke and gases.

How much fuel will your building waste this winter?



Department of Public Welfare CITY OF ST. LOUIS

OFFICE OF
DIRECTOR OF PUBLIC WELFARE
329 MUNICIPAL COURTS BLDG.

The Athey Company,
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St. Louis, Mo.

February 16, 1929.

Gentlemen:--

You will perhaps be glad to know that through the weather-stripping job handled by your people at the City Sanitarium recently, we were able to discontinue the use of one 350 horse-power boiler, a saving to the City of about \$1500.00 a month in coal. We were also able to cancel an order for about \$2000.00 worth of blankets, which had been requisitioned for use during the present winter.

Feeling that this information would be of interest to you, we gladly submit it.

Yours very truly,

H. Salsbury
Director of Public Welfare.

Send for this
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It will help you cut down
heating expense

Athey Weatherstrips Pay for Themselves in a Short Time

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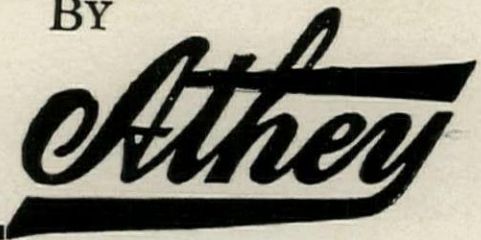
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THE ARCHITECTS OF AMERICA

are invited

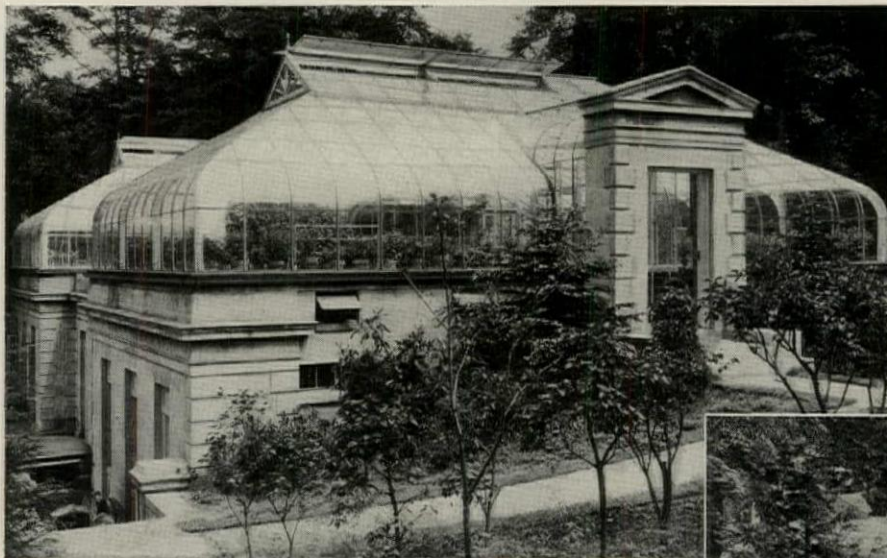
TO ATTEND THE
SOUTHERN ARCHITECTURAL AND INDUSTRIAL ARTS EX-
POSITION, FEATURING BOARD OF DIRECTORS MEETING OF THE A. I. A.; REGIONAL CONFERENCE OF THE SIXTEEN SOUTHERN CHAPTERS OF THE A. I. A.; SIXTH SEMI-ANNUAL MEETING OF THE PRODUCERS' COUNCIL; EXHIBITS OF ARCHITECTURE, INTERIOR DECORATIONS, BUILDING MATERIALS AND EQUIPMENT



UNDER THE AUSPICES OF THE
SOUTHERN CHAPTERS OF THE
AMERICAN INSTITUTE OF ARCHITECTS

on
NOVEMBER
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at the
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Greenhouse garage unit on the estate of Mr. S. P. Halle, Cleveland, Ohio. Corbusier, Lenski & Foster, Architects.



V-BAR GREENHOUSES



A GARAGE and a Greenhouse Under One Roof. Architects can appreciate this ingenious solution to a knotty problem. Space too restricted to accommodate both units as individual structures, it was a case of "cut the pattern to fit the cloth." Taking full advantage of the uneven terrain, the garage was placed under the brow of the slope, and upon it was built a greenhouse of rare beauty.

This Lutton Greenhouse, while distinctive in its unusual arrangement is simply another example of the fine workmanship and scientific design so typical of the Lutton artisans. We cooperate eagerly with architects, whether the plan calls for an elaborate greenhouse or a modest "lean to." You can be assured of your client's enthusiastic satisfaction when you recommend Lutton Solar V-Bar Greenhouses.

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222 KEARNEY AVE. E. A. WARD, Pres. JERSEY CITY, N. J.

MAKES ANY BUILDING MORE ATTRACTIVE

Shady-way
ROLLER
AWNINGS

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HERE'S the latest double-purpose awning, serving both as an awning and a shade. It rolls up and down like a roller curtain, controlled from the inside and does not need to be taken down in winter.

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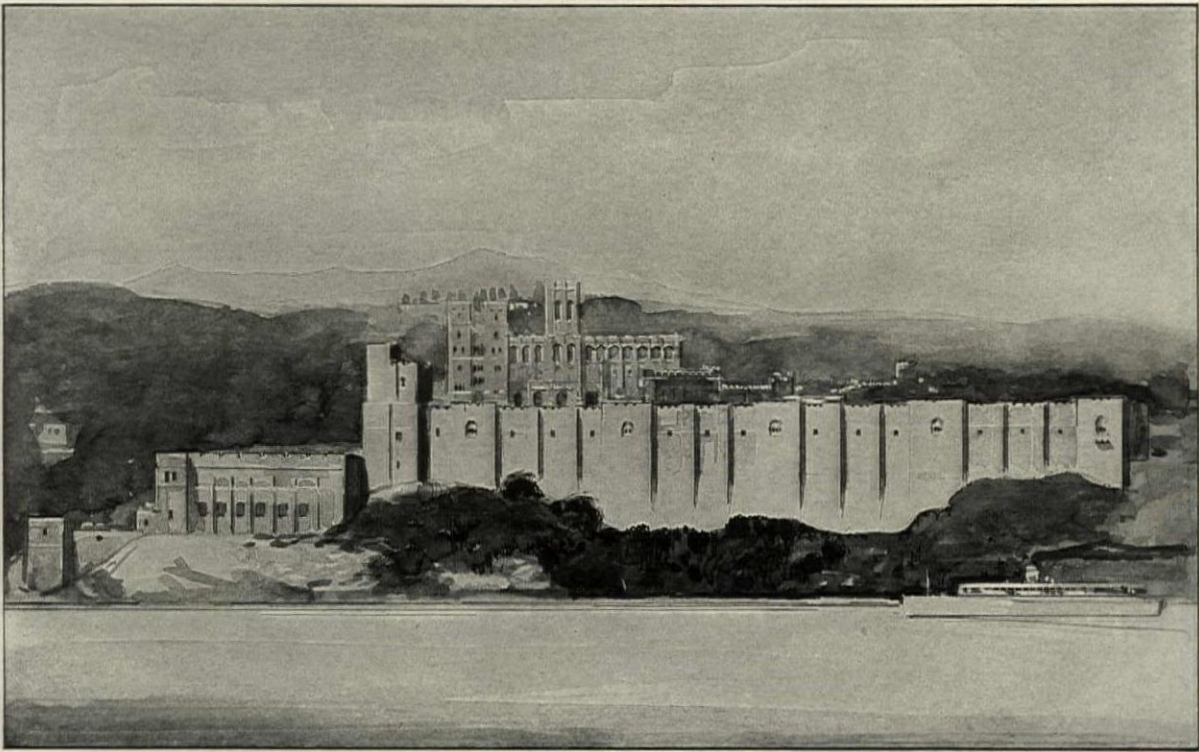
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When Beauty *and* Efficiency Combine...



The Ainsworth Archer Model Monax Globe. Three hundred of these were installed in the hospital at the United States Military Academy.



UTILITY and efficiency are the guiding principles of most purchases by the War Department. The one place where beauty enters into consideration is at West Point, as those who have visited the United States Military Academy and viewed its handsome buildings can testify.

Beauty as well as efficiency was considered in the selection of Monax Globes to light the

hospital at the academy. Monax Globes are particularly well-suited to hospital use, where ample light without glare is important. Patients as well as doctors and nurses appreciate the gentle, well-diffused, abundant light and the noticeable absence of sharp shadows.

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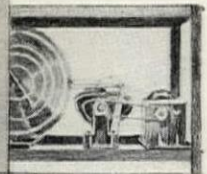
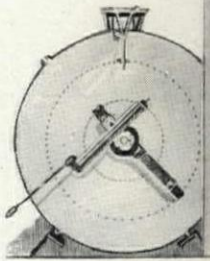
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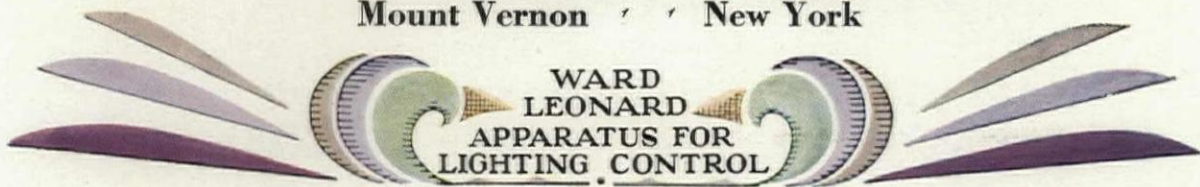
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CLEVELAND	CINCINNATI		

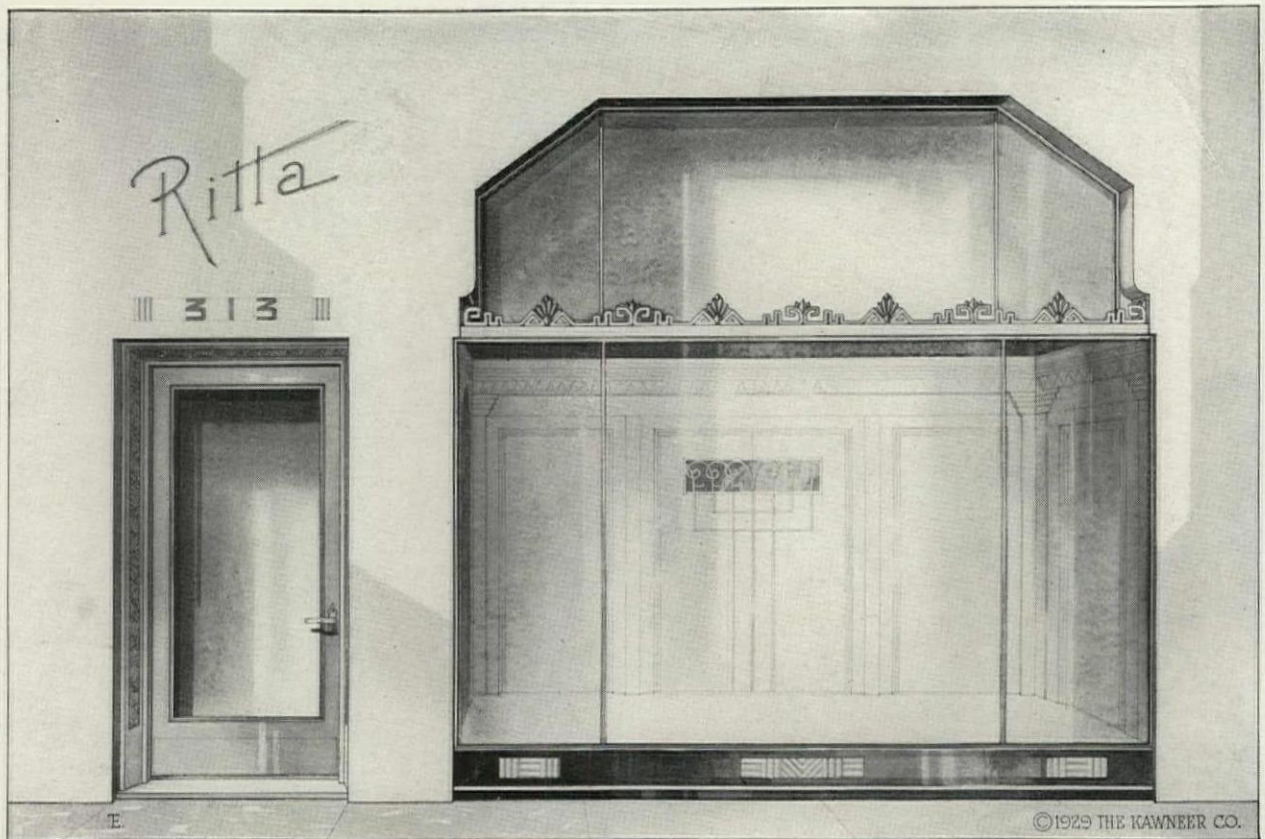


LIGHTING *for* PROFIT

The owners of relatively large department stores, and similar retail outlets, will find mobile color lighting a valuable adjunct to their regular publicity efforts. Color-in-motion illumination attracts attention to a building in a manner both positive and unusual. This interest is especially valuable, of course, centering as it does directly upon the store. ¶ The display windows and store interior offer possibilities just as unusual and attractive. In the store interior for example, style departments, the restaurant, and the music auditorium could all readily employ mobile color lighting with profit. . . . During the past two years the Ward Leonard Electric Company has made many interesting installations in this field. The information and experience we have gained is yours for the asking. You will be placed under no obligation by requesting it. Bulletin 74, which covers the general field of mobile color lighting, will be sent upon request.

WARD LEONARD ELECTRIC CO.
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**STORE FRONTS, DOORS
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are made
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to comply with architect's drawings and specifications regardless of design. The 1929 SWEET'S contains the Kawneer catalog with complete information on all average store front problems.

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Selected List of Manufacturers' Publications

FOR THE SERVICE OF ARCHITECTS, ENGINEERS, DECORATORS, AND CONTRACTORS

The publications listed in these columns are the most important of those issued by leading manufacturers identified with the building industry. They may be had without charge unless otherwise noted, by applying on your business stationery to *The Architectural Forum*, 521 Fifth Ave., New York, or the manufacturer direct, in which case kindly mention this publication.

ACOUSTICS

- R. Guastavino Co.**, 40 Court St., Boston.
Akoustolith Plaster. Brochure, 6 pp., 8½ x 11 ins. Important data on a valuable material.
- Johns-Manville Corporation**, New York.
Sound-Absorbing Treatment in Banks and Offices. Booklet, 18 pp., 8½ x 11 ins. Illustrated.
- Sound-Absorbing Treatment in Churches and Religious Institutions. Brochure. 22 pp., 8½ x 11 ins. Illustrated.
- U. S. Gypsum Co.**, 205 W. Monroe St., Chicago, Ill.
A Scientific Solution of an Old Architectural Problem. Folder, 6 pp., 8½ x 11 ins. Describes Sabinite Acoustical Plaster.

ASPHALT

- Barber Asphalt Company**, New York, Philadelphia, Chicago, Pittsburgh, Kansas City, St. Louis, San Francisco.
Specifications for Applying Genasco Asphalt Mastic. Booklet, 16 pp., 8 x 9 ins.
- Genasco Trinidad Lake Asphalt Mastic. Brochure, 32 pp., 6 x 9 ins.
- Specifications for Applying Genasco. Booklet, 16 pp., 8 x 10½ ins.

BRICK

- American Face Brick Association**, 1751 Peoples Life Building, Chicago, Ill.
Brickwork in Italy. 298 pp., size 7½ x 10½ ins., an attractive and useful volume on the history and use of brick in Italy from ancient to modern times, profusely illustrated with 69 line drawings, 300 half-tones, and 20 colored plates, with a map of modern and XII century Italy. Bound in linen. Price now \$3.00, postpaid (formerly \$6.00). Half Morocco, \$7.00.
- Industrial Buildings and Housing. Bound Volume, 112 pp., 8½ x 11 ins. Profusely illustrated. Deals with the planning of factories and employes' housing in detail. Suggestions are given for interior arrangements, including restaurants and rest rooms. Price now \$1.00 postpaid (formerly \$2.00).
- Common Brick Mfrs. Assn. of America**, 2134 Guarantee Title Bldg., Cleveland.
Brick; How to Build and Estimate. Brochure, 96 pp., 8½ x 11 ins. Illustrated. Complete data on use of brick.
- The Heart of the Home. Booklet, 24 pp., 8½ x 11 ins. Illustrated. Price 25 cents. Deals with construction of fireplaces and chimneys.
- Skintled Brickwork. Brochure, 16 pp., 8½ x 11 ins. Illustrated. Tells how to secure interesting effects with common brick.
- Building Economy. Monthly magazine, 22 pp., 8½ x 11 ins. Illustrated. \$1 per year, 10 cents a copy. For architects, builders and contractors.
- Hanley Company**, Bradford, Pa.
General Catalog. 16 pp., 8½ x 11 ins. Illustrated.
- Bradford Reds. Folder. 8 pp., 3 x 8 ins. Illustrated.

CEMENT

- Carney Company, The**, Mankato, Minn.
A Remarkable Combination of Quality and Economy. Booklet, 20 pp., 8½ x 11 ins. Illustrated. Important data on valuable material.
- Kosmos Portland Cement Company**, Louisville, Ky.
Kosmortar for Enduring Masonry. Folder, 6 pp., 3½ x 6½ ins. Data on strength and working qualities of Kosmortar.
- Kosmortar, the Mortar for Cold Weather. Folder, 4 pp., 3½ x 6½ ins. Tells why Kosmortar should be used in cold weather.
- Louisville Cement Co.**, 315 Guthrie St., Louisville, Ky.
BRIXMENT for Perfect Mortar. Self-filing handbook, 8½ x 11 ins. 16 pp. Illustrated. Contains complete technical description of BRIXMENT for brick, tile and stone masonry, specifications, data and tests.
- Portland Cement Association**, Chicago, Ill.
Concrete Masonry Construction. Booklet, 48 pp., 8½ x 11 ins. Illustrated. Deals with various forms of construction.
- Town and Country Houses of Concrete Masonry. Booklet, 20 pp., 8½ x 11 ins. Illustrated.
- Facts About Concrete Building Tile. Brochure, 16 pp., 8½ x 11 ins. Illustrated.
- The Key to Firesafe Homes. Booklet, 20 pp., 8½ x 11 ins. Illustrated.
- Design and Control of Concrete Mixers. Brochure, 32 pp., 8½ x 11 ins. Illustrated.
- Portland Cement Stucco. Booklet, 64 pp., 8½ x 11 ins. Illustrated.
- Concrete in Architecture. Bound Volume, 60 pp., 8½ x 11 ins. Illustrated. An excellent work, giving views of exteriors and interiors.

CONCRETE BUILDING MATERIALS

- Concrete Steel Company**, 42 Broadway, New York.
Modern Concrete Reinforcement. Booklet, 32 pp., 8½ x 11 ins. Illustrated.
- Kosmos Portland Cement Company**, Louisville, Ky.
High Early Strength Concrete, Using Standard Kosmos Portland Cement. Folder, 1 page, 8½ x 11 ins. Complete data on securing high strength concrete in short time.

CONCRETE COLORINGS

- The Master Builders Co.**, 7016 Euclid Ave., Cleveland.
Color Mix, Colored Hardened Concrete Floors (integral). Brochure, 16 pp., 8½ x 11 ins. Illustrated. Data on coloring for floors.
- Dychrome. Concrete Surface Hardener in Colors. Folder, 4 pp., 8 x 11 ins. Illustrated. Data on a new treatment.

CONSTRUCTION, FIREPROOF

- Master Builders Co.**, Cleveland, Ohio.
Color Mix. Booklet, 18 pp., 8½ x 11 ins. Illustrated. Valuable data on concrete hardener, waterproofer and dustproofer in permanent colors.
- National Fire Proofing Co.**, 250 Federal St., Pittsburgh, Pa.
Standard Fire Proofing Bulletin 171. 8½ x 11 ins., 32 pp. Illustrated. A treatise on fireproof floor construction.
- North Western Expanded Metal Co.**, 1234 Old Colony Building, Chicago, Ill.
North Western Expanded Metal Products. Booklet, 8½ x 10½ ins. 16 pp. Fully illustrated, and describes different products of this company, such as Kno-burn metal lath, 20th Century Corrugated, Plaster-Sava and Longspan lath channels, etc.
- A. I. A. Sample Book. Bound volume, 8½ x 11 ins., contains actual samples of several materials and complete data regarding their use.

CONSTRUCTION, STONE AND TERRA COTTA

- Cowing Pressure Relieving Joint Company**, 100 North Wells St., Chicago, Ill.
Pressure Relieving Joint for Buildings of Stone, Terra Cotta or Marble. Booklet, 16 pp., 8½ x 11 ins. Illustrated. Deals with preventing cracks, spalls and breaks.

CORNICES, METAL

- Sheet Steel Trade Extension Committee**. Terminal Tower, Cleveland.
This committee will send upon request full data published by its members on sheet steel cornices and specifications for their use.

DAMP-PROOFING

- The Master Builders Co.**, 7016 Euclid Ave., Cleveland.
Waterproofing and Dampproofing Specification Manual. Booklet, 18 pp., 8½ x 11 ins. Deals with methods and materials used.
- Waterproofing and Dampproofing. File. 36 pp. Complete descriptions and detailed specifications for materials used in building and concrete.
- Minwax Company, Inc.**, 11 West 42nd St., New York.
Complete Index of all Minwax Products. Folder, 6 pp., 8½ x 11 ins. Illustrated. Complete description and detailed specifications.
- Sonneborn Sons, Inc., L.**, 116 Fifth Ave., New York.
Specification Sheet, 8½ x 11 ins. Descriptions and specifications of compounds for dampproofing interior and exterior surfaces.
- Toch Brothers**, New York, Chicago, Los Angeles.
Handbook of R. L. W. Protective Products. Booklet, 40 pp., 4½ x 7½ ins.
- The Vortex Mfg. Co.**, Cleveland, Ohio.
Par-Lock Specifications "Forms A and B" for dampproofing and plaster key over concrete and masonry surfaces.
- Par-Lock Specification "Form J" for dampproofing the wall surfaces that are to be plastered.
- Par-Lock Dampproofing. Specification Forms C, F, I, and J. Sheets 8½ x 11 ins. Data on gun-applied asphalt dampproofing for floors and walls.

DOORS AND TRIM, METAL

- The American Brass Company**, Waterbury, Conn.
Anaconda Architectural Bronze Extruded Shapes. Brochure, 180 pp., 8½ x 11 ins., illustrating and describing more than 2,000 standard bronze shapes of cornices, jamb casings, mouldings, etc.
- The Kawneer Company**, Niles, Michigan.
Detail sheet, 8½ x 11 ins., with A.I.A. File No. featuring Heavy Welded Bronze Doors.

REQUEST FOR CATALOGS

To get any of the catalogs described in this section, put down the title of the catalog desired, the name of the manufacturer and send coupon to THE ARCHITECTURAL FORUM, 521 Fifth Avenue, New York.

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Name Business

Address

SELECTED LIST OF MANUFACTURERS' PUBLICATIONS — *Continued from page 87*

DOORS AND TRIM, METAL—Continued

- Richards-Wilcox Mfg. Co.,** Aurora, Ill.
Fire-Doors and Hardware. Booklet, 8½ x 11 ins., 64 pp. Illustrated. Describes entire line of tin-clad and corrugated fire doors, complete with automatic closers, track hangers and all the latest equipment—all approved and labeled by Underwriters' Laboratories.
- Sheet Steel Trade Extension Committee,** Terminal Tower, Cleveland. This committee will send upon request full data published by its members on metal doors and trim and specifications for their use.
- Truscon Steel Company,** Youngstown, Ohio.
Copper Alloy Steel Doors. Catalog 110. Booklet, 48 pp., 8½ x 11 ins. Illustrated.

DOORS, SOUNDPROOF

- Irving Hamlin,** Evanston, Ill.
The Evanston Soundproof Door. Folder, 8 pp., 8½ x 11 ins. Illustrated. Deals with a valuable type of door.

DRAINAGE FITTINGS

- Josam Mfg. Co.,** Michigan City, Ind.
Josam Products. Booklet, 73 pp., 8½ x 11 ins. Illustrated. A valuable line of accessories.
Josam-Marsh Grease, Plaster, Sediment and Hair Interceptors. Brochure. 7 pp., 8½ x 11 ins. Illustrated.
Josam New Saw Tooth-Roof Drain. Folder, 4 pp., 8½ x 11 ins. Illustrated.

DUMBWAITERS

- Sedgwick Machine Works,** 151 West 15th St., New York, N. Y.
Catalog and Service Sheets. Standard specifications, plans and prices for various types, etc. 4¼ x 8¼ ins., 60 pp. Illustrated. Catalog and pamphlets, 8½ x 11 ins. Illustrated. Valuable data on dumbwaiters.

ELECTRICAL EQUIPMENT

- Baldor Electric Co.,** 4358 Duncan Avenue, St. Louis, Mo.
Baldor Electric Motors. Booklet, 14 pp., 8 x 10½ ins. Illustrated. Data regarding motors.
- Bryant Electric Company,** Bridgeport, Conn.
HookEx Plug and Receptacle. Folder, 6 pp., 3½ x 6¼ ins. Illustrated.
KeNeX Plug and Receptacle. Folder, 6 pp., 3½ x 6¼ ins. Illustrated.
Three-wire Polarized Caps and Receptacles. Leaflet, 8½ x 10 ins. Illustrated.
Three-wire Polarized Caps and Receptacles for Heavy Duty. Leaflet, 8½ x 10 ins. Illustrated.
- General Electric Co.,** Merchandise Dept., Bridgeport, Conn.
Wiring System Specification Data for Apartment Houses and Apartment Hotels. Booklet, 20 pp., 8 x 10 ins. Illustrated.
Electrical Specification Data for Architects. Brochure, 36 pp., 8 x 10½ ins. Illustrated. Data regarding G. E. wiring materials and their use.
The House of a Hundred Comforts. Booklet, 40 pp., 8 x 10½ ins. Illustrated. Dwells on importance of adequate wiring.
- Harvey Hubbell, Inc.,** Bridgeport, Conn.
Electrical Specialties. Catalog No. 19. 52 pp., 8½ x 10 ins. Illustrated.
- Pick-Barth Company, Inc.,** Albert, 1200 West 35th St., Chicago, and Cooper Square, New York.
School Cafeteria. Booklet, 6 x 9 ins. Illustrated. The design and equipment of school cafeterias with photographs of installation and plans for standardized outfits.
- Prometheus Electric Corporation,** 360 West 13th St., New York.
Electric Heating Specialties. Booklet, 24 pages. 8½ x 11 ins. Illustrated. Specialties for heating, cooking, hospitals, organ lofts, etc.
- Westinghouse Electric & Mfg. Co.,** East Pittsburgh, Pa.
Electric Power for Buildings. Brochure, 14 pp., 8½ x 11 ins. Illustrated. A publication important to architects and engineers.
Variable-Voltage Central Systems as Applied to Electric Elevators. Booklet, 12 pp., 8½ x 11 ins. Illustrated. Deals with an important detail of elevator mechanism.
Modern Electrical Equipment for Buildings. Booklet, 8½ x 11 ins. Illustrated. Lists many useful appliances.
Electrical Equipment for Heating and Ventilating Systems. Booklet, 24 pp., 8½ x 11 ins. Illustrated. This is "Motor Application Circular 7379."
Westinghouse Panelboards and Cabinets (Catalog 42-A). Booklet, 32 pp., 8½ x 11 ins. Illustrated. Important data on these details of equipment.
Beauty; Power; Silence; Westinghouse Fans. (Dealer Catalog 45.) Brochure, 16 pp., 8½ x 11 ins. Illustrated. Valuable information on fans and their uses.
Electric Range Book for Architects (A. I. A. Standard Classification 31 G-4). Booklet, 24 pp., 8½ x 11 ins. Illustrated. Cooking apparatus for buildings of various types.
Westinghouse Commercial Cooking Equipment (Catalog 280). Booklet, 32 pp., 8½ x 11 ins. Illustrated. Equipment for cooking on a large scale.
Electric Appliances (Catalog 44-A). 32 pp., 8½ x 11 ins. Deals with accessories for home use.

ELEVATORS

- Otis Elevator Company,** 260 Eleventh Ave., New York, N. Y.
Otis Push Button Controlled Elevators. Descriptive leaflets, 8½ x 11 ins. Illustrated. Full details of machines, motors and controllers for these types.
Otis Geared and Gearless Traction. Elevators of All Types. Descriptive leaflets, 8½ x 11 ins. Illustrated. Full details of machines, motors and controllers for these types.
Escalators. Booklet, 8½ x 11 ins., 22 pp. Illustrated. Describes use of escalators in subways, department stores, theaters and industrial buildings. Also includes elevators and dock elevators.
- Richards-Wilcox Mfg. Co.,** Aurora, Ill.
Elevators. Booklet, 8½ x 11 ins., 24 pp. Illustrated. Describes complete line of "Ideal" elevator door hardware and checking devices, also automatic safety devices.
- Sedgwick Machine Works,** 151 West 15th St., New York, N. Y.
Catalog and descriptive pamphlets, 4¼ x 8¼ ins., 70 pp. Illustrated. Descriptive pamphlets on hand power freight elevators, sidewalk elevators, automobile elevators, etc.
Catalog and pamphlets, 8½ x 11 ins. Illustrated. Important data on different types of elevators.

ESCALATORS

- Otis Elevator Company,** 260 Eleventh Ave., New York, N. Y.
Escalators. Booklet, 32 pp., 8½ x 11 ins. Illustrated. A valuable work on an important item of equipment.

FIREPLACE CONSTRUCTION

- H. W. Covert Company,** 243 East 44th Street, New York, N. Y.
Covert Fireplace Construction. Booklet, 12 pp., 8½ x 11 ins. Illustrated. Valuable data on an important topic.

FIREPROOFING

- Concrete Engineering Co.,** Omaha, Neb.
Handbook of Fireproof Construction. Booklet, 54 pp., 8½ x 11 ins. Valuable work on methods of fireproofing.
- Concrete Steel Company,** 42 Broadway, New York.
Economical Fireproof Floors for Suburban Buildings. Folder. 4 pp., 8½ x 11 ins. Illustrated.
- North Western Expanded Metal Co.,** 407 South Dearborn Street, Chicago, Ill.
A. I. A. Sample Book. Bound volume, 8½ x 11 ins. Contains actual samples of several materials and complete data regarding their use.

FLOOR HARDENERS (CHEMICAL)

- Master Builders Co.,** Cleveland, Ohio.
Concrete Floor Treatment. File, 50 pp. Data on securing hardened dustproof concrete.
Concrete Floor Treatments—Specification Manual. Booklet, 24 pp., 8½ x 11 ins. Illustrated. Valuable work on an important subject.
- Minwax Company,** 11 West 42nd Street, New York, N. Y.
Concrete Floor Treatments. Folder, 4 pp., 8½ x 11 ins. Illustrated.
- Sonneborn Sons, Inc.,** L., 116 Fifth Ave., New York, N. Y.
Lapidolith, the liquid chemical hardener. Complete sets of specifications for every building type in which concrete floors are used, with descriptions and results of tests.
- Toch Brothers,** New York, Chicago, Los Angeles.
Handbook of R. I. W. Protective Products. Booklet, 40 pp., 4½ x 7½ ins.

FLOORS—STRUCTURAL

- Concrete Steel Company,** 42 Broadway, New York.
Structural Economies for Concrete Floors and Roofs. Brochure, 32 pp., 8½ x 11 ins. Illustrated.
- Truscon Steel Co.,** Youngstown, Ohio.
Truscon Floretype Construction. Booklet, 8½ x 11 ins., 16 pp. Illustrations of actual jobs under construction. Lists of properties and information on proper construction. Proper method of handling and tables of safe loads.
- Structural Gypsum Corporation,** Linden, N. J.
Gypsteel Pre-cast Fireproof Floors. Booklet, 36 pp., 8½ x 11 ins. Illustrated. Data on flooring.

FLOORING

- Armstrong Cork Co. (Linoleum Division),** Lancaster, Pa.
Armstrong's Linoleum Floors. Catalog, 8½ x 11 ins., 44 pp. Color plates. A technical treatise on linoleum, including table of gauges and weights and specifications for installing linoleum floors. Newly revised, February, 1929.
Armstrong's Linoleum Pattern Book, 1929. Catalog, 9 x 12 ins., 44 pp. Color plates. Reproduction in color of all patterns of linoleum and cork carpet in the Armstrong line.
Linoleum Layer's Handbook. 5 x 7 ins., 36 pp. Instructions for linoleum layers and others interested in learning most satisfactory methods of laying and taking care of linoleum.
Enduring Floors of Good Taste. Booklet, 6 x 9 ins., 48 pp. Illustrated in color. Explains use of linoleum for offices, stores, etc., with reproductions in color of suitable patterns, also specifications and instructions for laying.

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SELECTED LIST OF MANUFACTURERS' PUBLICATIONS — Continued from page 88

FLOORING—Continued

- Blabon Company, Geo. W.,** Nicetown, Philadelphia, Pa.
Planning the Color Schemes for Your Home. Brochure, illustrated in color; 36 pp., 7½ x 10½ ins. Gives excellent suggestions for use of color in flooring for houses and apartments. Handy Quality Sample Folder of Linoleums. Gives actual samples of "Battleship Linoleum," cork carpet, "Feltex," etc.
Blabon's Linoleum. Booklet, illustrated in color; 128 pp., 3½ x 8½ ins. Gives patterns of a large number of linoleums.
Blabon's Plain Linoleum and Cork Carpet. Gives quality samples, 3 x 6 ins. of various types of floor coverings.
- Carter Bloxonend Flooring Co.,** Keith & Perry Bldg., Kansas City, Missouri.
Bloxonend Flooring. Booklet, 3¼ x 6¼ ins., 20 pp. Illustrated. Describes uses and adaptability of Bloxonend Flooring to concrete, wood or steel construction, and advantages over loose wood blocks.
File Folder. 9¾ x 11¾ ins. For use in connection with A. I. A. system of filing. Contains detailed information on Bloxonend Flooring in condensed loose-leaf form for specification writer and drafting room. Literature embodied in folder includes standard Specification Sheet covering the use of Bloxonend in general industrial service and Supplementary Specification Sheet No. 1, which gives detailed description and explanation of an approved method for installing Bloxonend in gymnasiums, armories, drill rooms and similar locations where maximum resiliency is required.
- Cellized Oak Flooring,** Memphis, Tenn.
Style in Oak Floors. Booklet, 16 pp., 6 x 9 ins. Illustrated.
- Congoleum-Nairn, Inc.,** 195 Belgrove Drive, Kearny, N. J.
Facts you should know about Resilient Floors. A series of booklets on floors for (1) schools, (2) hospitals, (3) offices, (4) stores, (5) libraries, (6) churches, (7) Clubs and Lodges, (8) apartments and hotels. Illustrated.
Specifications for Resilient Floors. Booklet, 12 pp. A reprint from Sweet's.
A New Kind of Floor Service. Brochure, 8 pp. Data on Bonded Floors.
Sealex Battleship Linoleum. Booklet, 12 pp. Illustrated. Shows typical installations.
Sealex Treadlite Tiles. Two booklets, 8 and 16 pp. Illustrated.
Colonial Planks. Brochure, 8 pp. Illustrated.
- Thomas Moulding Floor Co.,** 165 W. Wacker Drive, Chicago, Ill.
Better Floors. Folder, 4 pp., 11¼ x 13¾ ins. Illustrated. Floors for office, administration and municipal buildings.
Better School Floors. Folder, 4 pp., 11¼ x 13¾ ins. Illustrated. Characteristics, Specifications and Uses. Brochure, 16 pp., 11¼ x 13¾ ins. Illustrated. Data on floors.
- C. Pardee Works,** 9 East 45th St., New York, N. Y., and 1600 Walnut St., Philadelphia, Pa.
Pardee Tiles. Bound Volume, 48 pp., 8½ x 11 ins. Illustrated.
- Structural Gypsum Corporation,** Linden, N. J.
Gypsteel Pre-cast Fireproof Floors. Booklet, 36 pp., 8½ x 11 ins. Illustrated. Data on floorings.
- U. S. Gypsum Co.,** Chicago.
Pyrobar Floor Tile. Folder, 8½ x 11 ins. Illustrated. Data on building floors of hollow tile and tables on floor loading.
- U. S. Rubber Co.,** 1790 Broadway, New York, N. Y.
Period Adaptations for Modern Floors. Brochure, 8 x 11 ins., 60 pp. Richly Illustrated. A valuable work on the use of rubber tile for flooring in interiors of different historic styles.

FURNITURE

- American Seating Co.,** 14 E. Jackson Blvd., Chicago, Ill.
Art Ecclesiastical Booklet, 6 x 9 ins., 48 pp. Illustrations of church fittings in carved wood.
Theatre Chairs. Booklet, 6 x 9 ins., 48 pp. Illustrations of theatre chairs.
- Kittinger Co.,** 1893 Elmwood Ave., Buffalo, N. Y.
Kittinger Club & Hotel Furniture. Booklet, 20 pp., 6¼ x 9½ ins. Illustrated. Deals with fine line of furniture for hotels, clubs, institutions, schools, etc.
Kittinger Club and Hotel Furniture. Booklet, 20 pp., 6 x 9 ins. Illustrated. Data on furniture for hotels and clubs.
A Catalog of Kittinger Furniture. Booklet, 78 pp., 11 x 14 ins. Illustrated. General Catalog.
- McKinney Mfg. Co.,** Pittsburgh, Pa.
Forethought Furniture Plans. Sheets, 6¼ x 9 ins., drawn to ¼-inch scale. An ingenious device for determining furniture arrangement.

GLASS CONSTRUCTION

- Adamson Flat Glass Co.,** Clarksburg, W. Va.
Quality and Dependability. Folder, 2 pp., 8½ x 11 ins. Illustrated. Data in the company's product.
- Libbey-Owens Sheet Glass Co.,** Toledo, Ohio.
Flat Glass. Brochure, 12 pp., 5½ x 7½ ins. Illustrated. History of manufacture of flat, clear, sheet glass.

GREENHOUSES

- King Construction Company,** North Tonawanda, N. Y.
King Greenhouses for Home or Estate. Portfolio of half-tone prints, varnishes, 8¼ x 10½ ins.

GREENHOUSES—Continued

- William H. Lutton Company,** 267 Kearney Ave., Jersey City, N. J.
Greenhouses of Quality. Booklet, 50 pp., 8½ x 11 ins. Illustrated. Conservatories making use of Lutton Patented Galvanized Steel V-Bar.

HARDWARE

- P. & F. Corbin,** New Britain, Conn.
Early English and Colonial Hardware. Brochure, 8½ x 11 ins. An important illustrated work on this type of hardware.
Locks and Builders' Hardware. Bound Volume, 486 pp., 8½ x 11 ins. An exhaustive, splendidly prepared volume.
Colonial and Early English Hardware. Booklet, 48 pp., 8½ x 11 ins. Illustrated. Data on hardware for houses in these styles.
- Cutler Mail Chute Company,** Rochester, N. Y.
Cutler Mail Chute Model F. Booklet, 4 x 9¼ ins., 8 pp. Illustrated.
- Richards-Wilcox Mfg. Co.,** Aurora, Ill.
Distinctive Garage Door Hardware. Booklet, 8½ x 11 ins., 66 pp. Illustrated. Complete information accompanied by data and illustrations on different kinds of garage door hardware.
Distinctive Elevator Door Hardware. Booklet, 90 pp., 10½ x 16 ins. Illustrated.
- Russell & Erwin Mfg. Co.,** New Britain, Conn.
Hardware for the Home. Booklet, 24 pp., 3½ x 6 ins. Deals with residence hardware.
Door Closer Booklet. Brochure, 16 pp., 3½ x 6 ins. Data on a valuable detail.
Garage Hardware. Booklet, 12 pp., 3½ x 6 ins. Hardware intended for garage use.
Famous Homes of New England. Series of folders on old homes and hardware in style of each.

HEATING EQUIPMENT

- American Blower Co.,** 6004 Russell St., Detroit, Mich.
Heating and Ventilating Utilities. A binder containing a large number of valuable publications, each 8½ x 11 ins., on these important subjects.
- American Radiator Company, The,** 40 West 40th St., N. Y. C.
Ideal Boilers for Oil Burning. Catalog 5½ x 8½ ins., 36 pp. Illustrated in 4 colors. Describing a line of Heating Boilers especially adapted to use with Oil Burners.
Corto—The Radiator Classic. Brochure, 5½ x 8½ ins., 16 pp. Illustrated. A brochure on a space-saving radiator of beauty and high efficiency.
Ideal Arcola Radiator Warmth. Brochure, 6¼ x 9¼ ins. Illustrated. Describes a central all-on-one-floor heating plant with radiators for small residences, stores, and offices.
How Shall I Heat My Home? Brochure, 16 pp., 5¼ x 8½ ins. Illustrated. Full data on heating and hot water supply.
New American Radiator Products. Booklet, 44 pp., 5 x 7¾ ins. Illustrated. Complete line of heating products.
A New Heating Problem. Brilliantly Solved. Broadside, 4 pp., 10¼ x 15 ins. Illustrated. Data on the IN-AIRID invisible air valve.
In-Airid, the Invisible Air Valve. Folder, 8 pp., 3½ x 6 ins. Illustrated. Data on a valuable detail of heating.
The 999 ARCO Packless Radiator Valve. Folder, 8 pp., 3½ x 6 ins. Illustrated.
- James B. Clow & Sons,** 534 S. Franklin St., Chicago, Ill.
Clow Gasteam Vented Heating System. Brochure, 24 pp., 8½ x 11 ins. Illustrated. Deals with a valuable form of heating equipment for using gas.
- C. A. Dunham Company,** 450 East Ohio St., Chicago, Ill.
Dunham Radiator Trap. Bulletin 101, 8 x 11 ins., 12 pp. Illustrated. Explains working of this detail of heating apparatus.
Dunham Packless Radiator Valves. Bulletin 104, 8 x 11 ins., 8 pp. Illustrated. A valuable brochure on valves.
Dunham Return Heating System. Bulletin 109, 8 x 11 ins. Illustrated. Covers the use of heating apparatus of this kind.
Dunham Vacuum Heating System. Bulletin 110, 8 x 11 ins., 12 pp. Illustrated.
The Dunham Differential Vacuum Heating System. Bulletin 114. Brochure, 12 pp., 8 x 11 ins. Illustrated. Deals with heating for small buildings.
The Dunham Differential Vacuum Heating System. Bulletin 115. Brochure, 12 pp., 8 x 11 ins. Illustrated. Deals with heating for large buildings.
- The Fulton Slyphon Company,** Knoxville, Tenn.
Slyphon Temperature Regulators. Illustrated brochures, 8½ x 11 ins., dealing with general architectural and industrial applications; also specifically with applications of special instruments. Slyphon Heating Specialties. Catalog No. 200, 192 pp., 3½ x 6¼ ins. Important data on heating.
- Hoffman Specialty Company, Inc.,** 25 West 45th St., New York, N. Y.
Heat Controlled With the Touch of a Finger. Booklet, 46 pp., 5¼ x 8¼ ins. Illustrated.
How to Lock Out Air, the Heat Thief. Brochure, 48 pp., 5 x 7¼ ins. Illustrated.
- Janette Manufacturing Company,** 556 West Monroe Street, Chicago.
More Heat from Any Hot Water System on Less Fuel. Folder. 4 pp., 8½ x 11 ins. Illustrated. Deals with use of the "Hydro-lator."

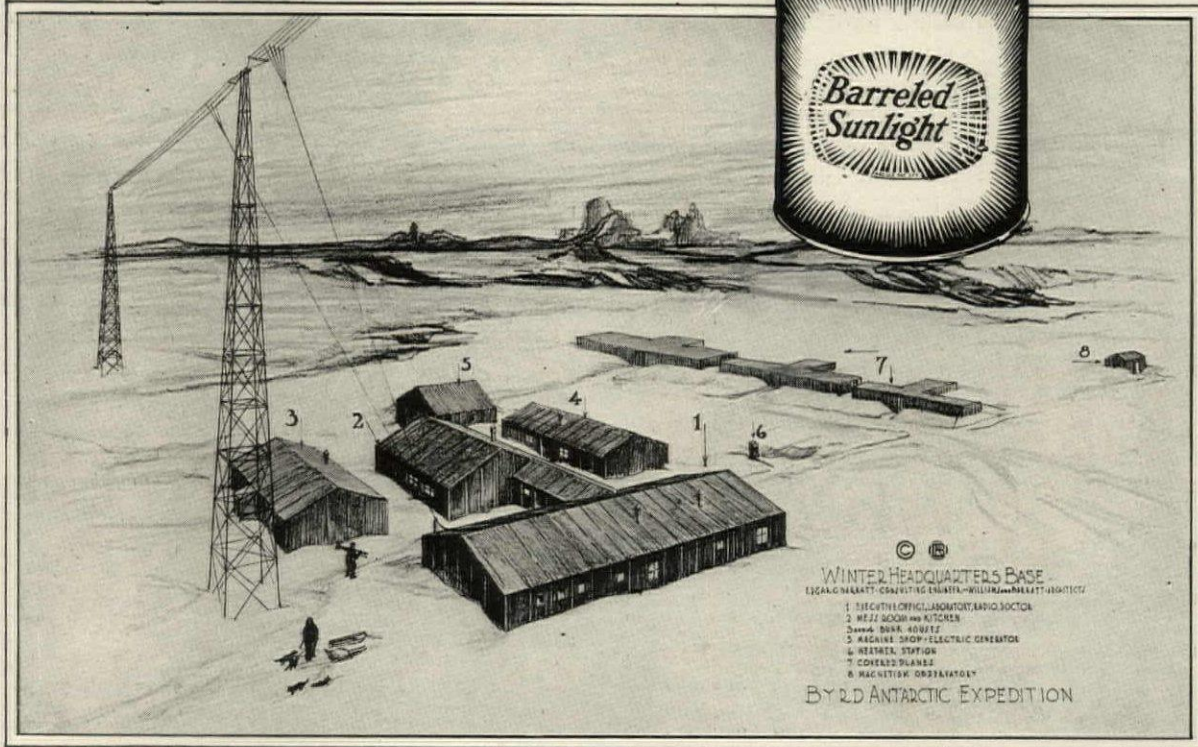
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SELECTED LIST OF MANUFACTURERS' PUBLICATIONS — *Continued from page 90*

HEATING EQUIPMENT—Continued

- S. T. Johnson Co.**, Oakland, Calif.
Johnson Oil Burners. Booklet, 9 pp., 8½ x 11 ins. Illustrated.
Bulletin No. 4A. Brochure, 8 pp., 8½ x 11 ins. Illustrated.
Data on different kinds of oil-burning apparatus.
Bulletin No. 31. Brochure, 8 pp., 8½ x 11 ins. Illustrated.
Deals with Johnson Rotary Burner with Full Automatic Control.
- Kewanee Boiler Corporation**, Kewanee, Ill.
Kewanee on the Job. Catalog, 8½ x 11 ins., 80 pp. Illustrated.
Showing installations of Kewanee boilers, water heaters, radiators, etc.
Catalog No. 78, 6 x 9 ins. Illustrated. Describes Kewanee Fire-box Boilers with specifications and setting plans.
Catalog No. 79, 6 x 9 ins. Illustrated. Describes Kewanee power boilers and smokeless tubular boilers with specifications.
- May Oil Burner Corp.**, Baltimore, Md.
Adventures in Comfort. Booklet, 24 pp., 6 x 9 ins. Illustrated.
Non-technical data on oil as fuel.
Taking the Quest Out of the Question. Brochure, 16 pp., 6 x 9 ins. Illustrated. For home owners interested in oil as fuel.
- McQuay Radiator Corporation**, 35 East Wacker Drive, Chicago, Ill.
McQuay Visible Type Cabinet Heater. Booklet, 4 pp., 8½ x 11 ins. Illustrated. Cabinets and radiators adaptable to decorative schemes.
McQuay Concealed Radiators. Brochure, 4 pp., 8½ x 11 ins. Illustrated.
McQuay Unit Heater. Booklet, 8 pp., 8½ x 11 ins. Illustrated. Gives specifications and radiator capacities.
- Modine Mfg. Co.**, Racine, Wis.
Modine Copper Radiation. Booklet, 28 pp., 8½ x 11 ins. Illustrated. Deals with industrial, commercial and domestic heating.
A Few Short Years. Folder, 4 pp., 8½ x 11 ins. Illustrated. Heating for garages.
Dairy Plant Heating. Folder, 4 pp., 8½ x 11 ins. Illustrated.
- Nash Engineering Company**, South Norwalk, Conn.
Bulletin 85. Booklet, 12 pp., 10¼ x 7½ ins. Illustrated in color. Describes construction and operation of the Jennings Return Line Vacuum Heating Pump.
Bulletin 87. Brochure, 8 pp., 10¼ x 7½ ins. Illustrated in color. Deals with Sizes T and U Jennings Vacuum Heating Pump for 2500 and 5000 square feet equivalent direct radiation.
Bulletin 63. Booklet, 4 pp., 10¼ x 7½ ins. Illustrated. Describes in detail the Unit Type Motor Driven Jennings Condensation Pump.
Bulletin 52. Brochure, 6 pp., 10¼ x 7½ ins. Illustrated in color. Devoted to Jennings Standard Centrifugal Pumps for house service, boosting city water pressure to supply top stories, for circulating warm water, etc.
- National Radiator Corporation**, Johnstown, Pa.
Aero Radiators; Beauty and Worth. Catalog 34. Booklet, 6 x 9 ins., 20 pp., describing and illustrating radiators and accessories.
Six Great Companies Unite to Form a Great Corporation. Booklet, 28 pp., 8½ x 10½ ins. Illustrated. Valuable data on heating.
- Prometheus Electric Corporation**, 360 West 13th St., New York.
Electric Heating Specialties. Booklet, 24 pages, 8½ x 11 ins. Illustrated. Specialties for heating, cooking, hospitals, organ lofts, etc.
- Sarco Company, Inc.**, 183 Madison Ave., New York City, N. Y.
Steam Heating Specialties. Booklet, 6 pp., 6 x 9 ins. Illustrated. Data on Sarco Packless Supply Valves and Radiator Traps for vacuum and vapor heating systems.
Equipment Steam Traps and Temperature Regulations. Booklet, 6 pp., 6 x 9 ins. Illustrated. Deals with Sarco Steam Traps for hospital, laundry and kitchen fixtures and the Sarco Self-contained Temperature Regulation for hot water service tanks.
- Spencer Heater Co.**, Williamsport, Pa.
Catalog. Booklet, 20 pp., 6½ x 9 ins. Illustrated. Complete line of magazine feed cast iron sectional and steel tubular heaters.
The Fire that Burns Uphill. Brochure, 24 pp., 6½ x 9¼ ins. Illustrated in color. Magazine feed heaters for steam, vapor and hot water heating.
- B. F. Sturtevant Company**, Hyde Park, Boston, Mass.
Tempervane Heating Units. Catalog 363. Booklet, 44 pp., 8½ x 11 ins. Illustrated. Data on "Heating Every Corner with Maximum Economy."
- Trane Co., The**, La Crosse, Wis.
Bulletin 14, 16 pp., 8½ x 10½ ins. Covers the complete line of Trane Heating Specialties, including Trane Bellows Traps, and Trane Bellows Packless Valves.
Bulletin 20. 24 pp., 8½ x 10½ ins. Explains in detail the operation and construction of Trane Condensation. Vacuum, Booster, Circulating, and similar pumps.
How to Cut Heating Costs. Booklet, 18 pp., 8½ x 11 ins. Illustrated.
- HOISTS, TELESCOPIC**
Gillis & Geoghegan, Inc. 535 West Broadway, New York.
G & G Telescopic Hoist. Booklet, 24 pp., 8½ x 11 ins. Illustrated complete data on hoists.
Ash Removal. Folder, 8½ x 11 ins. Illustrated. Hoists for removing ashes from basements.

HOSPITAL EQUIPMENT

- The Frink Co., Inc.**, 369 Lexington Ave., New York City.
Catalog 426. 7 x 10 ins., 16 pp. A booklet illustrated with photographs and drawings, showing the types of light for use in hospitals, as operating table reflectors, linolite and multilite concentrators, ward reflectors, bed lights and microscopic reflectors, giving sizes and dimensions, explaining their particular fitness for special uses.
- Holophane Company**, 342 Madison Avenue, New York.
Lighting Specific for Hospitals. Booklet, 30 pp., 8½ x 11 ins. Illustrated.
- The International Nickel Company**, 67 Wall St., New York, N. Y.
Hospital Applications of Monel Metal. Booklet, 8½ x 11½ ins., 16 pp. Illustrated. Gives types of equipment in which Monel Metal is used, reasons for its adoption, with sources of such equipment.
- Pick-Barth Company, Inc., Albert**, 1200 West 35th St., Chicago, and Cooper Square, New York.
Some Thoughts About Hospital Food Service Equipment. Booklet, 22 pp., 7½ x 9¼ ins. Valuable data on an important subject.
- Prometheus Electric Corporation**, 360 West 13th St., New York.
Electric Heating Specialties. Booklet, 24 pages, 8½ x 11 ins. Illustrated. Specialties for heating, cooking, hospitals, organ lofts, etc.
- HOTEL EQUIPMENT**
Pick-Barth Company, Inc., Albert, 1200 West 35th St., Chicago, and Cooper Square, New York.
Some Thoughts on Furnishing a Hotel. Booklet, 7½ x 9 ins. Data on complete outfitting of hotels.

INCINERATORS

- Home Incinerator Co.**, Milwaukee, Wis.
The Decent Way. Burn it with Gas. Brochure, 30 pp., 5¼ x 7¼ ins., inside. Illustrated. Incinerator sanitation equipment for residence use.
A. I. A. File, 12 pp., 8¼ x 10¼ ins., inside. Suggestions for architect on incineration, showing installation and equipment.
Specialized Home Comforts Service Plan Book. 40 pp., 8½ x 11 ins., inside. Illustrated. A complete outline of the many advantages of incineration.
Blue Star Standards in Home Building. 16 pp., 5½ x 8½ ins., inside. Illustrated. Explaining fully the Blue Star principles, covering heat, incineration, refrigeration, etc.
- Josam Mfg. Co.**, Michigan City, Ind.
Josam-Graver Incinerators. Folder, 4 pp., 8½ x 11 ins. Illustrated.
- Kerner Incinerator Company**, 715 E. Water St., Milwaukee, Wis.
Incinerators (Chimney-fed). Catalog No. 15 (Architect and Builders' Edition). Size 8½ x 11 ins., 16 pp. Illustrated. Describes principles and design of Kernerator Chimney-fed Incinerators for residences, apartments, hospitals, schools, apartment hotels, clubs and other buildings. Shows all standard models and gives general information and working data.
Sanitary Elimination of Household Waste. Booklet, 4 x 9 ins., 16 pp. Illustrated. Gives complete information on the Kernerator for residences.
Garbage and Waste Disposal for Apartment Buildings. Folder, 8½ x 11 ins., 16 pp. Illustrated. Describes principle and design of Kernerator Chimney-fed Incinerator for apartments and gives list of buildings where it has been installed.
Sanitary Disposal of Waste in Hospitals. Booklet, 4 x 9 ins., 12 pp. Illustrated. Shows how this necessary part of hospital service is taken care of with the Kernerator. Gives list of hospitals where installed.
The Kernerator (Chimney-fed) Booklet. Catalog No. 17, 20 pp., 8½ x 11 ins. Illustrated. Data on a valuable detail of equipment.

INSULATION

- Armstrong Cork & Insulation Co.**, Pittsburgh, Pa.
The Insulation of Roofs with Armstrong's Corkboard. Booklet. Illustrated. 7½ x 10½ ins., 32 pp. Discusses means of insulating roofs of manufacturing or commercial structures.
Insulation of Roofs to Prevent Condensation. Illustrated booklet, 7½ x 10½ ins., 36 pp. Gives full data on valuable line of roof insulation.
Filing Folder for Pipe Covering Data. Made in accordance with A. I. A. rules.
The Cork-lined House Makes a Comfortable Home. 5 x 7 ins., 32 pp. Illustrated.
Armstrong's Corkboard. Insulation for Walls and Roofs of Buildings. Booklet, 66 pp., 9½ x 11¾ ins. Illustrates and describes use of insulation for structural purposes.
- Cabot, Inc., Samuel**, Boston, Mass.
Cabot's Insulating Quilt. Booklet, 7½ x 10½ ins., 24 pp. Illustrated. Deals with a valuable type of insulation.
- Structural Gypsum Corporation**, Linden, N. J.
Heat Insulation Value of Gypsteel. Folder, 4 pp., 8½ x 11 ins. Brochure, by Charles L. Norton, of M. I. T.

JOISTS

- Bates Expanded Steel Truss Co.**, East Chicago, Ind.
Catalog No. 4. Booklet, 32 pp., 8½ x 11 ins. Illustrated. Gives details of truss construction with loading tables and specifications.

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SELECTED LIST OF MANUFACTURERS' PUBLICATIONS — Continued from page 92

JOISTS—Continued

- Concrete Steel Company**, 42 Broadway, New York, N. Y.
Structural Economics for Concrete Floors and Roofs. Booklet, 32 pp., 8½ x 11 ins. Illustrated.
- Modern Concrete Reinforcement**. Brochure, 32 pp., 8½ x 11 ins. Illustrated.
- Construction Details for Installing Havemeyer Trusses. Data sheets, 8½ x 11 ins. Illustrated.
- Standard Practice for Placing Havemeyer Reinforcement in Columns, Beams and Slabs. Data sheets, 8½ x 11 ins. Illustrated.

KITCHEN EQUIPMENT

- The International Nickel Company**, 67 Wall St., New York, N. Y.
Hotels, Restaurants and Cafeteria Applications of Monel Metal. Booklet, 8½ x 11 ins., 32 pp. Illustrated. Gives types of equipment in which Monel Metal is used, with service data and sources of equipment.
- Pick-Barth Company, Inc., Albert**, 1200 West 35th St., Chicago, and Cooper Square, New York.
School Cafeteria. Booklet, 6 x 9 ins. Illustrated. The design and equipment of school cafeterias with photographs of installation and plans for standardized outfits.
- Prometheus Electric Corporation**, 360 West 13th St., New York.
Electric Heating Specialties. Booklet, 24 pages, 8½ x 11 ins. Illustrated. Specialties for heating, cooking, hospitals, organ lofts, etc.

LABORATORY EQUIPMENT

- Alberene Stone Co.**, 153 West 23rd Street, New York City.
Booklet, 8¾ x 11¼ ins., 26 pp. Stone for laboratory equipment, shower partitions, stair treads, etc.
- Duriron Company**, Dayton, Ohio.
Duriron Acid, Alkali and Rust-proof Drain Pipe and Fittings. Booklet, 8½ x 11 ins., 20 pp. Full details regarding a valuable form of piping.

LANTERNS

- Todhunter, Arthur**, 119 E. 57th St., New York, N. Y.
Hand-wrought Lanterns. Booklet, 5¾ x 6¼ ins., 20 pp. Illustrated in black and white. With price list. Lanterns appropriate for exterior and interior use, designed from old models and meeting the requirements of modern lighting.

LATH, METAL AND REINFORCING

- Milwaukee Corrugating Co.**, Milwaukee.
The Milcor Manual. Booklet, 96 pp., 8½ x 11 ins. Illustrated. Data on metal lath and similar materials.
- Milcor Metal Ceiling Catalog**. Booklet, 288 pp., 8½ x 11 ins. Illustrated. Data on metal ceiling and wall construction.
- National Steel Fabric Co.**, Pittsburgh, Pa.
Better Walls for Better Homes. Brochure, 16 pp., 7¾ x 11¼ ins. Illustrated. Metal lath, particularly for residences.
- Steelex for Floors**. Booklet, 24 pp., 8½ x 11 ins. Illustrated. Combined reinforcing and form for concrete or gypsum floors and roofs.
- Steelex Data Sheet No. 1**. Folder, 8 pp., 8½ x 11 ins. Illustrated. Steelex for floors on steel joists with round top chords.
- Steelex Data Sheet No. 2**. Folder, 8 pp., 8½ x 11 ins. Illustrated. Steelex for floors on steel joists with flat top flanges.
- Steelex Data Sheet No. 3**. Folder, 8 pp., 8½ x 11 ins. Illustrated. Steelex for folders on wood joists.
- North Western Expanded Metal Co.**, 1234 Old Colony Building, Chicago, Ill.
North Western Expanded Metal Products. Booklet, 8½ x 10¾ ins., 20 pp. Fully illustrated, and describes different products of this company, such as Kno-burn metal lath, 20th Century Corrugated, Plasta-saver and longspan lath channels, etc.
- Longspan ¾-inch Rib Lath**. Folder, 4 pp., 8½ x 11 ins. Illustrated. Deals with a new type of V-Rib expanded metal.
- A. I. A. Sample Book**. Bound volume, 8½ x 11 ins. Contains actual samples of several materials and complete data regarding their use.
- Norwest Metal Lath**. Folder, 8½ x 11 ins. Illustrated. Data on Flat Rib Lath.
- Truscon Steel Company**, Youngstown, Ohio.
Truscon ¾-inch Hy-Rib for Roofs, Floors and Walls. Booklet, 8½ x 11 ins., illustrating Truscon ¾-inch Hy-Rib as used in industrial buildings. Plates of typical construction. Progressive steps of construction. Specification and load tables.

LAUNDRY MACHINERY

- American Laundry Machinery Co.**, Norwood Station, Cincinnati, O.
Functions of the Hotel and Hospital Laundry. Brochure, 8 pp., 8½ x 11 ins. Valuable data regarding an important subject.
- Troy Laundry Machinery Co., Inc.**, 9 Park Place, New York City.
Laundry Machinery for Large Institutions. Loose-leaf booklet, 50 pp., 8½ x 11 ins. Illustrated.
- Laundry Machinery for Small Institutions. Loose-leaf brochure, 50 pp., 8½ x 11 ins. Illustrated.
- Accessory Equipment for Institutional Laundries. Leather bound book, 50 pp., 8½ x 11 ins. Illustrated.
- Dry Cleaning Equipment for Institutional Purposes. Brochure, 50 pp., 8½ x 11 ins. Illustrated.

LIGHTING EQUIPMENT

- The Frink Co., Inc.**, 369 Lexington Ave., New York, N. Y.
Catalog 415, 8½ x 11 ins., 46 pp. Photographs and scaled cross-sections. Specialized bank lighting, screen and partition reflectors, double and single desk reflectors and Polaralite Signs.
- Holophane Company, Inc.**, 342 Madison Ave., New York, N. Y.
The Lighting of Schools: A Guide to Good Practice. Booklet, 24 pp., 8½ x 11 ins. Illustrated.
- Lighting Specifications for Hospitals. Brochure, 30 pp., 8½ x 11 ins. Illustrated.
- Industrial Lighting**. Bulletin 448A. Booklet, 24 pp., 8½ x 11 ins. Illustrated.
- Holophane Catalog**. Booklet, 48 pp., 8½ x 11 ins. Combination catalog and engineering data book.
- The Lighting of Schools**. A Guide to Good Practice. Booklet, 24 pp., 8½ x 11 ins. Illustrated.
- Smyser-Royer Co.**, 1700 Walnut Street, Philadelphia, Pa.
Catalog "J" on Exterior Lighting Fixtures. Brochure, illustrated, giving data on over 300 designs of standards, lanterns and brackets of bronze or cast iron.
- Todhunter**, 119 East 57th St., New York, N. Y.
Lighting Fixtures, Lamps and Candlesticks. 24 pp., 8½ x 11 ins. Illustrated. Fine assortment of lighting accessories.
- Westinghouse Electric & Manufacturing Co.**, East Pittsburgh, Pa.
Industrial Lighting Equipment. Booklet, 32 pp., 8½ x 11 ins. Illustrated.
- Commercial Lighting. Brochure, 24 pp., 8½ x 11 ins. Illustrated.
- Airport and Floodlighting Equipment. Booklet, 20 pp., 8½ x 11 ins. Illustrated.

LUMBER

- National Lumber Mfrs. Assn.**, Washington, D. C.
Use of Lumber on the Farm. Booklet, 38 pp., 8½ x 11 ins. Illustrated.

MAIL CHUTES

- Cutler Mail Chute Company**, Rochester, N. Y.
Cutler Mail Chute Model F. Booklet, 4 x 9¼ ins., 8 pp. Illustrated.

MANTELS

- Henry Klein & Co., Inc.** 40-46 West 23rd Street, New York.
Driwood Mantels. Booklet, 12 pp., 8½ x 11 ins. Illustrated. Fine line of eighteenth century English and American mantels.
- Arthur Todhunter**, 119 E. 57th St., New York, N. Y.
Georgian Mantels. New booklet, 24 pp., 5¾ x 6¼ ins. A fully illustrated brochure on eighteenth century mantels. Folders give prices of mantels and illustrations and prices of fireplace equipment.

MARBLE

- The Georgia Marble Company**, Tate, Ga.; New York Office, 1328 Broadway.
Why Georgia Marble Is Better. Booklet, 3¾ x 6 ins. Gives analysis, physical qualities, comparison of absorption with granite, opinions of authorities, etc.
- Convincing Proof. 3¾ x 6 ins., 8 pp. Classified list of buildings and memorials in which Georgia Marble has been used, with names of Architects and Sculptors.
- Hurt Building, Atlanta; Senior High School and Junior College, Muskegon, Mich. Folders, 4 pp., 8½ x 11 ins. Details.

METALS

- Aluminum Company of America**, Pittsburgh.
Architectural Aluminum. Brochure, 30 pp., 8½ x 11 ins. Illustrated. An excellent booklet on the subject.
- Central Alloy Steel Corporation**, Massillon, Ohio.
Sheet Iron Primer. Booklet, 64 pp., 5¼ x 7¾ ins. Illustrated.
- The Path to Permanence. Brochure, 52 pp., 8½ x 11 ins. Illustrated. Data on sheet iron.
- The International Nickel Company**, 67 Wall St., New York, N. Y.
Monel Metal Primer. 8 folders, 4 pp., 8½ x 11 ins. Illustrated. Valuable data on use of monel in kitchens, laundries, etc.

MILL WORK—See also Wood

- Curtis Companies Service Bureau**, Clinton, Iowa.
Architectural Interior and Exterior Woodwork. Standardized Book, 9 x 11½ ins., 240 pp. Illustrated. This is an Architects' Edition of the complete catalog of Curtis Woodwork, as designed by Trowbridge & Ackerman. Contains many color plates.
- Better Built Homes. Vols. XV-XVIII, incl. Booklet, 9 x 12 ins., 40 pp. Illustrated. Designs for houses of five to eight rooms, respectively, in several authentic types, by Trowbridge & Ackerman, architects for the Curtis Companies.
- Curtis Details. Booklet, 19¾ x 23¾ ins., 20 pp. Illustrated. Complete details of all items of Curtis woodwork, for the use of architects.
- Curtis Cabinet and Stair Work. Booklet, 48 pp., 7¾ x 10½ ins. Illustrated.

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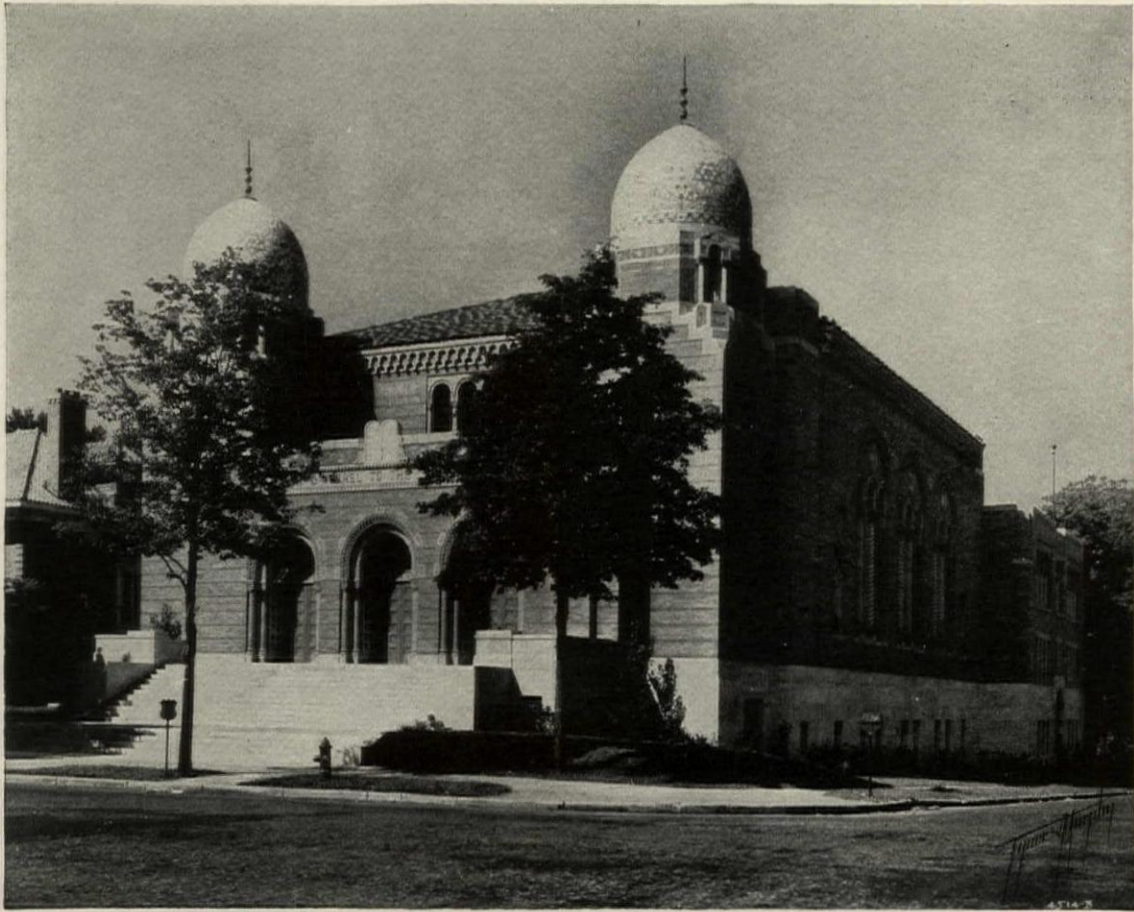
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SELECTED LIST OF MANUFACTURERS' PUBLICATIONS — Continued from page 94

MILL WORK—See also Wood—Continued

Curtis Windows. Brochure, 7¼ x 10½ ins. Illustrated.
Curtis Interior Doors. Booklet, 7¼ x 10½ ins. Illustrated.
Curtis Entrances and Exterior Doors. Brochure, 7¼ x 10½ ins. Illustrated.

Hartmann-Sanders Company, 2155 Elston Ave., Chicago, Ill.
Column Catalog, 7½ x 10 ins., 48 pp. Illustrated. Contains prices on columns 6 to 36 ins. diameter, various designs and illustrations of columns and installations.

The Pergola Catalog, 7½ x 10 ins., 64 pp. Illustrated. Contains illustrations of pergola lattices, garden furniture in wood and cement, garden accessories.

Klein & Co., Inc., Henry, 11 East 37th St., New York, N. Y.
Two Drivewood Interiors. Folder, 4 pp., 6¼ x 9 ins. Illustrated. Use of moulding for paneling walls.

A New Style in Interior Decoration. Folder, 4 pp., 6¼ x 9 ins. Illustrated. Deals with interior woodwork.

Drivewood Period Mouldings in Ornamented Wood. Booklet, 28 pp., 8½ x 11 ins. Illustrated.

How Drivewood Period Mouldings in Ornamented Wood Set a New Style in Decoration. Folder.

Roddis Lumber and Veneer Co., Marshfield, Wis.
Roddis Doors. Brochure, 24 pp., 5¼ x 8½ ins. Illustrated price list of doors for various types of buildings.

Roddis Doors, Catalog G. Booklet, 184 pp., 8½ x 11 ins. Completely covers the subject of doors for interior use.

Roddis Doors for Hospitals. Brochure, 16 pp., 8½ x 11 ins. Illustrated work on hospital doors.

Roddis Doors for Hotels. Brochure, 16 pp., 8½ x 11 ins. Illustrated work on doors for hotel and apartment buildings.

MORTAR AND CEMENT COLORS

Clinton Metallic Paint Co., Clinton, N. Y.
Clinton Mortar Colors. Folder, 8½ x 11 ins., 4 pp. Illustrated in colors, gives full information concerning Clinton Mortar Colors with specific instructions for using them.

Color Card. 3¼ x 6½ ins. Illustrates in color the ten shades in which Clinton Mortar Colors are manufactured.

Something New in Stucco. Folder, 3½ x 6 ins. An interesting folder on the use of coloring matter for stucco coated walls.

ORNAMENTAL PLASTER

Jacobson & Co., 241 East 44th St., New York, N. Y.
A Book of Old English Designs. Brochure, 47 plates, 12 x 9 ins. Deals with a fine line of decorative plaster work.

Architectural and Decorative Ornaments. Cloth bound volume, 184 pp., 9 x 12 ins., 18 plates. Price, \$3.00. A general catalog of fine plaster ornaments.

Geometrical ceilings. Booklet, 23 plates, 7 x 9 ins. An important work on decorative plaster ceilings.

PAINTS, STAINS, VARNISHES AND WOOD FINISHES

Minwax Company, Inc., 11 West 42nd St., New York.
Color Card and Specifications for Minwax Brick and Cement Coating. Folder, 4 pp., 8½ x 11 ins. Illustrated.

National Lead Company, 111 Broadway, New York, N. Y.
Handy Book on Painting. Book, 5½ x 3¼ ins., 100 pp. Gives directions and formulae for painting various surfaces of wood, plaster, metals, etc., both interior and exterior.

Red Lead in Paste Form. Booklet, 6¼ x 3½ ins., 16 pp. Illustrated. Directions and formulae for painting metals.

Came Lead. Booklet, 6 x 8¼ ins., 12 pp. Illustrated. Describes various styles of lead comes.

Pratt & Lambert, Inc., Buffalo, N. Y.
Specification Manual for Paint, Varnishing and Enameling. Booklet, 38 pp., 7½ x 10½ ins. Complete specifications for painting, varnishing and enameling interior and exterior wood, plaster, and metal work.

Sherwin-Williams Company, 601 Canal Rd., Cleveland, Ohio.
Painting Concrete and Stucco Surfaces. Bulletin No. 1. 8½ x 11 ins., 8 pp. Illustrated. A complete treatise with complete specifications on the subject of Painting of Concrete and Stucco Surfaces. Color chips of paint shown in bulletin.

Enamel Finish for Interior and Exterior Surfaces. Bulletin No. 2. 8½ x 11 ins., 12 pp. Illustrated. Thorough discussion, including complete specifications for securing the most satisfactory enamel finish on interior and exterior walls and trim.

Painting and Decorating of Interior Walls. Bulletin No. 3. 8½ x 11 ins., 20 pp. Illustrated. An excellent reference book on Flat Wall Finish, including texture effects, which are taking the country by storm. Every architect should have one on file.

Protective Paints for Metal Surfaces. Bulletin No. 4. 8½ x 11 ins., 12 pp. Illustrated. A highly technical subject treated in a simple, understandable manner.

Sonneborn Sons, Inc., L., Dept. 4, 116 Fifth Ave., New York, N. Y.
Paint Specifications. Booklet, 8½ x 10¼ ins., 4 pp.

Toch Brothers, New York, Chicago, Los Angeles.
Architects' Specification Data. Sheets in loose leaf binder, 8½ x 11 ins., dealing with an important line of materials.

U. S. Gutta Percha Paint Co., Providence, R. I.
Barreled Sunlight. Booklet, 8½ x 11 ins. Data on "Barreled Sunlight" with specifications for its use.

PAINTS, STAINS, VARNISHES AND WOOD FINISHES—Continued

Valentine & Co., 456 Fourth Ave., New York, N. Y.
How to Use Valspar. Illustrated booklet, 32 pp., 3¼ x 8 ins. Deals with domestic uses for Valspar.

How to Keep Your House Young. Illustrated brochure, 24 pp., 7 x 8½ ins. A useful work on the upkeep of residences.

Architectural Four-Hour Varnishes and Enamels. Booklet, 8 pp., 4¼ x 6 ins. Data on a useful line of materials.

PARCEL DELIVERY DEVICES

Receivador Sales Company, Grand Rapids, Mich.
Architects' Portfolio. Booklet, 12 pp., 8½ x 11 ins. Illustrated. Deals with delivery problems and their solution.

PARTITIONS

Circle A. Products Corporation, New Castle, Ind.
Circle A. Partitions Sectional and Movable. Brochure. Illustrated. 8½ x 11¼ ins., 32 pp. Full data regarding an important line of partitions, along with Erection Instructions for partitions of three different types.

Dahlstrom Metallic Door Company, Jamestown, N. Y.
Dahlstrom Standard Steel Partitions. Booklet, 24 pp., 8½ x 11 ins. Illustrated.

Hauserman Company, E. F., Cleveland, Ohio.
Hollow Steel Standard Partitions. Various folders, 8½ x 11 ins. Illustrated. Give full data on different types of steel partitions, together with details, elevations and specifications.

Improved Office Partition Company, 25 Grand St., Elmhurst, L. I.
Telesco Partition. Catalog, 8¼ x 11 ins., 14 pp. Illustrated. Shows typical offices laid out with Telesco partitions, cuts of finished partition units in various woods. Gives specifications and cuts of buildings using Telesco.

Detailed Instructions for Erecting Telesco Partitions. Booklet, 24 pp., 8½ x 11 ins. Illustrated. Complete instructions, with cuts and drawings, showing how easily Telesco Partition can be erected.

Richards-Wilcox Mfg. Co., Aurora, Ill.
Partitions. Booklet, 7 x 10 ins., 32 pp. Illustrated. Describes complete line of track and hangers for all styles of sliding parallel, accordion and flush-door partitions.

U. S. Gypsum Co., Chicago, Ill.
Pyrobar Partition and Furring Tile. Booklet, 8½ x 11 ins., 24 pp. Illustrated. Describes use and advantages of hollow tile for inner partitions.

PIPE

American Brass Company, Waterbury, Conn.
Bulletin B-1. Brass Pipe for Water Service. 8½ x 11 ins., 28 pp. Illustrated. Gives schedule of weights and sizes (I.P.S.) of seamless brass and copper pipe, shows typical installations of brass pipe, and gives general discussion of the corrosive effect of water on iron, steel and brass pipe.

American Rolling Mill Company, Middletown, Ohio.
How ARMCO Dredging Products Cut Costs. Booklet, 16 pp., 6 x 9 ins. Data on dredging pipe.

Clow & Sons, James B., 534 S. Franklin St., Chicago, Ill.
Catalog A. 4 x 16½ ins., 700 pp. Illustrated. Shows a full line of steam, gas and water works supplies.

Cohoes Rolling Mill Company, Cohoes, N. Y.
Cohoes Pipe Handbook. Booklet, 40 pp., 5 x 7½ ins. Data on wrought iron pipe.

Duriron Company, Dayton, Ohio.
Duriron Acid, Alkali, Rust-proof Drain Pipe and Fittings. Booklet, 20 pp., 8½ x 11 ins. Illustrated. Important data on a valuable line of pipe.

National Tube Co., Frick Building, Pittsburgh, Pa.
"National" Bulletin No. 2. Corrosion of Hot Water Pipe, 8½ x 11 ins., 24 pp. Illustrated. In this bulletin is summed up the most important research dealing with hot water systems. The text matter consists of seven investigations by authorities on this subject.

"National" Bulletin No. 3. The Protection of Pipe Against Internal Corrosion, 8½ x 11 ins., 20 pp. Illustrated. Discusses various causes of corrosion, and details are given of the deactivating and deaerating systems for eliminating or retarding corrosion in hot water supply lines.

"National" Bulletin No. 25. "National" Pipe in Large Buildings. 8½ x 11 ins., 88 pp. This bulletin contains 254 illustrations of prominent buildings of all types, containing "National" Pipe, and considerable engineering data of value to architects, engineers, etc.

Modern Welded Pipe. Book of 88 pp., 8½ x 11 ins., profusely illustrated with halftone and line engravings of the important operations in the manufacture of pipe.

PLASTER

Best Bros. Keene's Cement Co., Medicine Lodge, Kans.
Information Book. Brochure, 24 pp., 5 x 9 ins. Lists grades of plaster manufactured; gives specifications and uses for plaster.

Plasterers' Handbook. Booklet, 16 pp., 3¼ x 5½ ins. A small manual for use of plasterers.

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New York, 111 Broadway - Buffalo, 116 Oak Street - Chicago, 900 West 18th Street - Cincinnati, 659 Freeman Avenue - Cleveland, 820 West Superior Avenue - St. Louis, 722 Chestnut Street - San Francisco, 235 Montgomery Street - Boston, National-Boston Lead Co., 800 Albany Street - Pittsburgh, National Lead & Oil Co. of Pa., 316 Fourth Avenue - Philadelphia, John T. Lewis & Bros. Co., Widener Bldg.

DUTCH BOY WHITE-LEAD

SELECTED LIST OF MANUFACTURERS' PUBLICATIONS — Continued from page 96

PLASTER—Continued

Interior Walls Everlasting. Brochure, 20 pp., 6¼ x 9¼ ins. Illustrated. Describes origin of Keene's Cement and views of buildings in which it is used.

PLUMBING EQUIPMENT

Clow & Sons, James B., 534 S. Franklin St., Chicago, Ill.
Catalog M. 9¼ x 12 ins., 184 pp. Illustrated. Shows complete line of plumbing fixtures for Schools, Railroads and Industrial Plants.

Crane Company, 836 S. Michigan Ave., Chicago, Ill.
Plumbing Suggestions for Home Builders. Catalog, 3 x 6 ins., 80 pp. Illustrated.

Plumbing Suggestions for Industrial Plants. Catalog, 4 x 6½ ins., 34 pp. Illustrated.

Planning the Small Bathroom. Booklet, 5 x 8 ins. Discusses planning bathrooms of small dimensions.

John Douglas Co., Cincinnati, Ohio.
Douglas Plumbing Fixtures. Bound volume, 200 pp., 8½ x 11 ins. Illustrated. General catalog.

Another Douglas Achievement. Folder, 4 pp., 8½ x 11 ins. Illustrated. Data on new type of stall.

Hospital. Brochure, 60 pp., 8½ x 11 ins. Illustrated. Deals with fixtures for hospitals.

Duriron Company, Dayton, Ohio.
Duriron Acid, Alkali and Rust-Proof Drain Pipe and Fittings. Booklet, 8½ x 11 ins., 20 pp. Full details regarding a valuable form of piping.

Imperial Brass Mfg. Co., 1200 W. Harrison St., Chicago, Ill.
Watrous Patent Flush Valves, Duojet Water Closets, Liquid Soap Fixtures, etc. 8½ x 11 ins., 136 pp., loose-leaf catalog, showing roughing-in measurements, etc.

Maddock's Sons Company, Thomas, Trenton, N. J.
Catalog K. 7¾ x 10¾ ins., 242 pp. Illustrated. Complete data on vitreous china plumbing fixtures with brief history of Sanitary Pottery.

Speakman Company, Wilmington, Del.
Catalog K. Booklet, 150 pp., 8½ x 10¾ ins. Illustrated. Data on showers and equipment details.

Trenton Potteries Company, Trenton, N. J.
The Blue Book of Plumbing. Bound volume, 182 pp., 8½ x 10½ ins. Illustrated.

PNEUMATIC TUBE SYSTEMS

Gillis & Geoghegan, Inc., 535 West Broadway, New York.
G & G Atlas Systems. Booklet. 12 pp. 8½ x 11 ins. Illustrated. Tube systems for department stores.
Quickly and Efficiently Handling Sales Transactions. Folder. Illustrated. Plan of tube system for a department store.

PUMPS

Kewanee Private Utilities Co., 442 Franklin St., Kewanee, Ill.
Bulletin E. 7¾ x 10¼ ins., 32 pp. Illustrated. Catalog. Complete descriptions, with all necessary data, on Standard Service Pumps, Indian Brand Pneumatic Tanks, and Complete Water Systems, as installed by Kewanee Private Utilities Co.

The Trane Co., La Crosse, Wis.
Trane Small Centrifugal Pumps. Booklet, 3¼ x 8 ins., 16 pp. Complete data on an important type of pump.

RADIO EQUIPMENT

Radio Corporation of America, Woolworth Building, New York City, N. Y.

R. C. A. Antenna Distribution System for Multiple Receivers. Booklet, 16 pp., 8½ x 11 ins. Illustrated. Apparatus for apartment houses and similar large buildings.

R. C. A. Centralized Radio Receiving Equipment. Brochure, 8 pp., 9 x 11 ins. Illustrated. Radio equipment for hotels, hospitals, etc.

RAMPS

Ramp Buildings Corporation, 21 East 40th St., New York, N. Y.
Building Garages for Profitable Operation. Booklet, 8½ x 11 ins. 16 pp. Illustrated. Discusses the need for modern mid-city, parking garages, and describes the d'Humy Motoramp system of design, on the basis of its superior space economy and features of operating convenience. Gives cost analyses of garages of different sizes, and calculates probable earnings.
Garage Design Data. Series of informal bulletins issued in loose-leaf form, with monthly supplements.

REFRIGERATION

The Fulton Syphon Company, Knoxville, Tenn.
Temperature Control of Refrigeration Systems. Booklet, 8 pp., 8½ x 11 ins. Illustrated. Deals with cold storage, chilling of water, etc.

North Western Expanded Metal Company, Chicago, Ill.
Designing Data. Book, 6 x 9 ins., 96 pp. Illustrated. Covers the use of Econo Expanded Metal for various types of reinforced concrete construction.

REINFORCED CONCRETE—See also Construction, Concrete

Longspan ¼-inch Rib Lath. Folder, 4 pp., 8½ x 11 ins. Illustrated. Deals with a new type of V-Rib expanded metal.

Truscon Steel Company, Youngstown, Ohio.
Shearing Stresses in Reinforced Concrete Beams. Booklet, 8½ x 11 ins., 12 pp.

RESTAURANT EQUIPMENT

John Van Range Company, Cincinnati.
Planning Restaurants That Make Money. Booklet, 78 pp., 8½ x 11 ins. Illustrated. Excellent work on equipment.

ROOFING

The Barrett Company, 40 Rector St., New York City.
Architects' and Engineers' Built-up Roofing Reference Series; Volume IV Roof Drainage System. Brochure, 64 pp., 8½ x 11¼ ins. Gives complete data and specifications for many details of roofing.

Federal Cement Tile Co., 608 S. Dearborn Street, Chicago.
Catalog and Roof Standards. Booklet, 36 pp., 8½ x 11 ins. Illustrated. Describes Featherweight Concrete Insulating Roof Slabs, including complete data, weights and dimensions, specifications and detail drawings. Also includes complete information on Featherweight Concrete Roof Slabs for use with ornamented slate or copper covering. The catalog is profusely illustrated and contains also a partial list of users.

Examples of Theaters and Theater Roofs. Brochure, 16 pps., 8½ x 11 ins., Illustrated. Contains views of theaters designed by some of the country's leading architects.

Heinz Roofing Tile Co., 1925 West Third Avenue, Denver, Colo.
Plymouth-Shingle Tile with Sprocket Hips. Leaflet, 8½ x 11 ins. Illustrated. Shows use of English shingle tile with special hips.

Italian Promenade Floor Tile. Folder, 2 pp., 8½ x 11 ins. Illustrated. Floor tiling adapted from that of Davanzati Palace.

Mission Tile. Leaflet, 8½ x 11 ins. Illustrated. Tile such as are used in Italy and Southern California.

Georgian Tile. Leaflet, 8½ x 11 ins. Illustrated. Tiling as used in old English and French farmhouses.

Johns-Manville Corporation, New York.
The New Book of Roofs. Brochure, 24 pp., 8½ x 11 ins. Illustrated. Roofing from the Architect's point of view.

Ludowici-Celadon Company, 104 So. Michigan Ave., Chicago, Ill.
"Ancient" Tapered Mission Tiles. Leaflet, 8½ x 11 ins., 4 pp. Illustrated. For architects who desire something out of the ordinary this leaflet has been prepared. Describes briefly the "Ancient" Tapered Mission Tiles, hand-made with full corners and designed to be applied with irregular exposures.

Milwaukee Corrugating Co., Milwaukee.
Milcor Architectural Sheet Metal Guide. Booklet. 72 pp., 8½ x 11 ins. Illustrated. Metal tile roofing, skylights, ventilators, etc.
Milcor Sheet Metal Handbook. Brochure. 128 pp., 8½ x 11 ins. Illustrated. Deals with rain-carrying equipment, etc.

Sheet Steel Trade Extension Committee, Terminal Tower, Cleveland.
This committee will send upon request full data published by its members on steel roof decks and specifications for their use.

Structural Gypsum Corporation, Linden, N. J.
Relative Effectiveness of Various Types of Roofing Construction in Preventing Condensation of the Under Surface. Folder, 4 pp., 8¾ x 11 ins. Important data on the subject.

Gypsteel Pre-cast Fireproof Roofs. Booklet, 48 pp., 8½ x 11 ins. Illustrated. Information regarding a valuable type of roofing.

U. S. Gypsum Co., Chicago, Ill.
Pyrobar Roof Construction. Booklet, 8 x 11 ins., 48 pp. Illustrated. Gives valuable data on the use of tile in roof construction.

Sheetrock Pyrofill Roof Construction. Folder, 8½ x 11 ins. Illustrated. Covers use of roof surfacing which is poured in place.

SEWAGE DISPOSAL

Kewanee Private Utilities, 442 Franklin St., Kewanee, Ill.
Specification Sheets. 7¾ x 10¼ ins., 40 pp. Illustrated. Detailed drawings and specifications covering water supply and sewage disposal systems.

Nash Engineering Company, South Norwalk, Conn.
Bulletin 97. Booklet. 16 pp. 10¾ x 7½ ins. Illustrated in color. Describes the design, construction and operation of the Jennings Suction Sump Pump.

Bulletin 11. Brochure. 8 pp. 10¾ x 7½ ins. Illustrated in color. Deals with Nash Hytor Vacuum Pumps for air and gases.

Bulletin 67. Booklet. 16 pp. 10¾ x 7½ ins. Illustrated in color. Describes Type A Jennings Sewage Ejector for handling Unscreened sewage and raising it from basements below sewer level.

Bulletin 103. Brochure. 16 pp. 10¾ x 7½ ins. Illustrated in color. Deals with small size Type B Jennings Sewage Ejector.

SCREENS

American Brass Co., The, Waterbury, Conn.
Facts for Architects About Screening. Illustrated folder, 9½ x 11¼ ins., giving actual samples of metal screen cloth and data on fly screens and screen doors.

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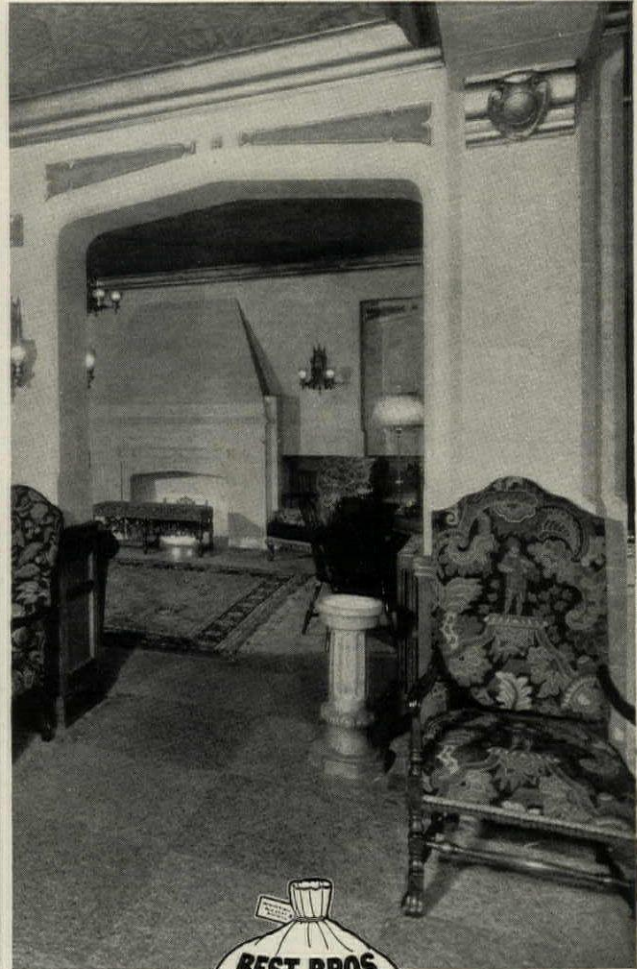
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SELECTED LIST OF MANUFACTURERS' PUBLICATIONS — Continued from page 98

SCREENS—Continued

- Athey Company**, 6015 West 65th St., Chicago, Ill.
The Athey Perennial Window Shade. An accordion pleated window shade, made from translucent Herringbone woven Coutil cloth, which raises from the bottom and lowers from the top. It eliminates awnings, affords ventilation, can be dry-cleaned and will wear indefinitely.
- Orange Screen Co.**, Maplewood, N. J.
Orsco Aluminum Screens. Booklet, 8 pp., 8 x 11 ins. Illustrated. Data on a valuable line of screens.
- Orsco Screens and Other Products. Brochure, 20 pp., 8 x 11 ins. Illustrated. Door and window screens and other hardware.

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- Columbia Mills, Inc.**, 225 Fifth Avenue, New York, N. Y.
Window Shade Data Book. Folder, 28 pp., 8½ x 11 ins. Illustrated.

SHELVING-STEEL

- Lupton's Sons Company**, Philadelphia, Pa.
Lupton Steel Shelving. Catalog E. Illustrated brochure, 40 pp., 8½ x 11 ins. Deals with steel cabinets, shelving, racks, doors, partitions, etc.

STEEL PRODUCTS FOR BUILDING

- Bethlehem Steel Company**, Bethlehem, Pa.
Steel Joists and Stanchions. Booklet, 72 pp., 4 x 6¼ ins. Data for steel for dwellings, apartment houses, etc.
- Sheet Steel Trade Extension Committee**, Terminal Tower, Cleveland.
This committee will send upon request full data published by its members on steel partitions and specifications for their use.
- Steel Frame House Company**, Pittsburgh, Pa. (Subsidiary of McClellin-Marshall Corp.)
Steel Framing for Dwellings. Booklet, 16 pp., 8½ x 11 ins. Illustrated.
- Steel Framing for Gasoline Service Stations. Brochure, 8 pp., 8½ x 11 ins. Illustrated.
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- Westinghouse Electric & Mfg. Co.**, East Pittsburgh, Pa.
The Arc Welding of Structural Steel. Brochure, 32 pp., 8½ x 11 ins. Illustrated. Deals with an important structural process.

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- Indiana Limestone Company**, Bedford, Ind.
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- The Kawneer Company**, Niles, Mich.
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- Modern Bronze Store Front Co.**, Chicago Heights, Ill.
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Zouri Safety Key-Set Store Front Construction. Catalog, 8½ x 10½ ins., 60 pp. Illustrated. Complete information with detailed sheets and installation instructions convenient for architects' files.
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- National Terra Cotta Society**, 19 West 44th St., New York, N. Y.
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Natco. The Complete line of Structural Clay Tile. Booklet. 39 pp., 8½ x 11 ins. Illustrated. A General Catalog.
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- Hanley Company**, Bradford, Pa.
Hanley Quarry Tile. Folder. 4 pp., 5 x 8 ins. Illustrated.
- C. Pardee Works**, 9 East 45th St., New York, N. Y., and 1600 Walnut St., Philadelphia, Pa.
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- United States Quarry Tile Co.**, Parkersburg, W. Va.
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- Crane Co.**, 836 S. Michigan Ave., Chicago, Ill.
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- C. A. Dunham Co.**, 450 East Ohio St., Chicago, Ill.
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- Jenkins Brothers**, 80 White Street, New York.
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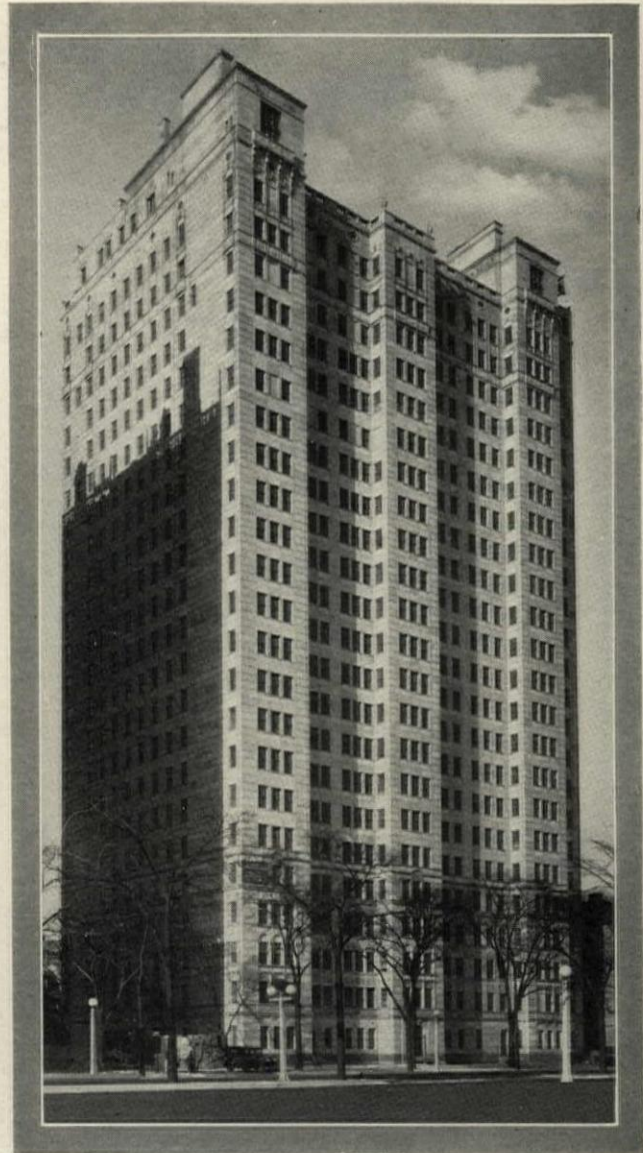
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Duriron Company, Dayton, Ohio.

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Toch Brothers, New York, Chicago, Los Angeles.

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Fenestra Screen Casements. Brochure, 16 pp., 8½ x 11 ins. Illustrated.

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WINDOWS, CASEMENT—Continued

Hope & Sons, Henry, 103 Park Ave., New York, N. Y.

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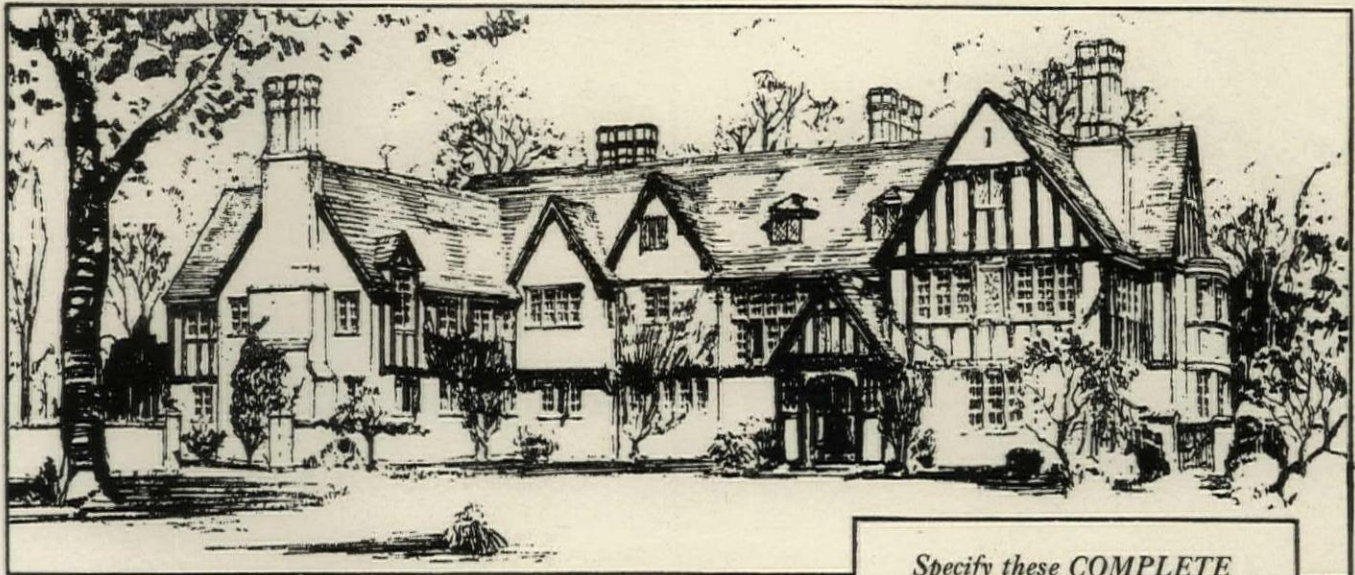
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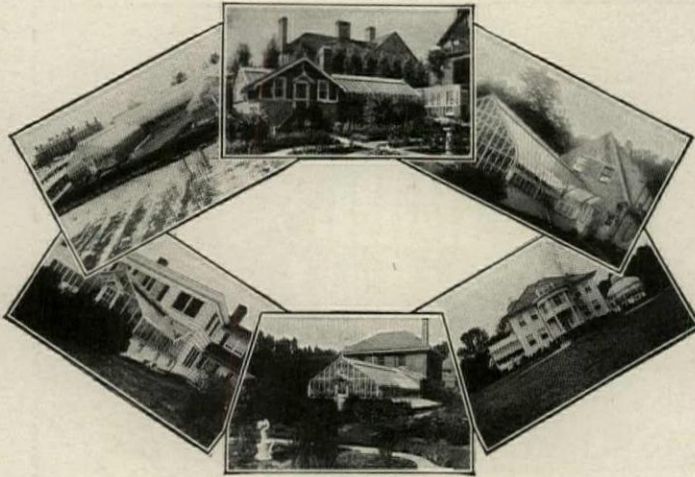


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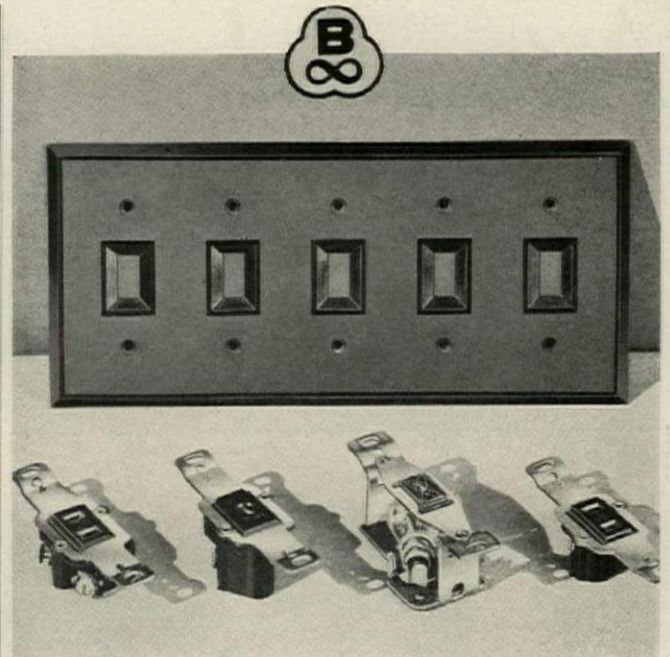
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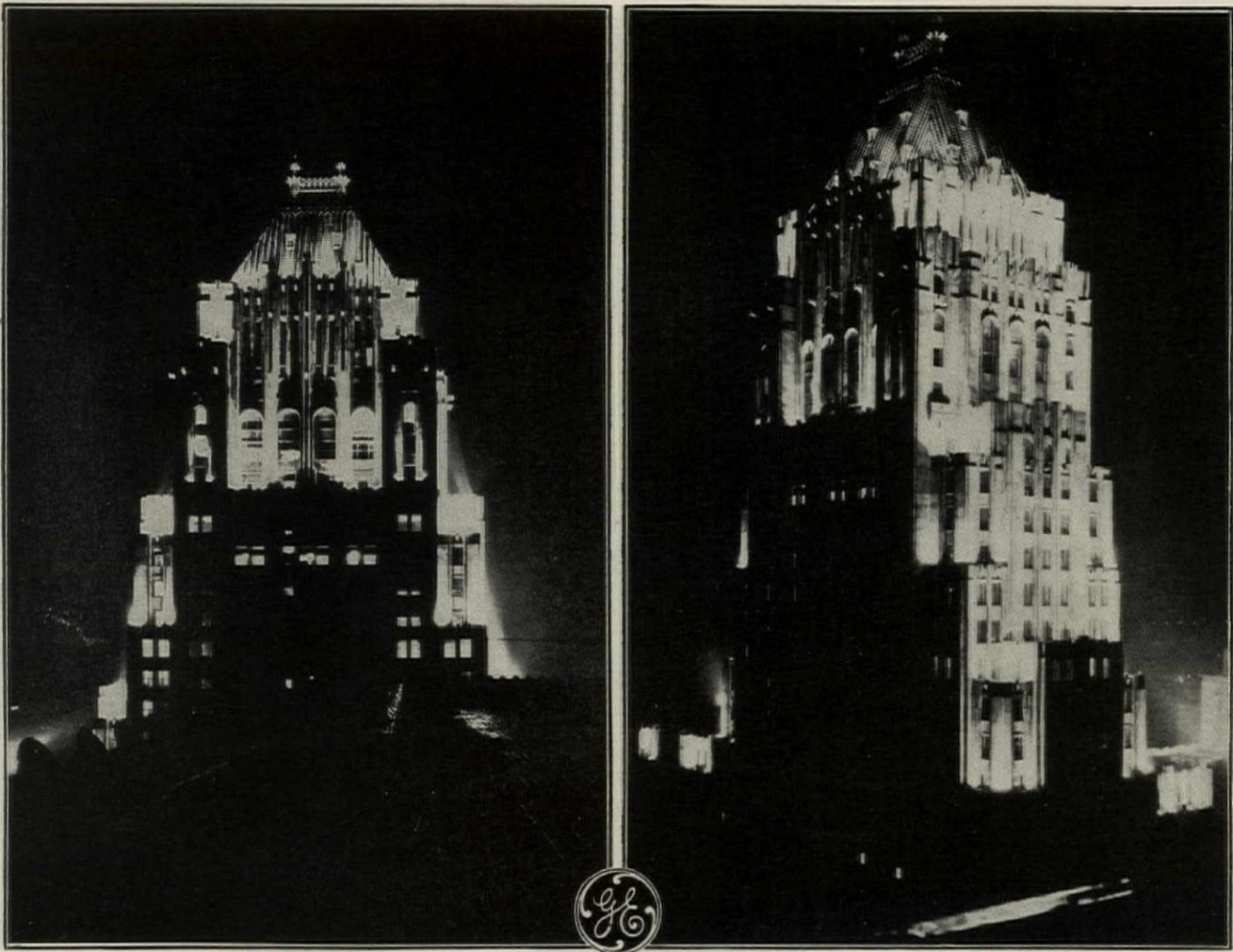
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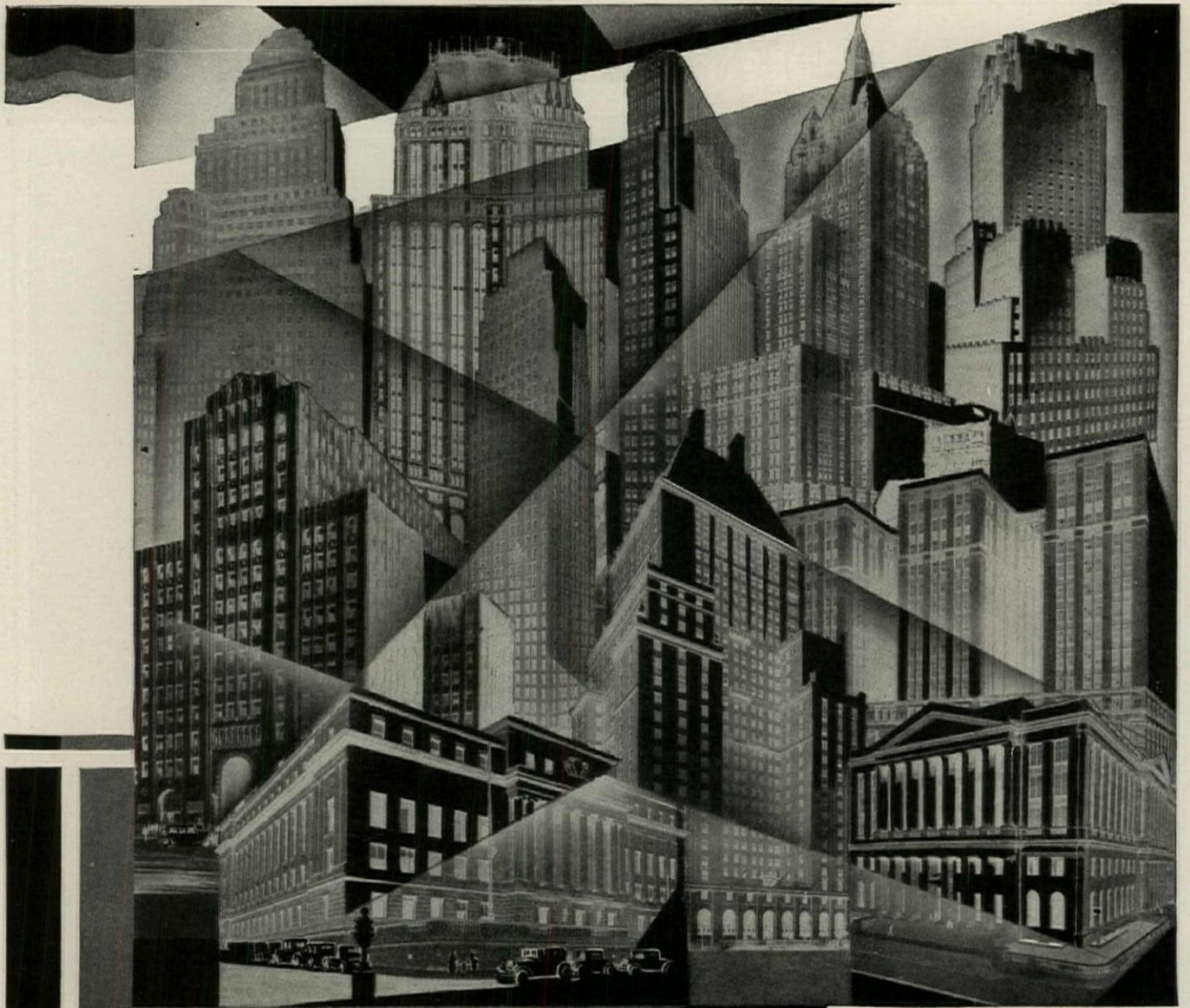
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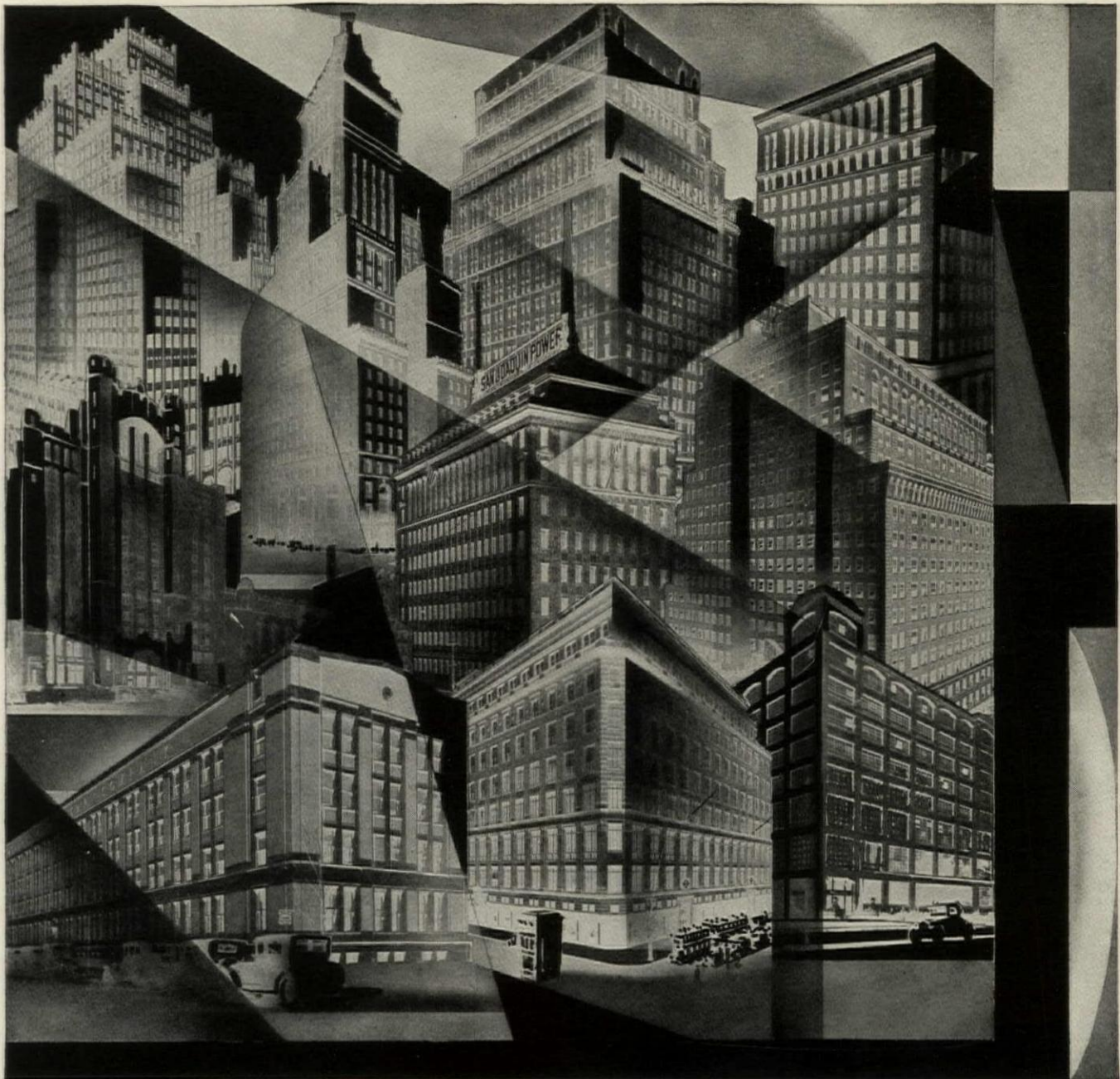
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REVIEWS OF MANUFACTURERS' PUBLICATIONS

DETROIT STEEL PRODUCTS COMPANY, 2250 East Grand Boulevard, Detroit. "Fenestra Casements".

The value and desirability of casements are so well known to architects that it might seem to be almost unnecessary to add to the number of works on the subject which have been already published. Individual home owners, however, must perhaps sometimes be convinced of their being practical as well as architecturally desirable, and this booklet is calculated to do just this. It deals entirely with structures of a residence character,—houses, apartment buildings and country clubs,—giving views of the exteriors and interiors of buildings equipped with casements, while part of the booklet illustrates their mechanism and gives details, specifications and data of different sorts which would interest both architect and home owner. Any housekeeper would be interested in an illustration on page 14 which shows the washing of the *outside* of a window from *inside* the room, which of course makes easy and simple a matter which when double-hung windows are used is likely to be awkward and troublesome.

JENKINS BROTHERS. New York, Boston, Philadelphia, Chicago. "Office Buildings Yesterday and Today."

Although its life as yet may seem to be short, so quickly moves the modern world, the American skyscraper is already somewhat more than 40 years old. Many who read these lines will remember the erection of the Tacoma Building, in Chicago, which startled the world with its introduction (new and bold at the time) of an entirely new principle of construction. This folder or leaflet, one of a series which Jenkins Brothers are expecting to issue "from time to time," deals with the genesis and development of the lofty buildings and with the manner in which the well known "Jenkins valve" has been developed to keep pace with the ever-growing demands of these towering structures. The folder gives views of several of the early (so-called) skyscrapers,—the Tacoma Building, just mentioned, the widely known Pulitzer Building in New York, and the "old" Monadnock Building in Chicago, and then illustrations of such recent achievements as the Palmolive Building in Chicago and the Fisher Building in Detroit, all of which, the text says, are equipped with Jenkins valves. "Arising phoenix-like from the ashes of a burned city, the skyscraper first appeared in Chicago. There it was that the first steel-skeleton structure, the Tacoma Building, was built in 1887 from the plans of Holabird & Roche. Of 14 stories in height, this building and the architecture it exemplified contributed to the world the third great step in fundamental building design (the post and lintel construction of the Greeks was the first; the masonry arch the second). The street walls of the Tacoma Building were designed on the true skyscraper principle, being mere curtains of brick and terra cotta suspended at each floor on spandrel beams affixed to columns of cast iron. The foundations were steel members on isolated footings. Although the skyscraper was now a reality, it is noteworthy that five years later, in 1892, the tallest office structure with load-bearing masonry walls was constructed. This was the 16-story north half of the Monadnock Building, Chicago, designed by Burnham & Root. The walls were built 16 feet thick at the base. The south half, added in 1894, was designed by Holabird & Roche, and modified skeleton construction was employed. This departure from the true skyscraper was made because the building owners did not approve of the new principles as incorporated in the Tacoma Building. Records seem to indicate that the New York Buildings Bureau also had some doubt about the 'great Chicago experiment' before, in 1888, it first approved plans for steel skeleton buildings to be erected on Manhattan Island. In the following year the Pulitzer Building projected its dome to the height of 309 feet, the record in New York. Designed by George B. Post, the Pulitzer Building embodied both the steel skeleton and the load-bearing masonry principles. Steel work supports the floors and court walls, while the outside walls—11 feet thick at the foundation,—are self-supporting. From 1889 to the present day, the fundamentals of skyscraper design were to remain unchanged. Construction was to resolve itself mainly into a struggle for altitude supremacy, which is continued."

HOME INCINERATOR COMPANY, Milwaukee. "Incinerators Easily Installed In Any Home." A valuable utility.

It has been truly said that the conveniences and luxuries of one age become the necessities of the next. This seems to be particularly applicable in the case of the garbage incinerator, for we are so accustomed to its quick and faultlessly clean disposal of refuse and rubbish that we think with disgust of cans filled to overflowing with garbage festering and fermenting in the sun on New York sidewalks or at the service entrances or in basements of residences anywhere. "The basement in fact has come into its own in the designing of today's dwelling, and architects now give it the consideration it deserves. The space taken by coal bins, ash barrels and accumulations of trash and rubbish in yesterday's cellar is now effectively utilized as playroom, work shop, sewing room, servants' quarters and in other ways." This brochure deals with the "Inciner," the portable, gas-fired home incinerator, which embodies scientific principles of cremation, ventilation and dehydration. "At the same time, there is nothing complex or complicated in its construction or operation. It is sturdy, simple, always ready, always efficient. With ordinary care, it will last a life time. It has the further advantage of being portable, and it may be removed to another home. Refuse and garbage deposited in Inciner are quickly destroyed by the gas flame, an ingenious dryer arrangement causing rapid reduction. As much as three bushels of wet garbage are reduced to a handful of sterile, white ashes in a few hours. Inciner starts by merely pressing a button. An automatic control shuts off the gas flame at any predetermined time. Garbage need not be burned every day. Two or three burnings a week are all that is usually necessary for the medium sized family." The Inciner is to be had in more than one size, the "Nine-bushel Commercial Inciner" being recommended for sanitariums, clinics, hospitals, county institutions, estates, clubs, apartments, office buildings, department stores and schools.

THE GENERAL ELECTRIC COMPANY, SCHENECTADY. "G-E Arc-Welding School." Training for metal workers.

Perhaps with a view to making a contribution to the welfare of the construction industry as a whole, the General Electric Company conducts a course of instruction in arc-welding, the course being described in a booklet or brochure recently published. "The process of welding by means of an electric arc, or 'arc-welding,' as it is commonly known, is adaptable to nearly all applications where iron or steel are to be joined, built up, or cut. Practically all arc-welding is accomplished by one of two processes, referred to respectively as the metallic and carbon electrode methods. In either case, the process utilizes the heat of an electric arc formed between the electrode and the object to be welded. The arc melts a small pool of metal on the work, and in welding or building up additional metal is deposited in this pool in a molten state, thereby forming a firm union between the old and the new metal. If the operator is not trained to hold the arc steady and at a uniform distance, there will be incomplete fusion of the metal and a series of cold spots, resulting in an extremely weak union. This alone is responsible for more failures of welds than any other cause." "The length of the course depends upon the ability of the student and his previous experience. It has also been found that a man under 30 years of age progresses more rapidly than one who is older, because his muscles are more supple and his touch is more delicate, permitting him to control the arc better and more easily. For a man who has had no previous experience in arc welding, a period of approximately three months is required to become a good welder. It is expected that every student will stay the full length of time necessary to complete the course. A certificate of proficiency is given to each man who completes the course and who has attained the necessary degree of skill. However, the Company cannot guarantee employment, even to those who satisfactorily complete the training course. To the present time, more than 900 men have received instruction in electric arc-welding at Schenectady. Students have been received from every state and from several foreign countries. College graduates also have taken the course."

REVIEWS OF MANUFACTURERS' PUBLICATIONS

ASSOCIATED TILE MANUFACTURERS, 420 Lexington Avenue, New York. "Architectural Monographs on Tiles."

Architects and interior decorators well know the importance and value of the publications issued by this large association of tile workers. Each of its brochures or booklets has been carefully compiled by a student well qualified to write upon a subject of this nature, and in every instance use has been made of illustrations likely to increase the reader's interest. In this brochure, Number 6 of a series, Rexford Newcomb, Professor of the History of Architecture at the University of Illinois and a frequent contributor to THE FORUM discusses the structural and decorative tile of India, illustrating in full color as well as in black and white quite a number of the masterpieces which for centuries the ceramic workers of that country have been creating. The brochure has been prepared with all the thought and care which characterize all of Professor Newcomb's writings, and the illustrations which are chiefly of objects which are but little known add considerably to the booklet's value. The brochure should be had by every architect and interior decorator.

NASH ENGINEERING COMPANY, South Norwalk, Conn. Data on Pumps. Different types to serve many purposes.

Such is the importance of pumps that there exists a wide variety intended to serve different uses. Several brochures issued by these large manufacturers illustrate and describe pumps for many purposes. Bulletin No. 11 deals with "Nash Hytor Vacuum Pumps for Air or Gas"; No. 52 with "Jennings Centrifugal Pumps, designed for long life and the utmost economy in operation"; No. 67 with the "Jennings Sewage Ejector, pneumatic equipment designed for pumping sewage, waste products, or any heavy solids in suspension," and No. 85 with the "Jennings Vacuum Heating Pump, manifold type for return line heating systems and other vacuum work where liquid is handled with a gas." Bulletin 87 then gives data on the "Jennings Vacuum Heating Pump, unit manifold type for return line heating systems"; No. 97 deals with the "Jennings Suction Sump Pump, an open impeller centrifugal for sump service"; No. 99 with the "Jennings Condensation Pump, unit type, electric motor driven, designed to handle condensate from steam heating or drying systems," while Bulletin No. 103 deals with "Type B Jennings Sewage Ejector, pneumatic equipment for pumping sewage, waste products, or any heavy solids in suspension." All these booklets are of course highly valuable.

G & C ATLAS SYSTEMS, INC., 544 West Broadway, New York. "Pneumatic Tube Data Sheet."

Modern business and the architects who build for it have begun to appreciate the many advantages of pneumatic dispatch tubes. Carriers traveling at a speed of 30 feet per second provide a mechanical messenger service for distributing and collecting mail, telegrams, orders and important documents of all kinds among numerous or widely scattered departments. Until now nothing has been published which would make it possible for the architect and engineer to understand how or where his bank, hotel, factory and other clients might profitably use a tube system, and what steps are necessary in the preparation of plans and specifications. This leaflet, which bears the American Institute of Architects' proper filing classification, contains diagrammatic sketches of connecting departments in several types of business, which use pneumatic dispatch tube service (excepting retail stores, for which there is a special brown print showing a typical central tube room). It explains the preliminary information necessary for the architect and the client. A table of carrier capacities enables one to quickly decide the sizes to be used. Diagrams and illustrations show the two types of twin tube layouts. The text tells what to show on plans and the amount of space required. Because it is educational in viewpoint, treating an insufficiently known subject and issued by a reliable manufacturer, it is a desirable reference work and well deserves a wide circulation.

AUTO RAMPS CORPORATION, Builders Exchange Building, Richmond, Va. "The Modern Parking Garage."

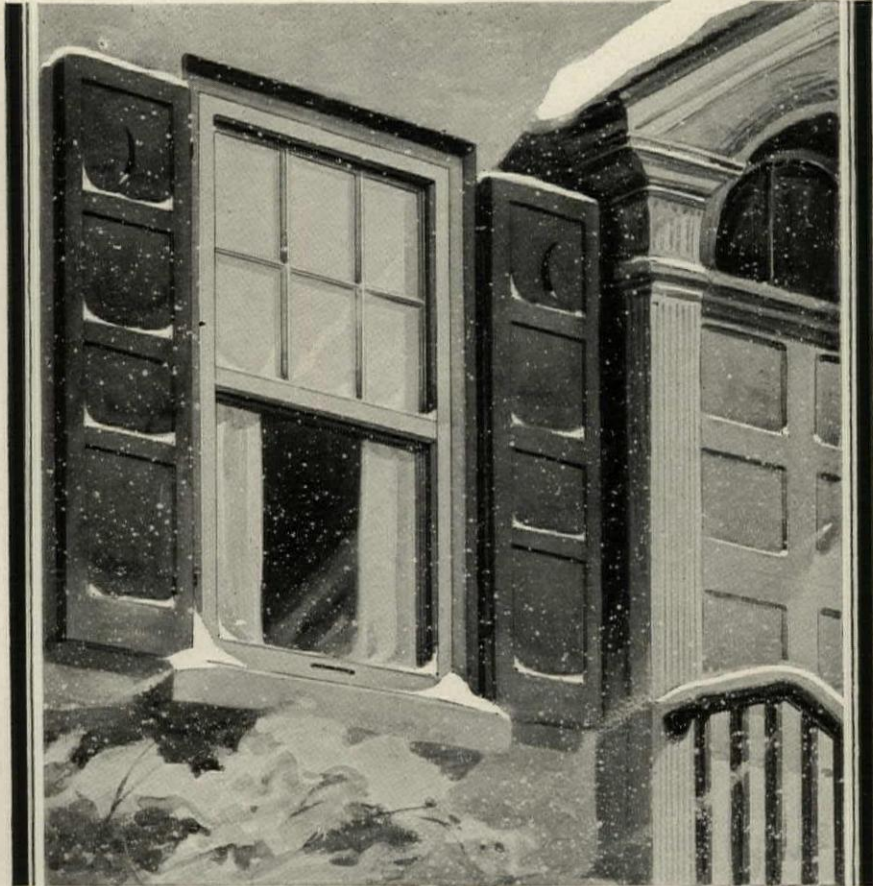
The amazing growth of the use of automobiles has brought with it a corresponding growth in the number of buildings in which they may be kept. Few houses are being built in country or suburbs without garages being included, and even in city residences they are sometimes incorporated, and at times with considerable ingenuity. Many apartment houses are so planned that parts of their basement areas may be used for garage purposes. Wholly apart from this, however, there are the large commercial garages, chiefly in cities and not too far from active business districts, for parking during the daytime the cars which bring their owners to business in the morning and in the afternoon return them to their homes. Sometimes such garages are used for keeping and "grooming" cars whose owners cannot do it themselves. This demand has led to the development of vast buildings provided with every device which ingenuity could suggest for convenience in rapidly handling the business which the wide use of motors involves. Ramps are, of course, widely used for taking cars from floor to floor, their use being found to be preferable to the use of elevators.

This brochure deals with a solution of this problem and describes a large garage lately built in Richmond, Va., of which Lee, Smith & Vandervoort are architects and engineers. Views are given of its exterior, which possesses an unusual degree of architectural character, and a plan of one of the floors shows the arrangement for parking cars and the very interesting ramp at the center of the building. "This ramp is best described as being a double-thread screw of very coarse pitch and large diameter. One thread is used for cars going up and the other thread for cars coming down, each roadway having an opening at each floor, so that cars can go up or down from any floor, always using one thread for up and the other for down traffic. The first condition was satisfied by this double-spiral ramp, because it occupies a relatively small area of the floor and leaves the building with continuous level floors, with provision so that the ramp structure can be removed easily at some future time, and the cylindrical shaft left as an open court, or the floor slabs continued over the opening, which would, of course, leave the building available for any other use. After a car enters the ramp, and the steering wheel is adjusted, the car climbs on a continuous and uniform grade, and as it turns continuously in a uniform circle, the steering wheel does not have to be changed, regardless of how many stories the car ascends. In descending, the car is placed in second gear, and the resistance or drift of the motor is just enough to let the car come down at the proper speed. The average of a number of tests shows a capacity of over 1,500 cars per hour for each ramp, and a vertical speed of 240 feet per minute, which is equivalent to 24 stories in less than two minutes. The third requirement of accident hazard elimination is met, because the up and down traffic are entirely separated, and it is easy to keep the car in the center of the roadway because the steering wheel is only needed to make minor adjustments, as the car is constantly turning in a large circle. One of the greatest objections to most of the other ramp systems is that cars have to pass up and down the aisles on each floor. With the double-spiral ramp, there are no cars using the aisles except the cars that are parked on this floor, as all the inter-floor travel is confined to ramp structure. This feature also provides a very effective means of fire stopping, for by use of suitable automatic fire doors at the entrance and exit to the ramp structure at each floor, a fire originating on any floor can be confined to that floor and cars above can pass by the floor in safety. By having continuous level floors, control on the parking floors is much easier than when the control is de-centralized by staggering or breaking the floors, and the number of cars stored per floor was found to be as great as with any other system. Due to the fact that the cars are climbing a continuous uniform grade, the total distance traveled by the car from the entrance to a parking berth on an upper floor is less than half the distance required by any ramp system whereby the cars have to travel down a level aisle on each floor." The importance and interest of the subject should certainly secure for this booklet a wide circulation among architects, engineers and builders and those interested in garages.

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INDEX TO ADVERTISING ANNOUNCEMENTS

Part 1—Architectural Design

Acme Brick Company.....Third Cover	General Electric Company..... 105	Nashville Hdw. Flooring Co..... 61
Aluminum Company of America.....68, 69	Georgia Marble Company, The..... 64	National Lead Company..... 97
American Brass Company.....9, 58, 59	Gustavino, R., Company..... 7	National Terra Cotta Society..... 66
American Seating Company..... 50	Guth Company, The Edwin F..... 62	Newcomb Mfg. Company, F. J..... 52
American Walnut Manufacturers Association..... 40	Hamlin, Irving..... 62	Pardee Works, The C..... 27
Architectural and Industrial Arts Exposition..... 81	Hanley Company..... 1	Penn Hardware Company.....16, 17
Arkansas Oak Flooring Company..... 61	Hartmann Sanders Co..... 63	Portland Cement Association.....78, 79
Armstrong Cork Company..... 19	Hartshorn Co., Stewart..... 80	Pratt & Lambert, Inc..... 93
Athey Company..... 80B	Hauserman Co., The E. F..... 67	Rambusch..... 43
Bagués, Inc..... 52	Heinz Roofing Tile Co., The..... 32	Ramp Building Corporation..... 11
Bakelite Corporation..... 104	Hess Warming & Ventilating Co..... 80	Ritter Lumber Company, The W. M..... 62
Berman Company, Ely..... 42	Higgins & Co., Chas. M..... 75	Russell & Erwin Mfg. Co..... 14
Best Bros.Keene's Cement Co..... 99	Holophane Co., Inc..... 84	Sargent & Company.....Fourth Cover
Blank & Company, Frederic..... 46	Hood Company, B. Mifflin..... 4	Shanklin Manufacturing Co., Inc..... 82
Brasco Manufacturing Co.....12, 13	Indiana Limestone Company..... 5	Sheldon Slate Co., F. C..... 8
Bruce Company, E. L..... 61	International Nickel Company, Inc., The..... 74	Shevlin, Carpenter & Clarke Company..... 55
Carney Company, The..... 89	Jacobson & Company..... 49	Sloane, W. & J.....Second Cover
Casement Hardware Co., The..... 82	Johnson & Faulkner..... 51	Smyser-Royer Company..... 56
CELLLized Oak Flooring, Inc..... 61	Kawneer Co., The..... 86	Stone & Webster Engineering Corporation..... 29
Circle A Products Corporation..... 24	Kensington Mfg. Company..... 39	Thorp & Co., Inc., J. H..... 44
Clemetsen Co., The..... 31	Kent-Costikyan..... 48	Todhunter, Inc..... 52
Columbia Mills, Inc., The..... 31	King Construction Company..... 104	Tuttle & Bailey Mfg. Co..... 113
Congoleum-Nairn, Inc.....106, 107	Kittinger Company..... 41	U. S. Gutta Percha Paint Co..... 91
Corbin, P. & F..... 18	Klein & Co., Inc., Henry.....36, 45	United States Gypsum Company..... 2
Covert Company, The H. W..... 53	Lehigh Portland Cement Company.....22,23	United States Rubber Company..... 80A
Curtis Companies Service Bureau, The..... 57	Libbey Owens Sheet Glass Co., The..... 111	Ward Leonard Electric Company..... 85
Dahlstrom Metallic Door Co..... 76	Long-Bell Lumber Co., Inc..... 61	Western Pine Manufacturers Association..... 60
DeLong Furniture Co..... 47	Ludowici-Celadon Company..... 10	Westinghouse Electric & Manufacturing Company..... 109
Detroit Steel Products Company..... 103	Lupton's Sons Co., David.....20, 21	Wheeler, Osgood Company..... 65
Dierks Lumber & Coal Co..... 54	Lutton Company, Inc., Wm. H..... 82	"White" Door Bed Company, The.....72, 73
Du Bois Fence and Garden Co., Inc..... 60	Macbeth-Evans Glass Co..... 83	Wickwire Spencer Steel Co..... 70
Du Pont de Nemours & Co., Inc.,E. I. 101	Maple Flooring Manufacturers Assn... 70	Zouri Drawn Metals Company..... 15
Duraflex Company, Inc., The..... 60	Milwaukee Corrugating Co..... 71	
Eagle-Picher Lead Company, The..... 3	Modern Bronze Store Front Co..... 15	
Federal Cement Tile Company..... 6	Murphy Varnish Company..... 95	
Formica Insulation Company, The..... 77		
Frink Corporation, The..... 114		

Part 2—Architectural Engineering and Business

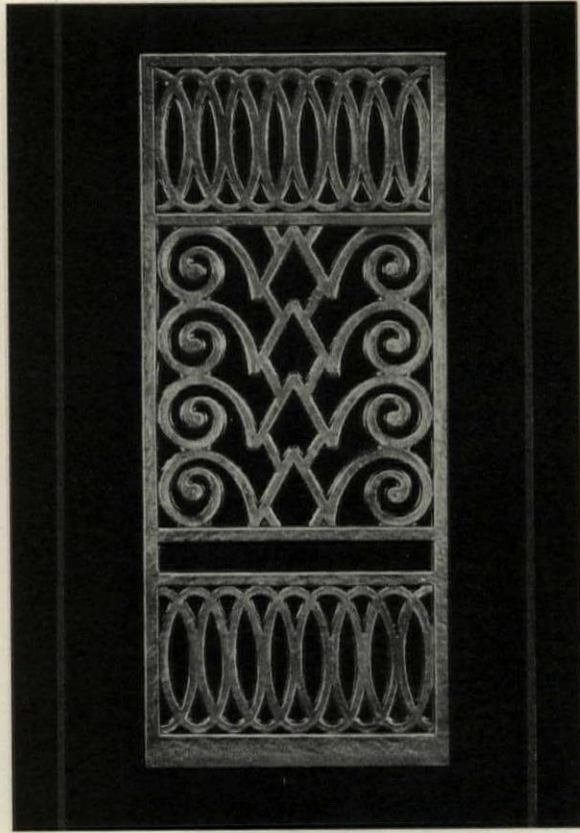
Aerofin Corporation..... 224	Fitzgibbons Boiler Company..... 241	Pecora Paint Company..... 206
Alabama Pipe Company..... 173	Frigidaire Corporation..... 135	Peerless Unit Ventilation Co., Inc..... 234
Alberene Stone Company..... 246	Fulton Siphon Company, The..... 197	Prometheus Electric Corp..... 180
Allen & Billmyre Co., Inc.....180	General Cable.....136, 137	Radio-Victor Corporation of America.. 185
Aluminum Company of America..... 120	General Electric Company..... 133	Raymond Concrete Pile Company..... 117
American Blower Corp..... 179	General Refrigeration Company..... 138	Reading Iron Company..... 160
American Brass Company, The..... 153	Gillis & Geoghegan, Inc..... 143	Receivador Sales Co..... 204
American Institute of Steel Construction, Inc..... 150	Heggie-Simplex Boiler Co..... 148	Republic Iron & Steel Co.....Second Cover
American Laundry Machinery Co., The..... 170	Hoffman Specialty Company, Inc..... 235	Richards Wilcox Mfg. Co.....245
American Radiator Company.....139, 184	Home Incinerator Co..... 209	Rome Brass Radiator Corporation..... 245
American Rolling Mill Company, The..... 166	Housing Company..... 217	Sarco Co., Inc..... 174
American Telephone & Telegraph Co..... 126	Hubbell, Incorporated, Harvey..... 147	Sedgwick Machine Works..... 172
A. P. W. Paper Company..... 174	Imperial Brass Mfg. Co., The..... 162	Servel Sales, Inc..... 211
Armstrong Cork & Insulation Company..... 195	International Nickel Company, The..... 157	Sonneborn Sons, Inc., L..... 243
Automatic Electric, Inc..... 203	Janette Manufacturing Company..... 176	Speakman Company..... 238
Barrett Company, The..... 175	Jenkins Bros..... 193	Spencer Heater Company..... 225
Bates Expanded Steel Truss Co..... 215	Johns-Manville Corporation..... 177	Standard Conveyor Company..... 225
Berger Mfg. Company, The..... 212	Johnson Service Company..... 239	Steel Frame House Company..... 213
Bramhall Deane Co..... 208	Josam Mfg. Co., Inc., The..... 171	Stringer Bros. Co., Inc..... 173
Brownell Company, The..... 176	Kalman Steel Company..... 216	Structural Gypsum Corporation..... 186
Brunswick-Balke-Collender Co., The..... 199	Kerner Incinerator Co..... 207	Sturtevant Co., B. F..... 228
Carey Company, The Philip..... 191	Kewanee Boiler Corporation..... 118	Titusville Iron Works Co., The..... 237
Carnegie Steel Company..... 214	Kewanee Private Utilities Co..... 162	Toch Brothers..... 180
Central Alloy Steel Corp..... 219	Kinnear Mfg. Co..... 210	Trane Co., The..... 226
Chromium Corporation of America..... 161	Kohler Co..... 156	Trenton Potteries Company, The..... 167
Clinton Metallic Paint Co..... 208	Kosmos Portland Cement Company..... 132	Troy Laundry Machinery Co., Inc..... 183
Clow & Sons, James B..... 154	Louisville Cement Company..... 128	Truscon Steel Company..... 116, 206
Cohoes Rolling Mill Co..... 163	Maddock's Sons Co., Thos..... 165	United Chromium, Incorporated..... 161
Concrete Engineering Co..... 222	Master Builders Company, The..... 119	United Metal Products Co., The..... 204
Concrete Steel Co..... 221	May Oil Burner Corporation..... 229	United States Gypsum Company.....Third Cover, 223
Cowing Pressure Relieving Joint Co..... 172	McQuay Radiator Corporation..... 122	United States Rubber Company..... 169
Crane Co..... 134	Modine Manufacturing Company..... 236	U. S. Mineral Wool Company..... 204
Cutler Mail Chute Co., The..... 162	Mueller Co..... 155	Van Range Co., The John..... 178
Dixon Crucible Company, Joseph..... 145	Nash Engineering Co., The.....123, 124, 189	Vilter Manufacturing Company, The... 208
Domestic Stoker Company..... 184	National Electric Products Corporation.....Fourth Cover	Vonnegut Hardware Co..... 140
Douglas Co., The John..... 159	National Fireproofing Company..... 115	Weber Costello Company..... 218
Dunham Co., C. A..... 233	National Radiator Corporation..... 129	Western Electric Company..... 205
Duriron Company, The..... 176	National Steel Fabric Company.....130, 131	Westinghouse Electric and Manufacturing Company..... 182
Electric Storage Battery Company, The..... 125	National Tube Company..... 158	Weyerhaeuser Forest Products..... 201
Electrol, Inc., of Missouri..... 231	North Western Expanded Metal Co..... 121	Wood Conversion Company..... 220
Expan-Hub..... 173	Otis Elevator Company..... 172	York Ice Machinery Corporation..... 127
		Youngstown Sheet & Tube Co., The... 181

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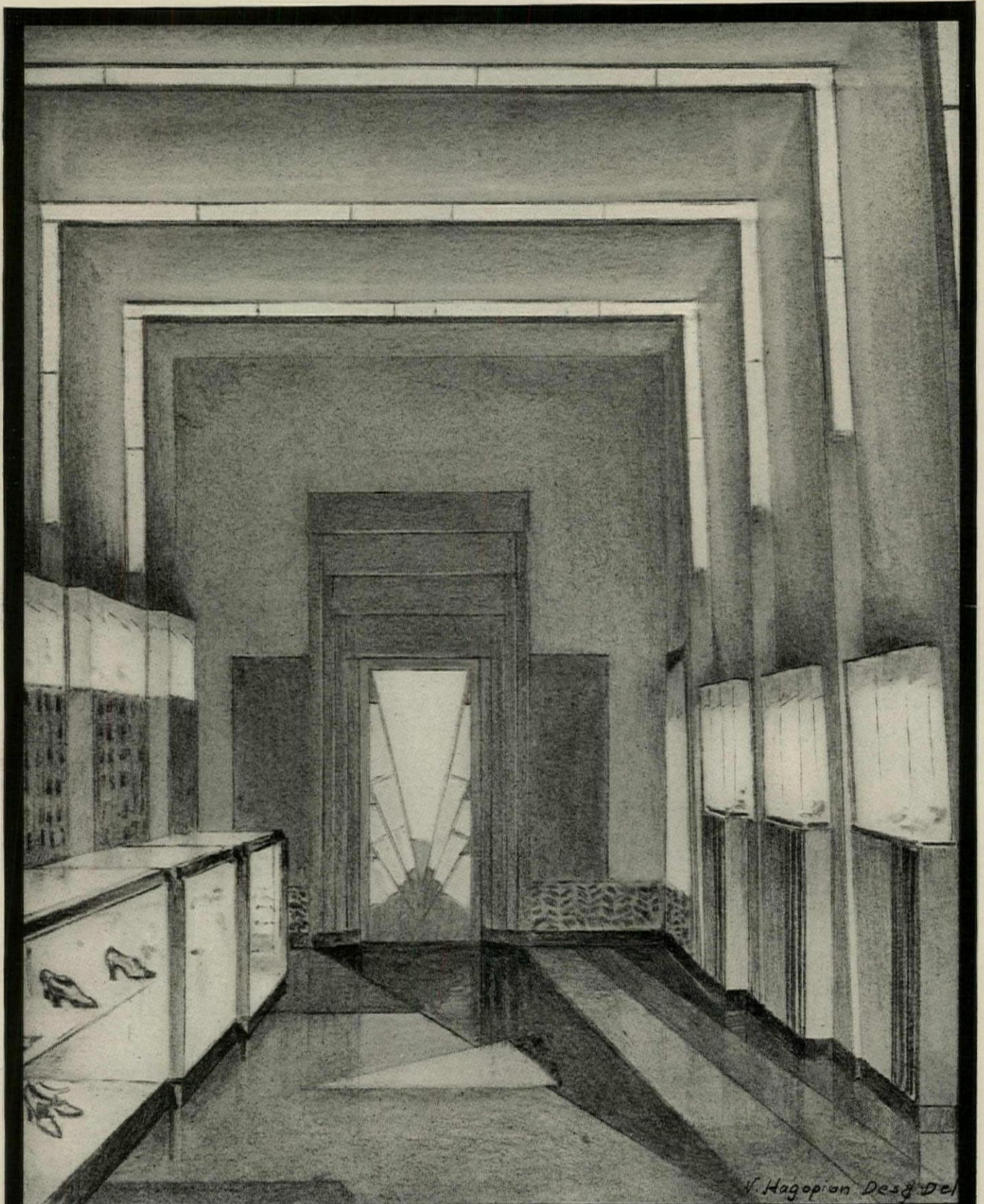
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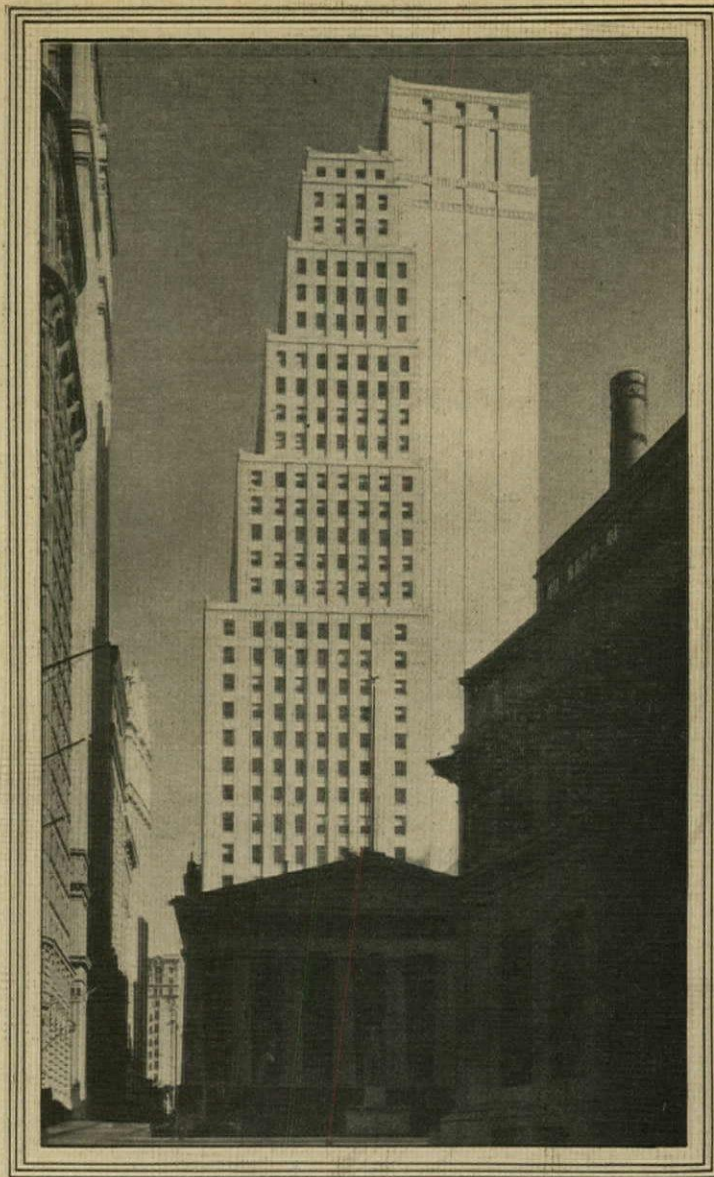
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