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No. 1718

THE NEW TERMINAL STATION AT CHICAGO FOR THE CHICAGO AND
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Architectural Exhibitions.
Reduced Cost of Building.
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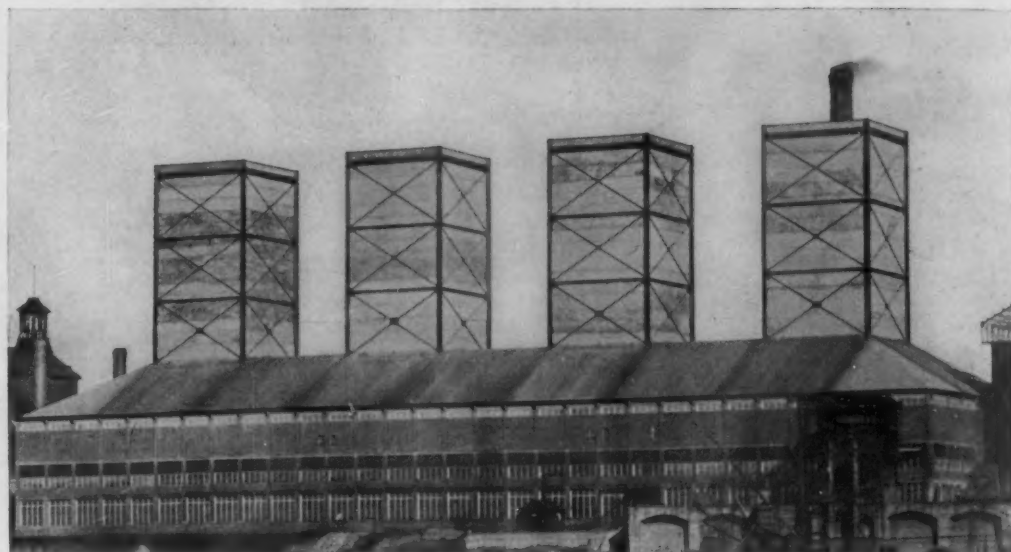
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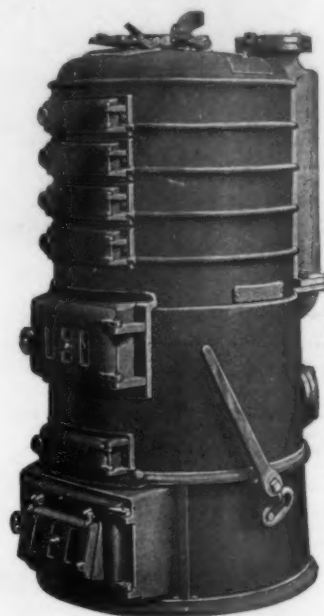
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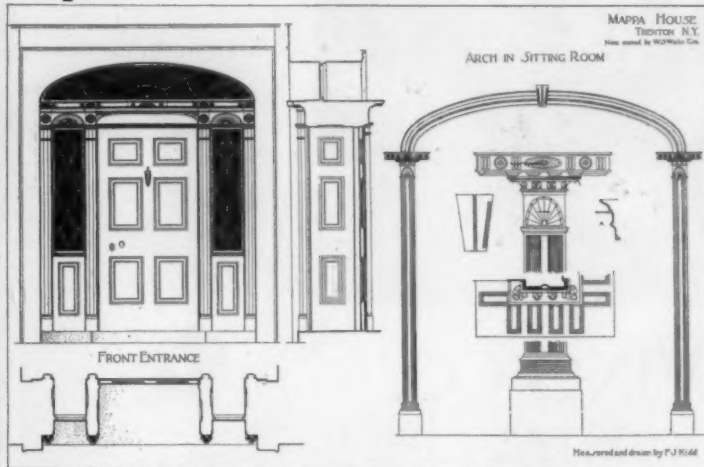
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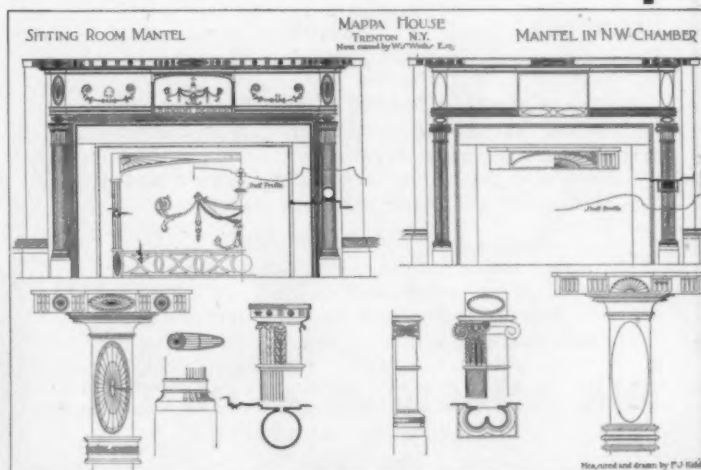
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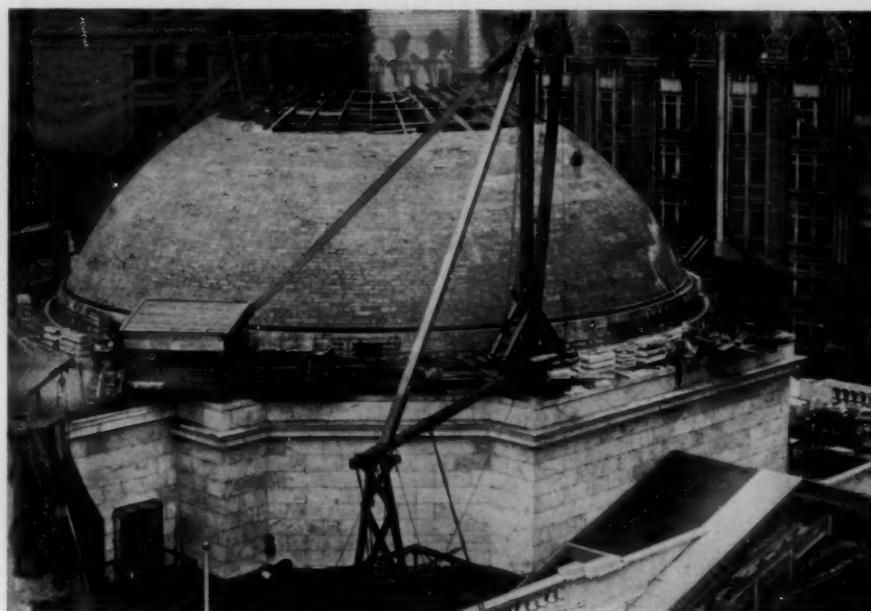
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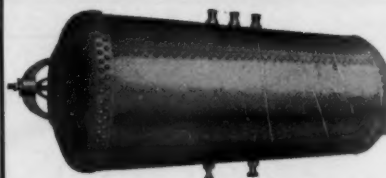
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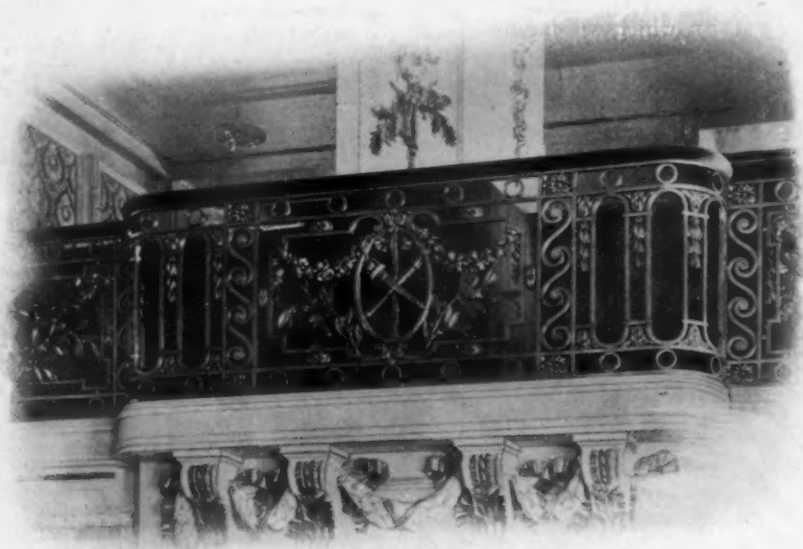
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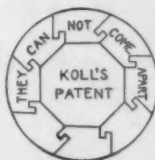
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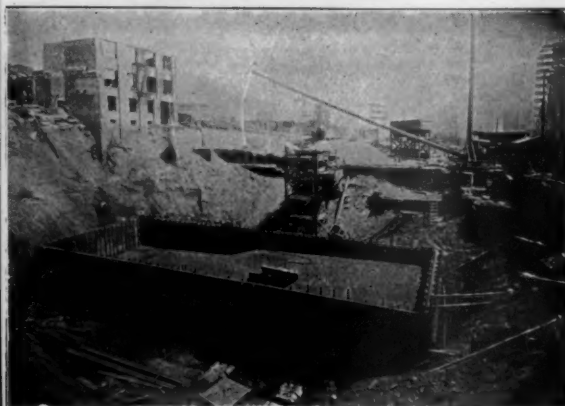
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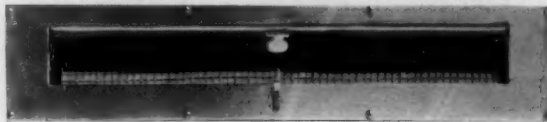
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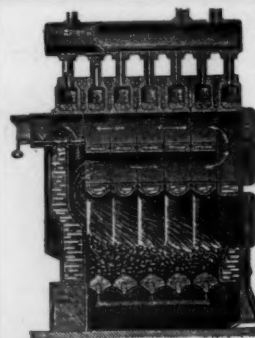
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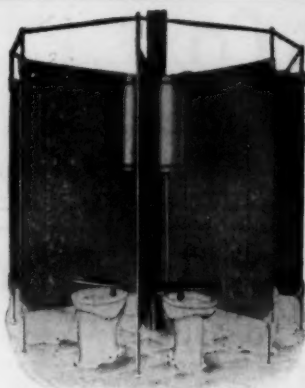
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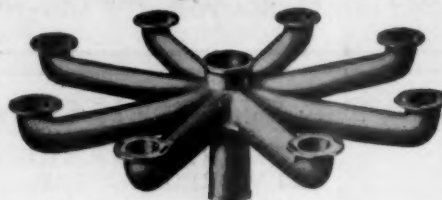
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WEDNESDAY, NOVEMBER 25, 1908.

No. 1718



The New Terminal Station at Chicago of the Chicago & Northwestern Railway

BETWEEN Kinzie street and Madison street, Clinton and Canal streets, some fifteen acres will be occupied by the tracks and station of the new passenger terminal at Chicago of the Chicago & Northwestern Railway. The magnitude of this important addition to the architectural features of Chicago, and which it is estimated will cost completed upwards of twenty million dollars, can best be realized from the following statement of area.

The area of the basement floor exceeds two acres, the street floor almost as much, while the train shed covers a surface six acres in extent. It will thus be seen that the space devoted to public use comprises an area ten acres in extent.

This new terminal occupies practically four city blocks, and passes over the intersecting streets, Washington and Randolph, by means of viaducts.

The general ground plan calls for an elevated terminal reached by two elevated approaches of four tracks each, and a train shed 840 feet long and 320 feet wide, that will contain sixteen tracks, each with a capacity of fifteen cars.

The approaches will, in addition, embrace some 30

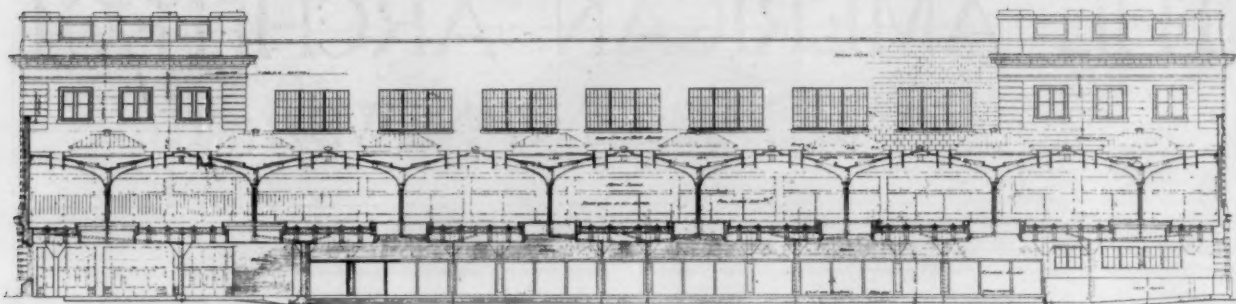
acres of ground, equally divided between the north and west approaches.

To clearly understand the plan of this terminal, it must be borne in mind that there are three floors devoted to the handling of passenger traffic. The street level, the train shed level, and above this a third floor containing the several features now recognized as important and necessary in the modern railway station.

Through the lofty portico of the main entrance on Madison street, the traveler enters the vast concourse on the street level. This concourse, where all the business for travel is conducted, is 100 feet wide by 250 feet long.

Surrounding this concourse are the usual groupings of ticket offices, baggage rooms and other conveniences necessary to the traveling public.

An important feature is the segregation of passenger traffic. In addition to the concourse for through traffic, there is a suburban concourse in the center of the station on the street level which extends from Canal to Clinton streets. This important feature prevents the confusion and annoyance that exists in large terminals during the so-called "rush hours" of suburban traffic, and avoids all inconvenience to the through passenger.



SECTION THROUGH TRAIN SHED

LOOKING TOWARD CONCOURSE

The emigrant traffic, which forms so large a part of the passenger transportation of railways centering in Chicago is equally well provided for. Ample space has been set aside for the emigrant traveler, who finds a clear, well-lighted space, with tiled floors and enameled walls, with a waiting room, restaurant and other necessary features.

On the second floor, or train shed level, is the marble-lined main waiting room, one hundred feet long by two hundred feet wide. This room has a barrel-vaulted ceiling eighty feet high.

One of the interesting architectural features of this terminal is the Washington street subway, where the structure crosses the street. At this point the street, originally 80 feet wide, will be increased in width to 120 feet.

This subway will be lined with white enameled tiles, will be brilliantly lighted, and owing to its architectural treatment forms an important feature of the terminal. The portals to this subway will be in the form of granite arches, treated in a monumental way. The problem presented to the architects in the planning of this structure was to provide for the inevitable expansion of traffic and to meet a growth of business that was sure to follow. The capacity of the present station on Wells street is but 50,000 each twenty-four hours. To-day this is entirely inadequate, and the consequent confusion taxes every resource of the railway officials. The new structure will be able to care for a traffic of 250,000 each twenty-four hours, and will thus afford ample facilities for many years to come.

The architectural treatment of the train shed, which will be 840 feet long, and extending over three city blocks, is interesting.

To shut from view the monotonous expanse of the long train shed roof, a well-designed curtain wall forty-eight feet high, of brick and granite, will be erected, and will include in its treatment the portal of the Washington street subway. The exact designs of this curtain wall cannot just now be shown, but it is safe to say that the architects, Messrs. Frost and Granger, will accomplish a result that will be a good example of artistic and novel construction. Behind this curtain wall the train shed, with its sixteen tracks, as previously described, will be covered with a "Bush" roof. This roof, over each pair of tracks, will be broken by a concrete duct, so placed that the exhaust from the locomotive stacks will exhaust into the open air.

The general architectural treatment of the exterior is clearly shown in the illustrations herewith. It presents a dignified and well proportioned ensemble. The general scheme of construction of this, the next largest terminal station in the United States, combines every present modern requirement and anticipates as far as human foresight can the requisite for a railway station for some years. With a present daily traffic of more than three hundred trains, the organization and government of so vast a business needs every facility to make it efficient. This we believe has been secured.

In a structure of this magnitude, the questions of sanitation, light, heat and ventilation are most important.



PERSPECTIVE VIEW

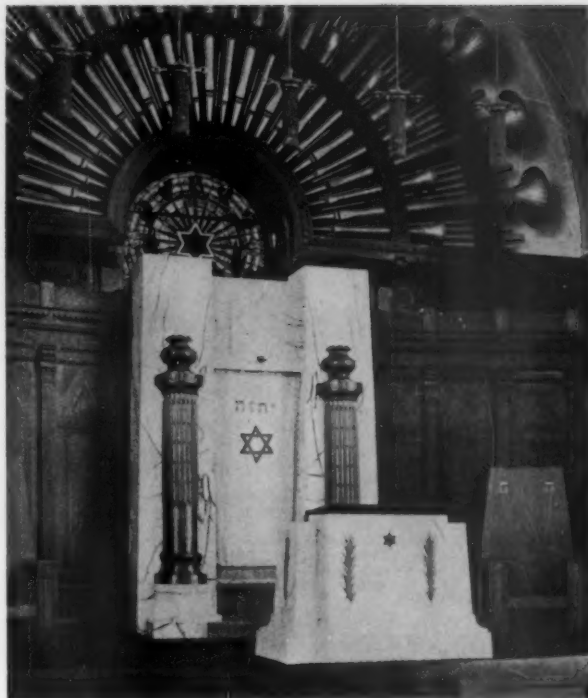
CANAL STREET ELEVATION

All portions of the building outside of the main waiting room will be heated by direct radiation. The main waiting room is to be both heated and ventilated by a fan system delivering air to the room through bronze grilles in the bases of the columns on the north side. The vitiated air will be drawn off by fans through ducts over the ledge on the south side. The heating of this room is also supplemented by means of direct radiation placed at the rear of the columns on the south side. To meet and overcome the natural fall of cold air from the roof and upper windows of the main waiting room, direct radiation will be installed along the cornice ledges.

All entrance vestibules on first floor are to be heated by a hot blast fan system. The chief benefit of this is that the cold air entering through the outside doors will be tempered before entering the main business office on first floor, which will be heated and ventilated by the fan system except that direct radiation is to be employed inside the entrance doors on Madison and Canal Streets.

The vacuum system of heating will be installed, using the exhaust steam from the engines in the power plant located in the block bounded by Lake and Clinton streets and Milwaukee avenue. The steam pipes will be carried through suitable tunnels.

Heating and ventilation will be provided for all occupied space between the terminal station and Lake Street below the elevated tracks. This includes the suburban concourse, which in addition to being heated by direct radiation will be thoroughly ventilated. This same treatment is to be given to the immigrants' quar-



INTERIOR JEWISH SYNAGOGUE
BOSTON, MASS.

C. H. BLACKALL
ARCHITECT

BOSTON ARCHITECTURAL CLUB EXHIBITION

ters and baggage and express rooms. Lamps of suitable candle power will be arranged in such a manner as to illuminate the ceiling and there will be enough reflected light from this ceiling to properly illuminate the floor. The special seats to be designed for this room will have concealed lights above them to afford light for reading.

In the main entrance vestibule on Madison Street there will be three ornamental chandeliers. The effect of these will be to illuminate the vestibule and to cast light through the large windows to give a diffused background to the columns. On the posts at the head of the stairways at either side of the main vestibule will be placed bronze standards so arranged that the lights will be on the same level as these chandeliers.

The concourse will be lighted by incandescent lamps on chandeliers, and the train shed by incandescent lamps with special shades. The lamps will be placed on the lower members of the steel work between the columns which are in the center of the platforms. The lighting of the train shed will be similar to the Washington and Lackawanna terminals.

Underneath the tracks, both incoming and outgoing baggage rooms, mail rooms, express rooms, suburban concourse, the cab and the automobile stands and immigrants' quarters are all lighted by incandescent lamps. Provision will also be made for heating and lighting all trains standing in the train shed.

In the sub-basement of the terminal station building where the auxiliary boilers will be placed there is to be a refrigerating plant which will supply brine for cooling off all refrigerators and boxes and will also cool all the drinking water which will first be passed through special porcelain lined filters. In the same



THE GREAT LAKES

LORADO TAFT, SCULPTOR

BOSTON ARCHITECTURAL CLUB EXHIBITION



INTERIOR
BOSTON ARCHITECTURAL CLUB EXHIBITION

W. G. RANTOUL, ARCHITECT



INTERIOR
BOSTON ARCHITECTURAL CLUB EXHIBITION

W. G. RANTOUL, ARCHITECT

room will be placed the apparatus for the vacuum sweeping system with which the terminal station is to be equipped. Here, too, is located the water heating plant for supplying hot water at all basins throughout the building and all kitchens. It is expected that a hydraulic elevator system will be installed. The pumps for this will be located in the basement, steam being delivered directly from the power house.

It is particularly interesting to note that in this plant there will be installed one or more exhaust steam turbines which will be used for driving generators. The combination of exhaust steam turbines with reciprocating engines will permit a higher efficiency than can be reached by other types of prime movers.

The boiler plant will consist of six 500 horsepower units and space has been provided for three additional or a total of 4,500 boiler horsepower at nominal rating. A stack about 10 feet in diameter and 22 feet high will be used thus making unnecessary either induced or forced draft. In the engine room space is provided for four vertical cross compound non-condensing engines, three of which will be installed at the present time. These will be direct connected to generators for furnishing electricity for light and power.

In addition to the other rooms already mentioned ventilation will be provided for the kitchens, lunch counters, dining-room and women's room, and on the

upper floors the tea room, women's retiring room, barber shop, etc. Special independent exhaust ventilation is to be provided for men's smoking rooms and all public and private toilets.

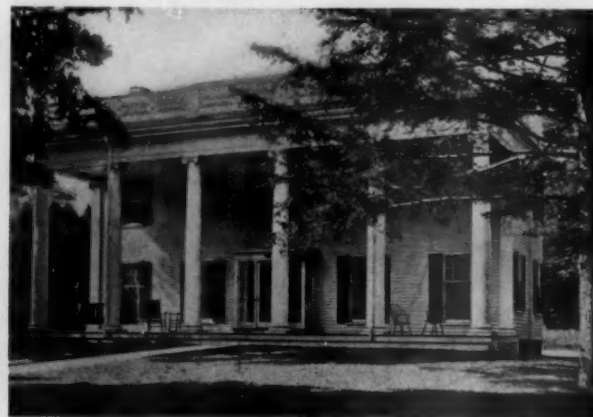
Practically all the lighting will be by means of incandescent lamps. Outside the Madison street front will be four bronze standards. These will light the sidewalk. Along the curb line of Canal and Clinton Streets, from Madison to Lake Street, there will be a number of standards supporting clusters of incandescent lamps. In addition bracket lights will be placed at every column under the marquises at each entrance and also wherever streets cross. The three subways at Washington, Randolph and Lake Streets will be lighted by incandescent lights distributed so as to give a uniform light without glare. It is also contemplated installing searchlights above the train shed.

The ticket office or main business room will be lighted by direct illumination. There will be four ornamental standards on the columns at the top of the stairway leading from the ticket office to the main waiting room. At either end of this room will be specially designed bronze standards. This will be the only visible lighting in the room other than chandeliers which will be hung at both the north and south ends of the room between the columns. All visible standards and chandeliers will be in strict harmony with the architectural design.



A COUNTRY HOUSE
BOSTON ARCHITECTURAL CLUB EXHIBITION

THOMAS, CHURCHMAN & MOLITOR, ARCH'TS

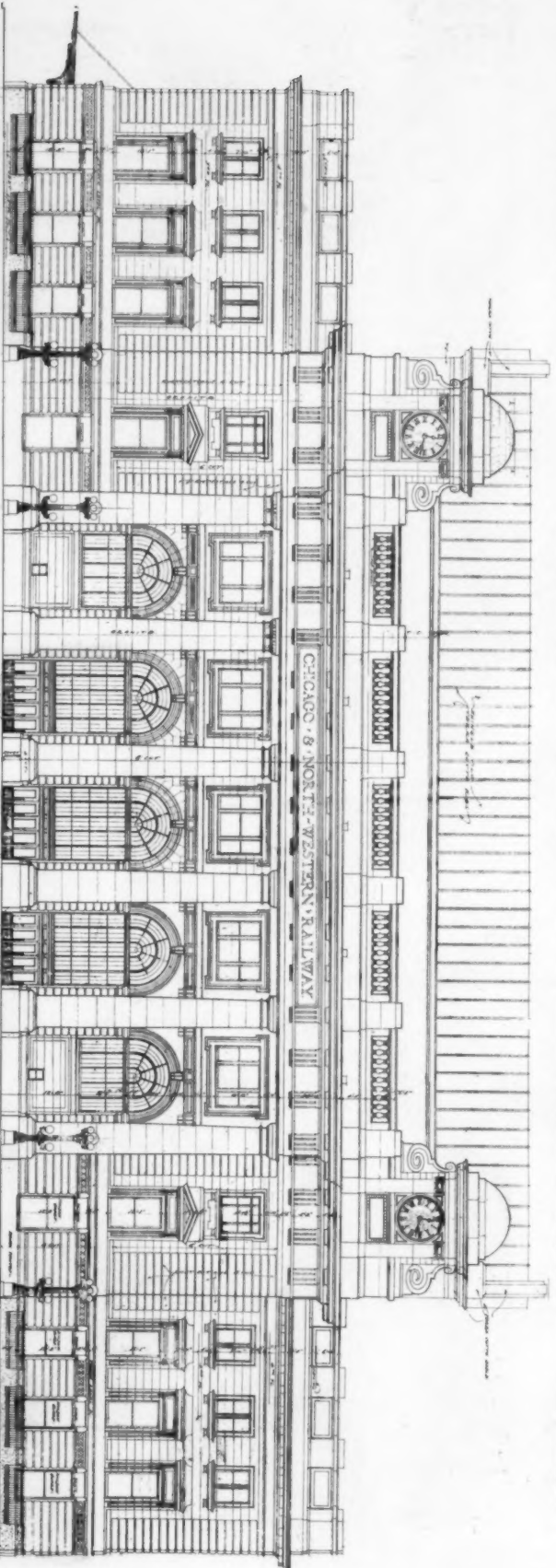
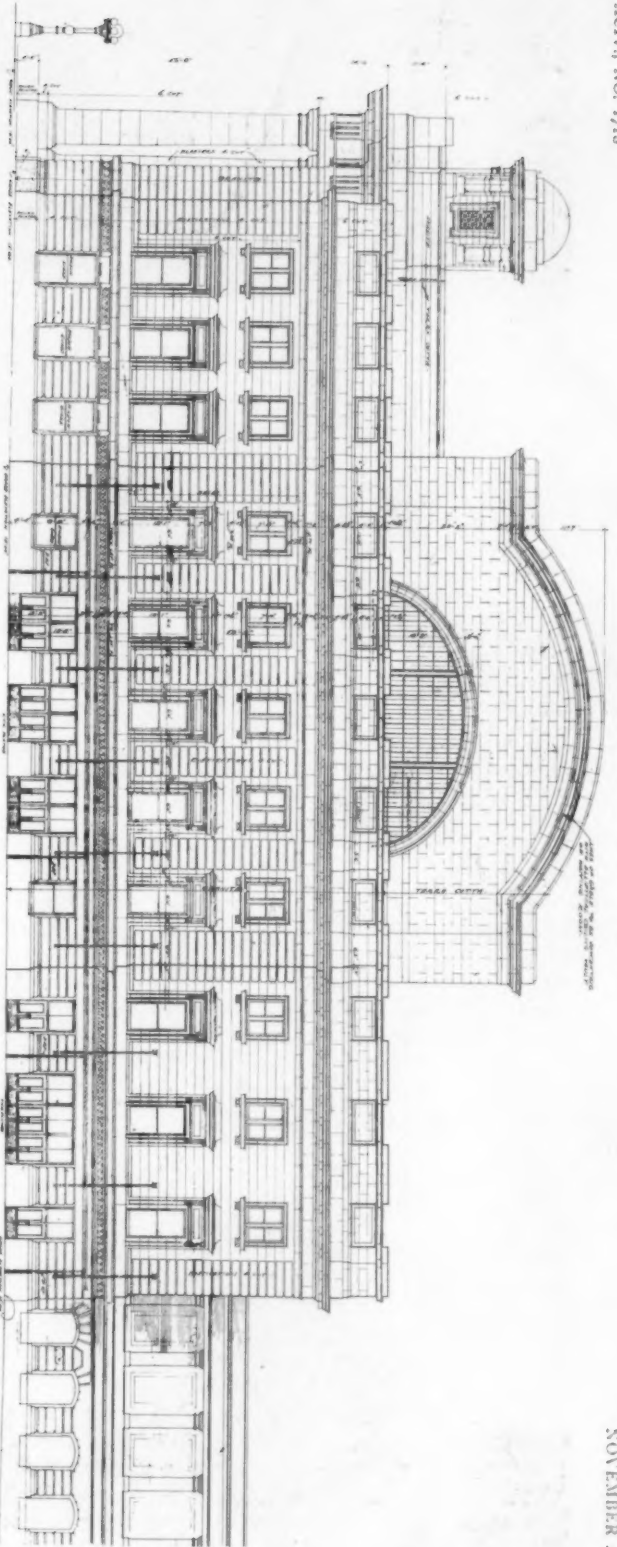


RESIDENCE
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THE AMERICAN ARCHITECT

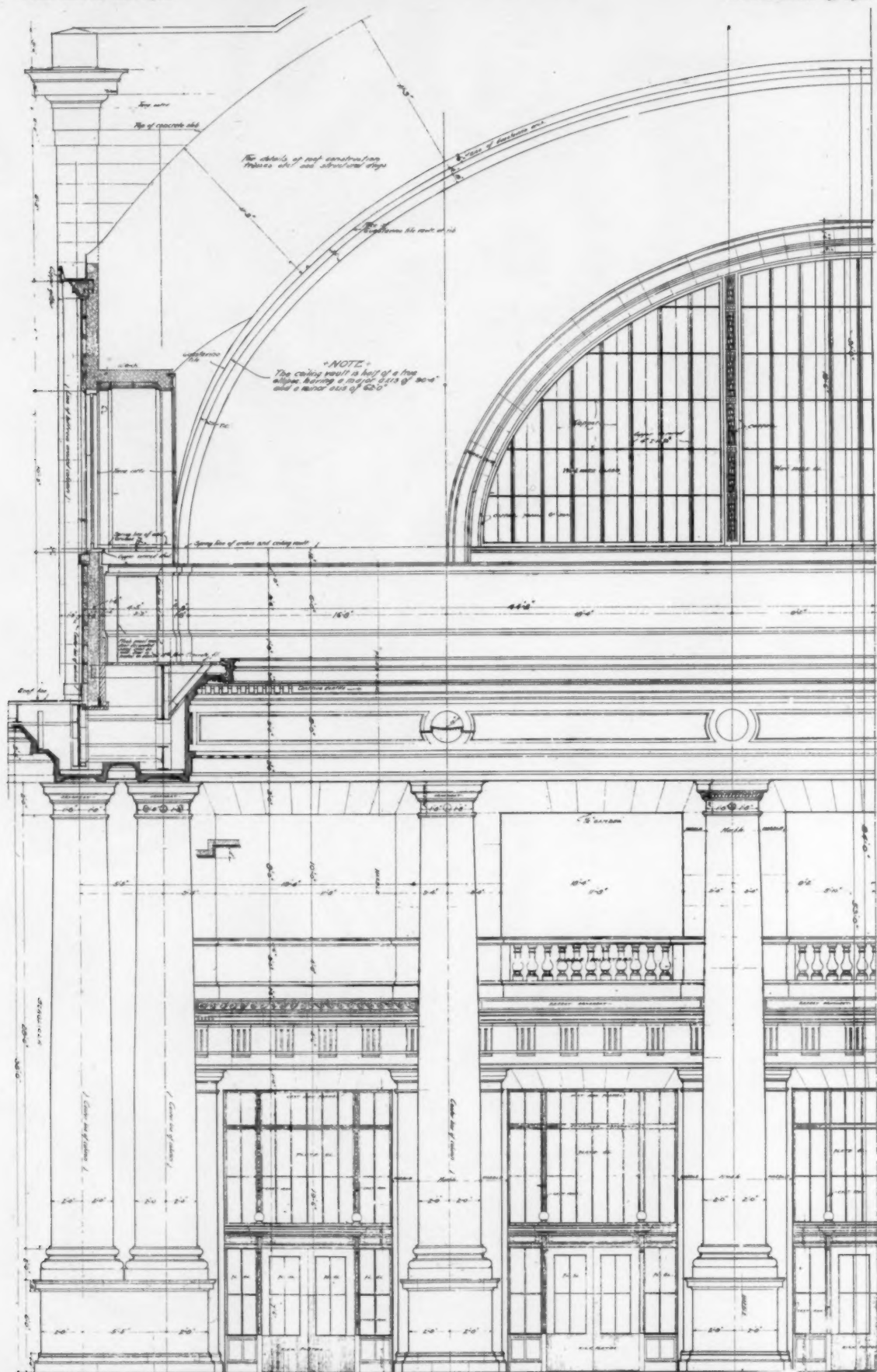
NOVEMBER 25, 1908



NEW PASSENGER TERMINAL AT CHICAGO
CHICAGO & NORTH-WESTERN RAILWAY

CANAL STREET (EAST) AND MADISON STREET (SOUTH) ELEVATIONS

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HALF SECTION THROUGH MAIN WAITING ROOM

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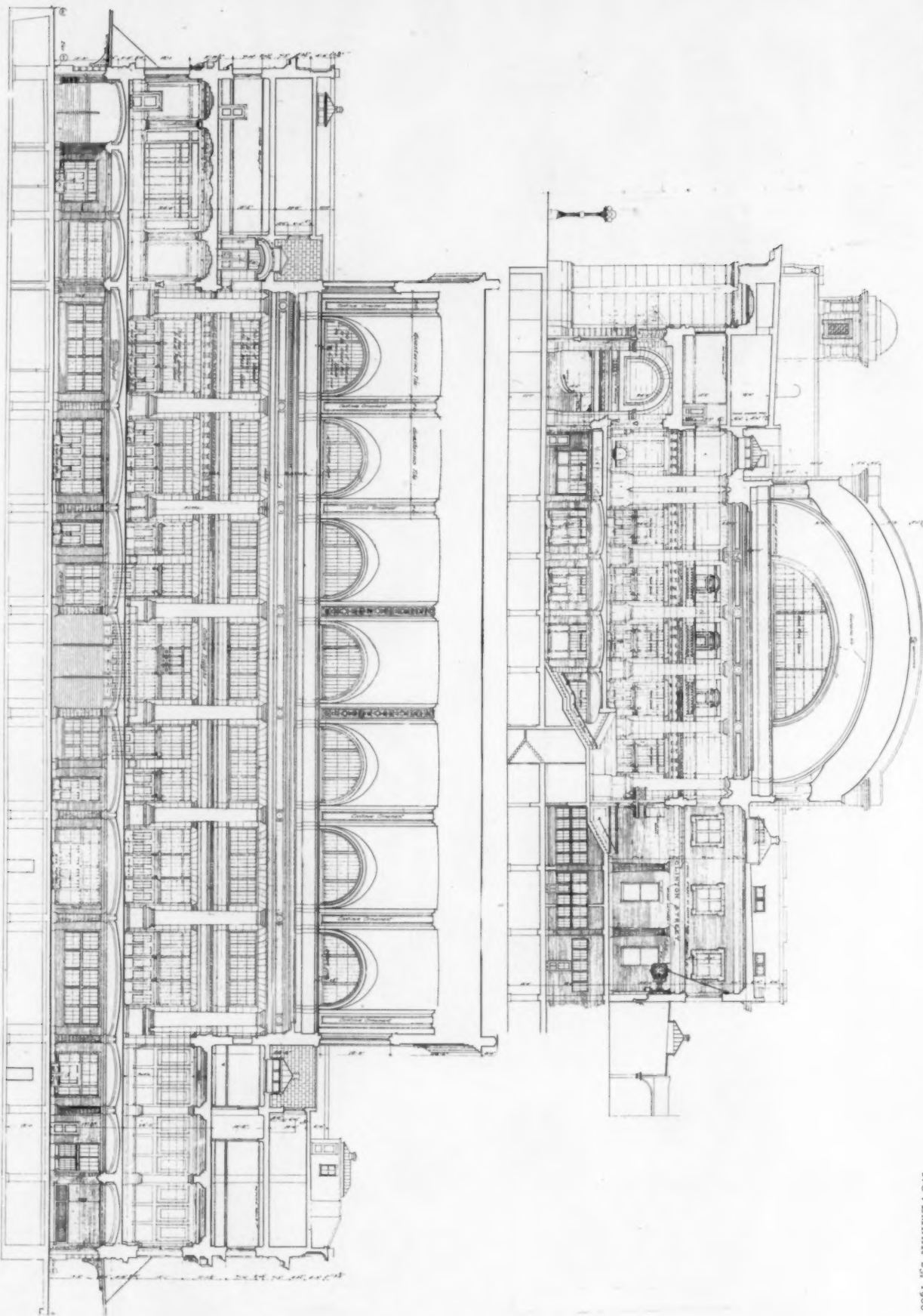


DETAIL ELEVATION OF PORTICO

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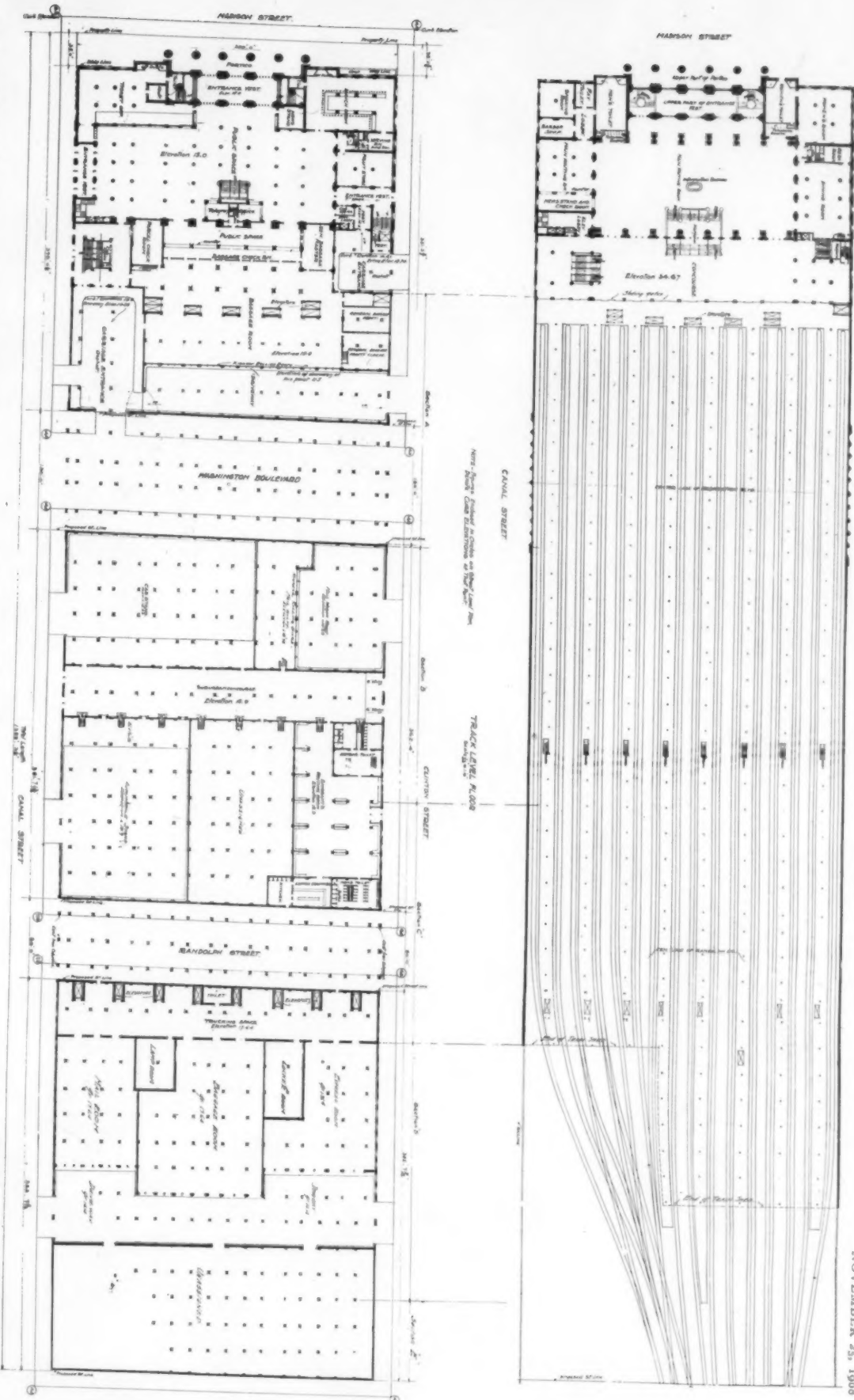
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SECTIONS

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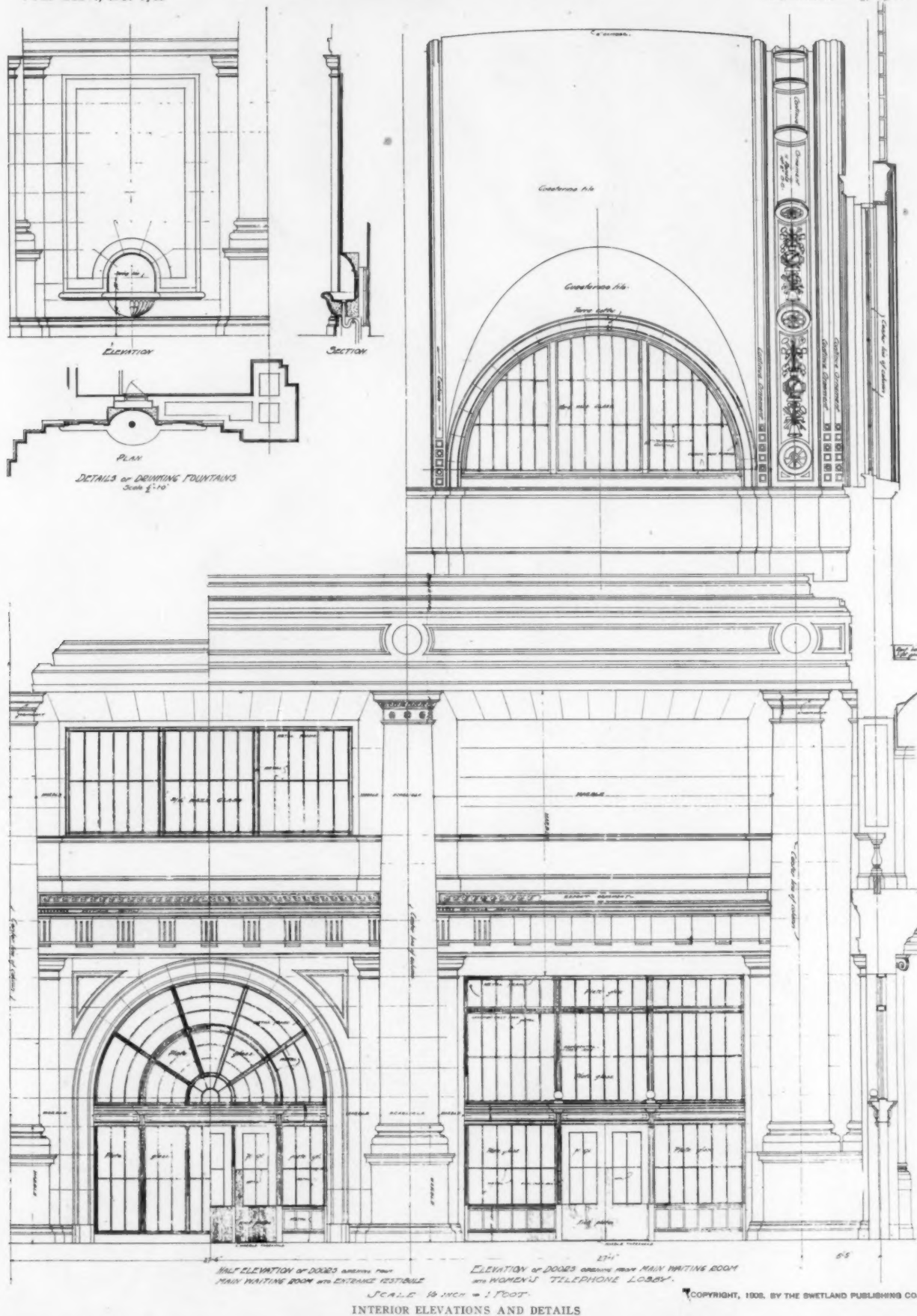
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NEW PASSENGER TERMINAL AT CHICAGO
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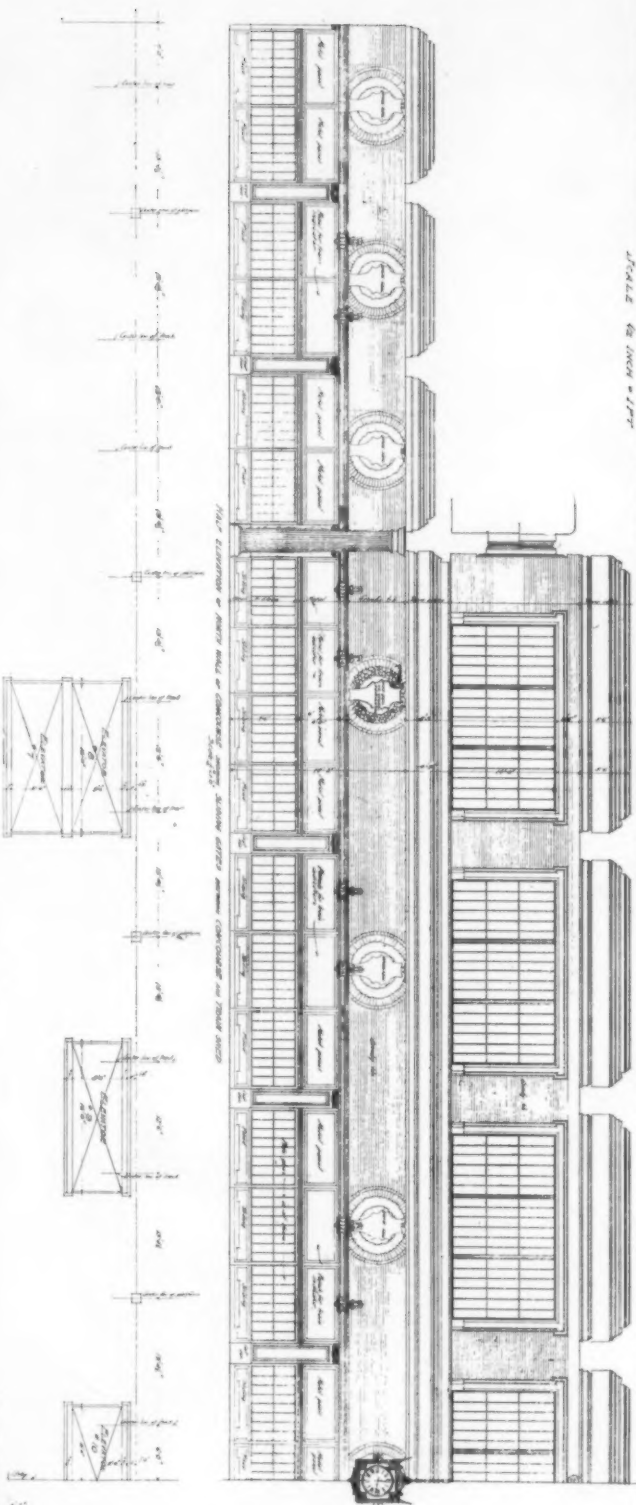
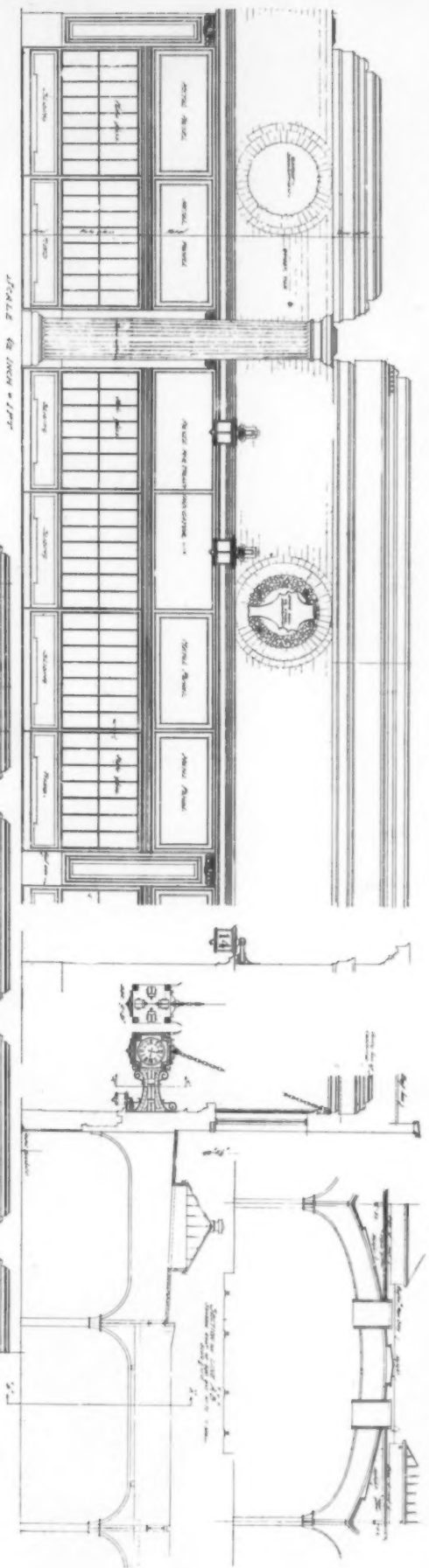
TRACK AND STREET LEVEL FLOORS

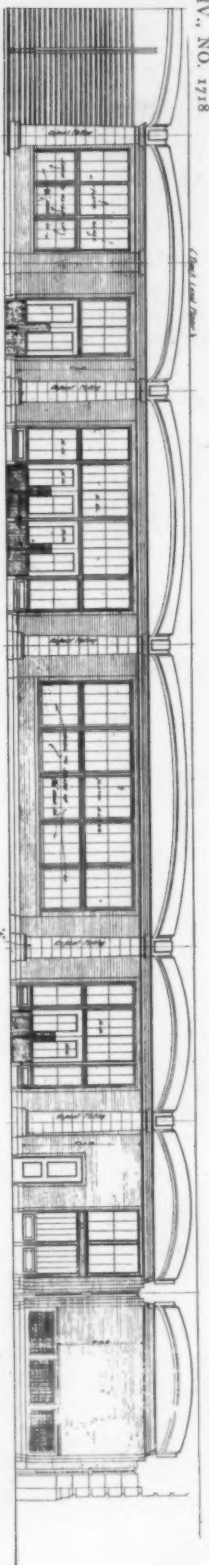
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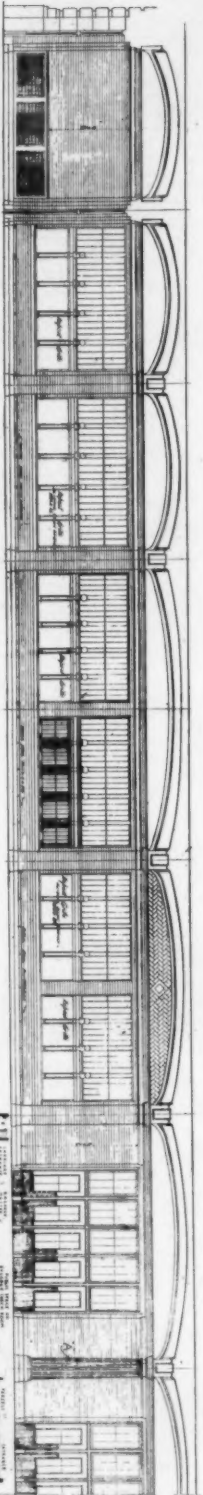
NEW PASSENGER TERMINAL AT CHICAGO
CHICAGO & NORTH-WESTERN RAILWAY

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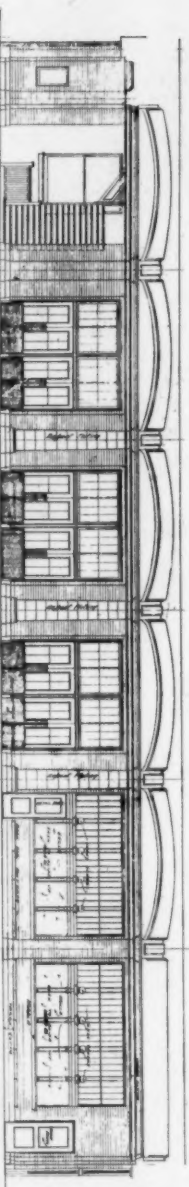




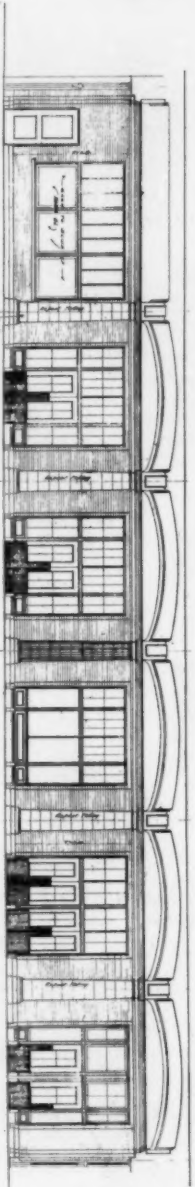
See elevation facing west, looking north



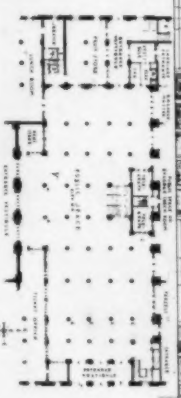
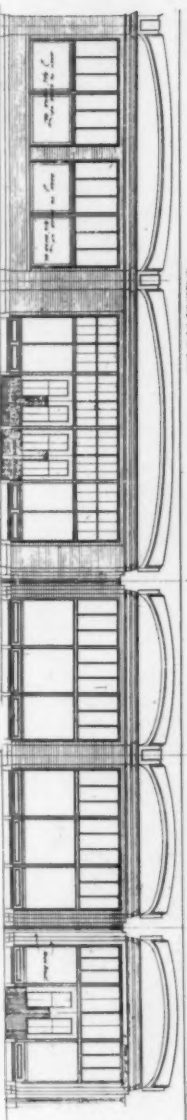
See elevation facing east, looking south



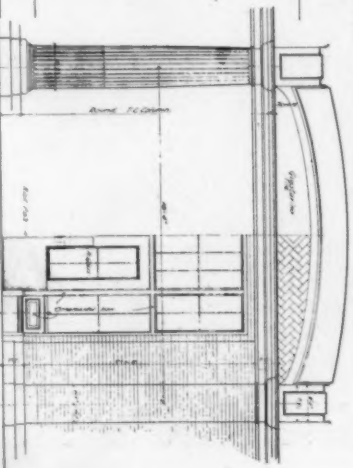
See elevation facing east, looking north



See elevation facing west, looking north



See plan of building



See elevation facing west, looking north

Public Space

Typical Detail of

NEW PASSENGER TERMINAL AT CHICAGO
CHICAGO & NORTH-WESTERN RAILWAY

STREET LEVEL FLOOR, ELEVATIONS OF PUBLIC SPACE

MESSRS. FROST & GRANGER
ARCHITECTS

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LIBRARY INTERIOR
LITTLE & BROWN, ARCHITECTS
BOSTON ARCHITECTURAL CLUB EXHIBITION

of subjects that have been completed possibly as far back as 1903, seem lacking in dignity of presentation and in a measure out of place in a 1908 exhibition.

This exhibition is to be viewed throughout the three lower floors of the clubhouse. No attempt at decorative treatment has been made, and there is nothing to attract attention from the exhibits that line the walls. In the groupings, probably, the best possible arrangement has been used, but we incline to the belief that where material is shown covering large frames, a single gallery offers the best opportunity for study and comparison. The white on black prints of working drawings present a decided novelty, and when placed, as some of these exhibits must necessarily be, in poorly lighted corners, are very effective, and a pleasant change from the usual black or white methods.

Grouped in a small room on the second floor are a number of water colors of architectural motives. While some of these are well done, candor compels the statement that most of them show a poor acquaintance with the possibilities of this medium, and while the subjects are of sufficient interest their portrayal lacks considerable of artistic presentation.

In an adjoining room is a font, carved in oak, and intended for a memorial church. The visitor will profitably spend much time in a close examination of this beautiful work. This font, standing approximately nine feet high, is executed with the rarest skill, and the whole is an artistic gem.

In the billiard room is shown an elevation of the main façade of the Union Theological Seminary, now in course of erection in New York City, and two draw-

THE ANNUAL EXHIBITION OF THE BOSTON ARCHITECTURAL CLUB, NOVEMBER 7 TO 28.

The measure of the value of any exhibition would seem to be largely in its educational possibilities. To accomplish this an exhibition should present some record of progress, should show advance, if there be any, in the presentation of subjects as far as possible entirely new. That the exhibition of the Boston Architectural Club, now open in the club rooms at No. 2 Ashburton Place, does not present this feature, except in a limited way, we believe must be conceded. The material shown by resident members of the club is a record of something done. In spite of the handicap presented by a number of small exhibition rooms, and scattered method of hanging and arrangement, if one takes the trouble to search for it one may find material of much interest. But of the material sent from other cities it does not appear that the Boston Architectural Club, in the person of its exhibition committee, has received the consideration to which it is entitled. Whether these out of town contributors are saving their best work for subsequent and perhaps larger exhibitions, or whether they feel that recently constructed work is less fitting than earlier subjects to represent them, we of course cannot judge. But the fact is evident that there are many exhibits that have been seen in a number of former exhibitions. No criticism can be made as to their architectural excellence, but much worn frames and soiled and disfigured mounts, treating



DINING ROOM INTERIOR
LITTLE & BROWN, ARCHITECTS
BOSTON ARCHITECTURAL CLUB EXHIBITION



TEMPLE IN A FORMAL GARDEN LITTLE & BROWN, ARCHITECTS
BOSTON ARCHITECTURAL CLUB EXHIBITION

ings showing two different schemes for a proposed soldiers' monument at Canandaigua, N. Y. These are worth close study; but in the case of the seminary exhibit, which is at least eight feet long and hung close up to the ceiling, it is not possible to see it well enough in the limits of the room.

The detailed drawings of half sections of churches at Norwood, Mass., and Somerville, Mass., are important additions to church architecture in this country, and their manner of presentation we are sure will appeal to the student who visits the exhibition for instruction.

The steady progress being made in the designing of the country house is further emphasized by this exhibition. Perhaps this feature is the most interesting of all. A few years since the architect who had a client inclined to heed his advice and admonition as to the interior furnishing and fittings was rare. The increasing tendency to entrust the furnishing and fitting as well as the design of the house to the architect is most gratifying. It is a pleasure to note the many photographs showing well designed interiors, and what is of equal importance well selected and designed furniture.

The theory of the client that the interior of the house represents and mirrors his home life, and that he has the right to gather about him such furnishings and furniture as suits him best, while perhaps true enough from his point of view, was most unfortunate, and is now happily passing. The number of well designed and carefully planned houses that have had their undoubted artistic qualities completely negated as far as the interiors were concerned by impossible furnishings is deplorably large, and the new order of things which places this work largely in the hands of the architects represents in effect an expression of higher artistic appreciation on the part of the public that is most welcome.

The collecting and arrangement of an exhibition of this size involves a great amount of time and labor on the part of individual members, particularly at this season, when architects are busily engaged with their office work.

That so important a lot of work has been collected and shown is evidence of the activity of the Boston Architectural Club and an unselfish devotion to the cause of good architecture.

It is to be hoped that much of the new material may be seen in New York and Philadelphia, and it is equally desirable if the particular exhibits referred to at the outset are to be further shown, that they be cleaned and somewhat rehabilitated before that time.

It was hoped that the subject of municipal improvement, which has received so much careful study and gratuitous service at the hands of the profession, would be well exhibited. The matter shown is of much interest, but the volume is small.

The suggested improvement of Copley Square, shown in two schemes, and a rearrangement of the Park Square district are carefully considered ideas, well worked out, and should attract attention to these sections and emphasize the necessity for action on these needed improvements.

Other exhibitions along the line of municipal im-



MEMORIAL CLOCK TOWER GUY LOWELL, ARCHITECT
BOSTON ARCHITECTURAL CLUB EXHIBITION

provement are the proposed Boston Public Dock System and the termination of Grand Boulevard, at Chicago.

The catalogue of this exhibition is a splendidly gotten up book, and should be worth keeping in the architect's library. The character of the illustrations and the typographical work reflect great credit on the committee which had its preparation in charge.

We are indebted to this committee for permission to reproduce the accompanying illustrations which are shown on a much reduced scale to meet its wishes.

Recent Legal Decisions

RECOVERY ON QUANTUM MERUIT WHERE BUILDING IS ABANDONED

The plaintiff offered to render complete architectural services, including supervision, and all the work usually done by an architect for the sum of 4 per cent. on the cost of the work (or $2\frac{1}{2}$ per cent. for the plans and specifications), to be paid in installments of 4 per cent. of the amount paid to the contractor as the work progressed. This was agreed to by the defendants who, however, postponed the commencement of the work on account of the unsettled condition of the labor market and two years after the contract was entered into notified the plaintiff that they had abandoned the idea of going on with the work at all. The court held that the abandonment of the work put an end to the existence of the special contract and it could not be interposed by the defendants so as to bar a recovery by the plaintiff of the reasonable value of the services rendered by him in the preparation of plans and specifications, etc., prior to the abandonment. The fact that the defendants retained the plans and results of the plaintiff's labor without offering to return them was held to be an admission of the receipt by them of some benefit from the plaintiff's labors.—*Stephen v. Camden & Philadelphia Soap Co.* (Court of Errors & Appeals of New Jersey, Nov. 18, 1907), 68 Atl., 69.

EMPLOYER MUST ACCEPT OR REJECT PLANS IN TIME

If plans and specifications are completed and presented to a person at his request, it becomes his duty either to accept or reject them at the time, before he starts upon the work of construction, after which he cannot be heard to say that he did not like them.—*Bennett v. Greenwood*, Supreme Court of Michigan, 114 Northwestern Reporter, 1019.

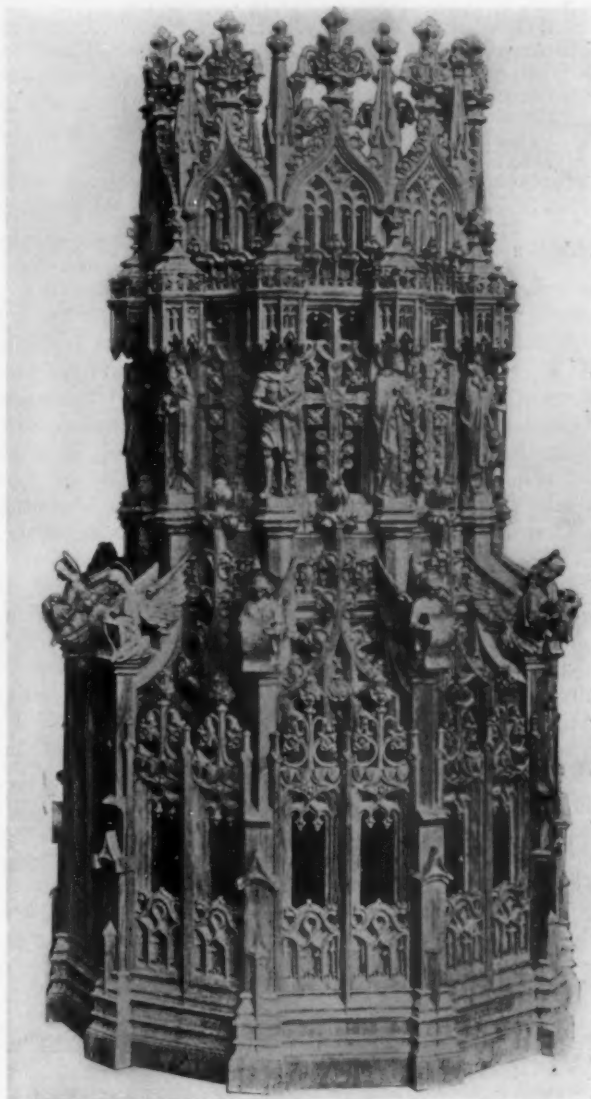
WHAT AMOUNTS TO PREVENTION OF SUPERVISION OF CONSTRUCTION

In an action for preparing plans and specifications and supervising the construction of a building the plaintiff pleaded that he was prevented from supervising the construction by the action of the defendant. There was no express testimony of such prevention, but the plaintiff testified that the defendant "took upon himself the letting of contracts;" that he thought "his judgment better than an architect's;" that he "supervised this job;" that his "capacity was practically that

of supervising architect. He was there all the time bossing the construction and the men and the contractors." The court held that if the jury believed this testimony to be true the defendant certainly prevented the plaintiff from supervising, and the jury rendered a verdict for the plaintiff which was affirmed on appeal.—*Bennett v. Greenwood*, Supreme Court of Michigan, 114 Northwestern Reporter, 1019.

WHERE COMPENSATION IS NOT CONTINGENT ON COST

Upon the question at issue whether an architect's compensation was contingent upon the building costing not more than a certain sum, if the employer before he began to build knew or should have known that the building would cost more, the compensation could not be considered as conditional.—*Bennett v. Greenwood*, Supreme Court of Michigan, 114 Northwestern Reporter, 1019.



DETAIL FONT, MEMORIAL CHURCH
FAIRHAVEN, MASS.

BRIGHAM, COVENEY
& BISBEE, ARCHITECTS

BOSTON ARCHITECTURAL CLUB EXHIBITION

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AN architectural exhibition, not unlike an architectural journal, is largely dependent upon the profession not only for its success but for its very existence. Without the support and co-operation of capable men in active practice it will inevitably become of small interest or value, and in a measurable period of time cease to be a factor among present means of architectural education. Again, those in charge of an exhibition may have the active good will and assistance of a great many men in the profession, but if little work of importance has been done during the year, due to financial depression or other causes, it is obvious that much that is new cannot be shown. And so it would seem that before criticising adversely, inquiry into the causes and conditions governing an exhibition would be demanded by a sense of justice. It is probably true that the function of an annual exhibition is to record the progress of architecture during the year, and by presenting for study the best examples of the year's work serve an educational purpose as well, but if perchance during any twelvemonth small work has been accomplished it can scarcely be the fault of the exhibition committee, and unless the gallery walls are to go bare it becomes necessary to avail of some material neither new nor of especial interest.

MUCH information of a somewhat general character, although all pointing to the inevitable conclusion that the cost of building is exceptionally low, has been available for some weeks past, but specifically what this reduction amounts to has not in most instances been apparent. Various estimates have been made of

what the probable cost of certain current operations would have been if undertaken some months ago, and of equal interest are the calculations submitted tending to show that the buildings completed last year could now be duplicated for a sum much less than that which represented their cost when erected. These figures, however, would seem to have only a theoretical value, which, of course, may vary considerably from the actual, and as this is indeterminable we are left in some degree of doubt. It would therefore appear to be of timely interest and value, as calculated in a measure to dispel this doubt and uncertainty as to the actual decrease in the cost of building in New York at the present time, to record an instance which offers indisputable proof not only of this reduction but an accurate measure of its amount. It seems that in the early part of the present year plans and specifications were prepared for a warehouse to be erected in this city, and in June tenders from contractors were invited. For some reason which is not material to our investigation, the project was temporarily abandoned. About the beginning of November tenders were again received, and although there had been no change whatever in either plans or specifications we are advised that the estimates received last week ranged 25 per cent. lower than those submitted in June. If approximately equal reductions in the cost of buildings of all classes obtain, it is not difficult to understand why those who have money to invest in buildings are preparing to invest it now.

WHILE probably there is not another city in the world where there is apparent less sentiment or feeling in favor of the preservation of landmarks than here in New York, we venture the opinion that few will learn of the proposed removal of Madison Square Garden without a feeling of sincere regret. We are not rich in architectural monuments, and although the Garden may lack some of the dignity and forfeit some of the reverence that age alone can command, it has been so intimately associated with the social and political life of the city since its erection some twenty years ago, and is withal so wholesome to look upon that its passing can scarcely be viewed with equanimity. Moreover, its demolition would leave the city without adequate accommodations for conventions and the larger public exhibitions. Of course, the necessity of the owners receiving some return on their investment is recognized, but with an unquestionable demand for a building containing at least a large percentage of the accommodations provided by the Garden it would seem that some plan might be devised, even though it called for some further outlay, that would increase the earning capacity sufficiently to in a measure meet this requirement. It has been suggested that the location is not ideal, but notwithstanding the undeniable drift of population and amusement centers northward, we are not forced to the conclusion that Madison Square will be inaccessible or especially inconvenient for New Yorkers within the present generation. Unless indications are outrageously misleading, Fourth Avenue between Fourteenth and Forty-second Streets will be practically rebuilt within the next decade, and the character of these improvements will not be such as to conflict with the interests of the Garden property, located midway on the avenue.

Current News

SAINT-GAUDENS MEMORIAL EXHIBITION AT WASHINGTON

On December 7 a memorial exhibition of Augustus Saint-Gaudens's work will be opened at the Corcoran Gallery of Art in Washington. For this opportunity to see, in suitable surroundings, replicas or copies of all the works of this great American sculptor, Washington will be indebted to the generosity of the Corcoran Gallery and the artistic enthusiasm of the Institute of American Architects. Aided by a few subscribers, they have made this exhibition possible purely for the love of art. "As the finest flower of art America has produced, it is regrettable," says the *Washington Post*, "that the national capital contains but one specimen of his genius, but it is exceedingly grateful for the quality of that one. The one work by Saint-Gaudens here alluded to is the Adams memorial in Rock Creek cemetery.

STILL ANOTHER USE FOR CONCRETE.

The first escalators to have a concrete foundation will be those to be installed at the 42d street station of the Belmont tunnel. Chas. D. Seeberger, who has charge of the escalator department of the Otis Co., is pleased with the preparations made for the moving stairway, and thinks the concrete supporting will prove very satisfactory. St. John Clarke, chief engineer of the N. Y. and L. I. R. R. Co., who designed the tunnel, stated that concrete was chosen from the standpoint of economy and durability. The method of construction and the appearance should be interesting to those to whom the uses of cement appeal.

The escalators will have a capacity of more than 20,000 passengers per hour. They will be run at a speed of 100 feet per minute, and as the height of the street level landing is 53 feet above the lower landing and the continuous line of traveling steps between the two landings equals 120 feet, this is the longest single escalator runway that has ever been built or contracted for. Another feature is that the two motors required to operate them can be used for both escalators, so that if one motor is temporarily put out of service the escalators will continue running as if nothing had happened.—*Record and Guide*.

THIN WALLS FOR A CAR SHOP.

The New York Central & Hudson River Railroad has recently completed a car shop at Mott Haven, in the Borough of the Bronx, New York City, which is built with outside walls $2\frac{1}{2}$ inches thick. The material used is a cement mortar reinforced with truss metal lath. As described by *The Engineering Record*, the shops are 250 feet long, 43 feet 10 inches wide and are built in alternate high and low bays, the former 25 feet high and the latter 19 feet 4 inches. This construction takes the place of a saw-tooth roof, windows being provided in each side of the high bays above the roof of the low ones. The steel skeleton framework was erected

as usual and does not differ from the customary construction, except that girts are placed between the columns and window frames as a support for the truss metal lath reinforcement of the walls. The lath consists of sheets of No. 28 gauge metal, punched in such fashion as to give it a truss-like structure of a height of 1 inch. It has a cross-section of 0.18 square inch per foot or width and weighs 67 lbs. per hundred square feet. It comes in sheets 28 inches wide and 7 feet 6 inches long. They are always placed horizontally running around the building and are given ample lap so as to make the fabric continuous. The walls weigh about 20 lb. per square foot, the mortar being $2\frac{1}{2}$ inch thick, or covering the truss metal lath to a depth of $\frac{3}{4}$ inch on each side. The proportions of the mortar are 1:3 using Atlas Portland cement.

In construction the sheets of truss metal lath are attached to the girt angles by large staples slipped over the upturned leg of the angle and into one of the meshes of the lath. The latter is kept in place and held rigidly by means of temporary 1 x 1-inch angles spaced about 2 feet apart. This studding is sufficiently strong to hold the lath in line, and prevent waves while the mortar is being placed on one side. The material is placed after the same fashion as plaster for an ordinary wall, and is allowed to set from 36 to 48 hours. It is then sufficiently rigid to stand by itself and the temporary studding is removed by cutting the wires holding it to the lath. The unfinished side is then thoroughly washed down before applying the second half of the coating. No additional coating of a richer mixture is necessary in finishing the walls as the cork float which is used gives a very satisfactory surface.

Personal

Alfred S. Joseph and Oscar G. Joseph are now practising architecture and engineering, and have moved to their new offices, 307 Commercial Building, Louisville, Ky. They desire to receive samples and catalogues.

We are advised that Messrs. Guy B. Robertson and D. P. Gaymon, architects and engineers, have opened offices in the Amherst Block, Pueblo, Col., where they desire to receive trade catalogues.

Herbert Dudley Hale, son of the Rev. Edward Everett Hale, D.D., and a member of the architectural firm of Hale & Rogers, New York, died on November 10, at his home, 82 East Fifty-fifth Street.

Mr. Hale had recently returned from Europe where he spent the summer in hopes that change of air and scene would restore his health, then much impaired. Mr. Hale was forty-two years old, a graduate of the Class of 1888 of Harvard University. He later entered the Ecole des Beaux Arts, Paris, graduating in 1895, when he obtained the degree from the institution, the "diplome par le Gouvernement."

Book Notes

MANUAL OF REINFORCED CONCRETE AND CONCRETE BLOCK CONSTRUCTION, by Charles F. Marsh and William Dunn. 290 pp, 4¼x6½, flexible leather. New York, D. Van Nostrand Co.; price, \$2.50 net.

This book is practically an abridgment of the larger volume on the same subject by these authors. In its present size it is a handy pocket form, and the various tables have been arranged so as to permit quick reference. Of particular service are the pages of diagrams. The work is of undoubted value, and the concise treatment of the subject, together with its easy availability, commends it to the student and the practising engineer as well.

Industrial Information

A NEW SHEATHING AND REINFORCEMENT FOR CEMENT WORK.

Reinforced concrete construction without centering or falsework is a step in advance of methods in present use and seems to open out possibilities not heretofore realized. This desirable feature it would appear has been secured by the manufacture by the Trussed Concrete Steel Co., of Detroit, Mich., of a new form of reinforcement which they designate by the name of "Hy-rib."

This new form is manufactured from the highest grade of open hearth rolled steel plates, and consists of a series of rigid high ribs 13/16 of an inch high, and three and one-half inches apart, rigidly connected by steel lath. The ribs and lath are manufactured complete from a single piece of steel. When laid between or over steel beams, sufficient rigidity is developed to sustain the weight of the concrete, which by tamping is forced through the meshes of the reinforcement, enveloping it, and when set presents a perfect surface for plastering.

When employed for wall furring or partitions, the necessity for studs is entirely obviated, as the steel ribs in the material impart ample strength and stability. The rib lath presents a perfect surface for plaster, accurately locating the ribs and holding them firmly in position.

As each side of the sheet has a high rib along its entire length, an interlocking joint is thus provided by the simple method of allowing two sheets to overlap. By this method the joint takes on all requisite strength throughout the entire wall surface, and presents an absolutely continuous sheet of reinforcement of equal strength and rigidity at every point. There are many features of equal value and interest in this novel form of sheathing, all explained in an interesting illustrated folder, issued by the Trussed Concrete Steel Co., which may be had by applying to the Detroit office.

STAGE LIGHTING.

There is a wide field of experiment intervening between those Colonial days when the candle, screened by a tin screen, lighted the stage, and the presentation of a spectacle at any large city to-day.

Electricity and its many possibilities and adaptations have been well availed of by the Cutler-Hammer Manufacturing Co., of Milwaukee, Wis.

It is not so long ago that theatergoers were accustomed to see the various phases of sunrise and sunset simulated by a series of jumps, so to speak. Successive banks of lights would be either cut out or turned on, and these interesting phases of nature could only be accomplished by quick transitions as disconcerting as they were unreal.

The introduction of the "dimmer" in electric lighting gives the electrician the same gradual control of his light as was possible to the gas man behind the scenes who, by the turn of a key, raised or dimmed the light at will.

Dimmers, so necessary to the equipment of stages and auditoriums, appears to have reached a high state of development by the Cutler-Hammer Co., and their pamphlet describing their special apparatus and the many claims set forth as to its superiority will be found of much interest.

CHANGE IN FURNITURE HOUSE

By a change in the management of the Cobb-Eastman Co., of 372-378 Boylston Street, Boston, furniture makers and interior decorators, Francis H. Williams becomes the manager. Mr. Williams laid the foundation of his knowledge of the business with the firm of A. H. Davenport and comes to the Cobb-Eastman Co. backed by 25 years' experience. The firm will continue, for the present, at least, under the same name as before, although it is said that the ownership has changed. The Cobb-Eastman Co. has its own factory and manufactures its own goods, which are practically on the basis of custom work. Some of the best craftsmen procurable in this country or abroad are employed. One of the first moves to be made under the new management is to dispose at once of the entire small stock of ready-made goods, together with a number of the firm's discontinued patterns.

ELECTRIC PLATE WARMERS

"With all Modern Conveniences," as a phrase descriptive of men's habitations, has in recent years become almost banal. In order to convey anything like an accurate idea of its meaning, an itemized statement must be appended, and the list of items making this statement is ever increasing in length and impressiveness. One of the latest additions and one which in importance seems to compare favorably with the most prominent of its predecessors, is the electric plate warmer. In fact the equipment of modern residences, restaurants, hotels, etc., is now hardly considered complete or even adequate without this ingenious and useful device. The Prometheus Electric Company of New York make the construction of electric plate warmers a specialty, and claim for their product many advantages. Among them efficiency, economy of space and general adaptability. The heating in "Prometheus" plate warmers is said to be accomplished by the circulation of heated air in a manner insuring a uniformly high temperature of the entire inner space of the plate warmers. It is stated that any part of the equipment can be replaced at any time without disturbing the apparatus or the wiring, and without the use of tools. Further detailed information will be gladly furnished by the Company upon application.

Building News

ALABAMA

ATHENS.—We understand that the County Commissioners have under consideration the propriety of building a handsome new courthouse, at a cost of \$60,000 to \$75,000.

TALLADEGA.—A synodical college is to be established here, to be known as the Presbyterian Female Seminary. The present building is to be sold.

ARKANSAS

HELENA.—From current reports in the local press we learn that Helena now seems assured of a hospital in the near future.

CALIFORNIA

SACRAMENTO.—The Masonic fraternities of this city have decided to erect an eight-story building at the northwest corner of Twelfth and J streets, at a cost of \$300,000. The building will cover a ground space of 160 x 120 feet. It will be of stone and either steel or reinforced concrete.

The county is to sell the site of the County Hospital, comprising about 50 acres, for \$1,000 an acre, which will bring an income of \$50,000, and with the proceeds purchase a site of 20 acres south of the city for \$50 or \$100 an acre and build upon it a modern hospital on the cottage plan.

SAN BERNARDINO.—Token Lodge, No. 290, will proceed rapidly with the preparations to erect a new home for the order on the recently purchased lot on Third Street. The lodge will organize a building corporation for the purpose of building and controlling the building.

SAN FRANCISCO.—It is said that the Home Missions Society of the Methodist Church has appropriated \$100,000 toward rebuilding San Francisco churches destroyed by the fire.

Property on Bush and Powell Streets has been sold through Landgrebe, MacNevin & Jones, and from the daily press we learn that the new owners will improve the site with a seven-story structure.

Instructions have been given by Mrs. Virginia Vanderbilt to her agents, Thomas Magee & Sons, to arrange for the immediate erection of one or two large buildings on her downtown properties.

CONNECTICUT

NEW HAVEN.—Frederick Law Olmstead, architect, has prepared, at the request of the Yale corporation, a general plan for the future layout of the large Hillhouse estate of some thirty acres.

WATERVILLE.—Architects Griggs & Hunt, of Waterbury, are preparing the final sketches for the new office building to be erected on Thomaston Avenue, Waterville, for the Blake & Johnson Manufacturing Co. It will be a brick building, one story high and basement, 40x60 feet, with a vault, 20x21 feet.

DELAWARE

WILMINGTON.—It is stated that a movement has been started to erect a hotel at Riverview Heights, near the Todd's Cut shops of the Pennsylvania Railroad, for the accommodation of workmen at that plant.

Rev. George F. Nason will shortly award a contract for the conversion of the property, southwest corner of Ninth and Orange Streets, which he recently purchased, into an apartment house and store building. Four stores will be located on the first floor. The apartments will be on the second and third floors.

FLORIDA

JACKSONVILLE.—For the erection of another handsome three-story structure ground will soon be broken on Main Street. The building will be erected by the Seminole Investment Company, of which Harold Weston is president.

PENSACOLA.—Plans and specifications for the new truck house to be established at the northeast corner of Intendencia and DeVilliers Streets have been completed and bids will be asked for the construction of the building. It will be two stories in height, and will be modern in arrangement.

GEORGIA

ATHENS.—We understand that the School Board has formally accepted the plans of William Ernest Spink, architect, for the East Athens School. The building is to be two stories and basement, of red brick and limestone. The estimated cost of the building is \$12,000.

ILLINOIS

AURORA.—The Abens estate will improve the vacant lot at the corner of Main and LaSalle Streets, according to reports, and plans have already been drawn for a building to be erected on the property.

CHICAGO.—We learn from the local press that an eight-story reinforced concrete hat factory is to be built for \$200,000 on 113 feet of frontage in West Jackson Boulevard, between Loomis and Laflin Streets, by Raikes, Friedman & Co.

The Free Methodist Book Publishing Company, it is said, is to put up a five-story building on the northwest corner of Washington Boulevard and May Street.

We understand that the University of Illinois may establish a \$250,000 veterinary school in the Union Stock Yards.

A three-story building containing flats and covering a frontage of 250 feet at the southeast corner of Jefferson Avenue and Fifty-third Street will be built by Henry Phipps, former partner of Andrew Carnegie, at a cost of \$115,000.

A six-story mercantile building, 75 x 165 feet, will be erected at 190-192 West Jackson Boulevard, by Mrs. Ida A. Richardson, at a cost of \$120,000.

Bids for the new building the People's Gas Light and Coke Company have under consideration have not as yet been taken, we understand. The skyscraper will be twenty stories high, and stand on the northwest corner of Michigan Avenue and Adams Street. The estimated cost of the building is \$2,500,000, according to the architects, D. H. Burnham & Co.

It is said that a three-story building, to cost \$40,000, will be erected by Dr. J. B. Loring, on the southeast corner of Sheridan Road and Glengyle Place.

JOLIET.—Negotiations which are now pending and which have been for the past few weeks by the Oliver Realty Company acting for the Woodruff Safe Deposit Company, may result in the erection of a six-story brick building on Jefferson Street, where the Fiddymont building now stands.

PEORIA.—There appears to be a strong sentiment at this point favoring the establishment of a new court-house for Tazewell County.

INDIANA

EVANSVILLE.—The Horn Mercantile Company has made formal announcement that they would take immediate action toward replacing their buildings at 513 and 515 Main Street, recently damaged by fire, by a new and modern store building. Plans for the new place are now being drawn by Architect Schlotter.

It is said that the Intermediate Insurance Company of this city has appointed a committee to draft plans for the erection of a modern office building in Evansville.

The Christian Science congregation of this city has purchased a lot in Mulberry Street, and, according to reports, will erect a new church, to cost about \$25,000.

Plans for a commodious two-story store building to be erected at 310-312 Upper Third Street by E. K. Ashby & Co. are being prepared by Harris & Shopbell, architects. The new building will have ground dimensions of 36 x 60 feet. It will cost \$25,000.

FT. WAYNE.—The G. A. R. members, it is said, will shortly start proceedings looking toward securing the appropriation from Congress of \$200,000 for the erection of the Anthony Wayne memorial building here.

INDIANAPOLIS.—The matter of authorizing a bond issue for a new infirmary was taken up informally at the last meeting of the County Council, but action was not taken. At that time plans prepared by Martindale & Rigg, architects, were submitted, and it was estimated the building would cost, complete, \$250,000.

IOWA

DAVENPORT.—We understand that negotiations are being carried on between the German Savings Bank and the Henry Lischer estate for the transfer of the property located on the southwest corner of Third and Main Streets on which the bank intends to erect a building if the deal is closed.

SIoux CITY.—Plans and specifications for a new 10-room school building at Smith's Villa, and an addition to the high school, were ordered made by the School Board at its meeting last night.

WATERLOO.—Helmet Lodge, No. 89, Knights of Pythias, has decided to live in its own home, and arrangements have been made for the erection of a three-story brick building, at a cost of \$40,000.

KANSAS

WICHITA.—The Santa Fé Company has purchased real estate in the heart of the city, and General Superintendent Hurley has announced the company will expend in the neighborhood of \$400,000 more for depots and additional freight tracks in the city.

KENTUCKY

HODGENVILLE.—Contracts will soon be signed by the Lincoln Memorial Association, acting for the State of Kentucky, for the erection of a memorial building to perpetuate the name and birthplace of Abraham Lincoln. The site selected is the farm on which Lincoln was born, near Hodgenville, Ky. John Russell Pope, of 527 Fifth Avenue, New York, recently completed the plans, which call for a massive edifice with classic façades of solid granite. A miniature log cabin, fashioned after the one Lincoln was born in, will be placed on a pedestal on the main floor of the building.

LEXINGTON.—According to current reports, the trustees of Berea College are said to have under consideration the enlargement of the present structures. About \$400,000 is to be raised for this purpose. William G. Frost is president.

LOUISVILLE.—A handsome apartment house to cost about \$35,000 will be built by W. M. Reeser. The location of the new building will be at Fourth Avenue and Hill Street, the location being one of the most desirable in the residential district.

LOUISIANA

ALEXANDRIA.—George Arantz, of the firm of George Arantz & Bros., lumber men of Decatur, Ala., has been in this city completing final arrangements for the immediate erection of their hardwood plant at Alexandria. The plant is to occupy a site in South Alexandria.

NEW ORLEANS.—The property at the corner of St. Charles and South Streets has been sold to a local capitalist through Baccich & De Montluzin. It is said that the buyer expects to build a 10-story apartment house, with the latest improvements, on this site as soon as the present short leases on the premises will be terminated.

MARYLAND

BALTIMORE.—Alfred Cookman Leach, the architect, will erect a handsome home at the northeast corner of St. Paul and Thirty-first Streets. Mr. Leach will expend about \$10,000 on the proposed residence.

Architect A. S. Beane has completed plans for the erection of a parsonage for the Keen Memorial Methodist Protestant Church. It will adjoin the edifice at the northwest corner of Huntington Avenue and Thirtieth Street. It will be two stories high, of brick construction, with stone foundation.

MASSACHUSETTS

BOSTON.—Dr. Richard C. Maclaurin, president of the Massachusetts Institute of Technology, is said to be contemplating extensive improvements.

Alvan T. Fuller, of the Motor Mart, has plans drawn and next week will select a site for a large building to house his mechanical department. Mr. Fuller proposes putting up a building 300 x 70 feet, with a basement and three stories.

NEW BEDFORD.—The Massachusetts Commission on Hospitals for Consumptives has secured sites for the three hospitals it is to build. These three sites are at North Reading, Lakeville and Westfield. Each hospital will hold 150 patients.

MICHIGAN

ANN ARBOR.—At the annual Michigan Union banquet at the University of Michigan it was announced that plans had been perfected and funds subscribed for the erection of a \$300,000 dormitory with an immense "Commons" or eating room in Ann Arbor. The dormitory will be a six-story building, at Williams and Maynard Streets.

MINNESOTA

DULUTH.—S. P. Morterud has purchased five lots on the corner of Woodland Avenue and St. Andrews Street. Mr. Morterud purchased the property for improvement, and it is understood he will have a fine home erected.

ST. PAUL.—The Junior Pioneer Association has adopted the plans for a home to be erected at a cost of \$27,000 at Ninth and Exchange Streets. Work on the building will begin in February.

MISSOURI

KANSAS CITY.—The question of erecting a new market house at this place is being discussed, we understand from recent reports. Approximately \$200,000 is to be used for this purpose.

The J. W. Jenkins Sons' Music Company has purchased the property at 1217-1219 Walnut Street. The company will consider later the construction of a 12-story building on the tract to be occupied by its store.

The new family hotel that is to be built at 406-410 Gladstone Boulevard will have all of the modern conveniences. It will be eight stories with a basement and two sub-basements. There will be billiard and card rooms in the basement proper and a garage, opening on Bellefontaine Avenue, in the first sub-basement. The architects are Edwards & Sunderland.

NEVADA

GOLDFIELD.—Architects Oliver Randolph Parry and Elzey B. Bowen, Jr., of Philadelphia, are preparing plans for a big hotel at Goldfield for the Marlview Mining Company. It will be a concrete structure, 125 feet square, containing 125 rooms.

NEW HAMPSHIRE

DUNBARTON.—We understand that it has been voted to build a new town house at this point, and a committee of five has been chosen for the purpose of drawing up plans and an estimate of cost. This committee consists of P. M. Lord, Henry S. Whipple, Aaron C. Barnard, John Bunten and A. F. Waite.

NEW JERSEY

JERSEY CITY.—Plans for what will probably be the most modern school building in the State have been completed by the Jersey City Board of Education, and a resolution has been passed directing the construction of the new No. 32 School on Coles Street, between Seventh and Eighth Streets. The school will be known as No. 32 and will be erected at a cost of \$300,000. Bids will be taken December 23. The Board also adopted plans for altering its rooms in the City Hall. The big meeting room will be cut into six offices.

As soon as Congressman-elect Eugene F. Kinkead returns from his resting trip at Lakewood the members of the Tenth Ward Democratic Club are going to see actively about the proposition of securing a permanent clubhouse for themselves.

NEWARK.—Plans for a 16-story structure to be erected at the northeast corner of Broad and Market Streets, the site of the Firemen's Insurance Company Building, will be considered by the directors at a meeting to be held shortly.

Estimates are being obtained by Architect William Lehman for the remodeling of the old National Newark Banking Building, at the corner of Broad and Clinton Streets, work upon which is to start, according to Mr. Lehman and R. A. Osborne, president of the Osborne Realty Company, owners of the structure, within three weeks. The alterations are to cost in the neighborhood of \$25,000, and will practically result in the rebuilding of the entire structure.

PASSAIC.—Cramp & Co., of Philadelphia, have posted plans for a \$500,000 high school building at Passaic. The plans provide for a three-story and basement structure of concrete with exterior walls of granite and terra cotta. The dimensions will be 208 x 141 feet.

WEST ORANGE.—Sealed bids will be received in the board room, High School Building, Gaston Street, West Orange, N. J., December 1, by the Building Committee of the Board of Education, for furnishing the materials and doing the work connected with addition to Washington School Building, in accordance with plans and specifications prepared by Arthur Dillon, of 194 Park Avenue, Orange, N. J. Plans and specifications may be seen and forms of the proposal and full particulars obtained at the office of the chairman of the Building Committee, Newell N. Smith, Hedges Building, West Orange.

NEW YORK

ALBANY.—Governor Hughes, President Stewart, of the State Board of Charities, and State Fiscal Supervisor of Charities Bissell, as a State Building Improvement Commission, have approved plans and specifications for new buildings and additions to State institutions to cost about \$125,000 and to include a cottage for inmates at the State Reformatory for Women at Bedford; five cottages for employees and four for inmates; an industrial building and a hospital for contagious diseases at the State Agricultural and Industrial School at Industry, and for a barn to replace one destroyed by fire at the Thomas Indian School at Iroquois.

BUFFALO.—Plans have been drawn by Esenwein & Johnson for a new home for the Buffalo Orphan Asylum on Elmwood Avenue just north of Scajaquada Creek. If the plans are accepted by the board of trustees it will mean the expenditure of \$200,000 in new buildings. Ten acres of land were bought by the trustees two years ago as a site for a new home for the asylum.

EDGEMERE, L. I.—Lorenz F. J. Weiner is preparing plans for four cottages to be erected by Jennie Friedman, on the east side of Beach Avenue, near Sprayview Avenue, Edgemere, at a cost of \$40,000.

NEW YORK CITY.—M. & H. Hess sold for David Steiner property at 40-42 West Twenty-second Street. When old leases expire next May the new owner will build 12-story and basement fireproof lofts. Louis Korn, the architect, has been commissioned to draw plans for the structure. The plot is opposite the Stern Bros' store.

Sealed bids will be received by the Department of Public Charities on Tuesday, December 1, for furnishing all the labor and materials required for removing the four hospital pavilions located on the grounds of Bellevue Hospital and erecting same at the Metropolitan Hospital, Blackwells Island, the City of New York. For full particulars see City Record.

The Bronx Lodge No. 871 of the Benevolent and Protective Order of Elks will have a clubhouse of its own at the north-east corner of the Grand Concourse and Burnside Avenue. The lodge has just purchased, through Broker M. F. Kerby, a plot of about two and a half lots at that point, measuring 50 x 102 feet. Plans will be prepared immediately for a building on this site to cost between \$75,000 and \$100,000, and it is expected that the cornerstone of the new structure will be laid as soon as it is possible to begin building operations in the spring.

The city has filed plans through Architects Trowbridge & Livingston for the new buildings to be erected on Riker's Island at an estimated cost of \$2,210,000. This group of structures will include a four-story penitentiary, costing \$1,200,000; a prison for women, together with a mess hall, costing \$350,000; a factory, costing \$160,000; an administration building, to be put up at an expense of \$400,000, and a kitchen and bathhouse, which will cost \$70,000 and \$30,000, respectively.

Thomas R. Ball, 382 Fifth Avenue, has purchased a plot 28 x 100 adjoining the former Engineers' Club. This purchase, with the lease of the Dodd, Mead & Co. building, at the north-west corner of Thirty-fifth Street, recently acquired by Mr. Best, gives him a plot with a frontage of 103 feet in the avenue and 125 feet in the street. Mr. Ball will erect on this plot a building six or eight stories high for the exclusive use of Best & Co.

The proposal to erect a building of monumental character for the North Side Board of Trade, on the property at Third Avenue and 138th Street, has been taken up with renewed vigor, and it is not unlikely that work on the structure will be begun within a few months. According to the estimate of the building committee of the Board of Trade, of which J. Clarence

Davies is chairman, the operation will call for an expenditure of about \$160,000.

A first-class theater for the production of plays in Yiddish is being planned for the Brownsville section of Brooklyn. It is understood that the Shuberts are in back of the enterprise. It is understood that the proposed theater will be built in the heart of Brownsville, at a cost of \$300,000, probably in the neighborhood of Rockaway and Liberty Avenues.

OSWEGO.—A novel scheme has been under consideration by the members of the Chamber of Commerce relative to the new hotel proposition for this city. It is stated that there is a possibility that this building when put up may be built at the east end of the lower bridge.

SYRACUSE.—James C. Stewart, of New York, has announced that if a suitable site were provided, fully paid for, he would furnish the funds for the erection of a hotel in Syracuse. Mr. Stewart is head of the Stewart, Kerbaugh, Shanley Company, one of the biggest contracting corporations in the United States.

OHIO

COLUMBUS.—Architect J. S. Goldsmith is preparing plans for a brick stable and warehouse to be erected shortly by the commission house of S. Wolf & Sons, on Chapel Alley, between Fourth and Fifth Streets. This building will be built of brick and will be three stories in height, with a large basement.

OKLAHOMA

ENID.—Architect R. W. Shaw, of Enid, Okla., is preparing plans for a brick and stone residence for J. E. McCristy, of Enid. Cost estimated at \$15,000.

HOBART.—Announcement has been made by O. T. Blake, nephew of J. Pierpont Morgan, and promoter, that he has just completed financing a scheme whereby the Brock Hotel here will be greatly enlarged and improved, making it one of the most complete hosteleries in the new State.

MUSKOGEE.—It is said that the County Commissioners have employed an architect to draft plans for a court house to cost \$300,000.

STIGLER.—Plans and specifications drawn by B. Van Dyke, a Muskogee architect, have been accepted for the new \$15,000 hotel which will be erected at Stigler, Okla. The hotel will be a two-story structure, containing forty rooms. It will be erected by R. L. Coleman, of Stigler.

SULPHUR.—J. M. Campbell, a wealthy contractor and builder of this city, has bought 50x125 feet on Vinita Avenue, between the McKenzie Hotel and the Harper Opera House, and will erect thereon a three-story and basement flat building. The structure will be steam heated and will cost \$18,000.

OREGON

PORTLAND.—L. W. David, a sawmill man, who has just sold his interests at Everett and Anacortes at a figure said to exceed \$2,000,000, will establish an immense plant, with a capacity of 150,000 feet a day, on Oregon Slough, near Portland. He will get supplies from the lower Columbia.

PENNSYLVANIA

JENKINTOWN.—Architect G. B. Rage, of Philadelphia, has completed plans for the extensive remodeling, at a cost of \$50,000, of the country seat of Mrs. J. Howard Gibson, at Jenkintown.

PHILADELPHIA.—The Lutheran Church of the Redeemer, which is at present worshiping in the old Academy Hall, on Queen Lane, Falls of Schuylkill, has bought a plot 60 x 150 feet at the corner of Thirty-fifth Street and Midvale Avenue, and will erect there next spring a new edifice of stone, to cost \$25,000.

Announcement has been made that contractors will be invited to estimate on the plans for the new building for the Curtis Publishing Company within the next six weeks. The Curtis Building will be the largest structure erected in this city in several years. It will consist of three sections: the editorial and business on Sixth Street between Walnut and Sansom, the mechanical on Walnut Street west of Sixth, and the boiler-house on Sansom Street west of Sixth. Estimated cost, \$3,000,000.

Estimates will be invited shortly by the Board of Education for new schools at Twenty-third and Cambria Streets, Fifty-ninth and Race Streets and Second and Tioga Streets.

PITTSBURG.—Architects Simpson & Schmeltz are completing plans for an English house, to be built on the adjoining lot by E. F. Guthrie at a cost of \$18,000.

After a conference with presidents of subsidiary concerns, W. E. Corey, president of the United States Steel Corporation, has announced that another big steel wheel plant will be erected in the Pittsburg district. The new mill will cost about \$3,000,000. Improvements involving \$1,500,000 will be made on the Schoen steel plant, recently acquired by the steel corporation, and the capacity of the Homestead mills will be greatly increased.

A Hindu temple, the third of its kind in America, is to be built in Pittsburg by the Vedanta Society. The society was established here two years ago.

SCRANTON.—According to reports, the Anthracite Commandery, Knights of Malta, contemplate building a temple of its own in this city, to meet the present requirements.

The Traders' National Bank will, in the near future, double its present capacity by adding to its building on Wyoming Avenue. The plan is to completely cover the plot with an addition joined to the present building, which will, when completed, constitute in its entirety one of the most impressive business buildings in the city.

RHODE ISLAND

PAWTUCKET.—The question of enlarging the Pawtucket school at Lakewood is being discussed at this point by the Board of Education, we understand.

PROVIDENCE.—Property at the corner of Broad and Bridgman Streets, the purchase of which the congregation of the Trinity Union M. E. Church has under consideration is to be used as a site for a proposed edifice in the future.

WOONSOCKET.—According to the local press, four acres of land have been purchased by the Woonsocket Spinning Company and a factory of its own will be erected.

SOUTH CAROLINA

COLUMBIA.—According to current reports, the School Board is said to have under consideration the rebuilding of the Washington Street School, at an expense of \$30,000.

SOUTH DAKOTA

CANTON.—Plans are being perfected at this point for the construction of a Masonic Temple to cost in the neighborhood of \$12,000. As planned, the temple will be used for Masonic purposes only, and will include reading and reception rooms.

TENNESSEE

MEMPHIS.—Memphis, which is just on the eve of the opening of one new theater, may have still another before the middle of the coming summer, if plans now said to be materializing are carried out. The proposed new house, if built, will be backed by the interests controlled by the Shuberts.

TEXAS

DALLAS.—Several business buildings are to be erected at once on Jackson Street. The Crane Company has invited bids on a five-story brick to be erected at the intersection of Jackson Street and the Santa Fé Railroad tracks, at a cost of about \$300,000; Henry Hartman will shortly let the contract for a 75 x 100 two-story brick on the northwest corner of Akard and Jackson, and E. H. R. Green will put up three three-story bricks east of Akard.

FORT WORTH.—Having decided to build a home for the supreme lodge of the United Benevolent Association, a board of trustees consisting of N. B. Moore, George Mulkey, J. W. Spencer, J. C. Scott, W. R. Booth and W. J. Gilvin has been selected to secure a good building site in the business section of the city and purchase the same.

HOUSTON.—Plans are being prepared for a new four-story building for commercial purposes to be erected at the corner of Prairie Avenue and Travis Street on the site now occupied by the Columbia Dry Goods Company.

TEMPLE.—There will be a special called meeting of Temple Lodge No. 138, B. P. O. E., shortly, for the purpose of considering the report of the trustees with reference to a site for the new home. A downtown location will be secured and the lower floor used for commercial purposes and the upper portion ex-

clusively for lodge quarters. The Elks contemplate expending \$40,000 on the home exclusive of the lot.

VERMONT

NORFOLK.—All architects practicing their profession in the city of Norfolk are invited to call at the office of the Norfolk City School Board, in the Paul-Gale-Greenwood Building, on or before December 1, 1908, between the hours of 4 and 5 o'clock p.m., and be furnished with a program of the proposed new high school for this city.

VIRGINIA

NORFOLK.—Architects Watson & Huckel, of Philadelphia, have been commissioned to prepare plans for a \$100,000 church for Christ Episcopal congregation, at Norfolk.

RICHMOND.—Courtland, Chester and Elk Creek, in the Second, Third and Fifth districts, respectively, have been chosen as sites for agricultural and normal schools by the State Board of Education.

WASHINGTON

SEATTLE.—Excavation is in progress at the southwest corner of Minor Avenue and Pike Street for a building for Cyrus Walker. Grosvenor Folsom, agent of the Puget Mill Company, has said that plans for the improvement of the property were under consideration, but that a definite decision on the character of the improvement had not been reached. Tentative plans for the improvement, however, contemplate a six-story building devoted for bachelor apartments, the building to cost between \$80,000 and \$100,000, with every appointment to be desired by fastidious bachelors.

L. D. Lewis has taken out a permit to build an apartment house at 1007 East Marion Street, after plans prepared by Graham & Meyers. The building will be three stories in height and will cost \$65,000.

An apartment house for Alfred C. Smith will be erected at Second Avenue North and Thomas Street, containing eighteen two and three-room suites, all the rooms of which will have direct outside light and ventilation. The exterior to be finished with plaster. Willcox & Sayward are the architects.

It has been definitely decided to build a Foreign Palace on the grounds of the Alaska-Yukon-Pacific Exposition. The structure will cost about \$85,000, and will contain 60,000 square feet for exhibit purposes.

SPOKANE.—C. B. Pride, a Wisconsin capitalist, who owns a \$1,000,000 paper mill in that State, announces that he will at once begin work on the erection of a \$1,000,000 paper mill in the city of Spokane.

The Spokane Realty Company has announced that work will be begun on two hotels, one a six-story structure to cost \$150,000, and one four stories high, to cost \$75,000. Both will be on Riverside Avenue, near Browne Street.

TACOMA.—A new power plant to cost \$2,000,000 is a proposition that will be put up to the city in a short time. The necessary ordinance is now being drawn by the city attorney, and it is probable that it will be presented to the City Council for action in a short time.

WEST VIRGINIA

FAIRMONT.—The government has selected as a site for the \$125,000 Federal building here a property owned by U. N. Arnett and Charles E. Manley, in Main Street.

GRAFTON.—The secretary of the treasury has selected a site for the public building to be erected at Grafton. The site selected is bounded by Main, Latrobe and St. Mary's Streets.

WISCONSIN

FOND DU LAC.—Plans have been completed for the erection of a handsome garage opposite the new brick block to be erected by the Ahern-McCoy Company. It will cost \$20,000.

MILWAUKEE.—A large apartment building costing \$40,000 will be built at 178 Fourteenth Street by Charles H. Thwaites. Architect G. C. Ehlers has prepared plans.

One of the finest corner building lots in the fashionable section of the East Side, at Prospect Avenue and Kane Place, has been purchased by Patrick Cudahy, through Nathaniel Greene. Mr. Cudahy, according to reports, will soon begin the erection of an apartment house there, to be in a general way patterned after the Henry M. Benjamin structure of the same class directly opposite on Prospect Avenue.

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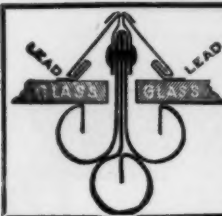


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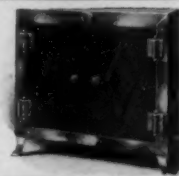
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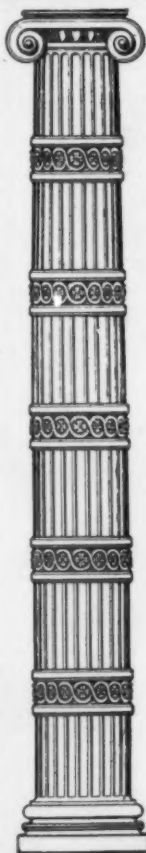
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WANTED—Interior decorator, to be able to design and sketch draperies, combine colors, take complete charge of any residence throughout; business man with architectural following and social acquaintance; take full charge of interior decorations. Address 21-D, care American Architect. (1717-18-19-20)

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SUPERINTENDENT for a company engaged in erecting country bank buildings. Duties will be to critically examine the plans and specifications when received from the architects, call for tenders, see that all detail drawings are forthcoming promptly, correspond with contractors and generally to act as an intermediary between the architects and contractors with a view to ensuring the completion of each building expeditiously and without mistakes. Applicants must have training in architect's office. Address Box 22-B, care American Architect. (1718)

BUSINESS OPPORTUNITY.

ARCHITECTURAL FIRM of two members, located in city of 75,000, good territory, with practically entire field at command, in order to better attend to present business and increase same, desires the services of capable man in following lines: General office work, such as is usually done by head draughtsman, specification writing and supervision of construction and knowledge of fireproof construction. One member of firm is at present doing all supervision, outside work and specification writing, the other all office work; neither has sufficient time to give to office details. One desires more time for outside work, the other to confine his attention more closely to designing, sketching and decorative work, with less time to draughtsmen. None but capable and systematic man acceptable. An assured salary and an interest in the business given

to right party. State fully experience, etc., to avoid unnecessarily long correspondence. Address "Opportunity," care American Architect. (1718-19)

PARTNERSHIP WANTED

PARTNER WANTED—A young man with \$400 capital can buy a half-interest in a well-established architectural practice in a splendid location in one of the Middle Atlantic States. An unusual opportunity for a capable young man. Terms: Cash or negotiable paper. Address "Partner," care American Architect. (1717-18-19)

PROPOSALS

Treasury Department, Office of the Supervising Architect, Washington, D. C., November 11, 1908.—Sealed proposals will be received at this office until 3 o'clock P.M., on the 21st day of December, 1908, and then opened, for the construction of the U. S. Government Buildings at the Alaska-Yukon-Pacific Exposition at Seattle, Washington, in accordance with drawings and specifications, copies of which may be obtained from the Custodian of the Court House, Custom House and Post Office at Seattle, Washington, or the Superintendent of Construction at the Post Office, Court House and Custom House at Tacoma, Washington, after the 18th day of November, 1908, or at this office after the 14th day of November, 1908, at the discretion of the Supervising Architect.—James Knox Taylor, Supervising Architect. (1717-18)

Treasury Department, Office of the Supervising Architect, Washington, D. C., November 14, 1908.—Sealed proposals will be received at this office until 3 o'clock P.M. on the 23d day of December, 1908, and then opened, for the construction (including plumbing, gas piping, heating apparatus, electric conduits and wiring), of the U. S. Post Office at Alexandria, Minnesota, in accordance with the drawings and specifications, copies of which may be obtained from the Custodian of the site after the 19th day of November, or at this office after the 17th day of November, 1908, at the discretion of the Supervising Architect.—James Knox Taylor, Supervising Architect. (1717-18)

NOTICE TO CONTRACTORS

Sealed proposals endorsed "(1) Proposal for construction complete, including plumbing, electric heating and lighting for shaft and tunnel, and inclined foot path"; and sealed proposals endorsed "(2) Proposal for elevators, including machinery," at the State Reservation, Niagara Falls, N. Y., will be received by Edward H. Perry, Superintendent of the State Reservation, Niagara Falls, N. Y., up to 10:30 o'clock on the 4th day of December, 1908, when they will be opened and read publicly.

Proposals shall be accompanied by certified checks as follows: With proposal No. 1 certified check shall be in the sum of \$5,000; with proposal No. 2 certified check shall be in the sum of \$1,000.

The contractors to whom awards are made will be required to furnish surety company's bonds as follows: For contract awarded on proposal No. 1 bond shall be in the sum of \$50,000; for contract awarded on proposal No. 2 bond shall be in the sum of \$10,000.

The right is reserved to reject any and all bids.

Drawings and specifications may be consulted and blank forms of proposals obtained at the State Reservation, Niagara Falls, N. Y., or at the office of the State Architect. Complete sets of plans and specifications will be furnished to prospective bidders upon reasonable notice to, and in the discretion of, the State Architect, Franklin B. Ware, Albany, N. Y. (1717-18)

Treasury Department, Office of the Supervising Architect, Washington, D. C., November 16, 1908.—Sealed proposals will be received at this office until 3 o'clock P.M. on the 26th day of December, 1908, and then opened, for the construction (including plumbing, heating apparatus, electric conduits and wiring), of the U. S. Post Office at Americus, Georgia, in accordance with drawings and specification, copies of which may be obtained from the Custodian of the site after the 20th day of November, or at this office after the 18th day of November, 1908, at the discretion of the Supervising Architect.—James Knox Taylor, Supervising Architect. (1718-19)

Treasury Department, Office of the Supervising Architect, Washington, D. C., November 16, 1908.—Sealed proposals will be received at this office until 3 o'clock P.M. on the 28th day of December, 1908, and then opened, for the construction (including

plumbing, gas piping, heating apparatus, electric conduits and wiring), of the U. S. Post Office and Court House at Lake Charles, La., in accordance with the drawings and specification, copies of which may be had from the Custodian of site at Lake Charles, La., after the 21st day of November, or at this office after the 18th day of November, 1908, at the discretion of the Supervising Architect.—James Knox Taylor, Supervising Architect. (1718-19)

Treasury Department, Office of the Supervising Architect, Washington, D. C., November 17, 1908.—Sealed proposals will be received at this office until 3 o'clock P.M. on the 29th day of December, 1908, and then opened, for the construction (including plumbing, gas piping, heating apparatus, electric conduits and wiring) of the U. S. Post Office at Alton, Ill., in accordance with drawings and specifications, copies of which may be obtained from the Custodian of site at Alton, Ill., or at this office at the discretion of the Supervising Architect.—James Knox Taylor, Supervising Architect. (1718-19)

NOTICE TO CONTRACTORS.

Sealed proposals endorsed "Proposal for construction complete, including heating, plumbing and electric work for addition to industrial building, hospital for contagious diseases, four cottages for boys and five cottages for employees" at the New York State Agricultural and Industrial School, Industry, N. Y., will be received by Miss Lura E. Aldridge, President of the Board of Managers, New York State Agricultural and Industrial School, Industry, N. Y., up to 7 o'clock P.M. on the 8th day of December, 1908, when they will be opened and read publicly.

Proposals shall be accompanied by a certified check in the sum of \$3,500, and the contractor to whom the award is made will be required to furnish surety company's bond in the sum of \$35,000. The right is reserved to reject any and all bids.

Drawings and specifications may be consulted and blank forms of proposal obtained at the New York State Agricultural and Industrial School, Industry, N. Y., or at the office of the State Architect. Complete sets of plans and specifications will be furnished to prospective bidders upon reasonable notice to and in the discretion of the State Architect, Franklin B. Ware, Albany, N. Y. (1718-19)

NOTICE TO CONTRACTORS.

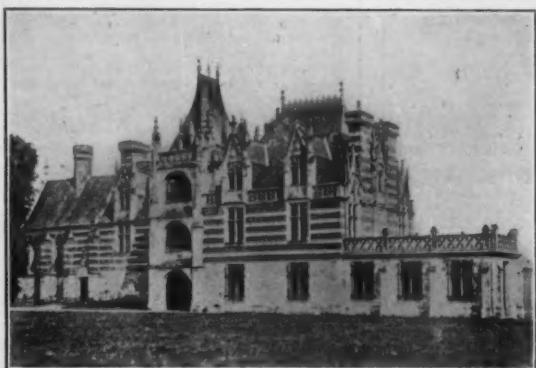
Sealed proposals endorsed "Proposal for construction complete, including heating, plumbing and electric work for cottage for inmates," New York State Reformatory for Women, Bedford, N. Y., will be received by Hon. James Wood, President of the Board of Managers, New York State Reformatory for Women, Bedford, N. Y., up to 2 o'clock P.M. on the 11th day of December, 1908, when they will be opened and read publicly.

Proposals shall be accompanied by a certified check in the sum of \$1,500 and the contractor to whom the award is made will be required to furnish surety company's bond in the sum of \$15,000. The right is reserved to reject any and all bids.

Drawings and specifications may be consulted and blank forms of proposal obtained at the New York State Reformatory for Women, Bedford, N. Y., or at the office of the State Architect. Complete sets of plans and specifications will be furnished to prospective bidders upon reasonable notice to and in the discretion of the State Architect, Franklin B. Ware, Albany, N. Y. (1718-19-20)

Treasury Department, Office of the Supervising Architect, Washington, D. C., November 21, 1908.—Sealed proposals will be received at this office until 3 o'clock P.M. on the 5th day of January, 1909, and then opened, for the construction (including plumbing, gas piping, heating apparatus, electric conduits and wiring) of the U. S. Post Office at Niles, Mich., in accordance with drawings and specification, copies of which may be obtained from the Custodian of site at Niles, Mich., or at this office, at the discretion of the Supervising Architect.—James Knox Taylor, Supervising Architect. (1718-19)

Treasury Department, Office of the Supervising Architect, Washington, D. C., November 23, 1908.—Sealed proposals will be received at this office until 3 o'clock P.M. on the 4th day of January, 1909, and then opened, for the construction complete (except elevator) of the U. S. Post Office at Sault Sainte Marie, Mich., in accordance with the drawings and specification, copies of which may be had at this office or at the office of the Custodian of site, at Sault Sainte Marie, Mich., at the discretion of the Supervising Architect.—James Knox Taylor, Supervising Architect. (1718-19)



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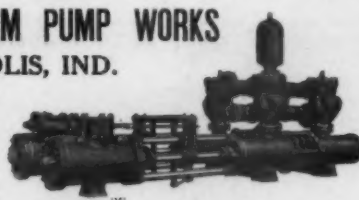
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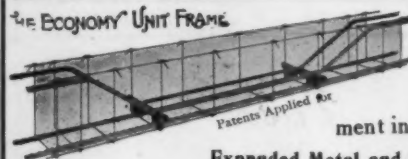
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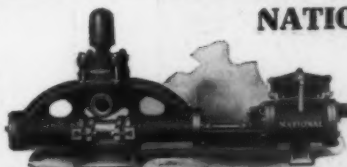
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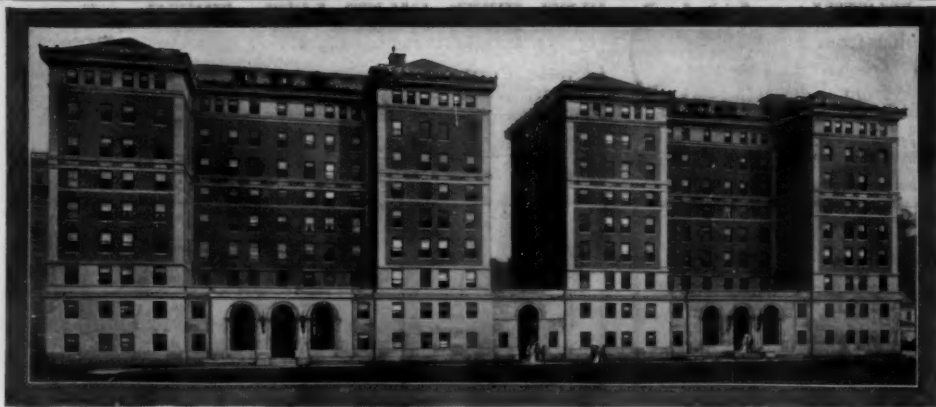
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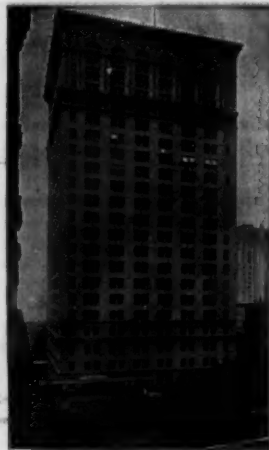
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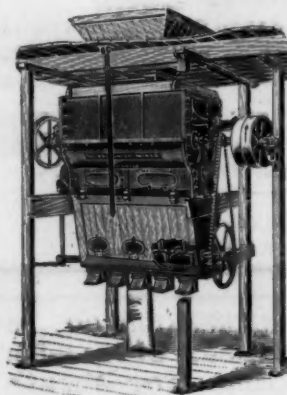
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