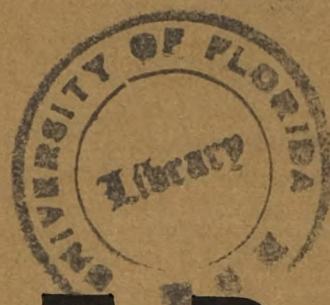


VOLUME XVI
NUMBER 6

DECEMBER
1 9 1 0



THE WESTERN
ARCHITECT

ARCH &
FINE ARTS
LIBRARY

6.0.5
527
1.16
11.1

Hard Wall Plaster
Fire Brick
White and Brown Lime

**TERRA
COTTA**

Fire Clay Linings
Sewer Pipe
Mineral Wool, Etc.

Union Railway Storage Company

Offices: 338 Security Bank Building, MINNEAPOLIS, MINN.

Portland Cement
American Imported

Common Cement
Milwaukee - Louisville - Austin

Chicago Portland Cement Co.



Manufactures of

**"CHICAGO AA"
Portland Cement**

*We make one brand only
The best that can be made*

6,500 Bbls. used in Kankakee reinforced concrete bridge
53,330 Bbls. used in Thebes bridge
1,050 Bbls. used in Kenosha reinforced concrete bridge
Hennepin Canal, Government Post Offices, Principal Railroads,
Dealers, Concrete Block Manufacturers and
Contractors in the Northwest

OUR PATRONS

Use **BAY STATE** Brick and Cement Coating

to Protect Concrete Against
the Ravages of Dampness



THIS coating becomes a part of the material itself and will give concrete, stucco, brick or plaster any shade desired as well as protect it against moisture.

It does not destroy the desirable, distinctive texture of concrete.

It can be used as a floor coating on cement floors, on the exterior of mills, factories; on the interior of subways or cellars, where dampness would preclude other paint; on public or private buildings of every description.

It will not chip or flake off and thus is a perfect coating or tint for overhead factory work where delicate machinery is used.

Its durability and fire-proof qualities make it particularly desirable not alone on stucco, concrete or plaster, but also on wooden partitions.

It comes in ten beautiful shades ranging from pure white to dark green. It gives a dull finish and is more economical than lead and oil or cold water paints.

Ask your dealer for it or address

Wadsworth, Howland & Co., Inc.

PAINT AND VARNISH MAKERS
AND LEAD CORRODERS

96-97 Washington Street, Boston, Mass.

SEE OUR EXHIBIT at Madison Square Garden, December 14 to 20,
and also at the Chicago Coliseum, February 17 to 23, 1911

CAST IRON COLUMNS

Any size or type of columns, base plates, post caps, lintels, manhole rings, covers, etc., grey iron castings of any size or nature.

HOISTING ENGINES

We manufacture an improved line of hoisting engines and derrick fittings. Catalog on request. Wire rope carried in stock for immediate delivery.

STRUCTURAL STEEL

Send us your plans and specifications for figures. Our facilities for prompt and economical service are unequalled in the northwest.

Clyde Iron Works 2930 to 3130 West Mich. Street
Duluth, Minn.

THE NORTHWESTERN LIME CO.

NORTHWESTERN DISTRIBUTORS OF

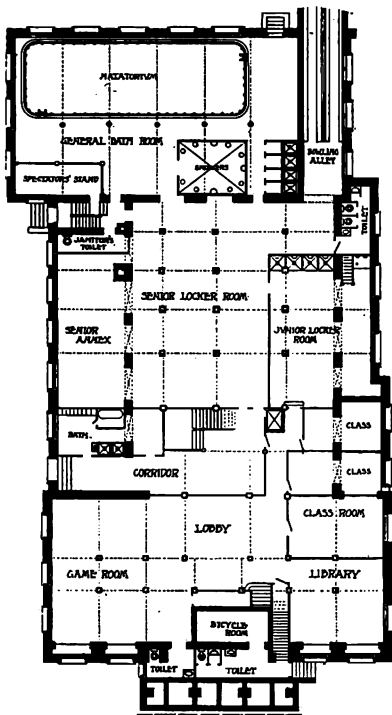
"ATLAS"

Portland Cement

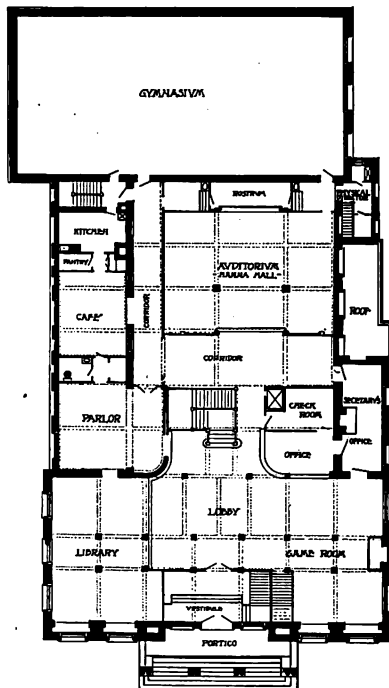
and
Berkshire "Snow White" Portland Cement

General Office; 68 Lower Love
ST. PAUL, MINN.

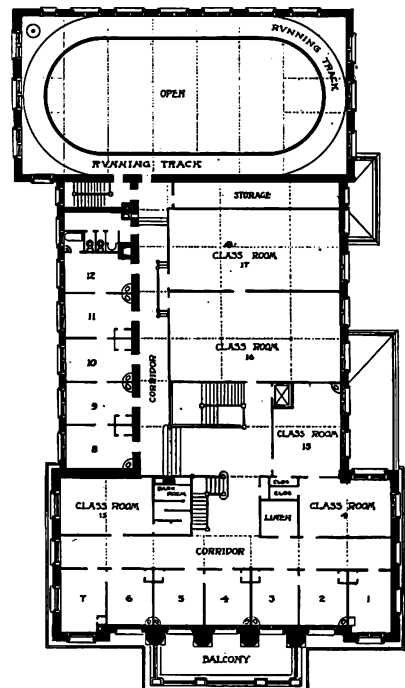




• GROUND FLOOR PLAN •



• FIRST FLOOR PLAN •

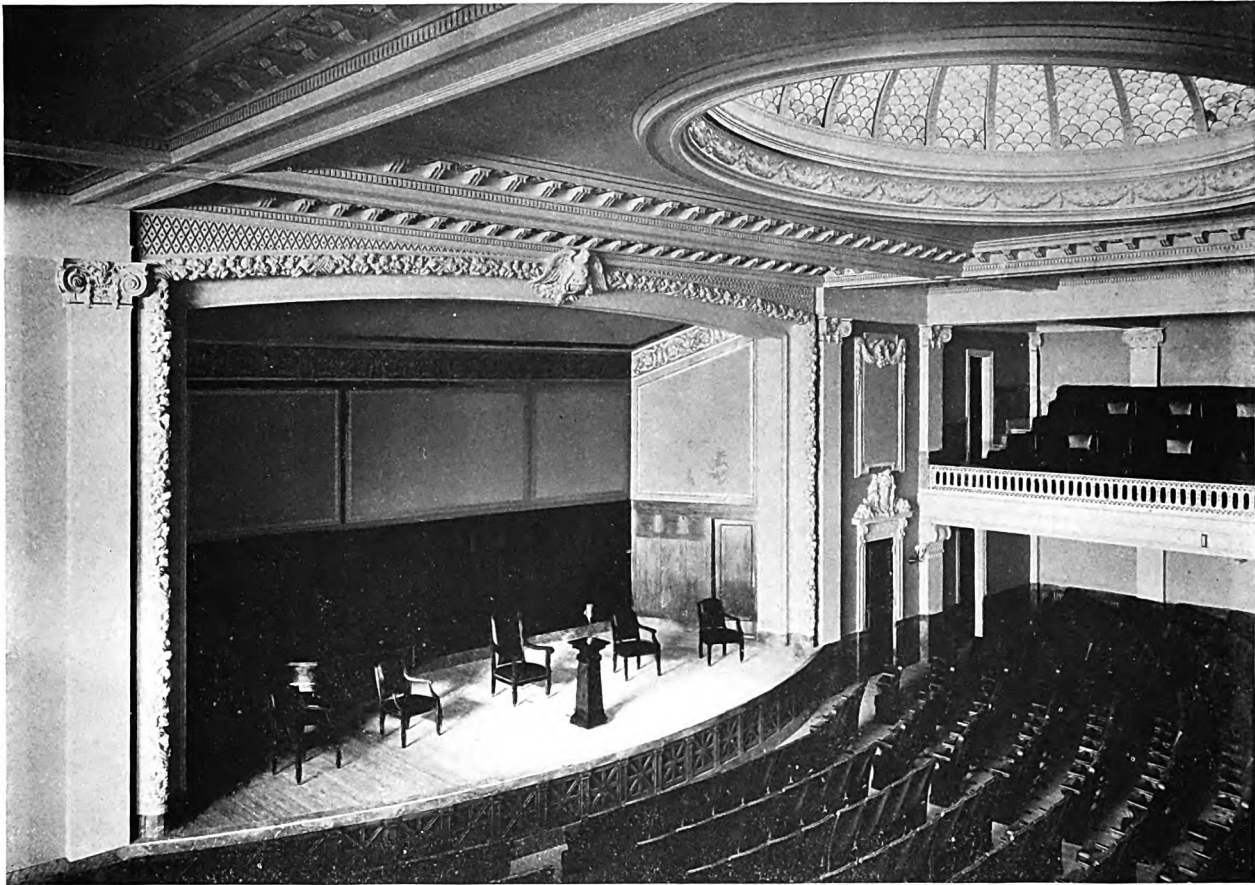


• SECOND FLOOR PLAN •



BUILDING FOR THE Y. M. C. A., CHARLOTTE, NORTH CAROLINA
 HOOK AND ROGERS, ARCHITECTS

THE WESTERN ARCHITECT
 FEBRUARY
 1910



DETAIL OF AUDITORIUM



DETAIL OF EXTERIOR

FORD BUILDING (BAPTIST SOCIAL UNION) BOSTON, MASSACHUSETTS
BRainerd, LEEDS and RUSSELL, ARCHITECTS

THE WESTERN ARCHITECT
JANUARY
1910



THE WESTERN ARCHITECT
FEBRUARY
1910

DINING ROOM IN RESIDENCE OF ELLIOT NORTON, HINSDALE, ILLINOIS
HOWARD VAN DOREN SHAW, ARCHITECT, CHICAGO



HIGH SCHOOL AT SOUTH ORANGE, NEW JERSEY
KITCHELL AND BARTLETT, ARCHITECTS .

THE WESTERN ARCHITECT
FEBRUARY
1910

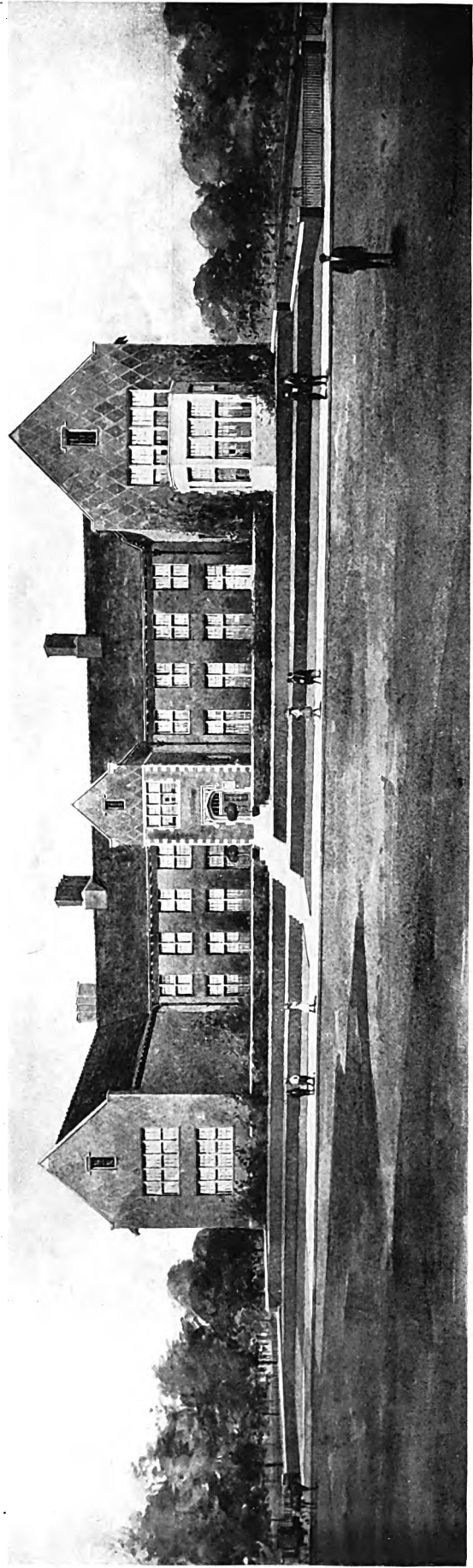
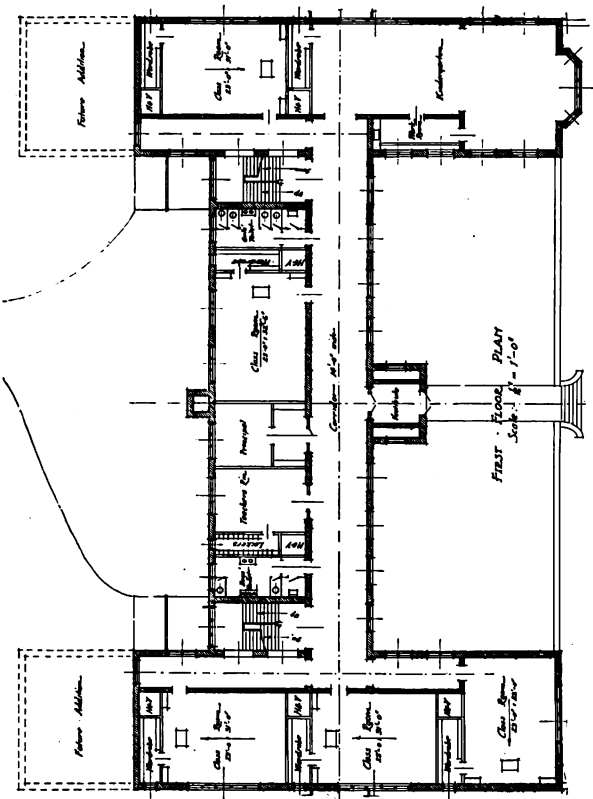
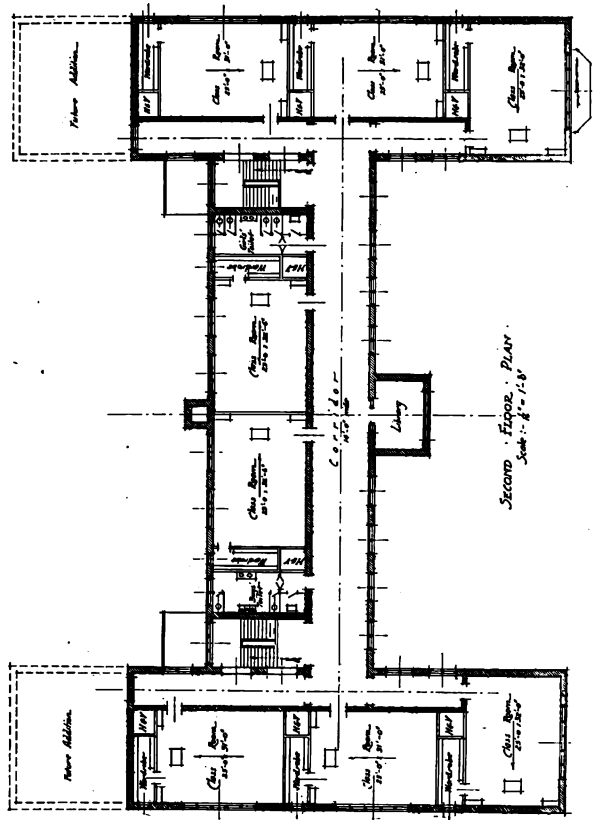


CARNEGIE LIBRARY, FRANKFORT, INDIANA
T. JOHNSON AND COMPANY, ARCHITECTS, INDIANAPOLIS, INDIANA



Photograph by Courtesy of Sandusky Portland Cement Co.

TRIPPS DANCING ACADEMY, ST. LOUIS, MISSOURI
GEORGE H. KENNERLY, ARCHITECT



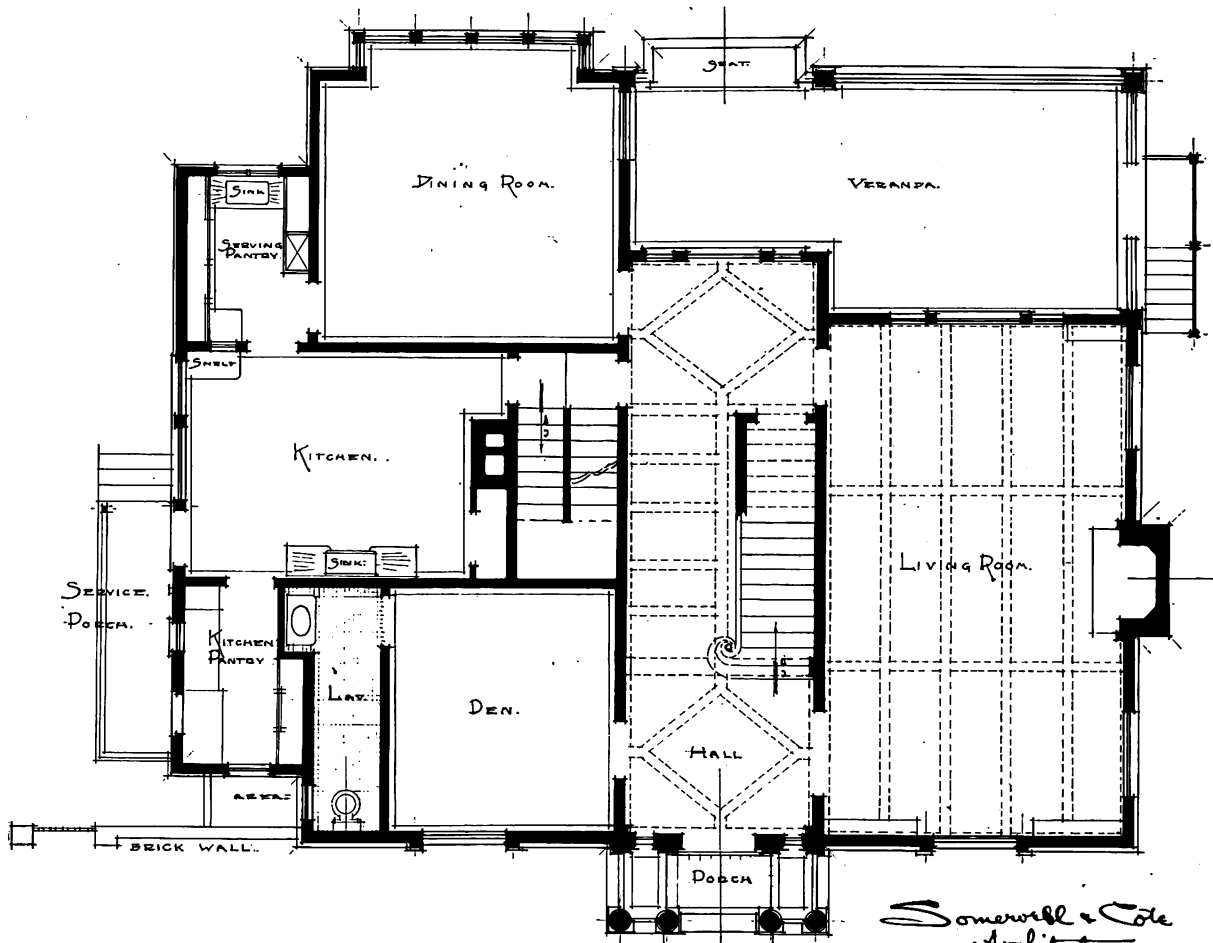
ALTERNATE PRELIMINARY PLANS AND ELEVATION OF NEW MERAMEC SCHOOL, ST. LOUIS, MISSOURI
 WILLIAM B. ITTNER, ARCHITECT, COMMISSIONER OF SCHOOL BUILDINGS

THE WESTERN ARCHITECT
 APRIL
 1910



RESIDENCE AT BALTIMORE, MARYLAND

THE WESTERN ARCHITECT
OCTOBER
1909



RESIDENCE FOR E. L. GRONDAHL ESQ.
WASHINGTON PARK. ADDITION.

FIRST FLOOR PLAN.

Somervell & Cote
Architects
Seattle.

THE WESTERN ARCHITECT
OCTOBER
1909

RESIDENCE FOR E. L. GRONDAHL, SEATTLE, WASHINGTON
SOMERVELL AND COTE, ARCHITECTS

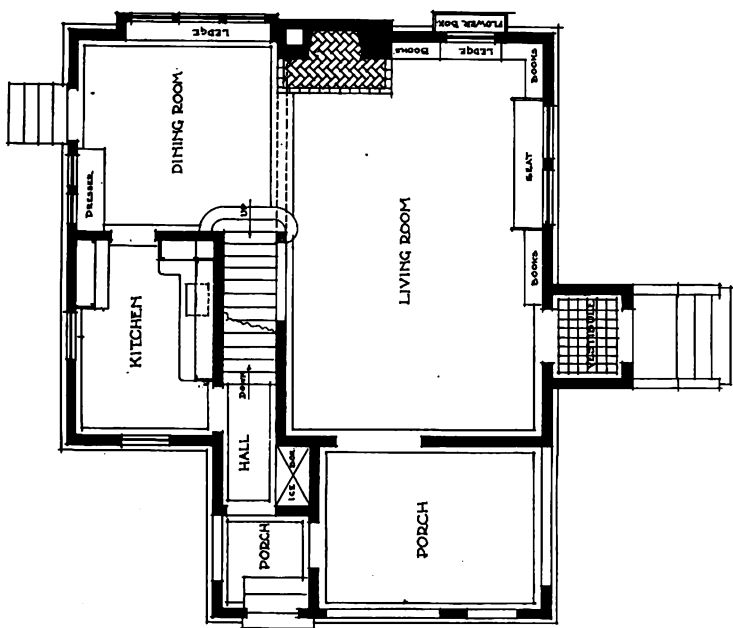


FRONT
RESIDENCE OF CHARLES FARNARD, LAKE FOREST, ILLINOIS
HOWARD VAN DOREN SHAW, ARCHITECT, CHICAGO

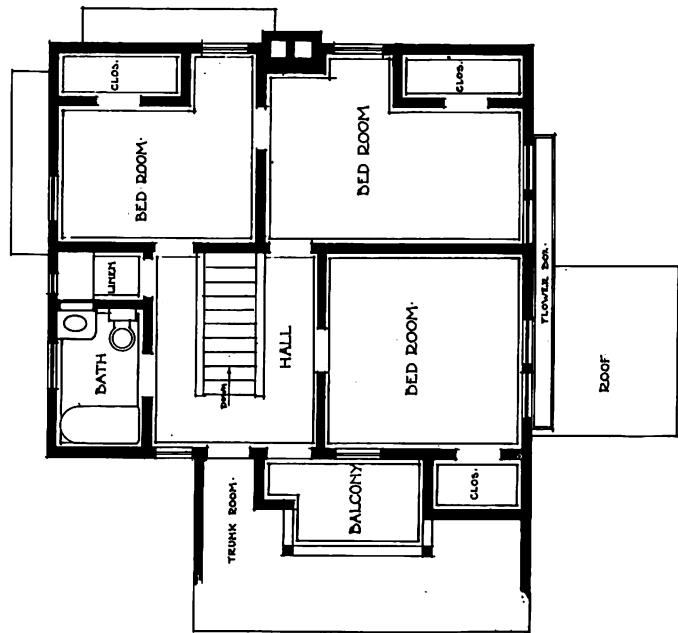
THE WESTERN ARCHITECT
FEBRUARY
1910



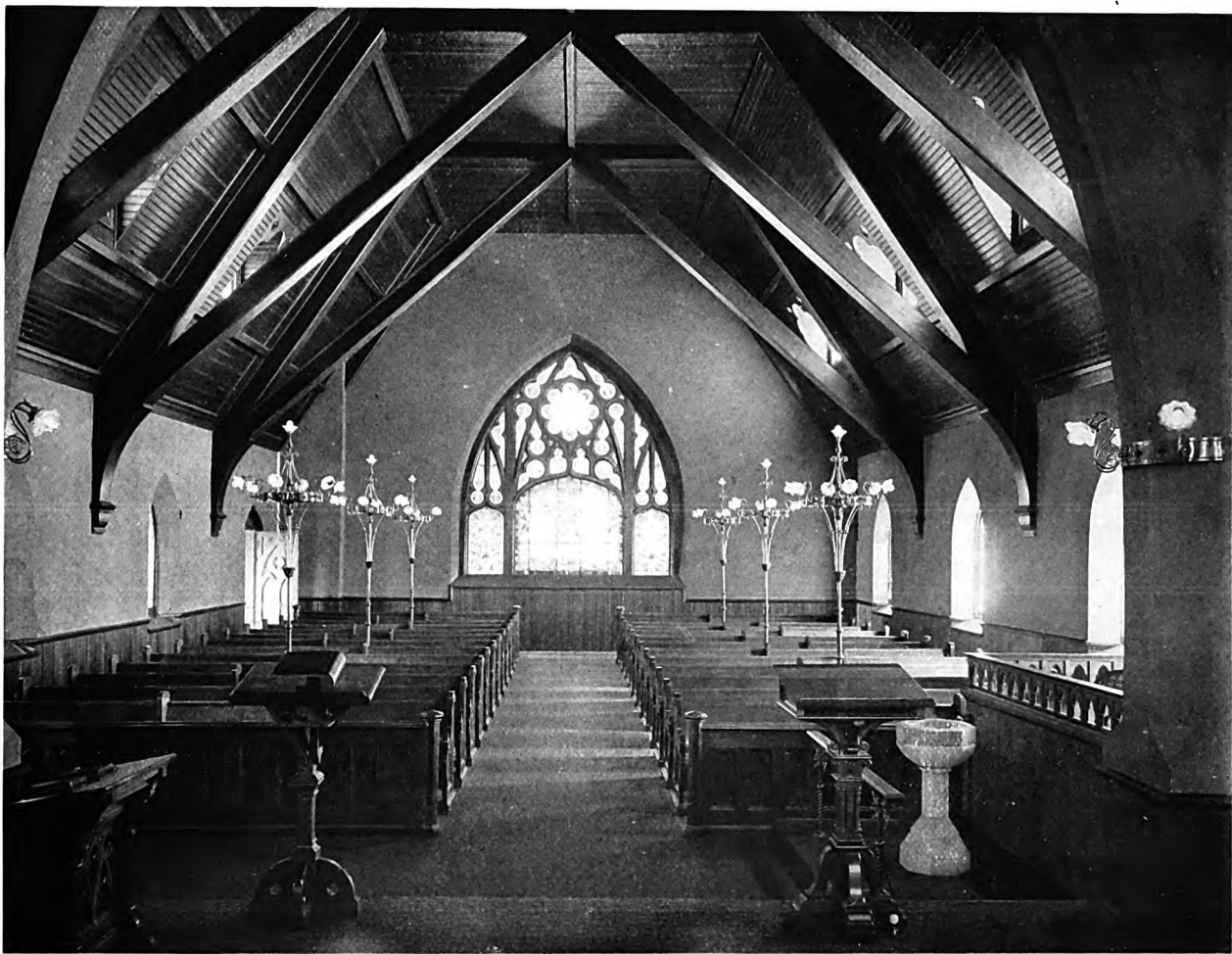
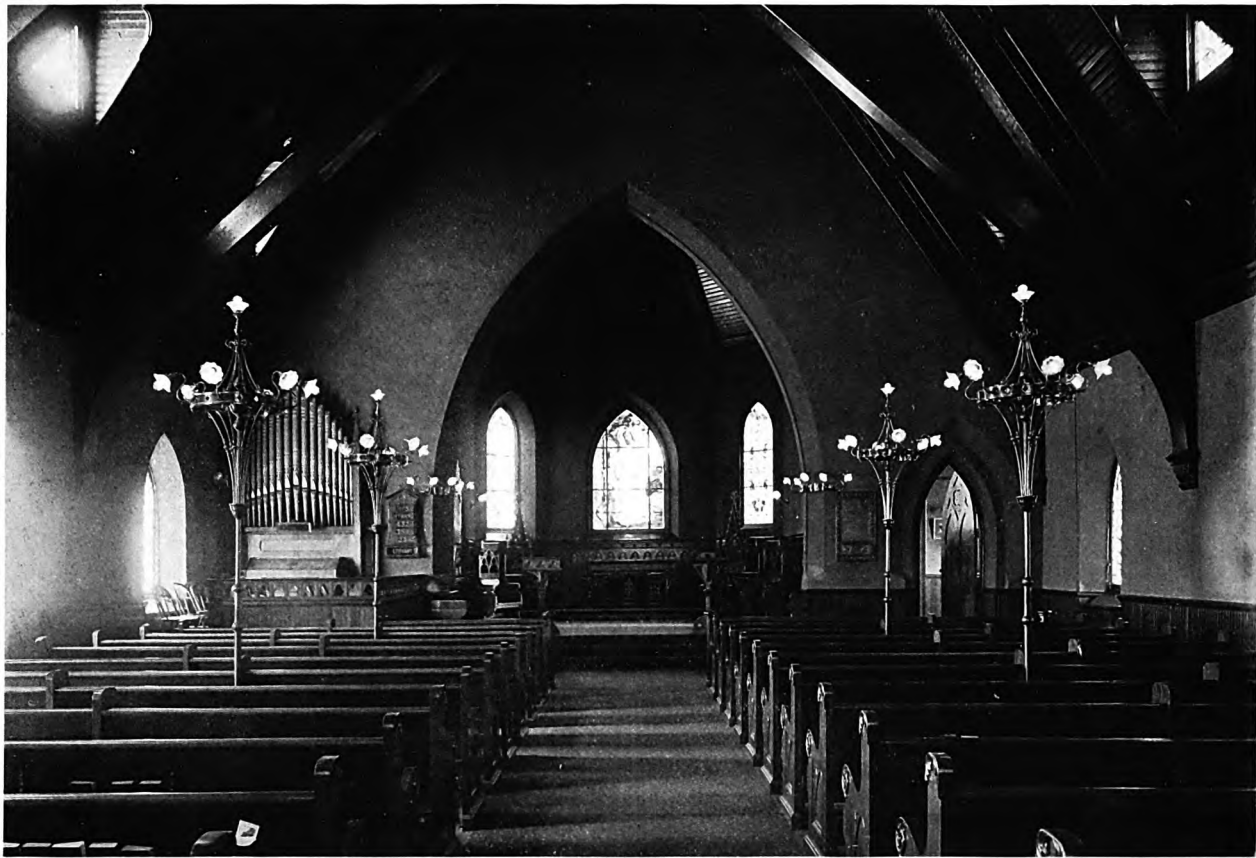
RESIDENCE AT MINNEAPOLIS
A. R. VAN DYCK, ARCHITECT



FIRST FLOOR PLAN



SECOND FLOOR PLAN



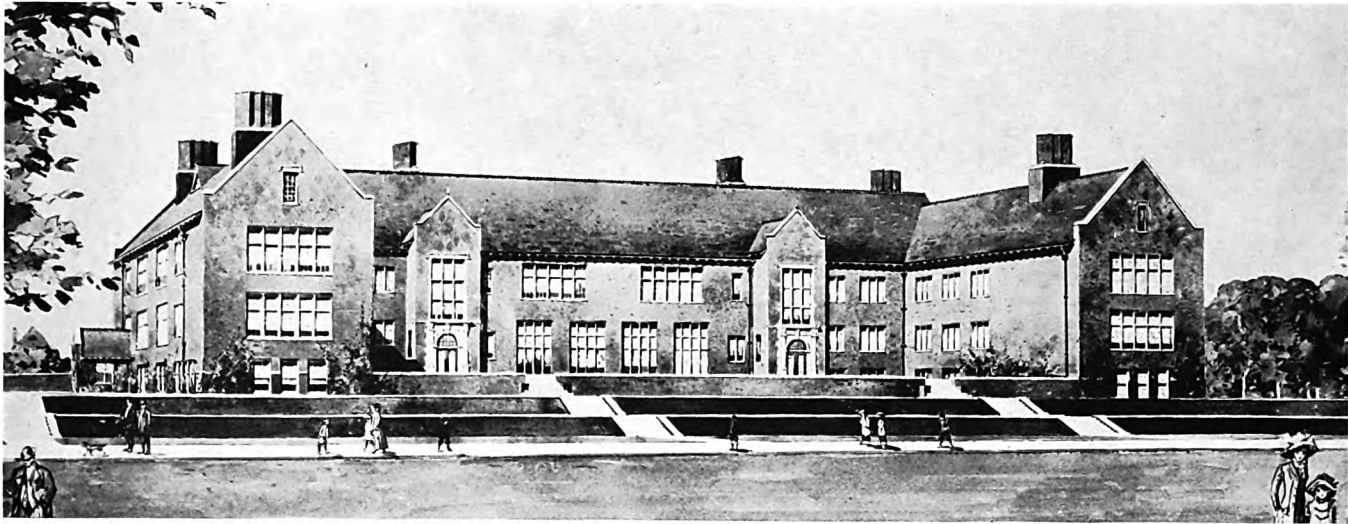
WESTERN ARCHITECT
MARCH
1911

EPISCOPAL CHAPEL, CORONADO BEACH, CALIFORNIA
REID BROTHERS, ARCHITECTS, SAN FRANCISCO, CALIFORNIA

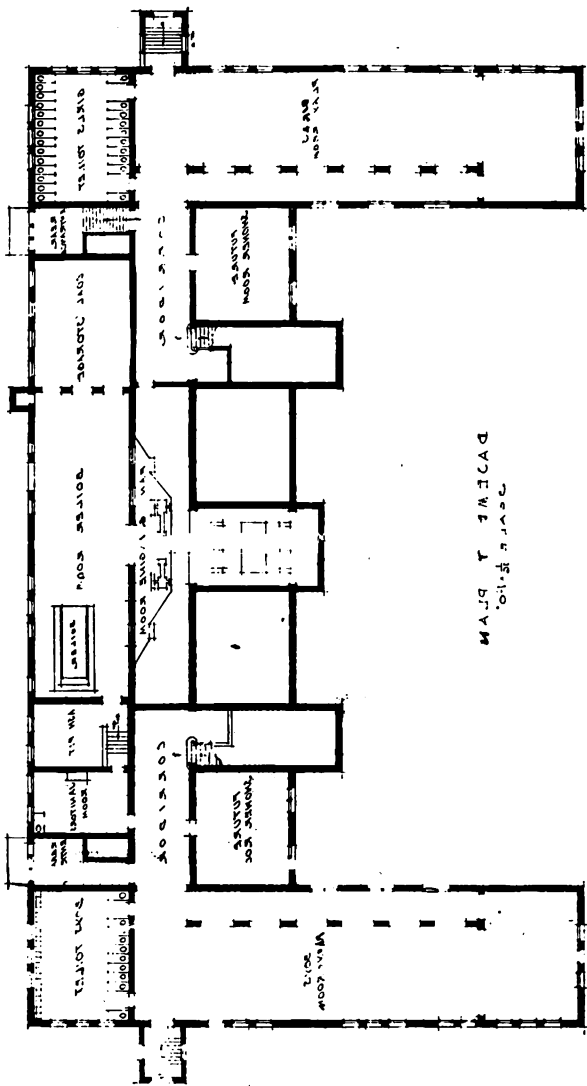


APARTMENT HOUSE BUILT ON A SIDE HILL, SAN FRANCISCO, CALIFORNIA
STONE AND SMITH, ARCHITECTS

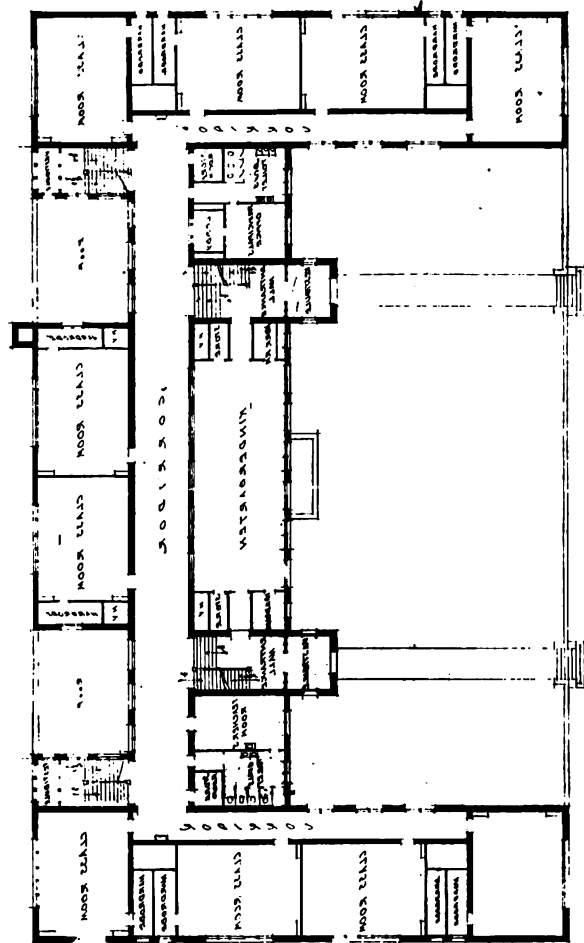
THE WESTERN ARCHITECT
MARCH
1911



PRELIMINARY DRAWING



BASEMENT PLAN



FIRST FLOOR PLAN

THE WESTERN ARCHITECT
OCTOBER
1910

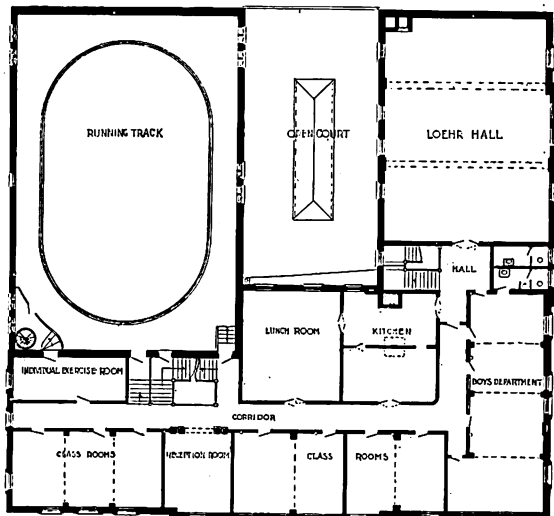
NEW ASHLAND SCHOOL, ST. LOUIS, MISSOURI.

WILLIAM B. ITTNER, ARCHITECT.

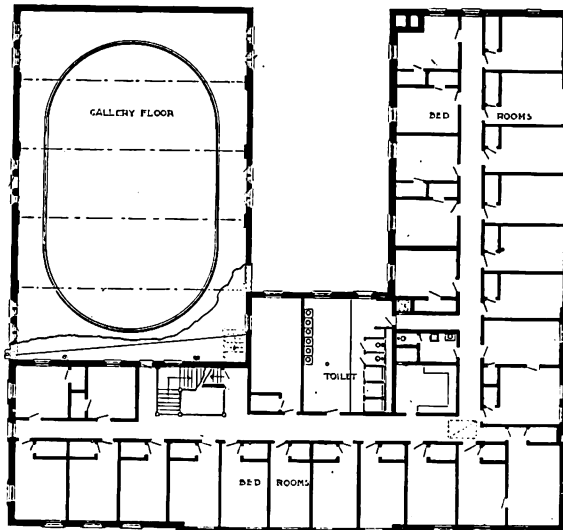


REAR VIEW
ST. LOUIS COUNTY COURTHOUSE, DULUTH, MINNESOTA
D. H. BURNHAM AND COMPANY, ARCHITECTS, CHICAGO

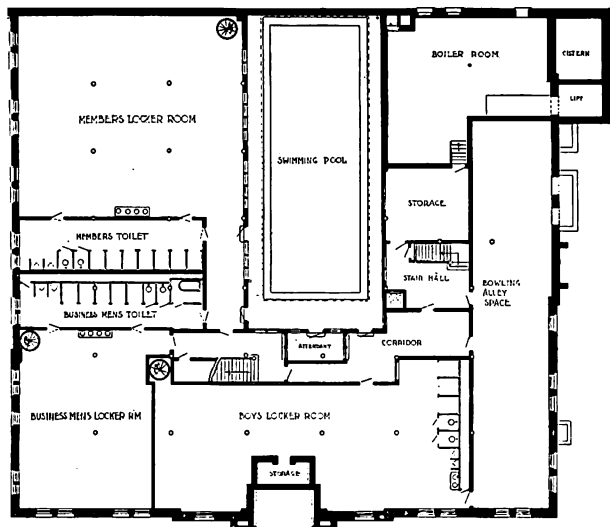
THE WESTERN ARCHITECT
JANUARY
1910



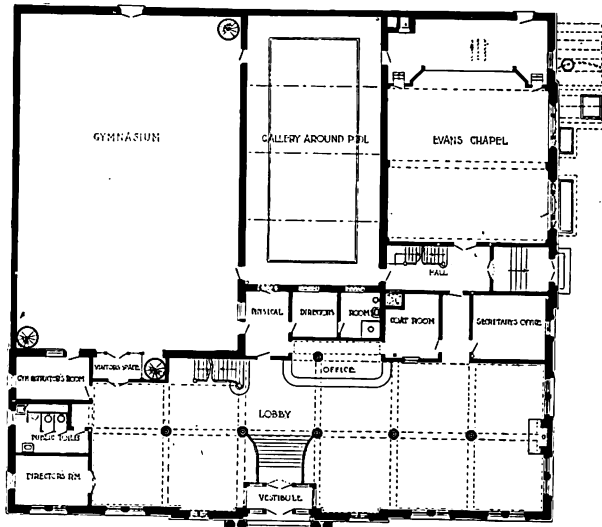
SECOND FLOOR PLAN



THIRD FLOOR PLAN



BASEMENT PLAN

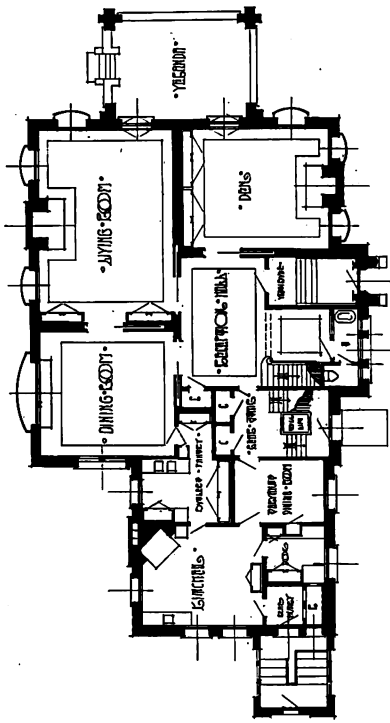


FIRST FLOOR PLAN

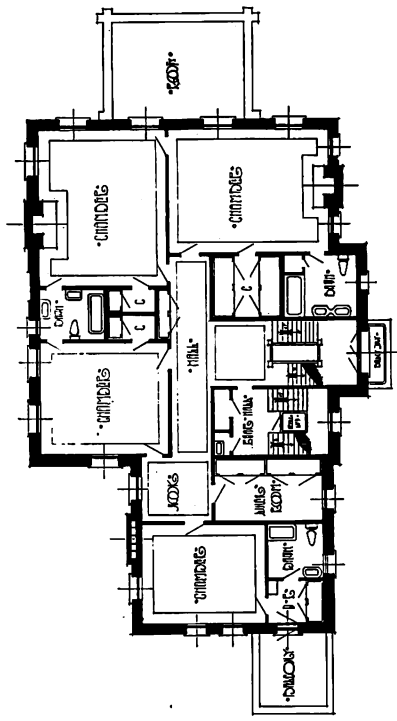


THE WESTERN ARCHITECT
MARCH
1909

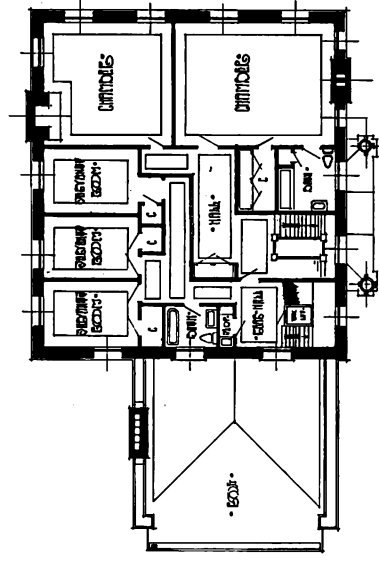
Y. M. C. A. BUILDING, BLOOMINGTON, ILLINOIS
ARTHUR L. PILLSBURY, ARCHITECT



FIRST FLOOR PLAN



SECOND FLOOR PLAN



THIRD FLOOR PLAN



RESIDENCE OF C. H. HUTCHINS, CHICAGO, ILLINOIS
HORATIO R. WILSON AND COMPANY, ARCHITECTS



GARDEN VIEW
RESIDENCE OF MR. JULIUS ROSENWALD, CHICAGO, ILLINOIS
NIMMONS AND FELLOWS, ARCHITECTS

THE WESTERN ARCHITECT
JANUARY
1910

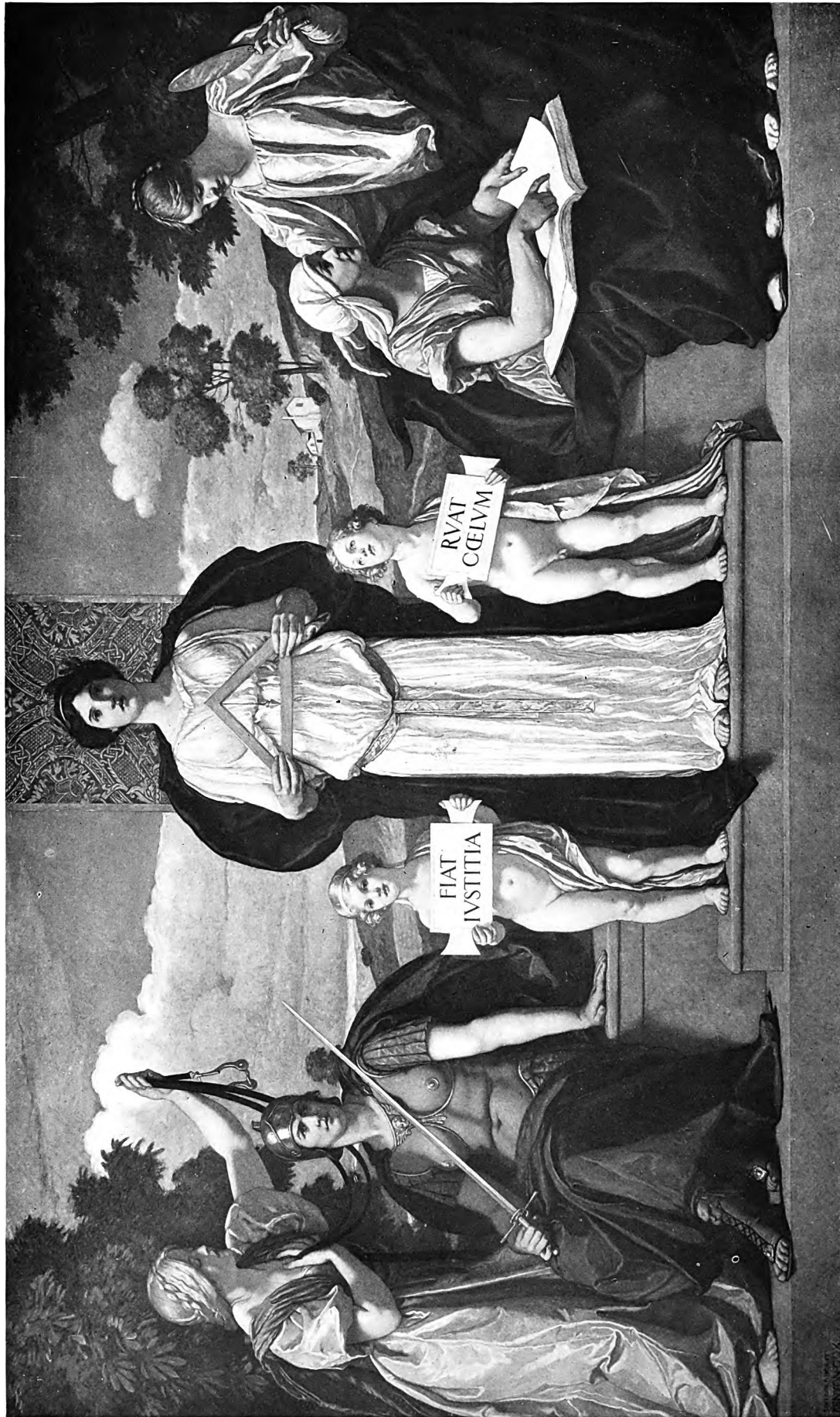


Photo by Peter A. Juley, New York

THE WESTERN ARCHITECT
OCTOBER
1908

THE JUDICIAL VIRTUES

ONE OF FOUR DECORATIVE PANELS OVER JUDGE'S DESK IN LUZERNE COUNTY COURT HOUSE, WILKES-BARRE, PENNSYLVANIA

By KENTON COX, NEW YORK

MCCORMICK AND FRENCH, ARCHITECTS

Copyright 1909 by Kenyon Cox

WOLFF PLUMBING GOODS



The New Northwestern Passenger Terminal Station, Chicago

Frost & Granger, Architects
Chicago

Geo. A. Fuller Company
Builders

All the Plumbing Fixtures in this building
were manufactured and furnished by us

L. WOLFF MANUFACTURING CO.

ESTABLISHED 1855

Manufacturers of

Plumbing Goods Exclusively

The only complete line made by any one firm

Denver

General Offices, 601 to 627 West Lake St.

CHICAGO

Showrooms, 91 Dearborn Street

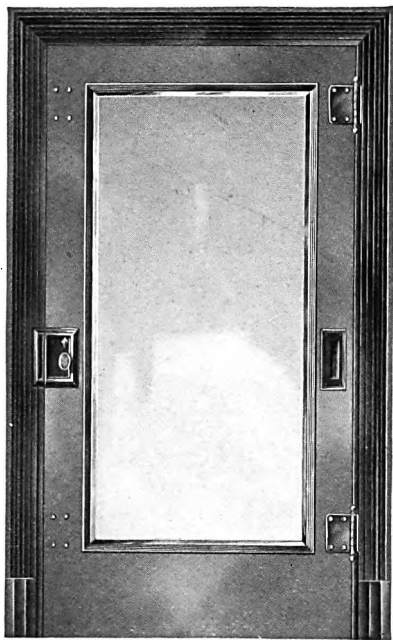
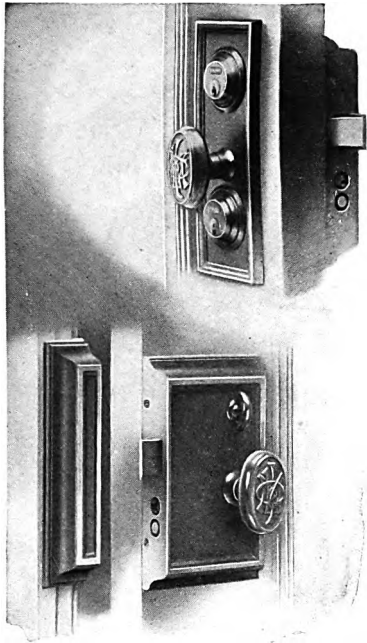
Trenton

St. Louis, Mo., 2210-2212 Pine Street
Minneapolis, Minn., 615 Northwestern Bldg.
Cleveland, Ohio, Builders Exchange
Kansas City, Mo., 1204 Scarrett Bldg.

**BRANCH
OFFICES**

San Francisco, Cal., Monadnock Bldg.
Omaha, Neb., 1116-1118 Douglas St.
Washington, D. C., 327-328 Bond Bldg.
Buffalo, N. Y., 61 Manchester Place

The Yale Turret Lock for Metal Doors



Metal fire-proof doors, with or without wood cores, present entirely new lock-fitting problems.

Yale Turret Locks, embodying all those features of security, design and workmanship which have made the Yale Lock famous, meet every condition imposed by the metal door.

In either hollow or wooden-cored doors, the lock-case, escutcheon plate and the Yale cylinders, are so fastened to the turret, which is first fitted into the door, as to make all fastenings absolutely inaccessible except from the inside of the door.

Yale Turret Locks are made for outside, corridor, closet and communicating doors, and strikes to meet varying forms of architraves are adapted to be fastened with concealed screws. Door Hinges and Letter Hole Plates for metal doors to match.

We are glad to send anyone interested the little Yale book about Yale Turret Locks and Hardware for Metal Doors.

The Yale & Towne Mfg. Co.

Exhibit Rooms:
251 Fifth Ave., New York

Makers of Yale Products
Locks, Padlocks, Builders' Hardware,
Door Checks and Chain Hoists

General Offices:
9 Murray St., New York

Local Offices: Chicago Philadelphia Boston San Francisco

STORY OF YELLOW PINE

CHAPTER X

YELLOW PINE FOR CHURCH TRIM



IN Church decoration, where the simple forms of undecorated inside trim are used, especially the plain panel and heavy timber effect, Yellow Pine has properly compelled a place for itself. In Church trim, simplicity, strength and durability—the three qualities for which Yellow Pine has become renowned—are most desirable. Add to these the beauty of grain which belongs to

Yellow Pine by nature, and the discriminating architect finds that in specifying Yellow Pine he has procured the most varied and the most harmonious effects, the wood responding as no other to the treatment of stain and varnish. The solid effects most desired in interior Church work, are never as successful if they are built up in imitation, for they cannot conceal their true character. This is another reason why Yellow Pine is especially successful in interior Church trim.

Standard Classification and Grading Rules for Yellow Pine
furnished upon application

*Suite 707
Wright Building*

**YELLOW PINE
MANUFACTURER'S
ASSOCIATION**

*Saint Louis
Missouri*

Barrett Specification Roofs



Longest Wear for Lowest Cost

THE cost *per year of service* is the only true test of a roofing.

It discloses the absolute superiority of Barrett Specification Roofs. That is why on large manufacturing plants where costs are carefully computed, such roofs are almost invariably used.

Barrett Specification Roofs are inexpensive, costing much less than tin for instance, and little more than the best grade of ready roofings.

And their cost of maintenance is nothing, for they require no painting; they can't rust, and they will give satisfactory protection for 20 years or more.

Insurance underwriters classify these roofs

as "slow burning" construction acceptable on "fire-proof" buildings.

Barrett Specification Roofs are immune from damage by acid fumes.

They are used extensively on railroad round houses. On cotton mills, with their humid interiors, these roofs give perfect satisfaction for dampness does not effect them from below.

The Barrett Specification Roof illustrated above is 50,000 square feet in area and covers the Round House of the Vandalia Lines (Penn. System) at Terre Haute, Ind.

We will be glad to supply a copy of The Barrett specification on request to anyone interested in the subject. Address nearest office.

Protect Wooden Lower Floors Against Decay

There is a wide demand for floors with a wooden wearing service that can be laid directly on the ground without air space beneath, and without danger of decay. This is supplied in Barrett's Tar Rok Sub-Floor construction, a great improvement over the laying of wooden floors on cement concrete. (*Timbers laid in cement concrete decay almost as quickly as if laid on the ground.*) Booklet on request.

BARRETT MANUFACTURING COMPANY

New York
Cincinnati

Chicago
Pittsburg

Philadelphia
Minneapolis

Boston
Kansas City

St. Louis
New Orleans

Cleveland
Seattle

London, Eng.



PUBLISHER'S DEPARTMENT



PUBLISHED BY
THE WESTERN ARCHITECT
(INCORPORATED)

WALTER N. CARROLL, President and Counsel
EDWARD A. PURDY, Vice-President and Treas.

PUBLICATION OFFICE

The Palace Building [Suite 735] Minneapolis, Minn.

Subscriptions in United States, mailed flat, \$5.00 a year, strictly in advance. Foreign, and Canada, \$6.00.

Note.—A subscription is held to be in force until a definite order to discontinue is received from the subscriber, accompanied by payment of all arrears.

Subscribers who do not send subscriptions direct to this office are warned not to pay other than agents who can show credentials signed by the publishers of The Western Architect.

Remittances for Subscription and advertising may be made by check, bank draft, express or postoffice order, always payable to Treasurer Western Architect, 735 Palace Building, Minneapolis, Minn.

Advertising Rates made known on application.

Entered at the postoffice in Minneapolis as second-class matter.

DEPARTMENT FOR ARCHITECTS AND DRAUGHTSMEN
DRAUGHTSMEN DESIRING POSITIONS AND ARCHITECTS WANTING TO ENGAGE
DRAUGHTSMEN MAY HAVE THE USE OF SPACE IN THIS COLUMN AT ONE-
HALF OUR REGULAR ADVERTISING RATES.

OF INTEREST TO ARCHITECTS

Herbert Foltz and Wilson Parker of Indianapolis beg to announce the termination by mutual agreement of the partnership known as Foltz and Parker, Architects. After November 1st, Mr. Foltz will occupy offices at 1108 Indiana Pythian Building and Mr. Parker at 713 Traction Terminal Building.

PROMINENT FIRMS TAKE PART IN ERECTION OF ST. MARKS CHURCH

Edwin H. Hewitt, of Minneapolis, is the architect. Pike & Cook were the general contractors. The cut stone was furnished by the Wm. Penn Cut Stone Co., and the artificial stone work for ribs and sills about the windows inside and out was furnished by the National Stone Manufacturing Co., and compares so well with the natural stone that it is practically impossible to discern any difference. Charles Wilkins & Co. did the heating and plumbing work. The Pierson-Wilcox Electric Co. did the wiring. The brick for the finished portion of the interior was St. Louis pressed brick furnished by the Hydraulic Press-Brick Co. The ceiling tile was also from the Hydraulic Press-Brick Co. The ceiling work was all laid by the Gustavino Construction Co. The rough tile for backing was made by the National Fireproofing Co., Chicago, and furnished through the Johnson, Jackson & Corning Co. The roofing and sheet metal work was done by the Northwestern Roofing, Cornice & Stamping Works. The slate work was part black Bangor and part Matthews green, furnished by the Johnson, Jackson & Corning Co. The steel and iron work was from the Minneapolis Steel & Machinery Co. The iron fixtures, lamps, etc., were from the Chicago Gas & Electric Co. The general millwork was from Smith & Wyman. The furniture in the choir and sanctuary was from Irving & Casson of Boston. The pulpit is from Wm. Ross, of Cambridgeport, Mass. The pews are from the Minneapolis Office & School Furniture Co., and the cushions from

Sperry & Beale Co., Brooklyn. The leaded glass is from the Pittsburgh Plate Glass Co. The great east window, still to come, is by the Gorham Co., of New York. The pointing and cleaning work was by J. P. Olson. The Rockville granite was from the C. H. Young Co., St. Paul. The grading and plant-work was by S. J. Groves & Son. The artificial stone work around the church is by the Andrews Paving Co. The tile work was furnished by the Northwestern Marble & Tile Co. The wood tracery screens around the organ was by J. S. Bradstreet & Co. The organ was rebuilt and enlarged by John S. Hawkins, of Minneapolis. The hardware came from the Warner Hardware Co. The ornamental hinge plates for the outside doors are from V. P. Hollis, Minneapolis. The heating and ventilating plant was designed by Charles L. Pillsbury, engineer. The fans used are the Sirocco type of the American Blower Co.

19th EDITION OF HENDRICK'S COMMERCIAL REGISTER

The 19th annual Revised Edition of Hendricks' Commercial Register of the United States for Buyers and Sellers has just been issued. It is by far the most complete edition of this work we have so far published. The 18th edition required eighty-seven pages to index its contents, while the 19th edition requires just one hundred pages, or thirteen additional pages. As there are upwards of four hundred classifications on each page, the thirteen additional pages represent the manufacturers of over five thousand articles, none of which have appeared in any previous edition. The total number of classifications in our book is 35,481, each representing some machine, tool, specialty or material required in the architectural, engineering, mechanical, electrical, railroad, mine and kindred industries. The 18th edition numbered 1,220 pages, while the 19th edition numbers 1,344 or 124 additional pages. We also omitted one hundred and fourteen pages of matter from the new edition that appeared in the 18th edition. This makes a total of two hundred and thirty-eight pages of new matter. The whole representing upwards of 350,000 names and addresses. An important feature of our Commercial Register is the simplicity of its classifications. They are so arranged that the book can be used for either purchasing or mailing purposes. As an illustration—we first classify all manufacturers of a particular trade under a general heading for mailing purposes, we then sub-divide each firm or corporation under as many classifications as every variety of their products call for. By this system of compiling, our book is made of equal value for either the purchasing or sales departments. No other publication embodies these features.

Again, the value of our Commercial Register for Purchasing purposes is not confined to its complete classifications alone, it also gives much information following the names of thousands of firms that is of great assistance to the buyer, and saves the expense of writing to a number of firms for the particular article required. This latter information is also not found in any other similar publication. We also include the trade names of all articles classified in our book as far as they can be secured. These trade names appear in parenthesis between the names and addresses under the classifications where they appear. The book is revised, improved and issued annually and has been since 1891. It is expressed to any part of the country on receipt of \$10.00 by S. E. Hendricks Co., Publishers, 74 Lafayette Street, New York.

YALE DOOR CHECKS

The Yale & Towne Mfg. Co., of New York and Stamford, Conn., have sent to this office a copy of a 40 page publication just off the press, which illustrates and describes their extensive line of door closing devices.

In addition to the well known Blount Check, made in six sizes and adapted to all sizes of doors and conditions of

use, the company has more recently put on the market three additional checks.

The Blount-Holder Check is similar to the original Blount Check but has the added feature that it not only shuts doors gently, but also holds them open as well.

The Yale Double-Acting Check is more ingenious; as the name implies, it closes double-acting doors; brings them to their normal position without a single flip-flap, and prevents the noisy, draughty, dangerous oscillations usual to doors with double-acting hinges.

The fourth device, their Yale Checking Floor Hinge, performs all the functions of the regular Blount Door Check. It is a combined spring and check in one and is placed in the floor under the door. Their Catalogue states that it is specially intended for use on butlers' pantry doors.

In the announcement of their catalogue they say a Door Check has been defined as "A device intended to curb the pernicious activity of a door spring by compelling it to behave decently." The fault of a door spring prompted the invention of a door check.

The book is carefully printed on coated paper with an abundance of wash drawings and reproductions of photographs. The cover is green with special hand lettering in black and yellow; all together the book is the most pretentious issued by any manufacturer in connection with door checks and presents by far the most extensive line in the market.

The excellent advertising suggestions which it gives for promoting the sale of checks (on pages 35 to 38 inclusive) are novel and interesting. These pages alone should make the book of much value to the hardware dealer.

ANNOUNCEMENT OF McCRUM-HOWELL CO.

In order that we might extend our sales organization to provide for the vacuum cleaning business, which promises to assume enormous proportions, and at the same time better serve the trade with boilers and radiators, we have taken over the business of the Model Heating Company, Philadelphia and New York; the Cameron-Schroth-Cameron Company, Chicago; The American Air Cleaning Company, Milwaukee, Wis.; The Vacuum Cleaner Company, New York, and the Sanitary Devices Mfg. Co., San Francisco.

With the increased selling organization, we will be able to serve the trade in better manner than was heretofore possible with each separate company; and we will also be able to quickly acquaint the entire heating and plumbing trade as well as the public with the possibilities and advantages of vacuum cleaning.

There will be no change in policy, and with all products in our own plants we will be able to give even better service than in the past.

THE McCRUM-HOWELL CO.,
L. G. McCrum, Pres.

CONCRETE WEATHER BULLETIN WITH EVERY SHIPMENT, ISSUED BY CHICAGO PORTLAND CEMENT CO.

Don't let the weather deceive you—the days are warm, but the nights and mornings are cold. Cold weather is not conducive to quick setting, and long time sets mean slow hardening, thus reducing the strength of the concrete for a considerable period. Mr. Contractor, as a precaution watch the weather—give your work ample protection, and—most important of all—heat the material and the water. This will insure satisfactory work.

ORGANIZATION OF THE OAKLAND ARCHITECTURAL CLUB

One of the latest architectural clubs to come into existence and one which seems to show much promise, is the Oakland Architectural Club. The administration of same will be along lines similar to other such clubs, including class-work, exhibitions, etc. Oakland appears to offer a good field owing to considerable architectural activity and the support as promised the Club would seem to assure its suc-

cess. The officers as elected are: President, Hart Wood; vice-president, E. B. Mead; secretary-treasurer, W. J. Wilkinson; directors, John Galen Howard, Louis C. Mulgardt, Oswald Spier and C. E. Richardson.

FOURTH EDITION OF KAHN SYSTEM STANDARDS

The 1910 edition of "Kahn System Standards" has just been received from the printer.

It contains a number of additions and revisions so as to include the best and most modern ideas on reinforced concrete designing and estimating, waterproofing, etc. The subject of "Waterproofing" has been completely rewritten and entire new sets of tables for Hooped Columns and Footing added. This publication also contains data on the various KAHN SYSTEM products for reinforced concrete, steel lath, fireproofing, steel windows, etc.

"Kahn System Standards" will be furnished free to practicing architects, engineers, contractors and builders. A charge of fifty cents is made to others.

"THE ARROW"

As clever and unique a little publication as it has ever been our pleasure to receive is "The Arrow." This little booklet is sent out each month by the N. & G. Taylor Company, of Philadelphia, manufacturers of the Reliable Target and Arrow Old Style Roofing Tin. The cover design of each number during the year has been especially attractive and the text is both spicy and instructive. Advertising managers would get many ideas from the versatile chap who has designed and written these good things.

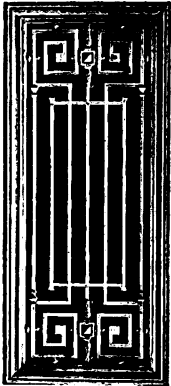
Architects will do well to have each number come to their desks regularly. The N. & G. Taylor Company will be glad to forward them upon request.

A unique booklet has just been issued by the Kellogg-Mackey Company illustrative of their Modern Improved Boiler for Steam or Hot Water. The booklet will be sent upon request to any architect.



NEW BUILDING OF ANCHOR STONE CO., MINNEAPOLIS

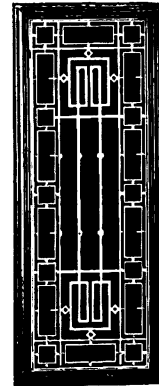
The above cut shows the new factory of the Anchor Stone Company, located at the corner of Lake and Lyndale in Minneapolis. The structure is 40x113, two stories and basement, and is equipped with every facility for carrying on the work. Mr. Adolph Johnson, the manager, has been making these trays for the past 20 years, with but little change in construction. Some of the later improvements include reinforcement at the points of greatest strain—also providing special grip for wringer. These tubs are shipped as far west as Seattle, as far north as Winnipeg, south to St. Louis, and east to West Virginia. Nothing has yet displaced them in popular favor, and they are in every way a safe tub to specify.



DOOR GRILLE
FARMERS & MECHANICS BANK
WM. M. KENVON
ARCHITECT



MAIN ENTRANCE
L. S. DONALDSON RESIDENCE, MINNEAPOLIS
KEES AND COLBURN, ARCHITECTS



DOOR GRILLE

MODERN USE OF ORNAMENTAL IRON AND BRONZE

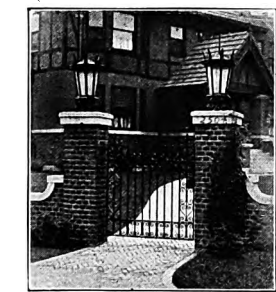
BY FREDERIC HASTINGS WALLIS

PRESIDENT OF THE AMERICAN ORNAMENTAL IRON AND BRONZE CO.

In the past decade wonderful advancement has been made in various crafts, and more evident than many is the work of the art metal worker. Since the seventeenth century, when the Dutch and French brought their work to North America, demand has caused great development in this line, and at this present day many skillful examples of ornamental iron and bronze adorn our

buildings, which show excellent execution in both forged and cast work. The accompanying illustrations show some recent work in this line.

The Marquise, or canopy, in the past few years has become quite prominent on our most elaborate buildings, and truly places quite a stunning importance to the architectural treatment. Grilles for entrances and openings, both for public buildings and private homes, have



ENTRANCE GATE
AND LAMPS

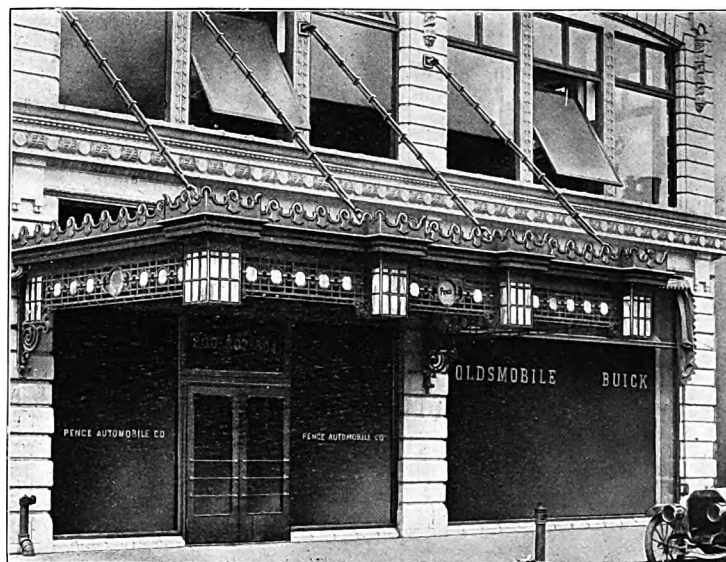
taken an important place to serve as an enrichment. Also one sees exquisite craftsmanship on gates, fences, lamps, stairs, railings and other work adjoining our public, commercial and private buildings.

Art metal work is not to be employed for cheapness, for a workman will labor many days to produce a correct form in metal, while with softer materials a few hours will bring the desired result.

The workshop for the modern execution of ornamental iron and bronze has numerous departments, such as the designing and drafting departments, modeling and wax-pattern depart-

ments, wood pattern shop, wrought iron, forging and fitting shop, iron foundry, brass and bronze foundry, fitting shop for cast metals besides several other minor departments.

The present methods of manufacture are quite different from the time of the old village blacksmith; however, the smith of today is a very important factor.



CANOPY
PENCE BUILDING, MINNEAPOLIS, MINNESOTA
LONG, LAMOREAUX AND LONG, ARCHITECTS

USE OF CONCRETE TO SECURE LANDSCAPE EFFECTS

As illustrated below, it is difficult to secure finer effects in bridge work than are obtained by the use of concrete. The reinforced material affords ample strength, and is at once very effective in the sweep of its arches, and the beauty



of its texture, while as artificial stone, it lends itself readily to any plan of adornment. Another noteworthy instance of successful treatment is found in the bridge erected on the banks of the Mississippi on the grounds of the Town and Country Club of St. Paul.

In the field of material used by the landscape architect, such as vases, urns and seats, the National Stone Manufacturing Company of Minneapolis has been developing some very beautiful patterns. Long experience enables this firm to turn out material that gives excellent satisfaction in the most severe climate, and to reproduce practically any design that may be desired.

PARQUET FLOORS

Parquet floors have been and doubtless for many years will be very popular with the architects when it comes to covering up an old pine floor, or any floor which may have worn unevenly. The writer has in mind a small but well-lit bed-chamber, which became at once bright and cheerful when a parquet floor was laid in the same, and especially suitable to be used as a sewing room. Such a room was not only smoother and more sanitary, but it made a better background for rugs, and was vastly improved by this simple expedient. Many other rooms could be handled in the same way with profit. Nils C. Brunes, of Minneapolis, both manufactures and applies these floors and can give any desired information as to durability, appearance, patterns or costs. Architects desiring reliable information can secure it here.

DEATH OF PHILIP CORBIN

Mr. Philip Corbin, president of the American Hardware Corporation and founder of P. & F. Corbin, died at his home in New Britain, Conn., on Thursday, November 3, 1910, aged 86 years and 8 days.

In the social life of the community, Mr. Corbin took only such a part as a busy man of prominence can. He was a president of the New Britain Club and also of the Maple Hill Golf Club at times when his connection and influence were of value. The Young Men's Christian Association, the Children's Home, the hospitals and other institutions received both moral and financial support from him.

In Mr. Corbin's death, the world has sustained a loss, but it is richer because of his life, and the benefits have not ceased with the withdrawal of his visible presence. Omnipotence only can tell all places where his influence has been a blessing, or when the circles in the sea of events radiating from him shall have reached the farther shore. His death is a calamity, but it would have been an infinitely greater one had he never existed.

The Architect's Share

It has taken many years of careful planning, manufacturing and testing to develop the present heat producing efficiency of AMERICAN Radiators and IDEAL Boilers. It naturally follows that the architect who specifies an IDEAL - AMERICAN outfit shares the benefit of these years of careful development, through the approval and satisfaction of his client. Moreover, he provides the best possible "comfort insurance" for the occupants of the new building.

AMERICAN & IDEAL
RADIATORS & BOILERS

are the last word in heating economy. They save heavily in fuel, caretaking and absence of repairs; save fire risk to the building and do away with the distribution of destructive ash dust and injurious coal gases through the rooms. From every standpoint they are a profitable investment for any size or kind of building where warmth is required.



IDEAL Boilers and AMERICAN Radiators go hand-in-hand in producing the most uniform and satisfactory heating results with the least care and expense.

AMERICAN RADIATOR COMPANY

General Offices, 282-286 Michigan Ave., Chicago

New York
Boston
Philadelphia
Washington

Buffalo
Pittsburgh
Cincinnati
Atlanta

Birmingham
Cleveland
Detroit
Chicago

Milwaukee
Indianapolis
St. Louis
Minneapolis

Omaha
Kansas City
Denver
San Francisco

Seattle
Brantford, Ont.
London, W.
Brussels

Paris
Berlin
Dusseldorf
Milan



ENTRANCE GATES U. S. CUSTOM HOUSE, NEW YORK
CASS GILBERT, ARCHITECT

ORNAMENTAL IRON *and* BRONZE

FIREPROOF STAIRWAYS

BRONZE MEMORIAL
TABLETS

The
WINSLOW BROS.
COMPANY

NEW YORK

CHICAGO

LOS ANGELES

Selling Agents in all Principal Cities



John S. Bradstreet & Co.



327 South Seventh Street
Minneapolis, Minnesota

Established 1876

Among the many handsome theatres of this country, the new Shubert on Seventh Street takes its place as a notable one.

The decorations by John S. Bradstreet & Company have been much admired for their particularly successful adaption to the architectural scheme of this interior; the feeling of harmony being carried out in design and colors without a clashing note, from the bronze and gold of the walls and decorative plaster to the deep rose reds of the draperies. The artistic lighting fixtures, specially designed for this theatre, present another example of the enviable reputation the Bradstreet Company have attained in this later addition to the Craftshouse facilities for complete as well as artistic results.

Certain Things
every architect really ought to
know are:

U. S. G. Hard Plasters
Made from Pure Rock Gypsum

Universal
The "No-Lime" Finish

Sackett Plaster Board
Fireproof—"Instead of Lath"

Gypsinite
Fireproof—"Instead of Wood Studding"

Adamant Partition
Gypsinite Studding—Sackett Plaster Board

U. S. G. Bond Plaster
For Concrete

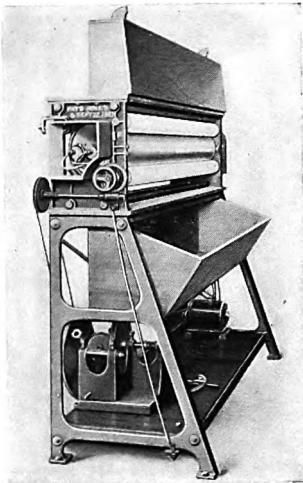
Adament (2-C)
Exterior Cement
(For Stucco Architecture)

Which of these interests you—now?
Let us give you full information.

Address our nearest office

UNITED STATES GYPSUM CO.
Chicago Cleveland New York Minneapolis San Francisco

ROGERS & CO.



Manufacturers
Jobbers and
Importers

**BLUE
PRINT
PAPERS**

**BLUE PRINT
MACHINES**

Architects' and Engineers'
Instruments and Supplies.

523 FIRST AVENUE SOUTH
MINNEAPOLIS, MINN.

To Architects and Builders

Specify our lumber, if
you want best results.
Quality in lumber
shows in building.

Good lumber will make
a more accurate, more
durable structure than
inferior stock.

We are equipped to
give the most prompt
and efficient service.
Our price is the low-
est consistent with good
grades and service.

Shevlin-Carpenter Lumber Co.

General Office 112 Lumber Exchange
Minneapolis, Minn.

N. W. Phone, Main 333
Tri-State Phone, 430

The Western Architect

VOLUME XVI

NUMBER 6

Contents December 1910

EDITORIAL	109
St. Marks Church—Death of John La Farge—The Louisiana License Law—The Architect's Commission	
ARTISTIC HOUSES OF SMALL COST IN MINNEAPOLIS, MINNESOTA	127
ST. MARKS CHURCH	125
Edwin H. Hewitt, Architect	

Illustrations

ST. MARKS CHURCH

MINNEAPOLIS, MINNESOTA. EDWIN H. HEWITT, ARCHITECT.

RESIDENCE

WALDEN, COUNTRY HOME OF WALTER D. DOUGLAS, DEEPHAVEN, MINNESOTA—HOWARD VAN DOREN SHAW, ARCHITECT.

BUSINESS BLOCK

MEYERS BLOCK, MINNEAPOLIS, MINNESOTA—WILLIAM M. KENYON, ARCHITECT.

THEATRE

SHUBERT THEATRE, MINNEAPOLIS, MINNESOTA—W. A. SWASEY, ARCHITECT, NEW YORK CITY.

RESIDENCE

OF PRESTON KING, MINNEAPOLIS, MINNESOTA—WILLIAM CHANNING WHITNEY, ARCHITECT.

RESIDENCE

OF J. S. BELL, FERNDALE, MINNESOTA—WILLIAM CHANNING WHITNEY, ARCHITECT.

ARTISTIC LOW COST RESIDENCES

BUNGALOW—JACOB STONE, JR. ARCHITECT.
RESIDENCE AND WORKING DETAILS—CARL GAGE, ARCHITECT.
RESIDENCE AND PLANS—A. R. VAN DYCK, ARCHITECT.
RESIDENCE AND PLANS—EDWIN H. HEWITT, ARCHITECT.
RESIDENCE—FRANK E. WALLACE, ARCHITECT.
RESIDENCE AND PLANS—A. L. DORR, ARCHITECT.
ST. DUSTAN'S, CANTERBURY, ENGLAND, AND PLANS—MESSRS. LOVEGROVE AND PAPWORTH, ARCHITECTS.

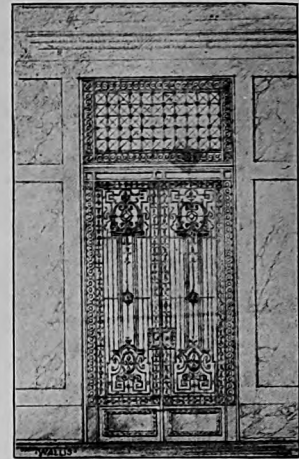


PLYMOUTH BUILDING, MINNEAPOLIS, MINN.

Long, Lamoreaux, Long, Architects

One of our Recent Contracts

John M. Ewen Co., Contractors



SKETCH OF ELEVATOR FRONTS, PLYMOUTH BLDG.

MANUFACTURERS OF RICH ORNAMENTAL
 METALS OF ALL KINDS
 DESIGNS AND ESTIMATES FURNISHED UPON
 REQUEST

WORK SOLICITED FROM ALL
 PARTS OF U. S. AND CANADA

AMERICAN ORNAMENTAL IRON & BRONZE CO.
 MINNEAPOLIS, MINN.

Chas. Wilkins & Co.

Heating, Ventilating and Plumbing

We Point with Pride to the Heating, Ventilating
 and Plumbing for the St. Marks Church

Perfect Ventilation our Specialty

610-612 Third Avenue South
 Minneapolis, Minnesota

Contents—Continued

EDWIN H. HEWITT	Church
HOWARD VAN DOREN SHAW	Country Home
WILLIAM M. KENYON	Business Block
W. A. SWASEY	Theatre
WILLIAM CHANNING WHITNEY	Residence
JACOB STONE, JR.	Bungalow
CARL GAGE	Low Cost Residence
A. R. VAN DYCK	Low Cost Residence
EDWIN H. HEWITT	Low Cost Residence
FRANK E. WALLACE	Low Cost Residence
A. L. DORR	Low Cost Residence
LOVEGROVE AND PAPWORTH	St. Dunstan's



NEPONSET BUILDING PAPERS IN WHITE HOUSE, WASHINGTON, D. C.

To Keep Out the Dampness and Drafts Every Year the Building Stands

is the purpose of Building Paper. And it is even more necessary as the structure grows older and offers less protection against the weather.

If the building paper is not going to do this, it might almost as well be left out altogether. The building paper which is absolutely waterproof and airtight and which twenty-five years of use have proven permanent is

NEPONSET BLACK WATERPROOF BUILDING PAPER

Other BIRD **NEPONSET** PRODUCTS are **NEPONSET** FLORIAN SOUND DEADENING FELT; **NEPONSET** PROSLATE ROOFING for residences, bungalows, etc.; **NEPONSET** PAROID ROOFING for farm and industrial buildings.

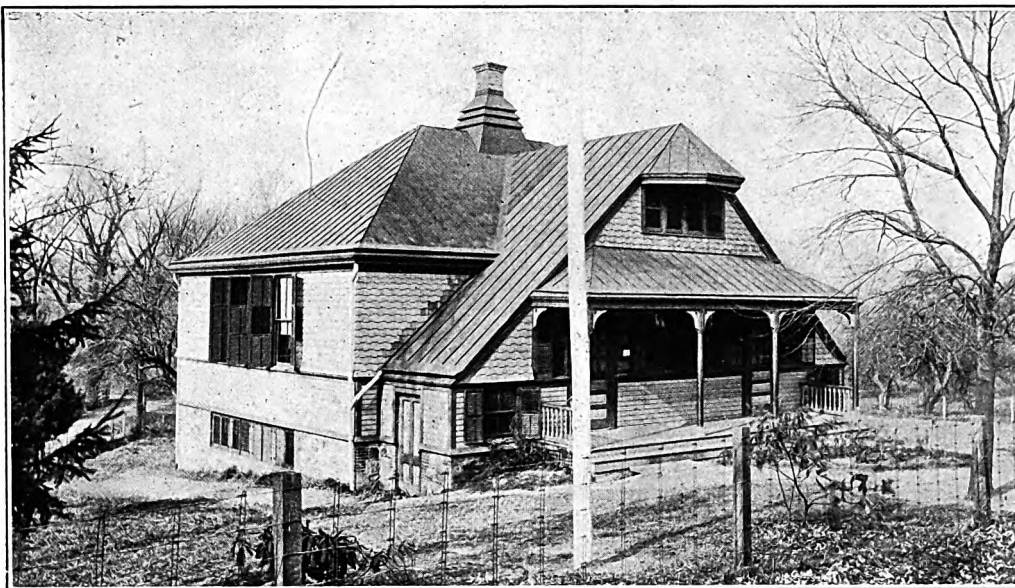


In Roofing, House Insulation and Waterproofing Work, Remember that Our Engineering and Consulting Department Will Be Glad to Co-operate With You.

F. W. BIRD & SON Main Mills and General Offices **East Walpole, Mass.**
ESTABLISHED 1795

New York Washington Chicago Portland, Ore. San Francisco
Canadian Factory and Offices, Hamilton, Ont., Winnipeg, Montreal, St. John

TRADE MARK
REG. U. S. PAT. OFF.



“Target and Arrow” Roofing Tin used to cover the Sleepy Hollow School at Tarrytown, N. Y.

This historic building now has a roof that is proof against fire, lightning, and all attacks of the weather.

“TARGET AND ARROW” tin, made by our exclusive process—the “full-seven-open-pot, palm-oil hand-dipping stack”—is today the same durable quality we have supplied to the American sheet-metal roofing trade for more than fifty years.

The durability of this plate has been established by the only sure test—the test of

time. Roofs of this heavily-coated, hand-made tin are found in as good condition after forty and fifty years’ service, as when first put on. Its constant use by architects for roofing permanent buildings of the highest type, as well as for less pretentious structures—like this little schoolhouse—indicates its adaptability as a roofing material.

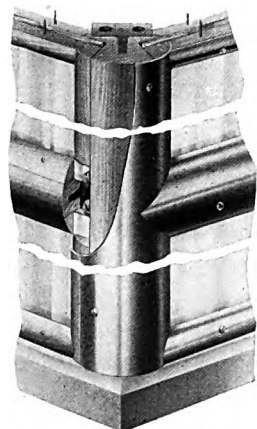
It is made at our Philadelphia works by the slow, thorough method formerly employed at our works in Wales.

Numerous stocks of this tin are carried at principal distributing points in all parts of the United States. No locality is far from a source of supply. Made in three thicknesses, 1C, IX and IXX—durability the same in each case, the difference being in the base plate only.

Full technical information, including standard specifications for architects’ use will be sent upon request.

N. & G. TAYLOR COMPANY OF PHILADELPHIA

HEADQUARTERS FOR GOOD ROOFING TIN SINCE 1810



The Coulson Patent Store Front Construction

Is the very best. You will be convinced of this after the first trial. Don't experiment, but specify, “COULSON STORE FRONT CONSTRUCTION” to be used, and you will have the most practical and neatest appearing store fronts obtainable.. Write for catalog E400.

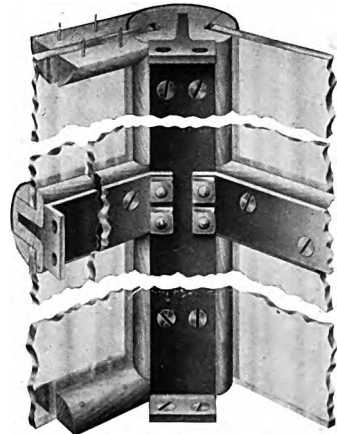
Briefly described in Sweets', Pages 663-666.

J. W. COULSON & CO.

SOLE OWNERS AND MANUFACTURERS

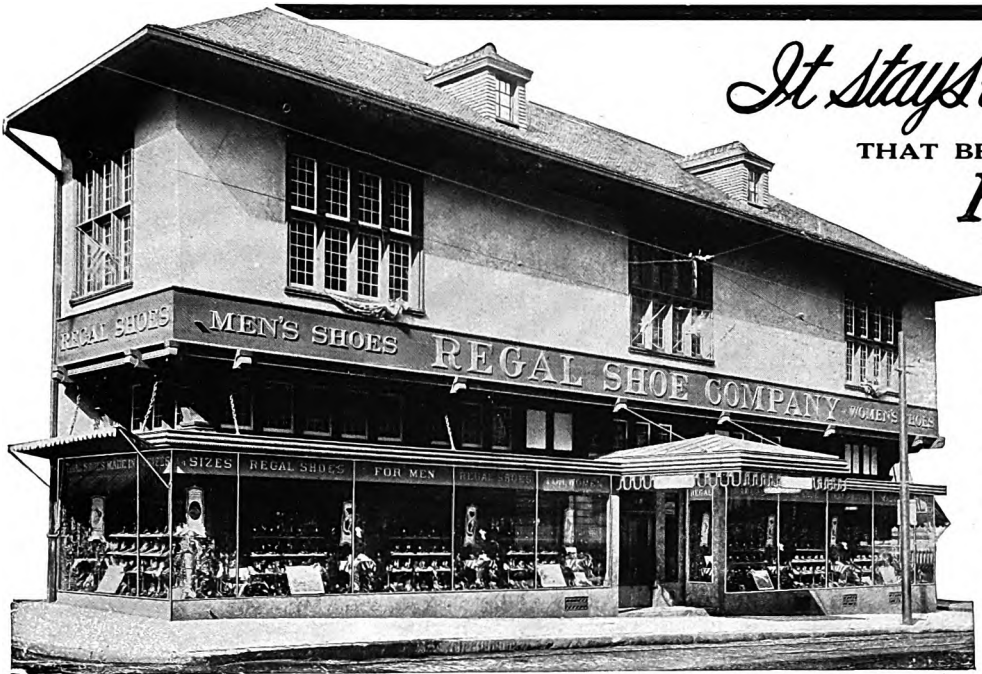
Main Office—234 North Third Street

COLUMBUS, OHIO



—Front View

Rear View—



It stays and pays

THAT BRIEFLY DESCRIBES THE

Kawneer System

of Store Fronts

It is a complete store front construction from sidewalk to "I" beam—not merely a corner and division bar, but **complete**.

All plate and prism glass is set in sash No. 30, which properly protects the edges and regulates the ventilation and drainage. It thoroughly ventilates in winter and is absolutely dust-tight in summer. That is but one feature found **only** in the Kawneer System.

No wood exposed, and only solid copper, brass, bronze and aluminum

used—that means absolute permanency with no repair or painting expense. It lasts as long as the building itself.

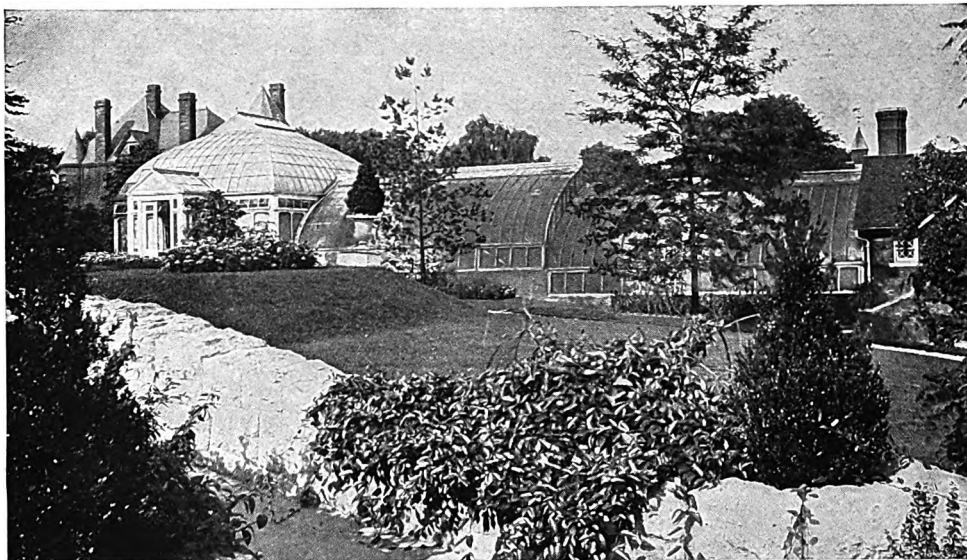
Kawneer material is easily adapted to your original designs of store fronts and adds materially to the efficiency as well as the general attractiveness. Kawneer standard or special cold rolled and drawn mouldings will be of great value to you in carrying out the lines and ideas you have designed.

Branch Offices
in 28 of the Larger Cities
in the United States
and Canada

KAWNEER MFG. COMPANY
FACTORY AND GENERAL OFFICES
NILES, MICHIGAN

Your client will appreciate a store front construction that will "bring home" returns on the investment.

For a plain description of the Kawneer System send for Booklet No. 5.



Greenhouses

We have just published a 100 page catalog containing fully 500 greenhouse illustrations.

It will be particularly interesting and valuable to you. Send for it.

Lord and Burnham Company

New York
St. James Building

Boston
Tremont Building

Philadelphia
Heed Building

Chicago
The Rookery



Steel
Rolling
Fireproof
Doors
and
Shutters

~
Wood
Rolling
Doors and
Partitions

THE KINNEAR MFG. CO.
COLUMBUS, OHIO, U. S. A.

BOSTON PHILADELPHIA CHICAGO
85 Water Street 1011 Chestnut Street 1212 Corn Ex. Bank Bldg.



**Harmonious
Hardware**

Few Architects care to put their clients to the expense of Hardware made to order.

Yale & Towne Ornamental Hardware covers almost every School and Period of Ornament, and does not have to be made to order,—the patterns have all been executed.

We can supply it within a very short time.

We have a book showing all the patterns which is at your service if you'll ask for it.

W. K. Morison & Co.

247-249 Nicollet Ave., Minneapolis, Minn.



Remarkable strength of United Steel Sash. Eight men are balanced on the ventilator.

Fireproof Windows for Factories

United Steel Sashes cannot burn or rot—stop the spread of fire—do not wear out. Give increased light to your buildings; reduce your fire risks and are more economical than wood sash. Be sure to investigate these important advantages of the

United Steel SASH

Strength—The special rolled steel sections are unusually deep and the joints are not weakened by punching or cutting away.

Weatherproofness—A continuous double contact around the ventilator, effectively shuts out the draft and rain. Note that the ventilators are full width of each unit.

Maximum Daylight—The deep, narrow sections offer practically no obstruction to the light.

Glazing—Our special spring clips greatly reduce the cost of glazing by doing away with the use of troublesome iron pins.

Re-glazing—By using these special clips, the putty does not have to be removed from the surrounding lights, as is the case where iron pins are used,

Workmanship—United Steel Sashes are machine built, with multiple dies operated by powerful presses, producing a sash of absolute accuracy, uniform finish, and attractive appearance.

Size of Glass—Sashes are made to receive glass 10, 11, 12, 13, 14 and 15 inches wide, and from 16 to 30 inches in height.

Send for United Steel Sash Catalogue, estimates, etc.

Trussed Concrete Steel Company

745 Trussed Concrete Bldg.
DETROIT, MICH.

Are you interested in Fireproof Construction? Investigate the **KAHN SYSTEM OF REINFORCED CONCRETE**



At the New York Cement Show, December 14 to 20 (Spaces 273, 274 and 275).

The Western Architect

A NATIONAL JOURNAL OF ARCHITECTURE AND ALLIED ARTS, PUBLISHED MONTHLY

VOLUME 16

DECEMBER 1910

No. 6

The Western Architect

PUBLISHED MONTHLY AT MINNEAPOLIS, MINN.

BY

THE WESTERN ARCHITECT
(INCORPORATED)

American Institute of Architects

(ORGANIZED 1857)

OFFICERS FOR 1910:

PRESIDENT	IRVING K. POND, Chicago.
FIRST VICE-PRESIDENT	WALTER COOK, New York.
SECOND VICE-PRESIDENT	EDGAR V. SEELER, Philadelphia.
SECRETARY AND TREASURER	*GLENN BROWN, Washington, D. C.
AUDITORS	JAMES G. HILL, Washington, D. C. ROBERT STEAD, Washington, D. C.

BOARD OF DIRECTORS FOR 1910.

For Three Years—Cass Gilbert, New York; Ralph Adams Cram, Boston; John Galen Howard, San Francisco.

For Two Years — Frank C. Baldwin, Detroit, Mich.; *S. B. P. Trowbridge, New York, N. Y.; John M. Carrere, New York, N. Y.

For One Year — Frank Miles Day, Philadelphia; R. Clipston Sturgis, Boston, Mass.; George Cary, Buffalo, N. Y.

*Executive Committee

Architectural League of America

(ORGANIZED 1899)

PRESIDENT, FRANK C. BALDWIN, DETROIT, MICH.	
PERMANENT SECRETARY, H. S. McALLISTER, WASHINGTON, D. C.	
Arch'l Society of Washington U. of St.L.	Chicago Architectural Club.
Boston Architectural Club	St. Louis Architectural Club.
Gargoyle Society of Cornell U.	Washington Architectural Club.
George Washington U. Arch'l Club	Architect's Club, U. of Illinois.
T Square Club, Philadelphia.	Topiarian of Harvard.
Cleveland Architectural Club.	National Society of Mural Painters.
Toronto Architectural Club.	Detroit Architectural Club.
	Pittsburg Architectural Club.

STANDING COMMITTEES

Chairman—Education,	Newton A. Wells, Urbana, Ill.
Chairman—Publicity and Promotion,	Jesse V. Watson, St. Louis, Mo.
Chairman—University Fellowship,	Emil Lorch, Ann Arbor, Mich.
Chairman—Architectural Annual,L. C. Newhall, Boston, Mass.
Chairman—Traveling Scholarship,	Albert G. Skeel, Cleveland, O.

Death of John LaFarge

The death of John La Farge has taken from the American people a man who stood pre-eminent in artistic circles and who has probably done more to create an appreciation of the work of the architect and decorator than any other man of his day and generation. Although the artist worked almost wholly in his chosen field his attention was ever directed to the best in architectural work and its adherent activities. The scope of his associations was broad. He was at one time president of the Society of American Artists, president of the Society of Mural Painters, honorary member of the American Institute of Architects and chevalier and officer of the Legion of Honor of France. It is well rounded men like La Farge,—men who can see the need of devoting at least a part of their time to popular needs—that America needs today. His loss will be felt keenly by those who felt the force of his inspiration to the better things in the architectural world as well as the appeal of his own artistry.

St. Marks Church

Following its usual custom, The Western Architect devotes the last number of the year to some of the recent work of its home city of Minneapolis. The keen spirit of improvement that exists in this city is seldom noised about with trumpets, and therefore just what is being done in architectural lines does not get its just due until something like the new St. Marks pro-cathedral flashes into prominence with its soft lines radiating a sense of artistic well being throughout an already esthetic neighborhood. Edwin H. Hewitt deserves no small meed of praise for what he has done. Like a gem in a comely setting St. Mark's will stand for all time a monument to the man who designed it, the people who made it possible and to the city itself for having within its borders men like Mr. Hewitt who know how to build well. Minneapolis is no longer a young untrammelled town. It has risen to the spiritual and mental as well as corporal dimensions of a great city. Filled with beautiful homes at low cost, handsome public buildings and plans for more, it has taken a stand among the great centers of the United States. The beautiful feature of the greater growth comes from the fact that its own home talent is making it the city that it is. Within its confines it has city builders who have proven their worth. St. Mark's is a testimonial to Minneapolis' own home architects. Perhaps the most satisfying matter for congratulation is that the citizens of Minneapolis are

themselves seized with the divine fire of appreciation for the best. Minneapolis architects by their works have instilled a love of the best. As the body is an outward expression of the inner man, so the residences of Minneapolitans are an expression of this awakening. Minneapolis is truly a field for architectural endeavor. Her people have caught the inspiration and only wait to do their part in the building of the "City Beautiful."

**The
Architects'
Commission**

The exact amount of artistic good that has accrued to every city in the United States directly or indirectly from the activities of the American Institute of Architects will probably never be known until the work of the present generation in the uplift of the architectural tone throughout the country has been finished. Until that time something of an apathy will probably exist. When the public realizes what the best sort of architect has been doing for the country, he will be acclaimed as were the builders of old and remuneration will be thrust upon him. Already in the larger centers architects are receiving their meed of appreciation and in return have been active in educating the laity and members of the profession up to higher ideals in building. The members of the Institute, the recognized backbone of architectural endeavor in the United States, have been prominent in the work of deciding what constitutes proper monetary remuneration for the architect. It has been agreed that six per cent of the cost of building is a proper fee to be asked during the progress of construction work. But what can the public expect when the press of the nation takes the stand that has been taken by the Philadelphia North American in a recent publication under the caption of "Gang Architect Tries to Soak Play Ground"? The article has to do with the censuring of Philip H. Johnson, architect for the Starr Garden recreation center, because he has asked the regular six per cent fee to which he was entitled. The North American says, "The unusual incident of an architect on a municipal contract failing to provide in the contract for his payment was disclosed at a meeting yesterday of the playgrounds committee. Philip H. Johnson, who drew the plans and specifications for Starr Garden recreation center, failed to make any provisions for payment, and when he presented his bill for part payment Controller Walton called attention that there was no authority for any remuneration. To make up for this oversight Mr. Johnson submitted to a bill to the committee, asking 6 per cent for his services. The usual fee is 6 per cent. Judge Staake said that he had recently had some work done for which the architect's fee was 4 per cent and he asked for information which would warrant him voting for 6 per cent. There were others who objected to the 6 per cent rate. A. S. Eisenhower explained that Mr. Johnson said that the commission for drawing plans for playgrounds had advanced and that the architects were now receiving 6 per cent. The committee entertained a motion to request the mayor to take the necessary steps to pay Mr. Johnson. After the motion had been amended, the final vote was postponed to give Mr. Johnson an opportunity to explain the 6 per cent charge."

Letting alone the objectionable treatment of Mr. Johnson, the boorish caption and handling of the "story" is one of the most thoroughgoing cases of artistic ignorance that has come to our attention for some time. It is surprising that the Phila-

delphia authorities should have raised the question of granting a 6 per cent fee to Mr. Johnson. It is still more surprising that a representative of the modern press like the Philadelphia North American should uphold such actions by falling into sympathy with the boors who raised the objections. If the press doesn't get behind the architects in their just demands, who will? We cannot always count on intelligence in the running of our city governments and it behoves the newspapers who have done much good along many lines to uphold the work of the profession that is doing more for the advancement of the American city than any other force that may be mentioned.

**The
Louisiana
License
Law**

The need of a state law to enforce the licensing of architects in Minnesota is becoming every day more apparent by the action taken in other states. Louisiana has passed a law whereby every architect who would practice in the state must show a diploma from a reputable school of architecture, or pass an examination that will place the mark of merit upon his ability as a craftsman. Every day the public is awakening to the fact that the licensing of architects is merely a necessary precaution taken to insure the protection of life and limb. The wise and just law passed by Louisiana could well be copied in Minnesota. The plan is to rule that all architects must register their names with the clerk of the civil district court of the parish wherein they are practicing. The applicant for a permit to practice must be at least 21 years of age, and must possess a good moral character. The wisdom of this last stipulation is self explanatory. The building of a great or small building should not be entrusted to a man of unsteady habits any more than the guidance of a locomotive should be given into the hands of an inebriate. The members of the St. Louis board of examiners consist of five architects all of whom must have practiced at least 10 years. Two members of the board may grant a temporary permit to practice but this action must be reported to the next regular meeting of the board. The clerk of the court receives a fee of \$1 for registration and the architect pays an annual fee of \$5 to the board. Failure to do this is followed by striking his name from the clerk's roll. Should the fee not be paid by January of each year, the amount is doubled. An annual publication of all architects authorized to practice is published in a New Orleans daily paper. The governor of the state appoints the board, who are allowed \$5 a day during board sessions and traveling expenses. They may charge \$10 for an examination and \$5 of this is retained if the applicant fails. Failure to comply with the provisions of the law makes the offender subject to a fine of not less than \$25 nor more than \$100 and imprisonment of not less than 30 days nor more than 90 days for each offense. This is getting right down to the bed rock of the question and laying a foundation of merit insuring safety and artistic design to the communities of Louisiana. It is good to inaugurate an innovation of this sort while a state is young in order that future generations will not suffer from the monstrosities that can be foisted upon the public by any unskilled architect. Minnesota is not too old to take up the system. In matters of this sort it is never too late to mend. Every architect who has the protection of the profession, and the lives and happiness of the people of Minnesota at heart should boost for license in Minnesota.

ST. MARKS CHURCH, MINNEAPOLIS

EDWIN H. HEWITT, ARCHITECT

TWO considerations influenced the architect in the choice of an English Gothic style for the new St. Mark's Church building. First and most important was the history and traditions of the Episcopal Church and second the natural beauty of the site with the view over Loring Park and up Hennepin Avenue.

The plan of the church is one of the basilica type, with nave and side aisles; the traditional English plan. It presents a variation from the usual English plan, however, in that the great arch between the nave and the chancel is placed at the entrance to the sanctuary as in the early Christian basilica, instead of in its more usual location at the entrance to the choir, thus enhancing the perspective of the vaulting and nave piers, and giving a greater majesty and solemnity to the sanctuary. To the right and left of the sanctuary are located the working and rector's sacristies connected by a narrow passage or ambulatory beneath the great altar or "East" window. Correspondingly, to the right and left of the choir are the organ and a small chapel, separated from the choir and nave by carved oak screens. At the front of the building at the main entrance is a lobby or narthex with a small gallery over, and at the left the tower forms the vestibule to the carriage entrance. On the end of the passage in front of the pews to the connected parish house is a small entrance porch for convenience of access to it and to the chapel.

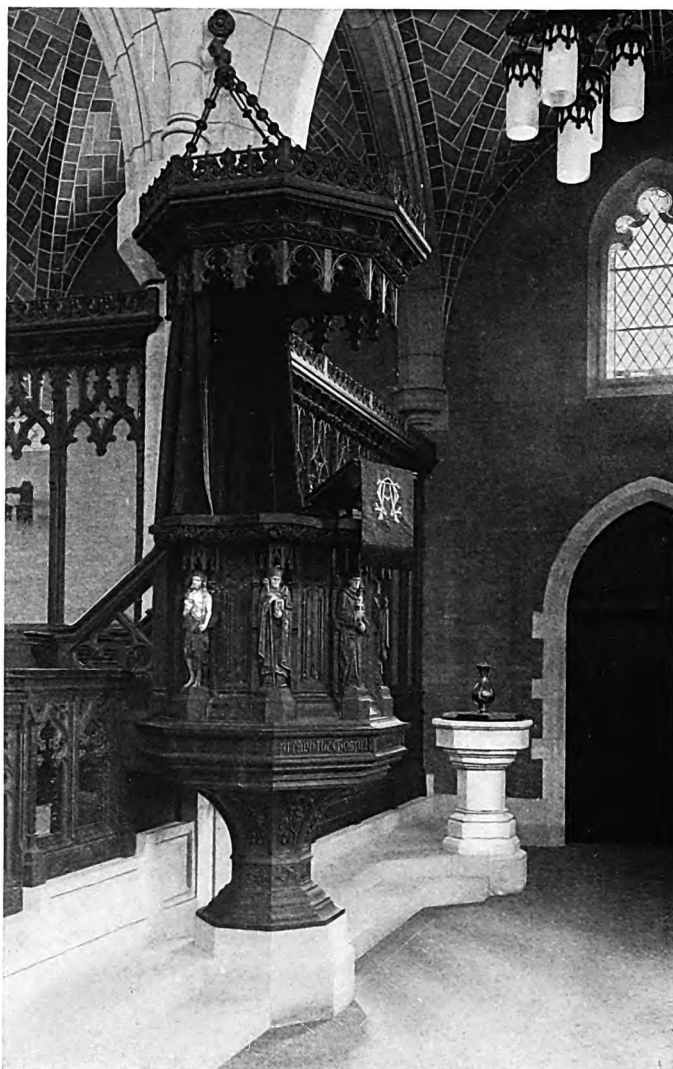
The contour of the lot made it possible to place the parish house at the left on a lower level, thus permitting the arrangement of the Sunday School rooms, rector's office, and choir room on the second floor level with the church floor. The first story of the parish house contains a banquet hall, kitchen, kindergarten, and other features necessary to the parish life and activities.

The stone of the exterior is buff Bedford with the grade course, steps, and entrance platforms and sills of granite. The interior stone is pink Kasota. To reduce the cost of construction the window tracery was made of cast concrete stone to imitate Bedford and the vaulting ribs and interior trim above and including the clerestory window sill course is of cast concrete stone to imitate Kasota. The interior walls are a yellow brown spotted pressed brick.

The nave and aisle vaults are of the Guastavino cohesive tile construction. The thrust of the nave vaulting is taken by steel I-beams imbedded vertically in the clerestory walls, the tops tied together by the steel trusses which carry the slate roof and braced below by reinforced concrete beams in the concrete roof slabs over the aisles.

The windows are double glazed to secure extra insulation against both the noise of Hennepin avenue traffic and the cold.

The building is heated by a fan system with direct radiation at some of the more exposed points. The heated air is forced in beneath the clerestory and aisle windows and goes out through vent registers in the floor under the pews.



DETAIL OF PULPIT

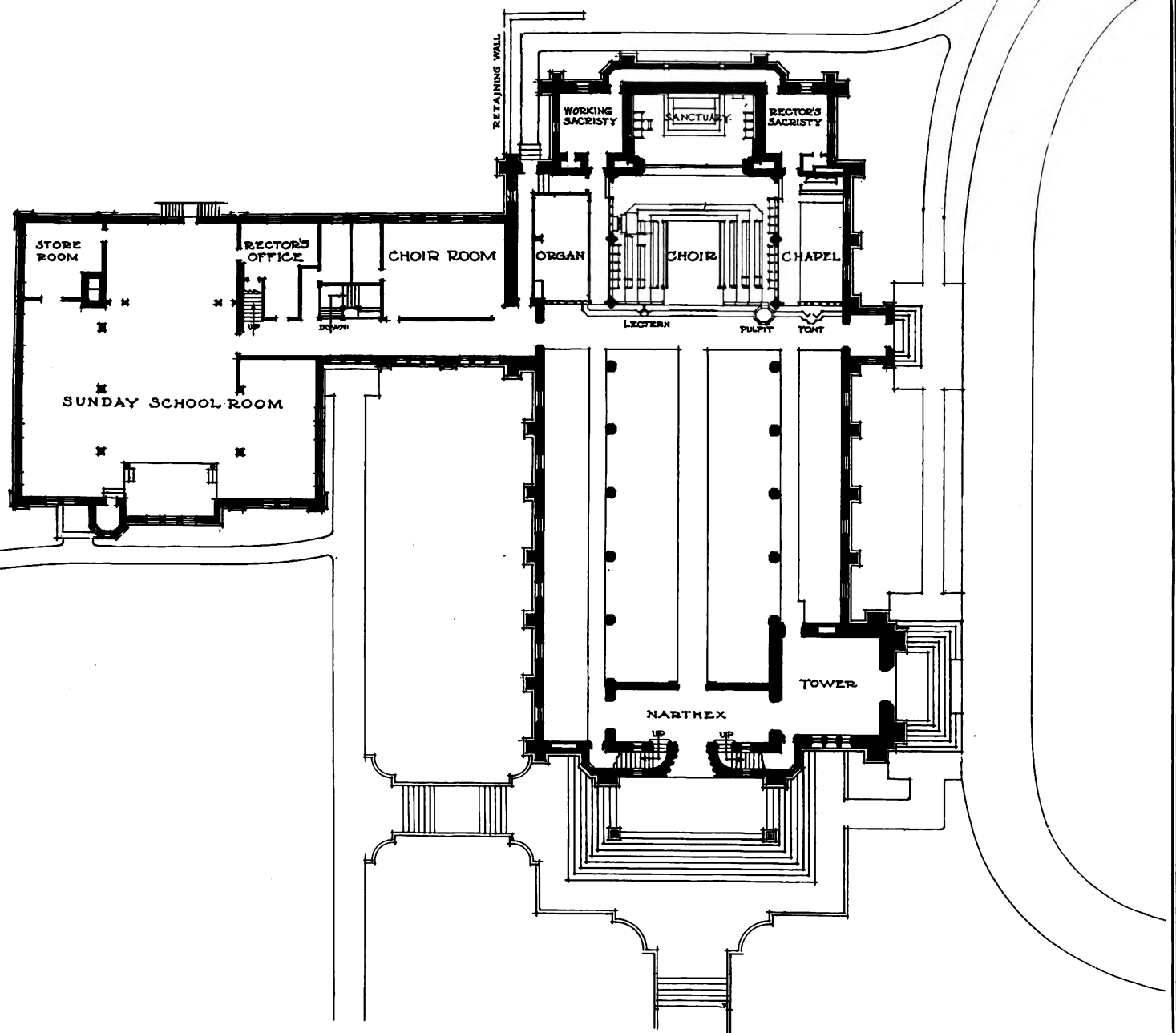
ST. MARKS CHURCH, MINNEAPOLIS
Edwin H. Hewitt, Architect

The floors which are of reinforced concrete are all finished with tile, except under the pews and choir stalls. In the nave and narthex, etc., red Ruabon tile was used. The choir and sanctuary pavement is of cherry red, unglazed Grueby tile relieved by panels and patterns of glazed tile in colors and in the sanctuary of emblematic design.

The plan of the church, while simple, offered an unusual

opportunity for the development of a complete scheme of decorative woodwork. The railings and screens of the organ, choir and chapel are of quarter sawed oak enriched by carving of considerable elaboration. In the sanctuary the elaborate carved cornice of the choir screens is continued over the wood wainscot and broken out to form a rich canopy over the bishop's and priest's sedilia. The pulpit, a memorial gift, is designed in harmony with the choir woodwork. It is octagonal in shape and at each of its corners is a canopied niche. These niches

contain a remarkable series of figures representing the great preachers of Christianity carved by I. Kirchmayer of Boston. The exquisite beauty of these carvings is enhanced by leaving unstained the faces and hands of the figures in the natural wood, and by judicious touches of gold on their vestments, all done in a new and original manner and in the spirit of the best medieval craftsmanship. The whole scheme of woodwork will culminate in an elaborately carved reredos (another memorial gift) which is now under construction.



PLAN
ST. MARKS CHURCH, MINNEAPOLIS
Edwin H. Hewitt, Architect



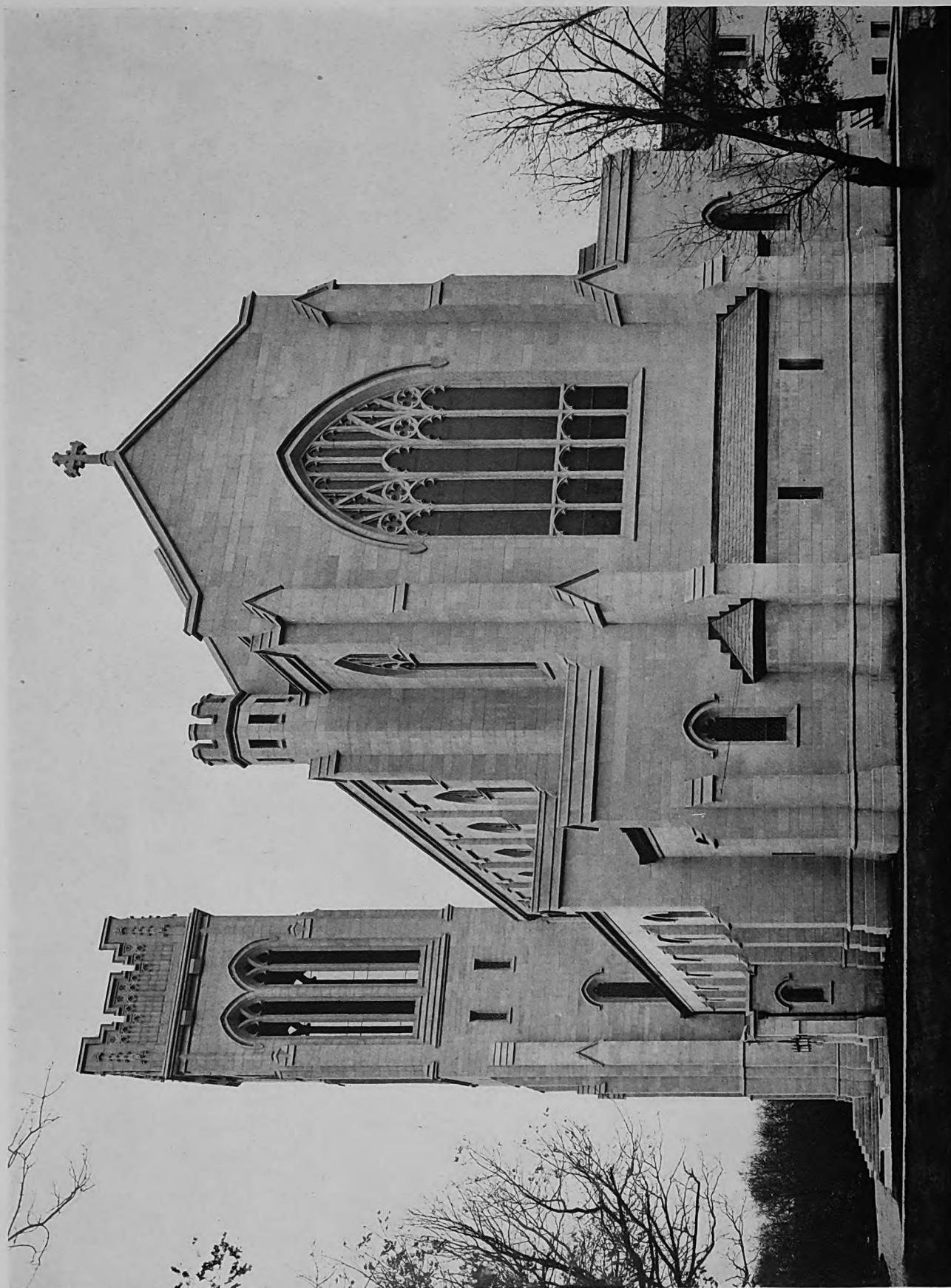
SUCCESSFUL TYPE OF THREE-STORY BUILDING
MEYER BLOCK, MINNEAPOLIS, MINNESOTA
WILLIAM M. KENYON, ARCHITECT

THE WESTERN ARCHITECT
DECEMBER
1910



THE WESTERN ARCHITECT
DECEMBER
1910

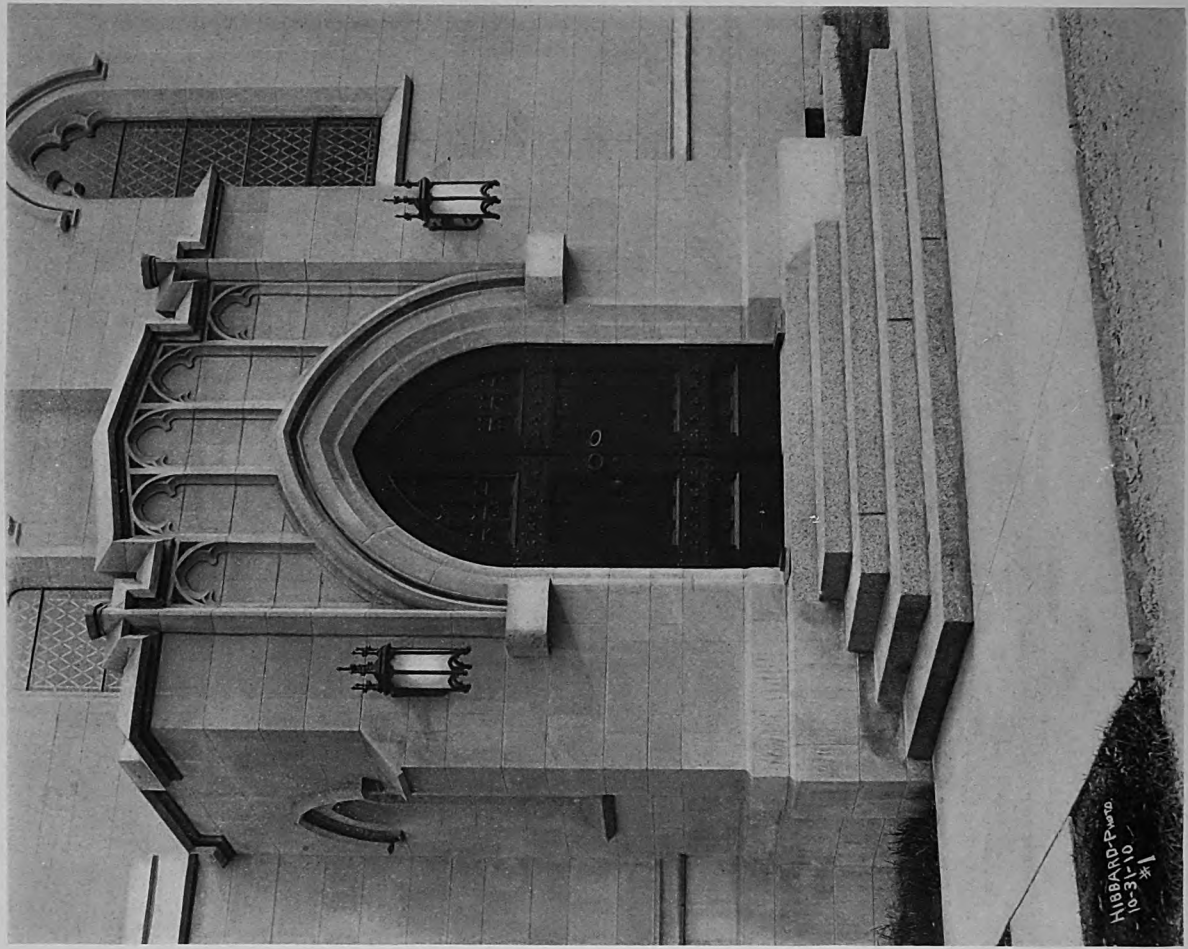
RESIDENCE OF PRESTON KING, MINNEAPOLIS, MINNESOTA
WILLIAM CHANNING WHITNEY, ARCHITECT



REAR VIEW

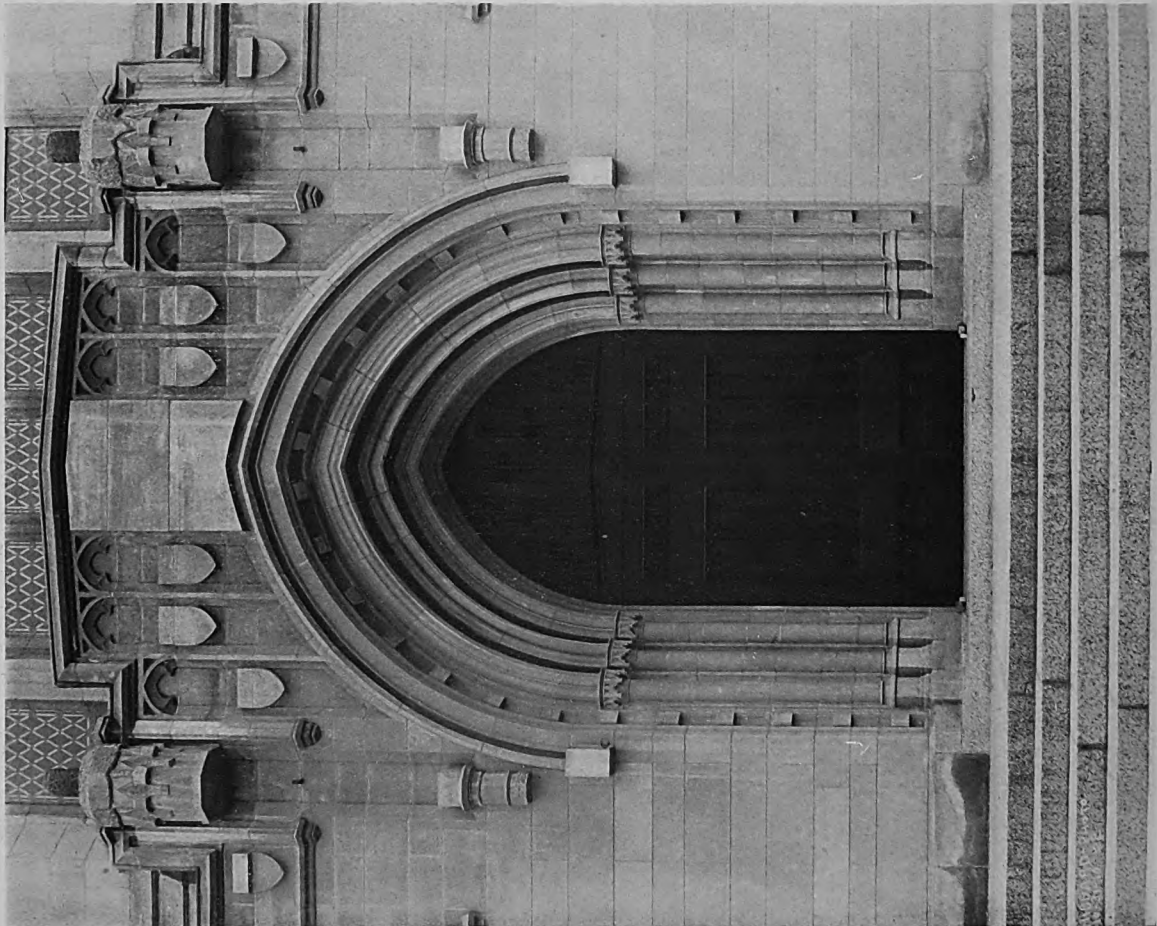
ST. MARKS PRO-CATHEDRAL, MINNEAPOLIS, MINNESOTA
EDWIN H. HERWITT, ARCHITECT

THE WESTERN ARCHITECT
DECEMBER
1910



DETAIL OF CARRIAGE ENTRANCE

ST. MARKS PRO-CATHEDRAL, MINNEAPOLIS, MINNESOTA
EDWIN H. HEWITT, ARCHITECT



DETAIL OF MAIN ENTRANCE

THE WESTERN ARCHITECT
DECEMBER
1910



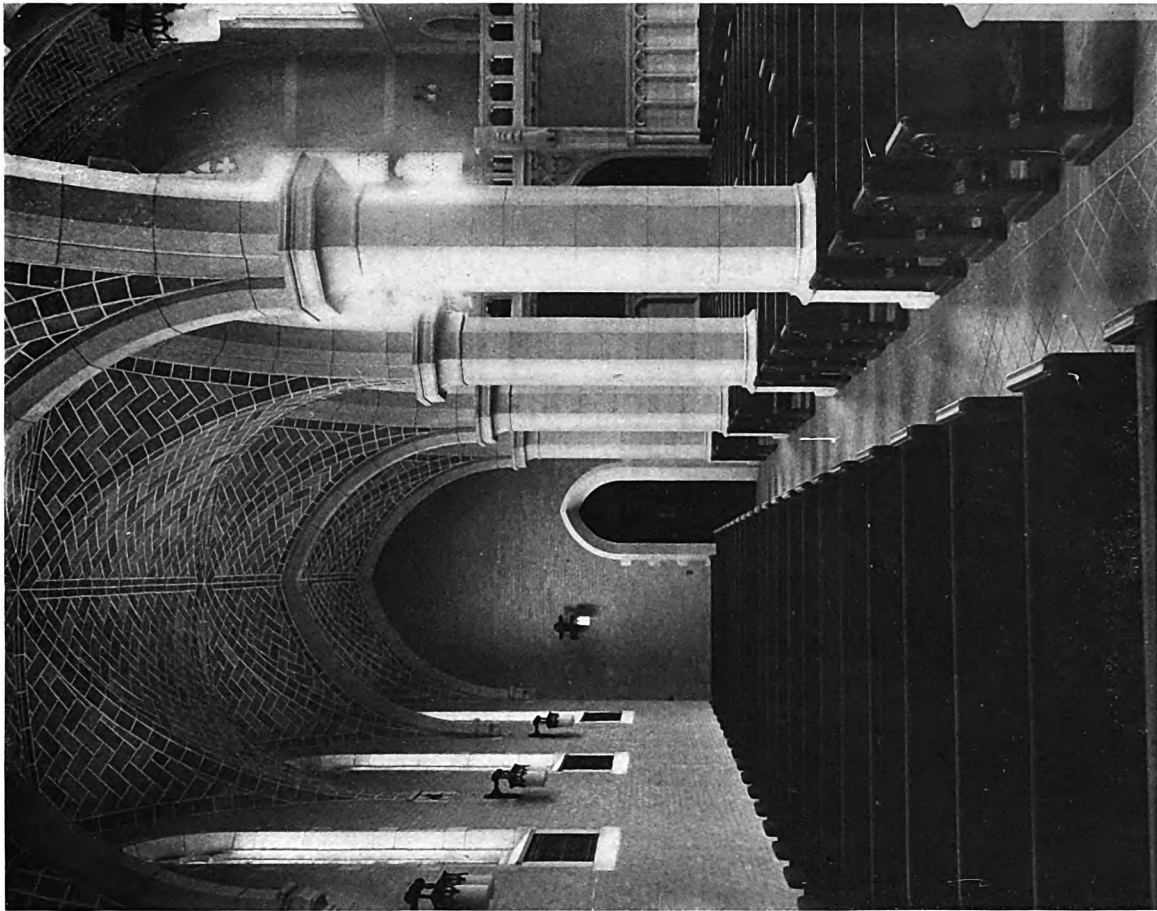
NAVE, LOOKING TOWARD CHANCEL



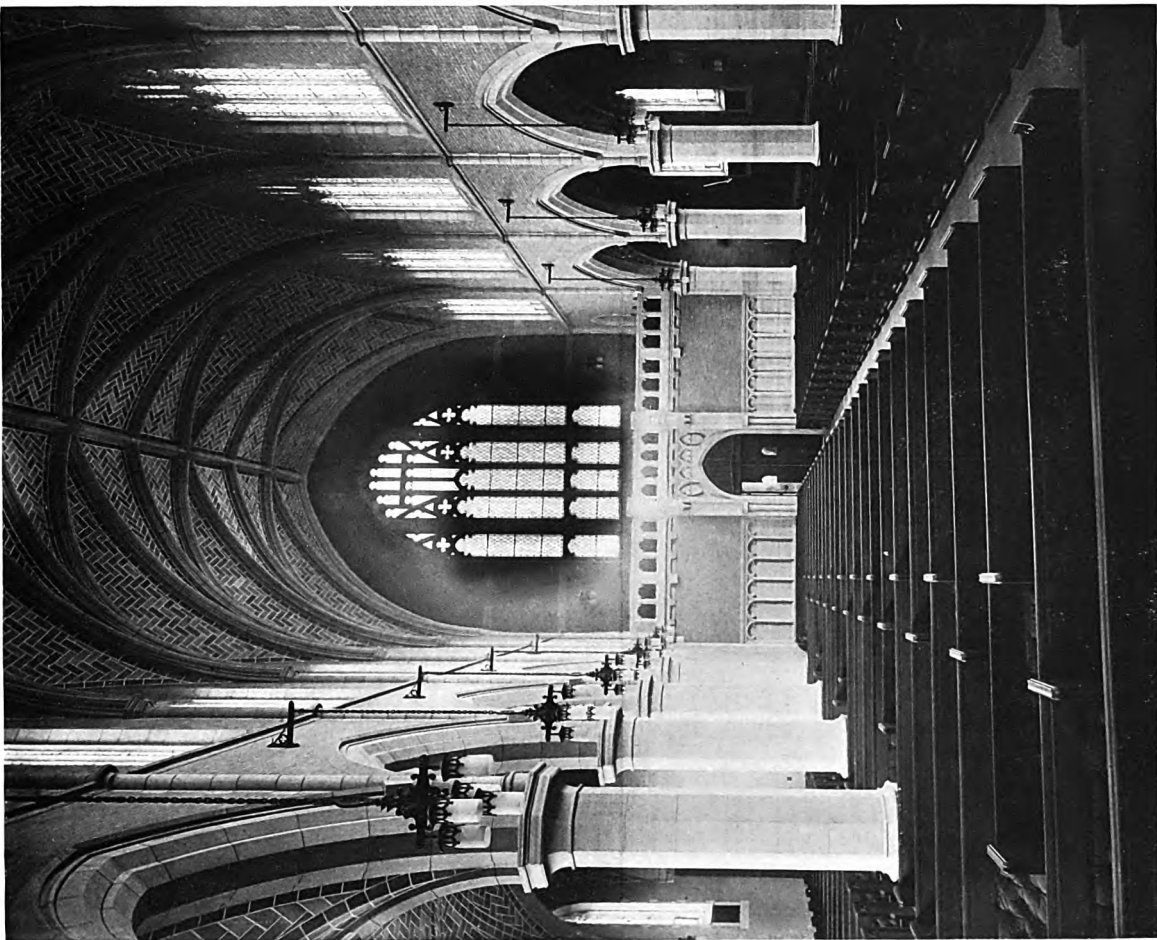
DETAIL OF ORGAN SCREEN AND CHOIR

ST. MARKS PRO-CATHEDRAL, MINNEAPOLIS, MINNESOTA
EDWIN H. HEWITT, ARCHITECT

THE WESTERN ARCHITECT
DECEMBER .
1910



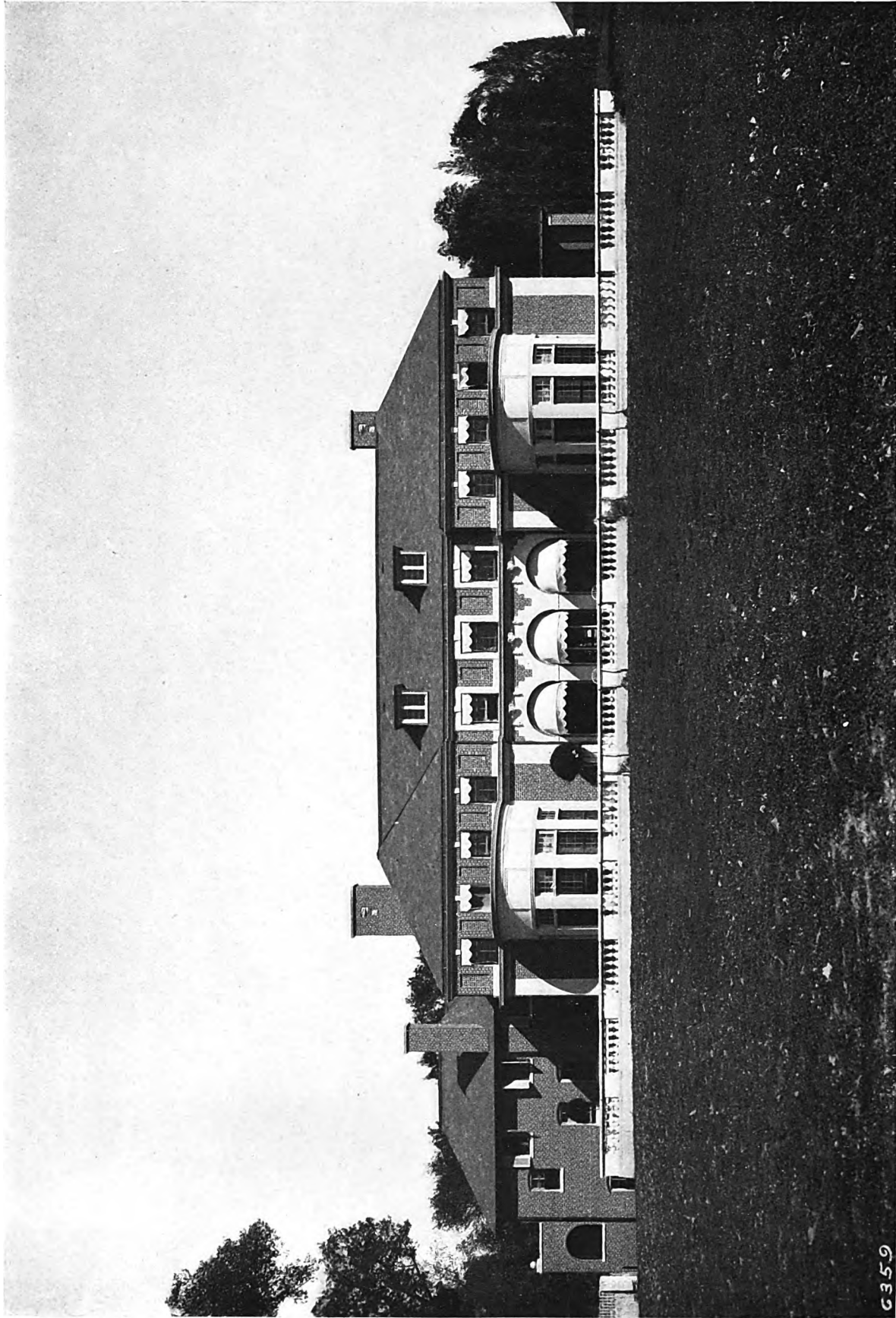
SIDE AISLE, WITH DETAIL OF GUSTAVINO TILE CEILING



NAVE, LOOKING TOWARD NARTHEX

ST. MARKS PRO CATHEDRAL, MINNEAPOLIS, MINNESOTA
 EDWIN H. HEWITT, ARCHITECT

THE WESTERN ARCHITECT
 DECEMBER
 1910



VIEW FROM THE LAKE
WALDEN, COUNTRY HOME OF WALTER D. DOUGLAS, DEEPHAVEN, MINNESOTA
HOWARD VAN DOREN SHAW, ARCHITECT

THE WESTERN ARCHITECT
DECEMBER
1910



VIEW FROM THE GARDEN
WALDEN, COUNTRY HOME OF WALTER D. DOUGLAS, DEEPHAVEN, MINNESOTA
HOWARD VAN DOREN SHAW ARCHITECT

THE WESTERN ARCHITECT
DECEMBER
1910

G361



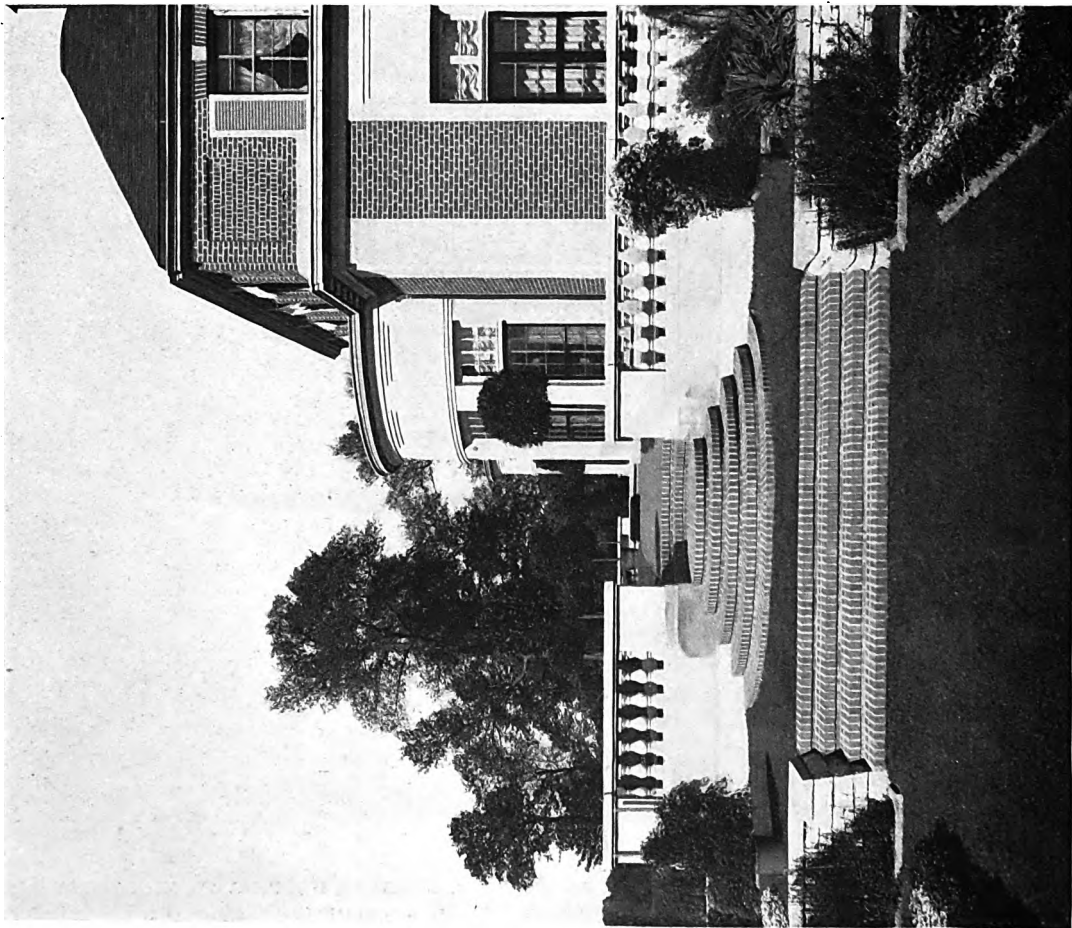
DETAIL OF REAR



DETAIL OF REAR

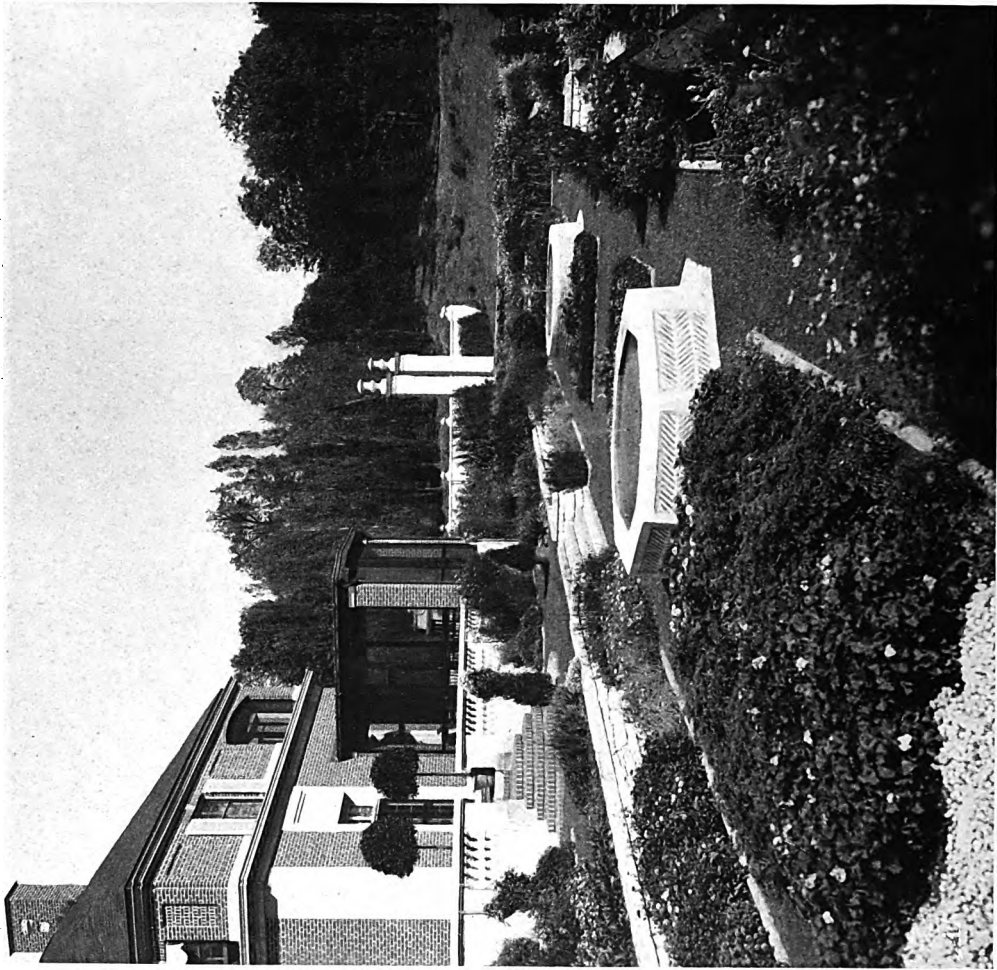
THE WESTERN ARCHITECT
DECEMBER
1910

WALDEN, COUNTRY HOME OF WALTER D. DOUGLAS, DEEPHAVEN, MINNESOTA
HOWARD VAN DOREN SHAW, ARCHITECT



DETAIL OF GARDEN ENTRANCE

THE WESTERN ARCHITECT
DECEMBER
1910



VIEW OF FORMAL GARDEN

WALDEN, COUNTRY HOME OF WALTER D. DOUGLAS, DEEPHAVEN, MINNESOTA
HOWARD VAN DOREN SHAW, ARCHITECT



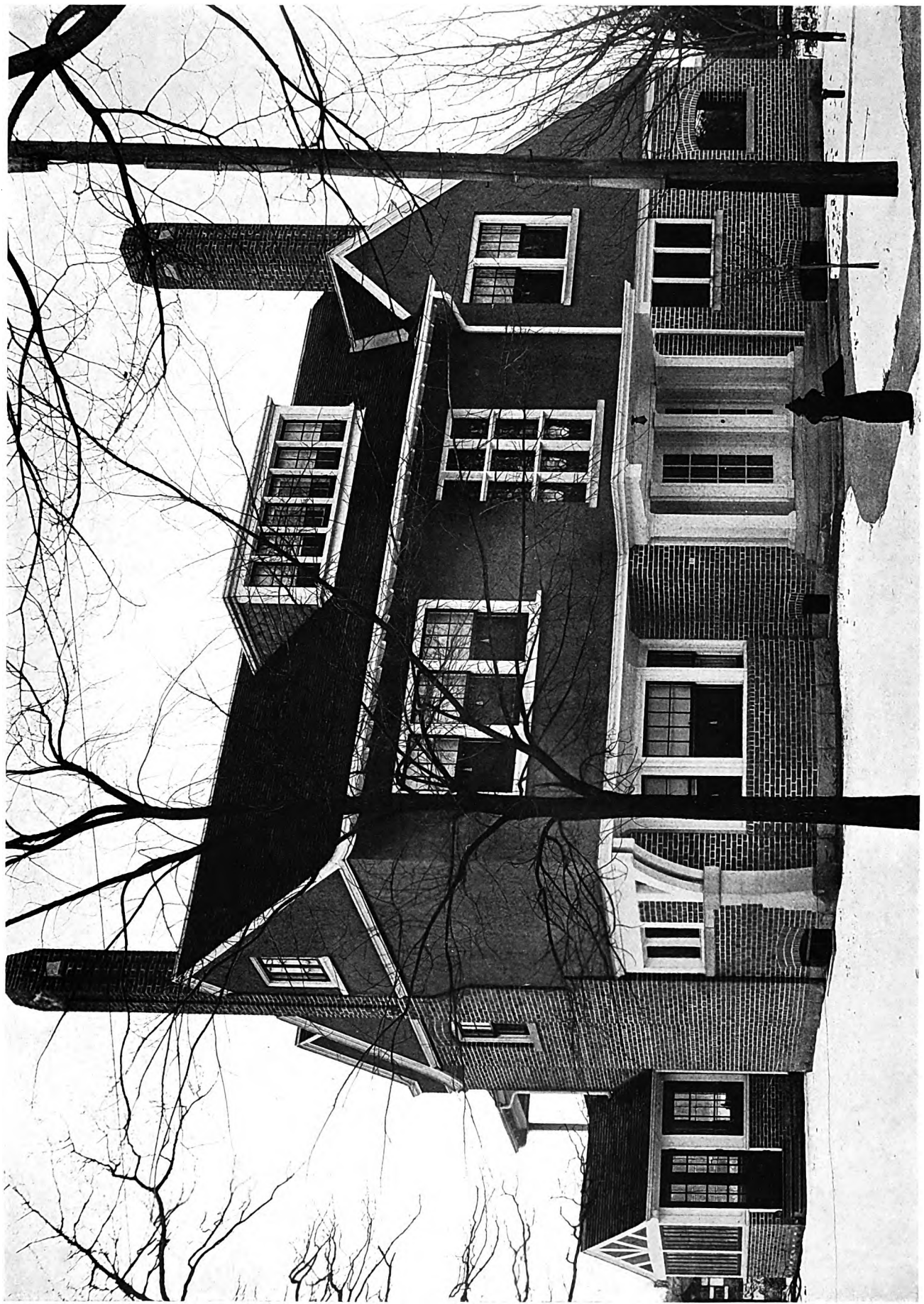
VIEW OF ENTRANCE HALL

WALDEN, COUNTRY HOME OF WALTER D. DOUGLAS, DEEPAVEN, MINNESOTA
 HOWARD VAN DOREN SHAW, ARCHITECT



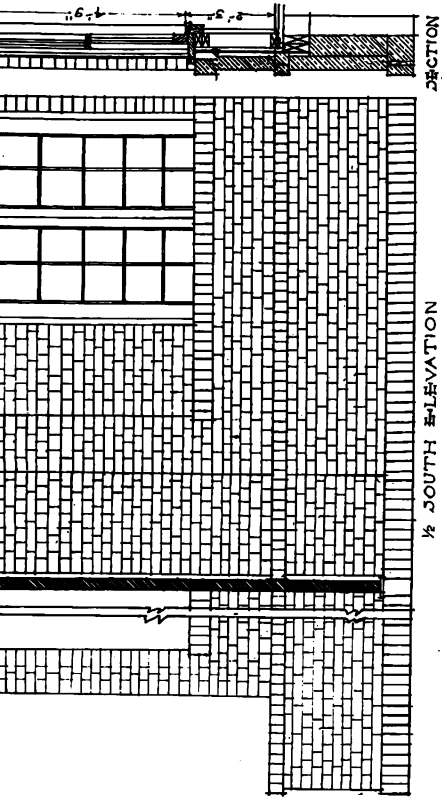
DETAIL OF FRONT

THE WESTERN ARCHITECT
 DECEMBER
 1910

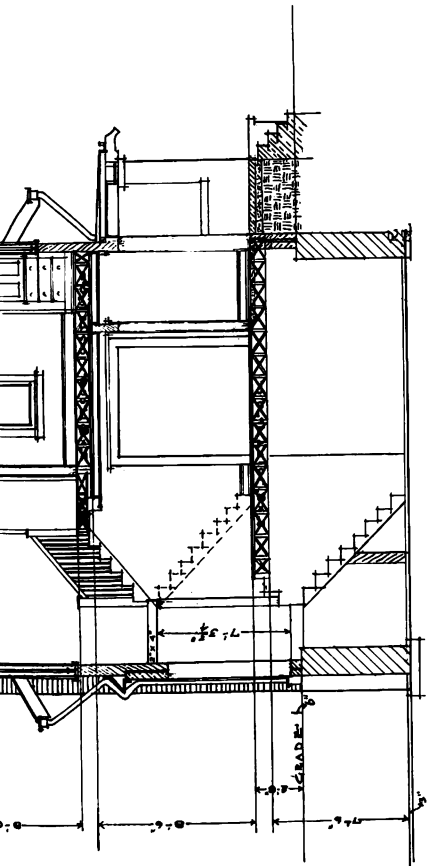


RESIDENCE OF JAMES MCLENAGHEN, TORONTO, ONTARIO
WICKSON AND GREGG, ARCHITECTS

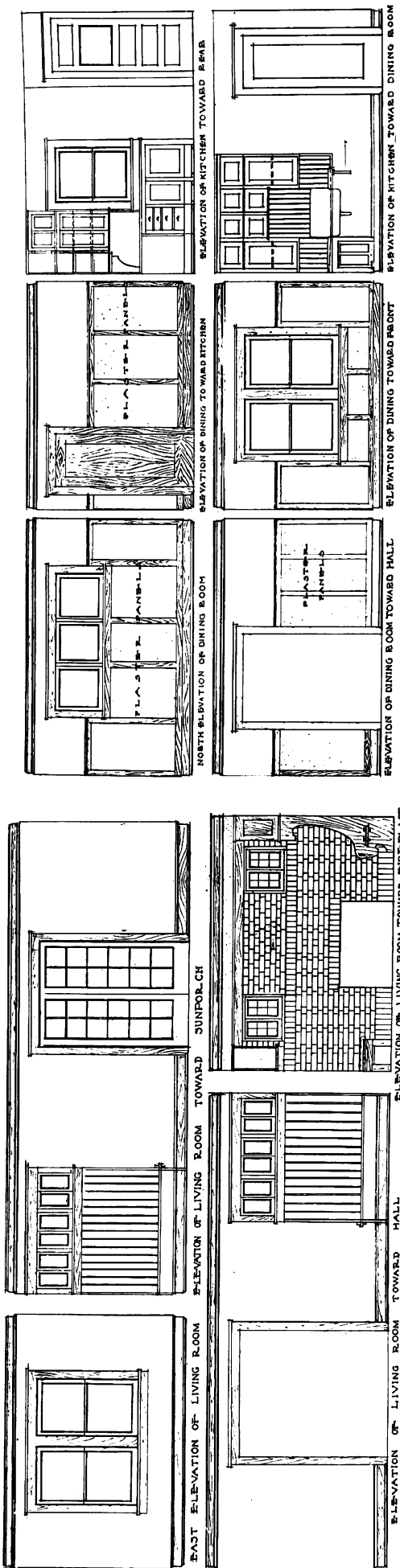
THE WESTERN ARCHITECT
FEBRUARY
1910



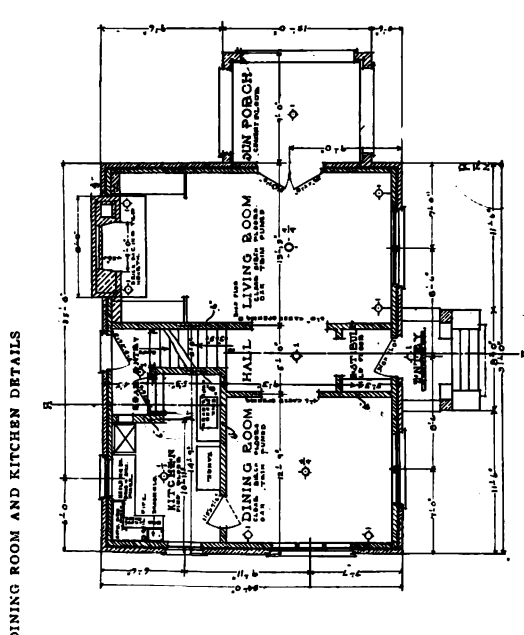
1/2 SOUTH ELEVATION
DETAILS OF EXTERIOR



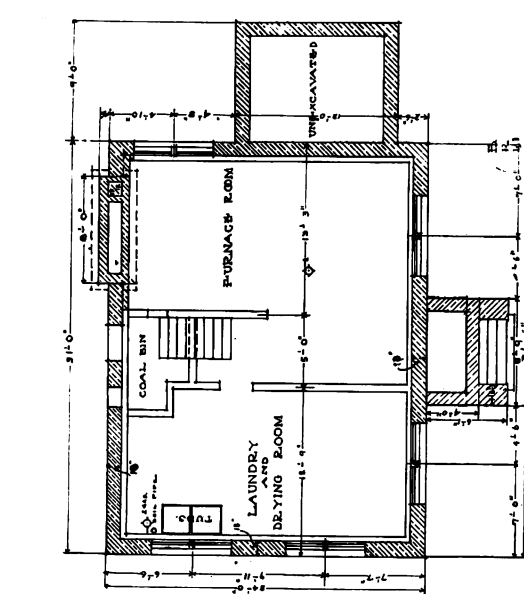
CROSS SECTION



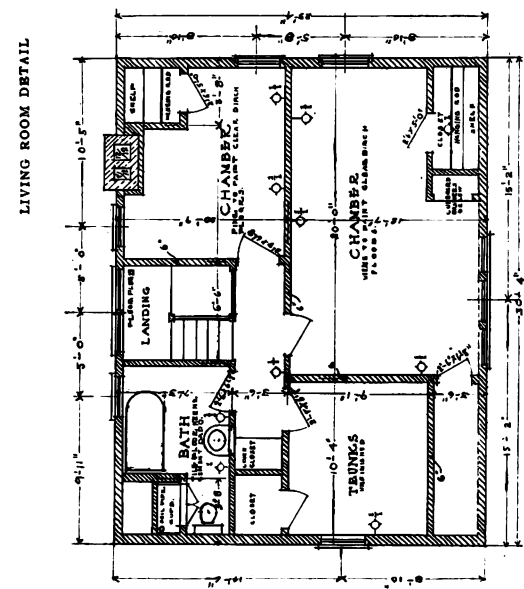
EAST ELEVATION OF LIVING ROOM
ELEVATION OF LIVING ROOM TOWARD HALL
ELEVATION OF LIVING ROOM TOWARD SUN PORCH
ELEVATION OF LIVING ROOM TOWARD FIRE PLACE
NORTH ELEVATION OF DINING ROOM
ELEVATION OF DINING ROOM TOWARD HALL
SOUTH ELEVATION OF DINING ROOM
ELEVATION OF DINING ROOM TOWARD FRONT
NORTH ELEVATION OF KITCHEN
ELEVATION OF KITCHEN TOWARD REAR
SOUTH ELEVATION OF KITCHEN
ELEVATION OF KITCHEN TOWARD DINING ROOM



FIRST FLOOR PLAN



BASEMENT PLAN



SECOND FLOOR PLAN

LIVING ROOM DETAIL

DINING ROOM AND KITCHEN DETAILS

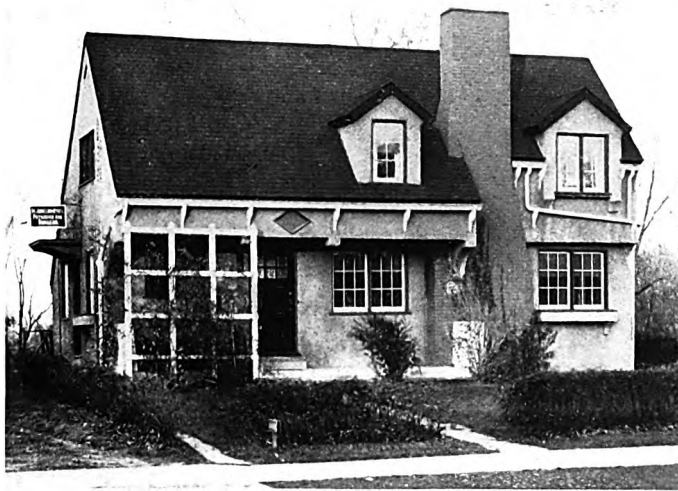
BUILDING DETAILS OF THE GAGE \$4,000 RESIDENCE

and serves good purpose until superseded by worthier expression of greater present purpose.

In our older communities the better houses built well of enduring materials remain "amidst modern neighbors, like an oasis in a desert of ugliness" and in our day let us honor the citizen who builds however humbly with regard for the balance, harmony and rhythm inherent in what we admire at all times in both nature and art, and who expresses in his building the purpose thereof and does it moreover with regard to materials and surroundings, letting wood be wood, cement be cement, metal be metal, and the house a gem in a setting of nature. No place can be too humble for the ideal and in Minneapolis few are too confined to realize it.

illustrated in the house by Jacob Stone, Jr., Architect, and well illustrates an advantage of this type, for the architect is already planning additions for his client and these are readily applicable to so straightforward a groundwork.

The shingle types retain their charm and the house by E. H. Hewitt, Architect, is most complete and compact, studied to build at a minimum cost that would put to shame most popular magazine productions, were the latter known at their real value.



RESIDENCE
Frank E. Wallis, Architect, New York City

The house, by A. R. Van Dyck, Architect, is an excellent example of good planning and good use of materials

The house is an attempt in the right direction with clumsy, unappreciative handling of details and material in the execution.

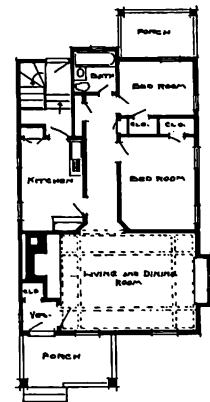
Bungalow comfort, as well as bungalow simplicity, is



RESIDENCE FOR F. A. FREEMAN, MINNEAPOLIS



RESIDENCE, WITH PLANS
A. L. Dorr, Architect



VALUE OF ROOFING GUARANTEES

BY L. P. SIBLEY, SECRETARY OF THE NATIONAL ASSOCIATION OF MASTER SLAG AND GRAVEL ROOFERS OF AMERICA

Guarantees have become more of a factor in roofing than in any other work connected with building construction, and are frequently put in the foreground so the real point at issue, the merit of the roofing, will be overlooked and they therefore should be subjected to the closest scrutiny.

Very naturally guarantees for five or ten years will appear in the light of a safeguard, but they are not given because of a sublime faith the guarantor has in his roofing or because of any generous impulse on his part to protect the buyer, but they are given for one purpose only, to sell the roofing. For the purpose of considering their value they may be divided into three classes.

First: Where the guarantor is responsible and gives the guarantee in good faith. In such cases the buyer has assurance that the roof will be repaired if it leaks, but there is not any protection against damage, as a guarantee against damage would be a greater liability than any solvent contractor would assume, even with the best of roofs. No matter how often leaks occur, all the owner can require is that repairs be made with reasonable promptness, and, as frequently happens, it is better to buy a new roof than stand the loss and annoyance caused by the leaks.

Second: Where the guarantor is responsible but purposefully words the guarantee to mislead and avoid legal responsibility. This class is the most misleading and causes the greatest loss. It embraces the "painting every so often" clause usually calling for material which the owner must buy and apply at certain specified times. One day over, and the guarantee is invalid. Also in this class are the guarantees when other than the guarantor applied the roofing. This means a division of responsibility and there are literally dozens of "excuses" why the manufacturer is not to blame.

Third: Where the guarantor does not remain in business or solvent for the term of guarantee. Statistics show that the life of a surprisingly large percentage of firms is less than five years to say nothing of ten years, and this is especially true of general contractors as a class, who usually take the sub-contractor's guarantee and then guarantee direct to the owner.

Tile, slate, copper and shingle roofs are rarely guaranteed for more than one year if at all, so they need not be considered, but it is the two great classes, "Ready Roofing" and "Gravel or Slag Roofs"—(frequently referred to as "Built-up Roofs," that have been and are most affected by long-time guarantees).

In buying Ready Roofing, the character of the building; the incline of the roof and the chances of the roof being re-coated occasionally (if roofing requiring such care is used); the length of service the roof is expected to give; the experience of others with the same material used under the same conditions for as long a time as it is claimed it will last (printed testimonials should not be accepted without investigation); and the reputation of the manufacturer for fair dealing, are factors of far more importance than any guarantee.

Several of the largest manufacturers of Ready Roofing who do not apply their roofs have consistently refused to give guarantees and large dealers who look into the merit of an article usually prefer to deal with such manufacturers. It should be borne in mind that there is no "cure all" in roofing any more than there is in medicine.

When it was the custom to buy Gravel Roofs and their merit and the factors considered were quality of material, amount of material (that is number of plies and weight of felt and pounds of pitch), knowledge regarding the use of materials and a record of roofs in service, it was usual to have Gravel Roofs last 15 to 20 years and sometimes longer, but since the ten-year guarantee was made the basis for price, the contracts awarded to the lowest bidder, most of the responsible

roofing contractors have had no option except to figure on a ten-year roof, and if the contract was secured, that is all they could give as it was all they were paid for or agreed to give.

A definite specification which meets the requirements of the building should be provided the same as is provided for the foundation and other parts of the building, and then competent inspection given so the roof will be its own guarantee the same as the foundation.

SPECIFICATIONS

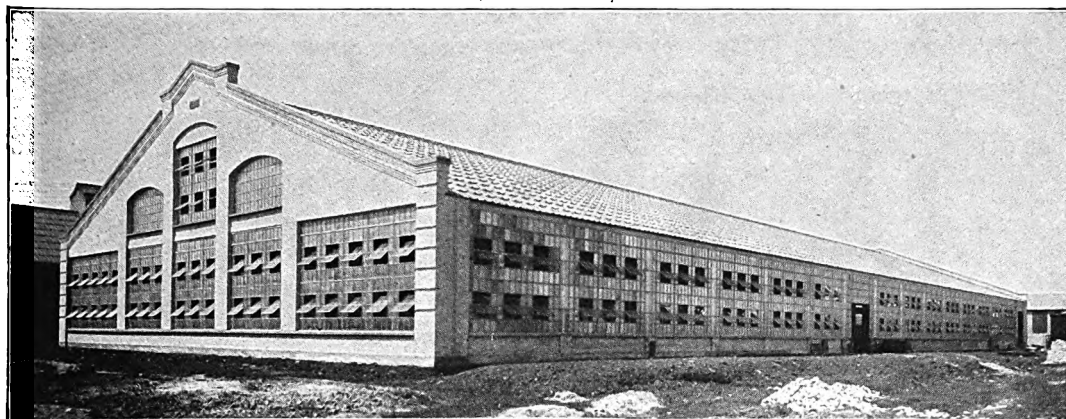
A specification is defined as a definite, particularized, and complete statement, the written document in which engineers and architects describe those portions of proposed work which they cannot clearly show by diagrams. In addition, they are expected to specify the material and quantities required, and, with this, the manner of carrying out the work.

How many specifications drafted by engineers come up to these requirements! Frequently they are not worth the paper they are written upon, being so one-sided that they could not stand in a court of law, and being so unreasonable that even the engineer himself would not think of requiring the "pound of flesh" which might be exacted under the letter of the law.

The specifications should be both definite and exact; then the engineer not only fully understands what he requires, but where, in addition, he expects to enforce its carrying out. Engineers fancy that they are able to shield themselves behind a host of unreasonable clauses should a mistake be made. The client must pay for these unreasonable requirements, and the engineer who inserts them places himself in an unfavorable light before the contractors—the men who do the work and are in a position to judge of the necessity of each and every clause.

The insertion of such a clause as "All works are to be done to the entire satisfaction of the engineer. He is to be the sole judge, and the work or material both of quality and quantity, and his decision only on all questions of dispute with regard to work or material, or as to the meaning or interpretation of plans and specifications, is to be considered final and binding on all parties," are among the most difficult to understand. Why the engineer who prepares specifications and who is a client's representative, shall be the sole judge or referee or arbitrator in matters of dispute between himself and the contractor it is difficult to understand.

The engineer requires certain work to be done. The contractor, for a price, is willing to do the work. They both are agreed with the drawings and specifications covering the work required. It is unreasonable to expect the contractor to be content with any matters of dispute between himself and the engineer that the engineer should be the only referee. We would be surprised if such a clause would hold in a court of law, and we cannot understand why engineers persist in inserting such clauses in the specifications. Their only purpose seems to be to make ridiculous the other well-framed and necessary clauses. Such a clause as this places the men who make the drawings, prepare the specifications, the contract and issue the progress estimates the arbitrators in matters of dispute. Is this fair to either engineer or contractor? It cannot be, since no contractor has any idea of abiding by this stipulation, should a dispute arise. But this clause undoubtedly keeps a number of contractors from tendering on work where they are not personally acquainted with the engineer. This reduces the number of tenders considerably, and places the work practically in the hands of the friends of the engineer, which is frequently not good business, either for the client or the engineer. The wording of specifications and the preparation of drawings and designs for the purpose of securing what is required and the statement of what the contractor is expected to perform should be prepared in such a way as to place all contractors upon the same footing. Nor should they be so stringent as to eliminate competition.



Plant of Detroit Steel Products Company showing what may be accomplished with Fenestra Sash

Plan All Industrial Building To Take— *Detroit-Fenestra* PATENTED

Notable Users

- Crown Columbia Pulp and Paper Co.,
Portland, Oregon
- Duluth, Missabe & Northern Railway
Shops, Proctor, Minn.
- Chicago & Northwestern Ry. Shops and
Power Station, Chicago, Ill.
- Indiana Steel Company, Gary, Ind.
- Minnesota Steel Co., Duluth, Minn.
- Mitchell Motor Car Co., Racine, Wis.
- U. S. Navy Dept. at Boston, Ports-
mouth and Charleston Navy Yards.
- American Optical Company, South-
bridge, Mass.
- Ireland & Matthews Manufacturing
Co., Detroit, Mich.
- General Electric Co., Pittsfield, Mass.
- Peninsular Stove Co., Detroit, Mich.
- Dodge Mfg. Co., Mishawaka, Ind.
- Solvay Process Co., Syracuse and
Detroit
- American Car and Foundry Co., St.
Charles, Mo.
- Cherry River Paper Co., Richwood,
West Va.
- Fiat Automobile Co., Poughkeepsie,
N. Y.
- American Radiator Company, Kansas
City and Buffalo
- Carnegie Steel Company, Bellaire, Ohio

Solid Steel Window Sash in Standard Sizes

DAYLIGHT FOR FACTORIES

Architects and engineers who plan mill and factory openings—the openings in all industrial structures—to take Detroit-Fenestra standards—gain in pleased clients. They find their business constantly enlarging.

For the manufacturers of today are demanding better and better lighted and ventilated plants.

The four walls of a building, however long and wide, can be thrown open to the sun by the use of Detroit-Fenestra Sash.

Workshops are made light—with daylight. The utmost ventilation is assured, as well, by our standard ventilators. The men improve in efficiency. Factory profits increase.

Because all-metal in construc-

tion, this sash is absolutely fire-proof. It safeguards employes, machines and materials—is a protection against heavy losses.

Detroit-Fenestra is made in standard sizes. It is shipped ready to install. All standards are interchangeable units and can be combined for filling large openings. Steel mullions are supplied, when they are to be used in combination.

We have 200 sizes of standards and near standards always ready for shipment.

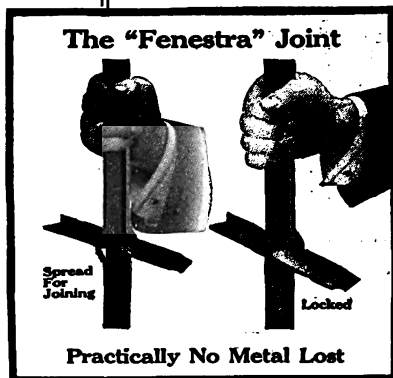
Send for our pamphlet Y, telling all about the "Fenestra" Joint and Detroit-Fenestra. Diagrams and dimensions of various standards are included, with instructions for erecting and glazing.

Detroit Steel Products Company

MANUFACTURERS

Dept. 000

Detroit, U. S. A.



AGENTS

- ATLANTA—Dowman-Dozier Mfg. Co.
- BOSTON—Smith & Thayer Co.
- BIRMINGHAM, ALA.—Southeastern En-
gineering Co.
- BUFFALO—J. P. Hunt, 14 Builders'
Exchange.
- CHICAGO—Charles R. Ayars, 171 Wash-
ington Street.
- DAYTON, OHIO—F. G. Kemper
- GRAND RAPIDS—Frederick H. McDon-
ald, 619 The Gilbert.

- HOUSTON—Louis G. Hester, 317 1/2 Main St.
- INDIANAPOLIS—Vonnegut Hardware Co.
- KANSAS CITY—Jacques Steel Co., R. A.
Long Building.
- LOS ANGELES—California Builders Sup-
ply Company
- MINNEAPOLIS—Henry O. Johnson, 400
Lumber Exchange.
- NEW ORLEANS—American Sheet Metal
Works.
- PHILADELPHIA—Samuel Bettle, Jr., Land
Title Building

- PITTSBURG—R. A. Rowland & Co.
- PORTLAND, ORE.—A. J. Capron, Ains-
worth Building.
- SALT LAKE CITY—Thomas A. Williams,
209 Scott Building.
- SAN FRANCISCO—J. E. Dwan & Co., 151
Tehama Street.
- SPOKANE—Tousley & Wear.
- ST. LOUIS—Carl Bratt, Mgr., Odd Fel-
lows Building.
- WASHINGTON, D. C.—Robert S. Bishop,
The Evans Building.

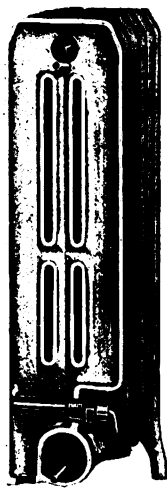
Furniture, Rugs, Decorations

- ☞ Sketches, plans and estimates submitted for residence interiors, clubs, churches, public buildings.
- ☞ Correspondence with architects solicited.

WILLIAM A. FRENCH & COMPANY

MINNEAPOLIS

SAINT PAUL

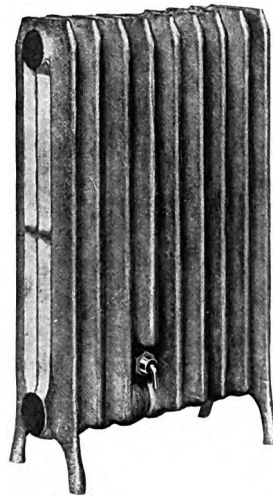


Mr. Architect: Before specifying a Radiator investigate the

Knapp Center-Feed Radiator

for Hot Water and Steam Heating.

Eliminates all Cutting of Floor Joists. Does away with all Pipe Threading, Fittings and Valves.



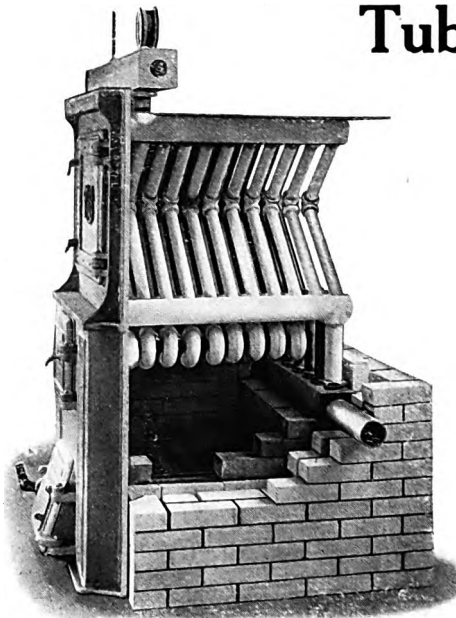
Greatly reduces cost of installation. Great improvement over old style radiators. Can change size of Radiators without changing of feed pipes.

Write now for more complete information of the most wonderful Radiator made.

KNAPP HOLDING CO.
1704-6-8 Central Avenue MINNEAPOLIS, MINN.

PERFECTION OF HEATING BOILERS

The Knapp Water-Tube Boiler



MOST Efficient
MOST Economical
MOST Simple
MOST Perfect Combustion
OF ANY Boiler
ON THE Market

CORRESPONDENCE SOLICITED

Knapp Boiler Works, Inc. 1700 Central Avenue
Minneapolis, Minn.

The "RICHMOND" Concealed Transom Lift



"Simply Turn the Knob"

**In a Class
by Itself.**

This new device marks an epoch in the manufacture of fixtures for the mechanical equipment of modern buildings, being the first and only concealed contrivance yet devised that will successfully and easily operate transoms.

**Invisible
and
Compact.**

All parts except only the operating knob, are concealed within the door trim—the device being installed upon the back of the door-jamb before the trim is applied. It is light, compact and operates easily, noiselessly and surely.

**Simple to
Operate.**

To open or close transom to any required angle, simply turn the knob on the door trim, and when the required angle is reached, let go, and the transom stops, and cannot be moved until knob is again turned. No locks or hinges are required to hold the transom, the device itself serving every function required.

**Scientific
Principles.**

The "RICHMOND" Concealed Transom Lift is constructed in accordance with important scientific principles. It is positive in action and contains but few joints or contacts. The different parts work together smoothly and it is practically impossible for it to get out of order—no danger of rods slipping or cogs failing to turn as sometimes happens in the old style appliances.

**Convenient
For
Operator.**

Think of the convenience of being able to move the transom to any desired angle by a simple turning of a knob within easy reach. Compare this with the clumsiness, unreliable and unsatisfactory working of the usual style of transom fixture.

**For all Size
Transoms.**

The "RICHMOND" Concealed Transom Lift will operate such sized transoms as are used above doorways in hotels, office buildings, apartments, schools, etc. A Giant Pattern device is made for transoms over entrance doors or casement windows.

Easily Set. The device leaves our factory completely assembled except for the pivot parts which are placed in jamb and ends of transom. These parts are very simple and easy to attach and the installation requires less work and time to install than the ordinary and exposed rod.

An interesting, descriptive booklet will be sent upon request.

THE M^CCRUM-HOWELL CO.

General Offices: Park Avenue and 41st Street, New York City

Branches and Agencies in All Cities

Manufacturers of RICHMOND Heating Systems. RICHMOND Bath Tubs, Lavatories and Sanitary Plumbing Devices. RICHMOND Concealed Transom Lifts. RICHMOND Suds Makers. RICHMOND Suction Cleaners. RICHMOND Vacuum Cleaning Systems.

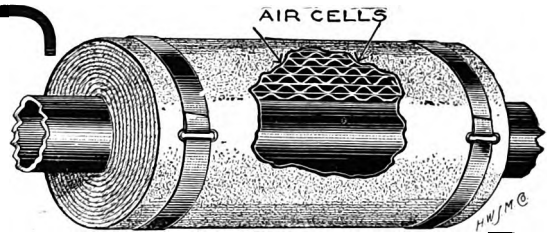
Five Plants: One at Norwich, Conn.; Two at Uniontown, Pa.; One at Racine, Wis.; One at Chicago, Ill.

If it's "RICHMOND" it's Right



The Cut Stone, both for the exterior and interior, of St Marks Church, as illustrated in this issue, was furnished by the WM. PENN CUT STONE COMPANY, Minneapolis, Minn.

Improperly Covered Steam Pipes Cause Fires!



J-M ASBESTOCEL

The following, which appeared in a recent issue of a leading engineering magazine, shows the importance of covering steam and hot water pipes with fireproof covering, to prevent them setting fire to building:

"If the contact of wood with a heated surface is continued sufficiently long, the temperature of a few degrees only above the boiling point of water is enough to produce a semi-carbonized film on the wood, which will start smoldering at a very low temperature. The heat arising from an oil or gas flame some distance away is sufficient to start the smoldering combustion. The temperature of a steam or hot water pipe, has often been found sufficient to cause ignition, due probably to the long continued heat generating certain hydro-carbons of low ignition point, which remain occluded in the pores of the semi-charred wood and are brought into close contact with the occluded oxygen. In fact, a constant draught, or even a sudden rush of air, coming in contact with highly carbonized wood, is sufficient to cause serious conflagration."

J-M Asbestocel Pipe Covering is made of Asbestos and cannot burn. It is not only a positive protection against fire from heated pipes, but the most efficient and durable pipe covering on the market. A postal request will bring the proof to you.

H. W. JOHNS-MANVILLE CO.

Manufacturers of Asbestos and Magnesia Products

ASBESTOS

Asbestos Roofings, Packings, Electrical Supplies, Etc.

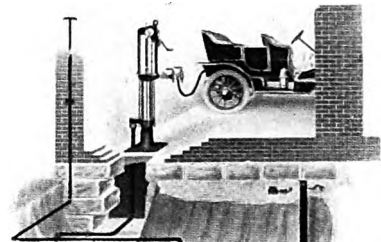
Baltimore	Cleveland	London	New Orleans	San Francisco	Boston	Dallas	Los Angeles	New York	Seattle
Buffalo	Detroit	Milwaukee	Philadelphia	St. Louis	Chicago	Kansas City	Minneapolis	Pittsburg	

For Canada—THE CANADIAN H. W. JOHNS-MANVILLE CO., LIMITED

Toronto, Ont.	Montreal, Que.	Winnipeg, Man.	Vancouver, B. C.
---------------	----------------	----------------	------------------

921

The Right Way to Handle Gasolene For Safety



EVERY AUTOMOBILE OWNER

owes it to his business, to his family, and to himself to find out how much *convenience*, how much *economy*, and how much *safety*, a Bowser Gasolene Storage Equipment guarantees.

Steel tank is buried outside, and is connected to a self-measuring pump inside the garage. Tank is properly vented, is fire-proof, and is rust-proof in the ground.

Bowser Storage Systems meet every demand for handling all kinds of oils and liquids. They work with *no* waste, add greatly to convenience, and guarantee immunity from explosion and fire hazard.

We have representatives in all large cities who are experts in oil storage matters. They are thoroughly familiar with oil storage systems, and are conversant with city ordinances and insurance regulations.

Write for our complete set of bulletins, which furnish very valuable information. Ask for complete catalog No. 49.

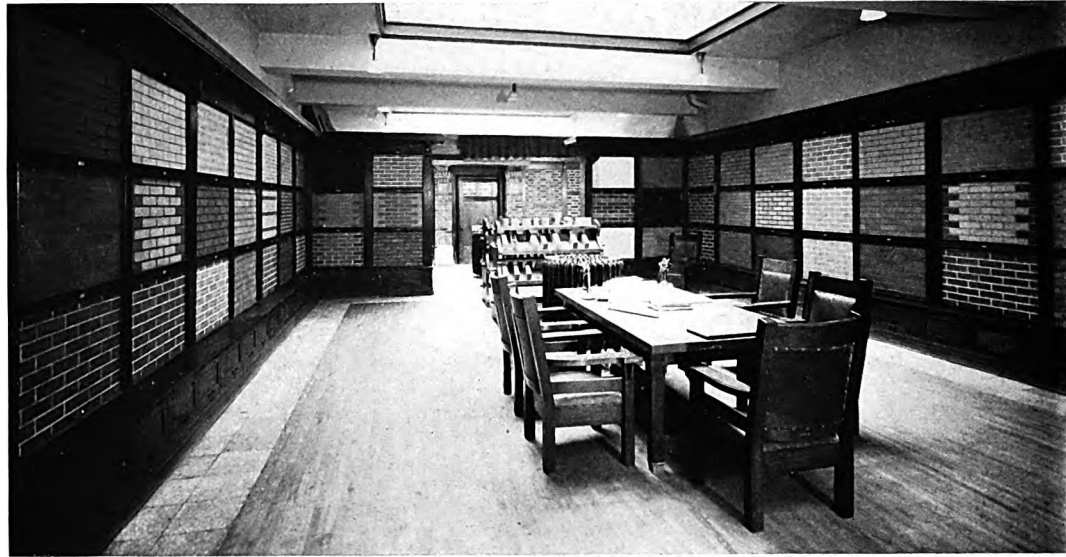
S. F. BOWSER & Co., Inc., Fort Wayne, Ind.

141 Milk St., Boston
50 Church St., New York

1313 Arch St., Philadelphia
Fisher Building, Chicago

612 Howard St., San Francisco
66-68 Frazer Ave., Toronto

11 North Fifth Street, Minneapolis, Minn.



DISPLAY ROOM

30 Plants30 Plants

We Manufacture Every Brick We Sell

THE intelligent choice of colors to properly blend together and produce an effect in harmony with the character of the building, its style of architecture and its surroundings, is a matter of vital importance. It is a part of our service to study this question with the architect and his client, and suggest appropriate shades laid in the proper bonding, to suit the conditions in each case.

Hydraulic Bricks were used in the following buildings displayed in this issue:

St. Marks Church (Interior)	Hydraulic Press Brick
Preston King Residence	Hydraulic Colonials
Robert L. Cobb Residence	Hydraulic Colonials
Meyers Building	Hydraulic Vitrified Brick
Shubert Theatre	Terra Cotta

Hydraulic Pressed Brick Co.

Office and Display Rooms:
 211 South Fourth St., Minneapolis

500,000,000 Annual Capacity

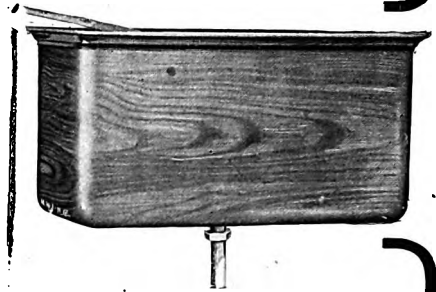
Not a Joint, Seam, Crack or Pore in J-M Sanitor Seats and Tanks

They are moulded in one solid piece under heavy hydraulic pressure from specially treated indurated fibre. There are no sections to come apart—no bolts, braces, screws or nails to work loose—no pores, cracks or crevices to harbor disease germs.

They cannot crack, split or warp. Seats and tanks made of this material have been in continuous service for more than twenty years, and are still in good condition.

Are furnished complete with fittings in mahogany, oak and white enamel finishes. Only an expert can detect them from wood.

Write nearest branch for Booklet—
or send us your name and address on
margin of this advertisement.



H. W. JOHNS-MANVILLE CO.

Manufacturers of Asbestos and Magnesia Products

ASBESTOS

Asbestos Roofings, Packings, Electrical Supplies, Etc.

Baltimore
Boston
Buffalo

Chicago
Cleveland
Dallas

Detroit
Kansas City
London

Los Angeles
Milwaukee
Minneapolis

New Orleans
New York
Philadelphia

Pittsburg
San Francisco
Seattle

St. Louis

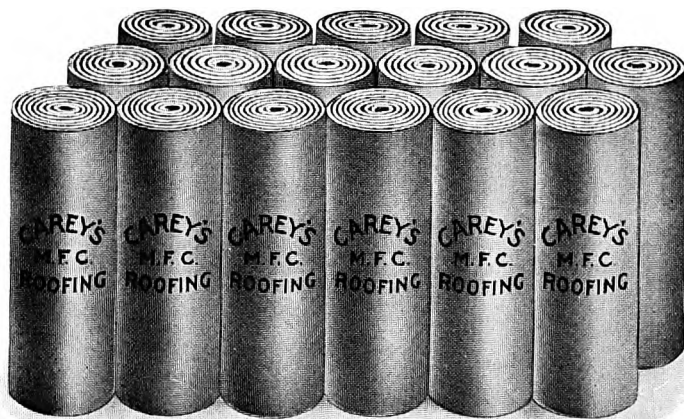
For Canada—THE CANADIAN H. W. JOHNS-MANVILLE CO., LIMITED
Toronto, Ont. Montreal, Que. Winnipeg, Man. Vancouver, B. C.

1210

CAREY'S MAGNESIA FLEXIBLE CEMENT ROOFING

First
in
Weight

First
in
Wear
and



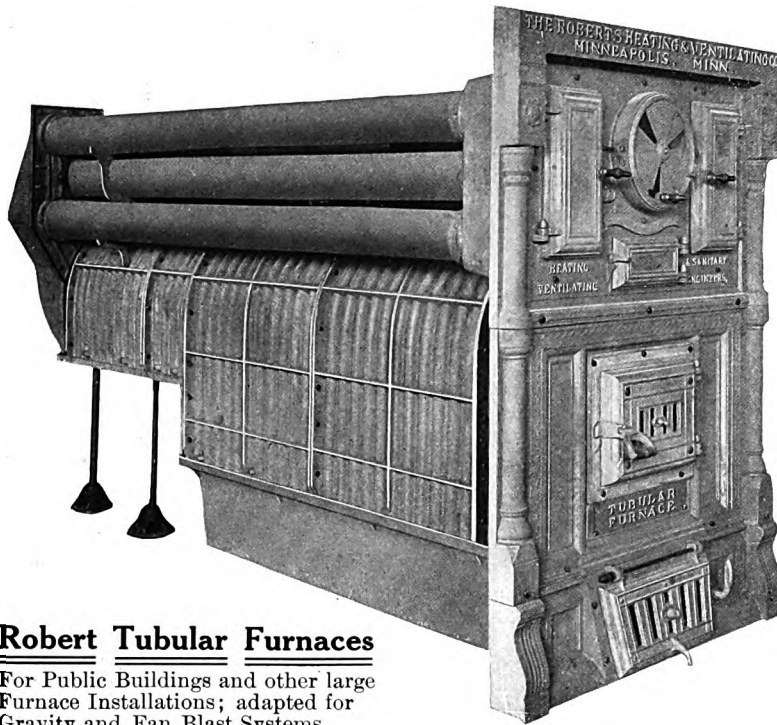
First
in
the
Minds
of
Prudent
Builders

We have Booklets giving details.

SOLE
NORTHWESTERN
AGENTS

W. S. NOTT COMPANY
MINNEAPOLIS, MINN.

200-212
FIRST AVENUE
SOUTH



Robert Tubular Furnaces

For Public Buildings and other large
Furnace Installations; adapted for
Gravity and Fan Blast Systems

Plans Furnished Free

The heating plant for any building should have careful consideration. Our Engineering Department, with an experience of twenty years behind it, is at your service.

Our Heating Plans Comprise

FAN BLAST SYSTEMS
DIRECT STEAM SYSTEMS
HOT WATER SYSTEMS
COMBINATION SYSTEMS
FURNACE SYSTEMS
GREEN HOUSE SYSTEMS

OUR CATALOGS ARE FREE

Catalog L—"Hot Water and Steam Heating"
Catalog M—"Warm Air and Combination Heating"
Catalog S—"Plumbing"

These catalogs contain much valuable information for the architect and dealer.

THE ROBERTS HEATING AND VENTILATING COMPANY

413-417 SOUTH FOURTH STREET, MINNEAPOLIS

Northwestern Marble and Tile Co.

MINNEAPOLIS, MINN.

Manufacturers and Contractors of Marble, Tile and Terrazzo Work
Also Fine Bank and Office Fixtures and Interior Wood Work

We carry a complete stock of Mantels and Fireplace Goods.

Northwestern Representatives Tesco Products Co.

A FEW OF THE BUILDINGS IN WHICH WE HAVE INSTALLED WORK

HOTELS AND CAFES:

Radisson Hotel
Dyckman Hotel
Pullman Cafe
Rogers Hotel and Cafe
Crombie's Cafe
Miller Hotel, New Hampton, Iowa
Six Royal Lunch Rooms, Minneapolis and St. Paul

BANK BUILDINGS:

Darrow Trust and Savings Bank, New Hampton, Iowa
Dakota County State Bank, Lakeville, Minn.
Security National Bank, Minneapolis
First National Bank, Minneapolis
Farmers and Mechanics Savings Bank, Minneapolis
South Side State Bank, Minneapolis
National Citizens Bank, Mankato
Farmers National Bank, Alexandria, Minn.
Union State Bank, Minneapolis
Institute of Savings, Minneapolis
Minnesota Loan and Trust Co., Minneapolis

FEDERAL BUILDINGS:

Custom House and Postoffice, Los Angeles, Cal.
Custom House and Postoffice, Seattle, Wash.
Custom House and Postoffice, Spokane, Wash.
Postoffice, Alexandria, Minn.
Court House and City Hall, Minneapolis
Court House, Duluth
Court House, Green Bay, Wis.
Lakewood Chapel, Minneapolis

OFFICE BUILDINGS:

Chamber of Commerce, Minneapolis
Chamber of Commerce Annex
Plymouth Building, now under construction, Minneapolis
Flour Exchange, Minneapolis
Nicollet Associate Building, Minneapolis
Myers Arcade, Minneapolis
Iowa State College
Ladies Dormitory, University of Minn.
Soo Passenger Station, Duluth
Plymouth Church, Minneapolis
St. Marks Church, Minneapolis

RESIDENCES:

George B. Lane, Minneapolis
E. J. Cooper, Minneapolis
F. M. Crosby, Minneapolis
E. Pennington, Minneapolis
Clifford, Minneapolis
H. C. Pierce, Cedar Island Lodge, Wis.
A. S. Brooks, Minneapolis
Walter J. Keith, Minneapolis
W. D. Douglas, Minneapolis
J. T. Wyman, Minneapolis
Geo. W. Peavy, Minneapolis

HOSPITALS:

St. Paul City Hospital
Minneapolis City Hospital
Swedish Hospital, Minneapolis
Asbury Hospital, Minneapolis
Northwestern Hospital, Minneapolis

THEATRES:

Miles Theatre, Detroit, Mich.
Miles Theatre, Minneapolis
Gayety, Minneapolis
Shubert, Minneapolis
Orpheum, Minneapolis
Metropolitan, Minneapolis
Princess, Minneapolis

For Prompt Service

TELEPHONE

Avery Steel and Iron Co.

N. W. Main 1425
T. S. Center 1418

Iron Work for Buildings
Designed, Furnished, Erected

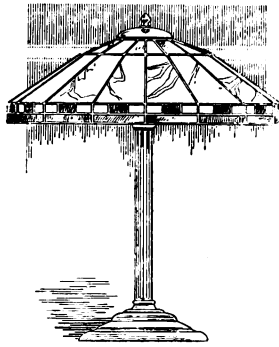
PERFECTION AUTO WASHERS *for* GARAGES

PARKER STEEL CORNER BEEDS

DUPLEX JOIST HANGERS
AND STEEL POST CAPS

Security Bank Building, Minneapolis, Minn.

CATALOGUE UPON REQUEST



No. 3083-\$30.00

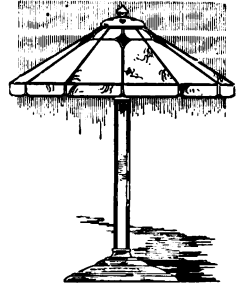
Lamps for Electricity and Gas

THE LAMPS ILLUSTRATED are but a suggestion of the many fascinating styles on display in our Art Lighting Fixture Section.

THE PRICE RANGE IS WIDE, the assortment complete, embracing Yellow Bronze, Dark Green Bronze, Pompeian, Silver and Gold.

There are Leaded Mosaic Shades that tone and soften the light, Delicate Cameo Shades, Antique Glass Shades and Exquisite Cretonne and Silk Shades.

ARCHITECTS ARE ESPECIALLY INVITED to bring their clients to our Lighting Fixture Suite for purposes of comparison, study and selection.



No. 3108-\$22.50

New England Furniture & Carpet Co.

Complete Furnishers of Homes, Offices, Hotels, Clubs, Churches, Theatres and Public Institutions

Fifth St., Sixth St. and First Ave. South, Minneapolis

Johnson, Jackson & Corning

INCORPORATED

FURNISHED ALL THE

Black Bangor and Mathews' Green Slate Roofing

Also Tiling for Interior Groined Roof Arches

Used on the New St. Marks Church

WE HANDLE BUILDING MATERIAL SPECIALTIES OF ALL KINDS

216-17 Lumber Exchange
MINNEAPOLIS

633 Ryan Building
ST. PAUL

PIKE & COOK

**Contractors
and Builders**

Office: 416 Fifth Street South
Minneapolis, Minn.

Pierson-Wilcox Electric Co.

Electrical Contractors
Telephones and Supplies

223 South Fifth Street

Minneapolis, Minn.



House at Lenox, Mass. Wilson Eyre, Architect, Philadelphia
Stained with Cabot's Shingle Stains and Lined
with Cabot's Sheathing Quilt

CABOT'S Sheathing and Deafening "QUILT"

A Thoroughly Scientific and Sanitary Heat Insulator and Sound-Deadener. Quilt is a cushion of dead-air spaces, and is cold-proof, sound-proof, decay and vermin-proof, and unflammable. Asbestos Quilt is the most fireproof lining made.

Samples and Circulars Sent on Request

SAMUEL CABOT, INC., BOSTON, MASS.

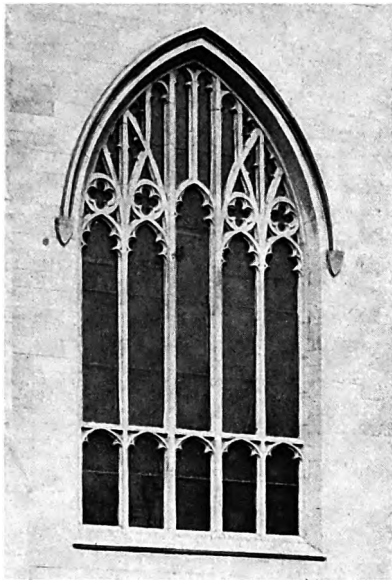
1133 Broadway N. Y. 350 Dearborn Avenue, Chicago

Cabot's Shingle Stains

Waterproof Cement Stains

Waterproof Brick Stains

Conservo Wood Preservative



Rear View of St. Marks Church
Minneapolis
Showing Window Tracery

NATIONAL STONE *The Perfect Artificial Stone*

THIS stone was selected for the tracery and interior trim for all the windows and for the ribs which support the vaulted ceiling in this church, the finest example of Gothic architecture in the Northwest.

Write us for information and quotations.

National Stone Manufacturing Co.
MINNEAPOLIS

Factory: 1338 Filmore Ave. N. E.

Office: 817 Phoenix Building



ARCHITECTURAL Sheet Metal Work

We make a specialty of Round Column Moulds for Concrete Construction with or without Caps. We also furnish Corrugated Steel Centering for Floor Slabs. All the above covered by patents, which we control by license. We rent, or furnish and erect.

Lefebvre-Deslauriers Roofing & Cornice Company
ST. PAUL, MINN.



Frank A. Seifert Plastic Relief Co.

2621-27 Dayton St. St. Louis

*Ornaments in Plaster, Staff,
Portland Cement, Caen
Stone Cement and
Composition for
Interior
and
Exterior*



MERCHANT'S OLD METHOD

Unequaled as a Roofing Plate.
 Unparalleled as to the Combination of Weight and Regularity of Coating.
 Unparalleled as to Rigid Assortment.
 Unparalleled as to Re-Squaring.
 Open Hearth Base.



MERCHANT & EVANS COMPANY

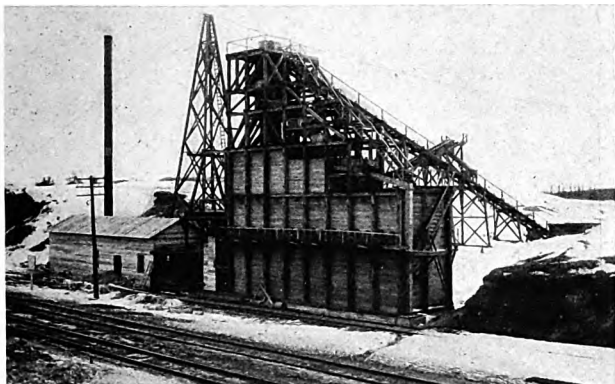
Manufacturers of the finest quality of Roofing and Bright Tins

PHILADELPHIA

New York City
 Chicago

Brooklyn
 Baltimore

Kansas City
 Denver



The Washed Sand & Gravel Company

No. 4—WASHED SAND for Concrete.
 No. 3—WASHED ROOFING GRAVEL
 Nos. 1 and 2—WASHED AGGREGATES

Two Sizes for Reinforced Concrete work. Send for circular.

OFFICE 514, LUMBER EXCHANGE, MINNEAPOLIS

Intelligent Application to Details

bringing success in its wake could have no better illustration than the experience of Mr. Brown, of *Brown's Carpet Cleaning Company*, who started in business with a determination that his work should be done just a little better than any other firm thought of doing, doing each order just as well as it could possibly be done. So step by step he advanced until now, besides the best Carpet and Oriental Rug Cleaning House in the Northwest, he has a *Storehouse* with a perfect system of ventilation and many conveniences unknown elsewhere. So if you have any rug cleaning that requires special care, or you wish to store furniture or other articles and feel satisfied, entrust them, knowing they will be all right, to

Brown's Carpet Cleaning Company

407 South Eleventh Street

Northwestern, Main 346
 Tri-State, Center 346

Minneapolis, Minn.

CZAR ENAMEL

¶ Have you taken notice of the Exceptional High Quality of the paper used in this magazine?

¶ This Paper is furnished by Us, and we can't recommend anything better than "Czar Enamel" for High Grade Magazines, Books, Etc.

The Sign  of Quality

¶ Its Smooth Surface, Strength, and Neat Appearance are what has made it so Popular.

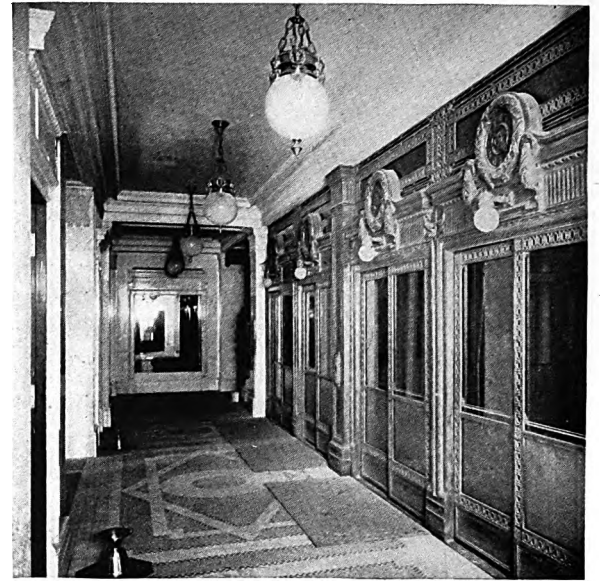
McClellan Paper Company

"The Home of Quality"

Sioux Falls

MINNEAPOLIS

Fargo Duluth



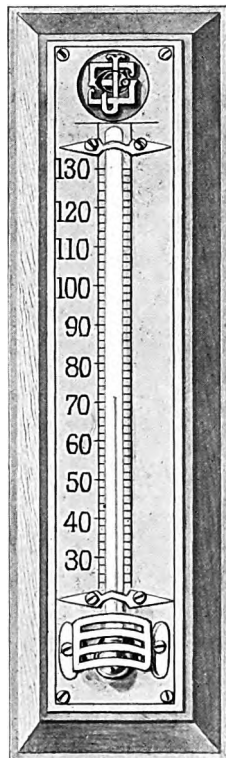
Elevator Fronts, Henry Building, Seattle, Wash.
Howell & Stokes, New York, Architects

Flour City Ornamental Iron Works

MAKERS AND DESIGNERS OF

Ornamental Iron and Bronze

27th Avenue and 27th Street South, and 29th Avenue
MINNEAPOLIS, MINN.



Installed in thousands of Buildings in the U. S.

Johnson System
of
Temperature Regulation

Installed in the Palaces of Europe

Johnson Service Company

NEW YORK

MINNEAPOLIS

MILWAUKEE

KEWANEE Radiators



¶ Elegant in design, simple in construction.

¶ Made in One, Two, Three and Four Column patterns, plain and ornamental, various heights.

¶ Heavy, malleable iron Push Nipples, produce a practical joint of great durability.

¶ Liberal air spaces between Sections render them effective and easy to clean.

¶ Radiate heat with economical use of fuel.

*Approved and Specified by Leading Architects
Will be pleased to send you catalog on request*

Kellogg-Mackay Company

Heating and Plumbing Supplies

419 West Eighteenth Street

MINNEAPOLIS:
824-28 Fourth Street So.

CHICAGO

SEATTLE:
New York Block

Power Equipment Co.

MINNEAPOLIS
INSTALLERS OF COMPLETE PLANTS



Producer Gas Engines
Water Tube Boilers
Corliss Engines
Automatic Scales
Pumps and Heaters
Power Transmission

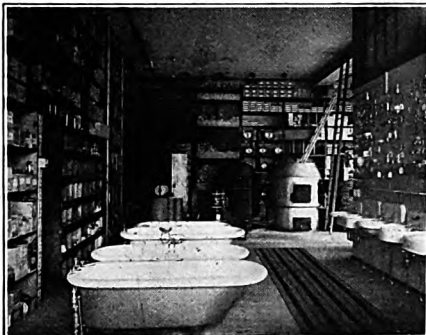
WE WILL BE GLAD TO FURNISH AN ESTIMATE ON ANY POWER INSTALLATION YOU MAY HAVE

TUNSTEAD HEATING CO.

Heating and Ventilating Contractors

Both Phones 483

223 South Sixth Street
MINNEAPOLIS, MINN.



H. KELLY & COMPANY

CONTRACTING
Steam Engineers

Steam and Hot
Water Heating

Plumbing and
Gas fitting

Large Stock Fine
Gas Fixtures

Office and Show Room 225-27-29 So. 3rd St.

MINNEAPOLIS, MINN.

HENNEN'S ELASTIC CALKING PASTE
Saves Fuel and Decorating because it prevents Wind, Dust, Smoke and Rain from getting in about window frames.



Manufacturers of Hennen's Weatherproof Glazing Putty
The best on earth, because it stays and does not crumble or crack loose—also Green House Putty for Green Houses.
MINNESOTA WEATHERPROOF CALKING & GLAZING CO.
Main Office and Factory, 210 Plymouth Ave., Minneapolis, Minn.

FOR A DURABLE MORTAR

SPECIFY EITHER

Crown Hydraulic Lime

OR

Austin Bricklayers Cement

GUARANTEED

MANUFACTURED BY

Fowler & Pay, Mankato, Minn.



CROWN IRON WORKS COMPANY

Structural **IRON WORK** Ornamental

1301 Tyler St. N. E.

Minneapolis, Minn.

Pittsburgh Plate Glass Company

Largest Jobbers and Manufacturers in the World of

GLASS

For anything in Builders' Glass, or anything in Paints, Varnishes, Brushes, or Painters' Sundries, address any of our branch warehouses see list below:

New York—Hudson and Vandam Sts.
Boston—41-49 Sudbury St. 1-9 Bowker St.
Chicago—442-452 Wabash Ave.
Cincinnati—Broadway and Court Sts.
St. Louis—Corner 10th and Spruce St.
Minneapolis—500-516 S. 3rd St.
Detroit—58-59 Larned St. E.
Grand Rapids, Mich.—39-41 No. Division St.

Pittsburgh—101-103 Wood St.
Milwaukee, Wis.—492-494 Market St.
Rochester, N. Y.—Wilder Bldg., Main & Ex. Sts.
Baltimore—310-12-14 W. Pratt St.
Cleveland—1480-1434 West Third St.
Omaha—1608-10-12 Harney St.
St. Paul—459-461 Jackson St.
Atlanta, Ga.—30-32-34 S. Pryor St.

Savannah, Ga.—745-749 Wheaton St.
Kansas City—Fifth and Wyandotte Sts.
Birmingham, Ala.—2d Ave. and 29th St.
Buffalo, N. Y.—372-74-76-78 Pearl St.
Brooklyn—Third Ave. and Doan St.
Philadelphia—Pitcairn Bldg., Arch and 11th Sts.
Davenport, Iowa—410-416 Scott St.
Oklahoma City, Okla.—210-212 W. First St.

Mirrors, Bent Glass, Leaded Art Glass, Ornamental Figured Glass, Polished and Rough Plate Glass, Window Glass, *Wire Glass*, Plate Glass for Shelves, Desks and Table Tops; Carrara Glass, more beautiful than white marble. General Distributors of Patton's Sun Proof Paints and of Pitcairn Aged Varnishes.

**Here are Wall Coverings
That Will Carry
Out Your
Designs**



**ART KO-NA
CLOTH**
Daintiest of all
Wall Fabrics

If you will take
the pains to
investigate

FAB-RIK-O-NA
(Trade Mark Reg. U. S. Pat. Off. and in Pat. Off. in Gr. Br.)
WOVEN WALL COVERINGS

You will specify them wherever you are particular about artistic effect with goods of this character. Their texture offers a wide choice. They are dainty in design, delicate or bold in colorings, permanent on the wall and permanent in color. Art Ko-Na, Kraft Ko-Na, Kord Ko-Na, etc., offer a great variety of tints, textures and color schemes. Fab-Rik-O-Na Fast Color Burlaps are of the finest quality. To be sure that your specifications are being carried out, look for the Fab-Rik-O-Na trade mark which is printed on the back of every yard of Fab-Rik-O-Na woven wall coverings.



We will be glad to send out free book of assorted samples and booklet "New Ideas for Home Decorations," with ten illustrations in color.

H. B. WIGGIN'S SONS CO.
37 Arch Street Bloomfield, N. J.

**Like a
Solid Wall**


they stand against the most intense heat, and are endorsed by the National Board of Fire Underwriters.

**Mullins'
Fire Proof
Windows**

Frame, sill and sash are lockseamed and riveted, with no soldered joints; absolutely perfect in every detail, with heat expansion and contraction provided for


**THE
W. H. Mullins Co.**
215 Franklin St.
SALEM, OHIO

Architectural Decorating Co.
Plaster Relief Ornaments in Composition

Stucco		Cement
<i>Capitals</i>		<i>Cornices</i>
<i>Brackets</i>		<i>Coves</i>
<i>Panels</i>		<i>Mouldings</i>
<i>Bases</i>		<i>Garden</i>
<i>Gable</i>		<i>Vases</i>
<i>Ornaments</i>		<i>Seats</i>

CHICAGO
1600-06
Jefferson
Street

SEATTLE
1255
First Ave.
South

Art-Metal  **Bronze-Steel**

In the year 1888 a factory was established which has made the name of Jamestown, N. Y. as celebrated as the historic Va. town of the same name.

ART METAL CONSTRUCTION CO.

are the originators in the adaptation of Sheet Steel for the furnishings of Public Buildings of every character. Their resources are unlimited---Capitalized for \$1,750,000---Factory capacity 7 acres of floor space and employing 1200 skilled mechanics---ARCHITECTS and OWNERS ARE SOLICITED.

Jamestown, N. Y. The Address **"Art Metal"**

Extraordinary Capacity

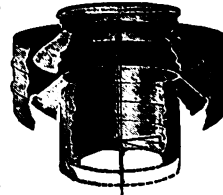
for proper ventilation, made with metal or skylight glass top, with patented sliding sleeve dampers, adjustable to any degree, and storm and dust proof at all times, open or closed. Unusual excellence in construction.

Burt Ventilators

are used on the most important buildings in the country, and everywhere they are giving superior service. Use the Burt once, and you will come back for more. Burt Ventilators are the standard ventilators of America.

Send for our 92-page catalog, giving fine illustrations of mills, shops, factories and residences where Burt Ventilators are in successful use.

The Burt Manufacturing Company
933 Main Street, Akron, Ohio.
Geo. W. Reed & Co., Montreal, Sole Manufacturers of Burt Ventilators for Canada.



SPECIFY

the door that's best for the Builder

In specifying doors, you should consider quality, workmanship and appearance. Doors that are solid in grain and fibre as they are well built—doors that are as well built as they are beautiful are

Chehalis Fir Doors

Chehalis Fir Doors are made out of Old Growth Yellow Fir and *nothing else*. They are built along the lines generally accepted as best by the oldest and most experienced door builders. They are built with vertical stiles, and rails and slash grain panels and are the only doors made where the wood of all five panels is picked for *similarity* of grain. This is but one of many features, all of which place Chehalis Fir Doors in beauty, endurance and economy

Absolutely in the Lead

Let us send you our catalog (J). It will tell you many things of interest from the architects points of view. A postal card brings it. A dime brings both catalog and samples of wood finished in Mahogany, Oak, Walnut.

Chehalis Fir Door Co.
CHEHALIS, WASH.



ST. REGIS APARTMENTS, SAN FRANCISCO, CAL.

MEDUSA WHITE PORTLAND CEMENT
Used for Entire Exterior Plaster

MEDUSA WATERPROOFING
(Patented April 23, 1907)

Makes concrete impervious to water and gives absolutely permanent results

Not a Wash or an Experiment

Does not affect strength, setting or color of Portland Cement

Write for prices and pamphlets giving instructions for use

SANDUSKY PORTLAND CEMENT CO., Sandusky, Ohio, U. S. A.
Also obtain price on Medusa Gray Portland Cement
Annual Production 1,500,000 bbls.



Minneapolis Steel & Machinery Co.

MINNEAPOLIS, MINN.

Engineers, Contractors and Manufacturers



STOCK PAVILION, DENVER.
900,000 lbs. Structural Steel

We carry a large stock of

STRUCTURAL STEEL

for
Business Buildings, Shops, Bridges, Steel Water Tanks and Towers, Store Fronts, Stairs, Fireproof Steel Grain Elevators, etc.

BRANCH OFFICES:

MINNEAPOLIS, City Office	1 Corn Exchange Building
SALT LAKE CITY	323 Felt Building
EL PASO	313 E. P. & S. W. Building
DENVER	313 Mining Exchange
SEATTLE	338 Globe Building
BUTTE	352 Phoenix Building

A. Moorman & Company

Designers and Makers of

Bank Fixtures and Furniture

FIXTURES IN WOOD, MARBLE AND TILE
METAL DECORATIONS, ETC.

Designs and Estimates Submitted

413-15-17 Rosabel Street ST. PAUL, MINN.

John J. Cone A. W. Fiero Robert W. Hunt
Jas. C. Hallstad D. W. McNaugher

ROBERT W. HUNT & CO.

BUREAU OF INSPECTION
TEST and CONSULTATION

90 West St. 1121 The Rookery Monongahela Bank Bldg. Norfolk House
NEW YORK CHICAGO PITTSBURGH CANNON ST. E. C.
LONDON

INSPECTION OF

**Buildings, Bridges, Engines,
Boilers, Railway Material**

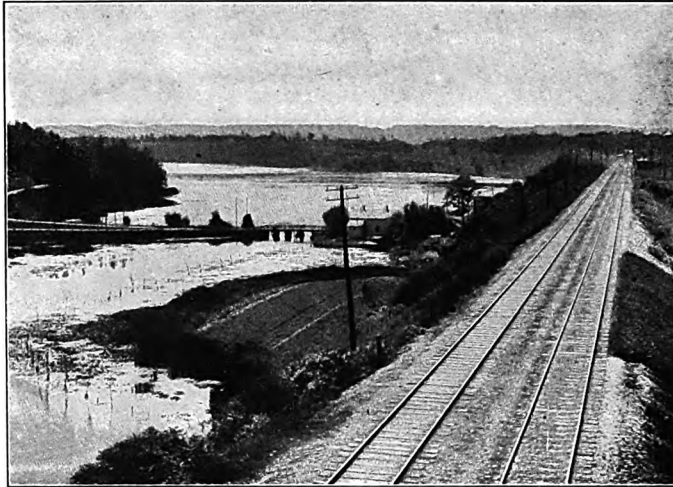
CHEMICAL AND PHYSICAL LABORATORIES
Reports and Estimates on Properties and Processes.

THE DOUBLE TRACK OF THE GRAND TRUNK RAILWAY SYSTEM

Between Chicago, Niagara Falls and Montreal is one of the longest on the American Continent

Excellent Train Service

C H I C A G O
to Portland, Quebec,
Montreal, Toronto,
Boston, Philadelphia,
New York, Buffalo



Solid Through
Vestibule Trains
to the most important
business centers of
CANADA AND
NEW ENGLAND

VALLEY INN
View on Grand Trunk Double Track Route, near Hamilton, Ont.

Illustrated Literature, Time Tables, etc.,
Sent free on application to

H. G. ELLIOTT,

First Assistant General Passenger Agent,
135 Adams St., Chicago, Ill.



When Planning the Home Don't Forget Electric Lighting

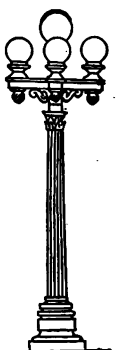
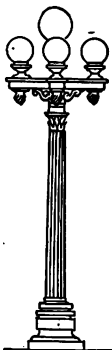
The many and varied uses of Electricity in the Home and recent reductions in charge for Service combined with the use of the new bill-reducing Tungsten Lamp, not only makes Electric Lighting *the* Light for the average Home, because of the possibility of obtaining all its former advantages without its prohibitive cost, but such convenience as are afforded by the use of Vacuum Cleaner, the Electric Flat Iron, etc., cut down the drudgery of House work. "A switch misplaced makes many unnecessary steps in a lifetime." Our experts will gladly assist you in planning the Lighting scheme for your residence—free.

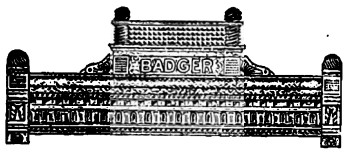
THE MINNEAPOLIS GENERAL ELECTRIC COMPANY

N. W., Main 189; T. S., 1320

15 SOUTH FIFTH STREET

Ask for the Commercial Department





BADGER QUALITY ALWAYS LEADS

We manufacture a complete line of Cornices, Skylights, Ventilators, Metal Ceilings, Roofings, Sidings, Eaves Trough, Conductor Pipe, Tanks, Screw Joint Well Casing and Culvert

ESTIMATES FURNISHED

Badger Steel Roofing & Corrugating Co.

213-15 S. Second Street
LA CROSSE, WIS.

DRAKE MARBLE & TILE COMPANY

MANUFACTURERS MARBLE MOSAICS MANTELS
WHOLESALE CONTRACTORS

ST. PAUL, MINN., OFFICE AND FACTORY, 58-76 PLATO AVE.
MINNEAPOLIS, MINN., 607 SECOND AVE. S.

OTIS ELEVATOR COMPANY

NEW YORK

CHICAGO

Passenger and Freight Elevators

Minneapolis Office: Security Bank Bldg.

St. Paul Office: Endicott Bldg.

"THE STANDARD OF THE WORLD"

(The Standard of Quality)

Mason City Brick and Tile Company

MANUFACTURERS OF

HOLLOW BUILDING BLOCKS

Established 1882

MASON CITY, IOWA

Incorporated 1892

Ornamental Iron and Bronze

Twin City Iron and Wire Works
ST. PAUL, MINN.

Office & Salesroom
350 CEDAR AVENUE

Factory
WEST WATER STREET

SAMSON SPOT SASH CORD

is warranted free from the imperfections of braid and finish which make cheap grades wear out so quickly



SAMSON CORDAGE WORKS

Send for Samples and Information

BOSTON, MASS.



DURABLE LIKE STONE
ELASTIC LIKE WOOD
IS THE

FAMA STONEWOOD

FLOORING, WAINSCOTING, ETC.

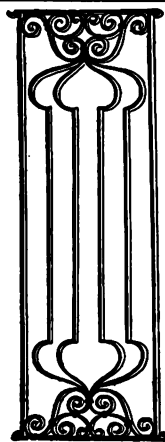
MINNESOTA FAMA STONEWOOD CO.
N. W. Phone Cedar 5219 ST. PAUL, MINN.

ARCHITECTS'
ENGINEERS' and
DRAUGHTSMANS'

SUPPLIES

John A. Schlener Stationery Co.

Minneapolis, Minnesota



Builders Iron Works Co.

Manufacturers of

Ornamental Iron, Wire and
Brass Work

Bank, Office and
Balcony Railings

Elevator Enclosures

Window Guards

Grill Work, Etc.

ST. PAUL 1851 University Avenue
(Midway) MINNEAPOLIS

**American Terra Cotta
and Ceramic Company**

**Architectural
Terra Cotta**

602 Chamber of Commerce Bldg.
CHICAGO

THE CUTLER MAIL CHUTE

Model F the New Standard



Simple and substantial in construction, tasteful in design, quickly and easily accessible to authorized persons only. Should be specified explicitly. All the essentials of modern Mail Chute construction are covered by the Cutler patents and

Infringers are being prosecuted

CUTLER MAIL CHUTE CO., Rochester, N. Y.

**MINNEAPOLIS OFFICE and
SCHOOL FURNITURE CO.**

MANUFACTURERS OF

**Office, School and Church
Furniture**

Office and Factory:
Corner 8th St. and 8th Ave. S. E.

MINNEAPOLIS

FRANK A. PIGEON & CO.

Northwestern Agents for **A. KIECKHEFER ELEVATOR CO.** Manufacturers of

ELEVATORS

Passenger and Freight, Electric and Hydraulic

Tri-State Phone 10893
Works, Milwaukee, Wis.
N. Y. Office, 136 Liberty St.

112 Western Avenue
MINNEAPOLIS, MINN.

The Architect's Ideas are worked out here with intelligence and accuracy, and their effectiveness intensified by the utmost perfection of execution. Our knowledge and experience is at the disposal of any interested architect. Consult us freely on costs, designs, materials, details, etc.

**ST. PAUL ROOFING, CORNICE
and Ornament Co.**
Leading Sheet Metal Plant
of the West
ST. PAUL

VAULTS AND SAFES



FIRE AND BURGLAR PROOF
For Banks, Court Houses, Etc.
PRISON AND JAIL WORK
Barnes Standard Construction
Factory: Pittsburg, Pa. Established 1845
Heilig & Elliott, General Agents
10 South Fourth St., MINNEAPOLIS

HIGH GRADE IMPERVIOUS

FACING BRICK

ARCHITECTS ARE INVITED TO
INSPECT OUR DISPLAY ROOM

NORTHERN BRICK & SUPPLY CO.

GILFILLAN BUILDING, SAINT PAUL

**JOHN D. ROBERTS
CONSULTING ENGINEER**

Contractor for Steam and Hot Water
Heating Plants

Repairing of Heating Plants a Specialty

Phones: N. W. Cedar 3461; Tri-State 1985

322 Gilfillan Block

ST. PAUL, MINN.

Smith & Wyman Co.

Manufacturers of

**Doors, Sash and
Interior Finish**

Minneapolis, Minn.

Saint Paul Foundry Co.

Structural Engineers

Manufacturers of

ARCHITECTURAL IRON WORK

Steel Trusses, Girders,
Columns and Buildings

Large Stock on hand of Beams, Channels,
Angles and Plates.

General Foundry, Blacksmith and
Machine Work.

OFFICES:

Como Avenue and MacKubin Street.

WORKS:

G. N. Ry., near Como Avenue

Saint Paul, - Minnesota

The Plymouth Brands OF PLASTER Stand for Quality

PLYMOUTH PLASTER BOARD
Is the Strongest and Best

Write for Sample
and Particulars

Plymouth Gypsum Co.
Fort Dodge, Iowa

HAROLD JOHNSON

R. F. JACKSON

JOHNSON & JACKSON

Building Material
SPECIALTIES

Phones: Main 1218, T. C. 2983

216-217 Lumber Exchange MINNEAPOLIS, MINN

N. W. Roofing, Cornice and Stamping Works

Established 1887

Steel Ceiling, Fireproof Windows, Doors, Skylights

Roofing in Tile, Slate, Gravel

Office and Works: 1111-1113 South Fifth Street, Minneapolis, Minn.

Terra Cotta Hollow Tile

has been so long and successfully used
as a fireproof protection for the struc-
tural members of large buildings that
the value of this material for structural
purposes has been overlooked. We
have recently published a book entitled

Fireproof Houses of Natco Hollow Tile and How to Build Them

which anyone interested in residence
construction will find extremely valu-
able. If you have not received a copy
ask for one.

National Fire Proofing Company

Manufacturers of

Natco Hollow Tile

Contractors for

Fireproof Construction

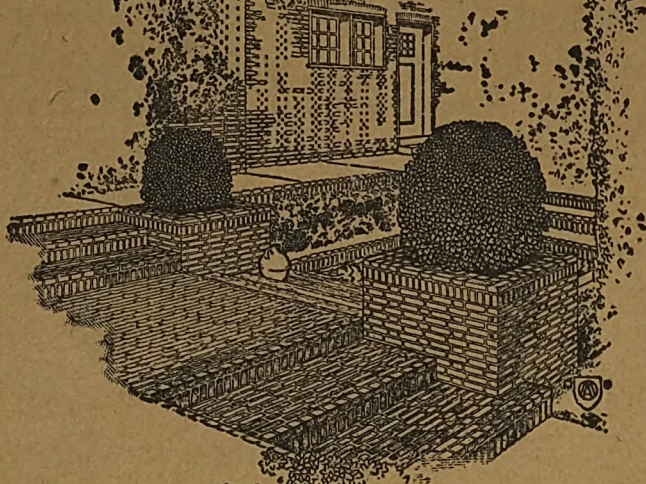
ORGANIZED 1889

PITTSBURGH Fulton Building	MINNEAPOLIS Lumber Exchange
CHICAGO Commercial Nat'l Bank Bldg.	WASHINGTON Colorado Building
NEW YORK Flatiron Building	LOS ANGELES Central Building
PHILADELPHIA Land Title Building	CINCINNATI Union Trust Building
BOSTON John Hancock Building	CANTON, OHIO City National Bank Building
TORONTO, CANADA Trader's Bank Building	

REG. U.S. PAT. OFF.
BRICK
 Moulding CHICAGO

The most artistic building material known.

Combining *permanency* with delicate color and producing results impossible with any other face brick. *The Ideal Brick* for residences, formal gardens, terraces and pergolas — the varied textures and shadings giving the widest scope to individual selection. It has a literature — yours for the asking.



Thomas Moulding Company
 Chicago

FIRST, "TIN"—AND THEN "SCOTT'S EXTRA COATED"

Protection against wind, storm, weather, fire, lightning—That's the assurance of specifying TIN roofing. An added fire insurance without extra cost.

Protection against short life, corrosion, other dissatisfaction—That's the assurance of specifying



SCOTT'S
 Extra Coated
 Roofing Tin



"Scott's" is made under the *Old Welsh* process combining all modern improvements. The *Open Hearth* method frees it from Sulphur and Phosphorus excess. Then "SCOTT'S EXTRA COATED" is hammered, hammered, HAMMERED, till not a defect or blowhole remains and the ingots are made ductile and tough.

Our Catalog M Free on Request

FOLLANSBEE BROTHERS CO.
 PITTSBURG, PA.

Only American Manufacturers Hammered Open Hearth Roofing Tin

Buckhorn Brand of Varnishes

Buckhorn Interior Finish

This is the very Best Interior Varnish for all high-grade interior work, except floors. Is light in color and can be polished or rubbed to an egg shell finish in two days.

Buckhorn Floor

This Floor Varnish is excelled by none and equaled by few in toughness and wearing qualities.

Buckhorn Elastic Spar

Is an ideal Outside Varnish. It has no superior.

Itasca Interior

For an Interior with a gloss finish, is a very satisfactory article.

We would be pleased to furnish samples, catalogue and prices upon application

North Star Varnish Company
 MINNESOTA TRANSFER, MINN.

**The Northwestern
 Terra Cotta Co.**

Manufacturers of

**High Grade Architectural
 Terra Cotta**

*Enameled Work
 a Specialty*

CHICAGO