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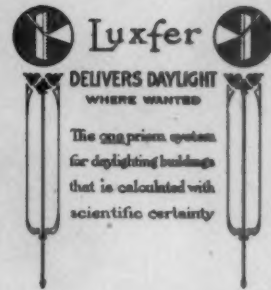
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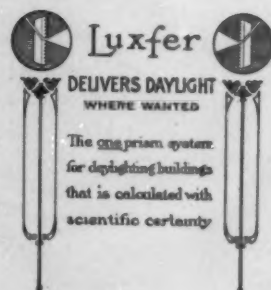
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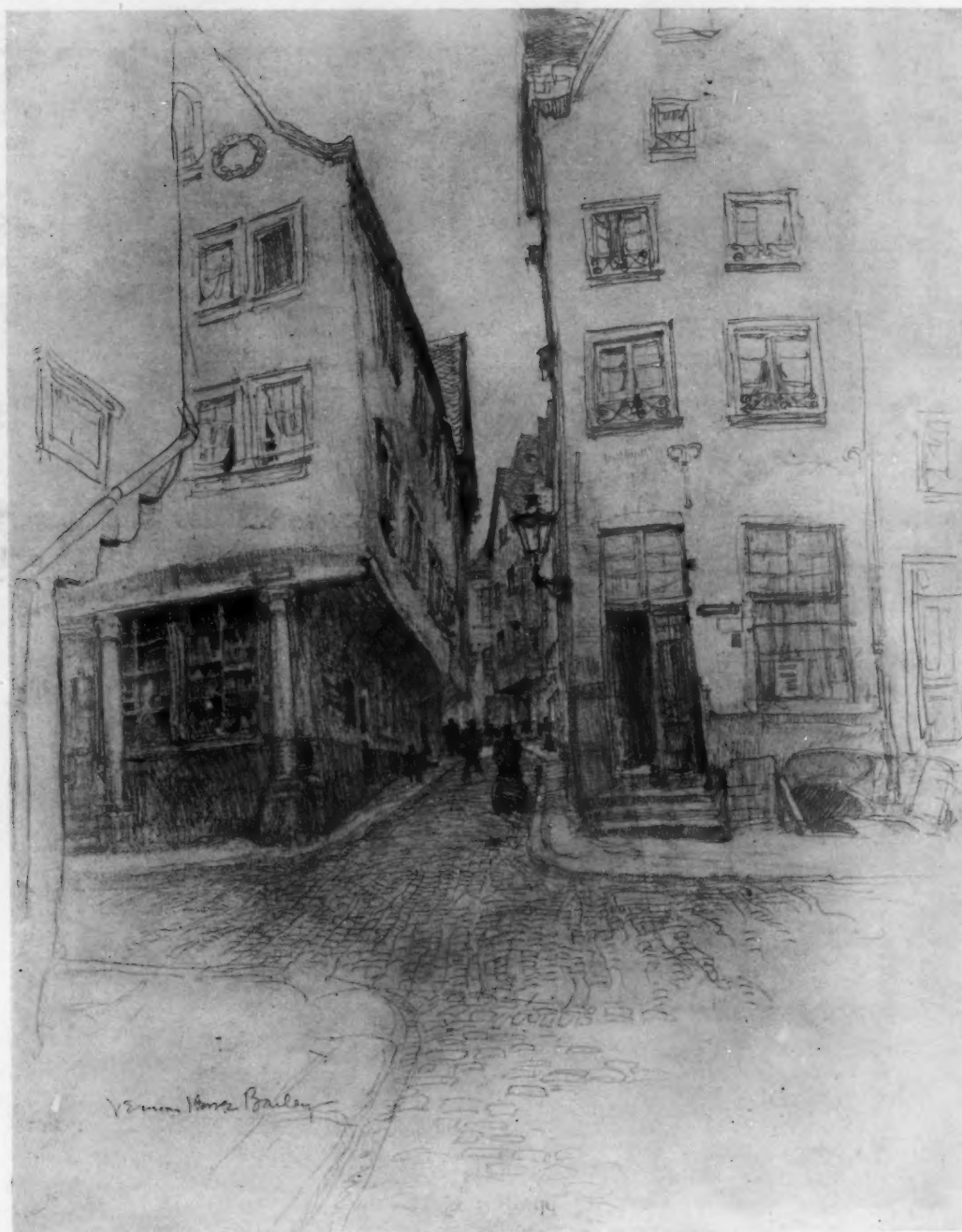
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THE AMERICAN ARCHITECT



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FIG. 5. GALERIE FRANÇOIS I.

PALAIS FONTAINEBLEAU

THE LIGHTING OF "PERIOD" INTERIORS

BY BASSETT JONES, JR.

IN an earlier article (issue of September 22, 1909) we mentioned the close relation that the arrangement of a lighting equipment should bear to the architectural design. Too much emphasis cannot be given to a principle so fundamental. It seems perhaps unnecessary to repeat the truisms that art makes its appeal solely through the channels of sense—to what it appeals and why it appeals being, of course, another question, and that the perception of the aesthetic ideal embodied in an architectural composition, depending, as it does on the visual sense, demands an appropriate and carefully studied relation of effects in light and shade. Reduced to its simplest terms, the sensuous aspect of beauty in architecture is a matter of the grouping of light values, excepting, perhaps, those purely spacial and geometric

characters depending for their perception on eye parallax and other muscular reflexes; but even then the reflex is itself induced by the arrangement of the light stimulus. Beauty itself is, however, an essentially ideal and subjective characteristic of mental activity, and cannot be adequately defined purely in terms of its objective sensuous and perceptual characters. While we may for our particular purposes employ the classification of arts formulated by Hartmann, we must remember that the real distinction between the arts so grouped as "visual" is rather a matter of ideals than of sensations, and that such a classification eventually breaks down under a deeper going analysis. We must also remember that while our point of view is that of the beholder in whom the ideal is aroused by his sensations,

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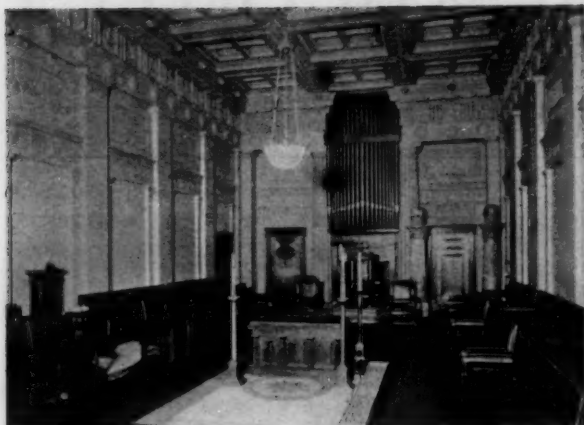


FIG. 1. THE GRECIAN DORIC ROOM IN THE MASONIC TEMPLE, NEW YORK

in actual artistic production the ideal and sensuous aspects of beauty are one.

It is then evident that if the artist's embodied conception is to be properly translated into just the correct visual sensations that will arouse in the beholder the particular feeling the artist is attempting to convey, the means whereby these sensations are aroused must be exactly suited to the particular case. The ideal content attainable will be strictly limited by its sensuous vehicle whether this vehicle be sound or light, and hence no artificial restraint that will in any way interfere with or block off the required sensations should be imposed.

We do not desire to go very deeply into the philosophy of the matter, but enough must be said to indicate the importance of the fundamental principle from which our discussion starts. This principle is not a principle of engineering, although engineering principles can without doubt aid us materially in achieving the desired end. The value of a knowledge of and ingenuity in applying the physical laws of light and the value of a knowledge of the character and limitations (chiefly the limitations) of available light sources is, however, of importance in enabling us to obtain results that will free the architect from the shackles of precedent by making wider the range over which he can find a satisfactory vehicle for expression.

However, habit and its artistic parallel—precedent, is fortunately a restraining influence so powerful that the evolution of style is usually a matter of slow growth, and this is particularly true in architecture, which lacks the freedom of the more imaginative arts of painting, music, and poetry, being entrained in such contributory factors as custom, utility and structural limitations.

The fundamental forms of construction on which all architecture is based are the same to-day that they were in prehistoric ages and are predetermined once for all by the laws of statics. The method of embodying these laws may, however, change from time to time as the number of available materials is increased, and as the facilities for handling and forming such materials are improved. But whatever the type of construction employed, if the completed work is to satisfy the fundamental sense of beauty its parts must bear certain relations to each other imposed by the laws of proportion,

and the character of this harmony of parts can only be set forth in certain ways by the use of ornament and decoration. There naturally results from this a number of relatively fixed styles of ornamental treatment that, experience has shown to be best illustrative of the principles of construction involved considering the conditions under which the construction is seen. That such styles of ornament have more or less detached from the character of construction about which they developed, and are used as a sort of screen to hide the results of the often aesthetically impossible demands imposed by modern notions of economy and utility, does not invalidate the statement as to their origin. As a matter of fact, much ornament is so bound up with constructive types that the desire to employ it for its decorative value has compelled the use of a purely fictive construction overlying the real construction. These types of architectural treatment are few in number, but have been given various interpretations principally by the intermixture of details typical of certain localities or of different times. For reasons that need not be entered into here, these modifications of types have been employed rather constantly through longer or shorter periods of time, so that it is possible to roughly mark off the evolution (often devolution) of style into so-called "periods" and to characterize designs typical of such "periods" as "period designs." It is the principles inherent in such "period designs" as applied to interiors that we shall discuss with a view of determining the proper character and distribution of artificial lighting required to set them forth in the best possible way.

In order to cut short what might easily develop into an endless analysis of forms of ornament, we shall employ the "case method"—that is, we shall use one specific case illustrative of each of several styles and thus outline the method of procedure, which, in view of what has been said above, is involved in all cases. But before we take up the first case we must pay some further attention to the important factor of *appropriateness*, and in this connection we shall state once for all that we shall have nothing to do with the use to which the particular room is put. That a designer has the poor taste to treat a ballroom after the style of some historic interior designed as a waiting room does not interest us. We can only point out the chances that either his



FIG. 2. THE EGYPTIAN ROOM IN THE MASONIC TEMPLE, NEW YORK



FIG. 3. GALERIE HENRY II

PALAIS FONTAINEBLEAU

ball room will be very ill-lighted or its architectural character will be largely lost. We must also emphasize the fact that the value of engineering ability in dealing with the general problem will lie principally in the power which such knowledge gives us to avoid the mistaken use of illumination that is, in any sense of the word, scientific or modern. Science will be useful only in helping us to avoid anachronisms and in designing lighting devices in which the essential character of modern light sources will be successfully concealed. We must generally act the lie in details for the sake of the larger truth—that is, a truth only from the point of view of the design.

It was pointed out above that in artistic production the ideal and the sensation must be one. This is true of all good architectural design, and, therefore, as we stated in a previous article, the design should be conceived as a whole and embodied as a whole. Unity must be its fundamental keynote. The designer in effect, envisages his ideal with relation to all its surroundings and such relations are, properly speaking, integral parts of this ideal. Now this envisaged ideal is *ipso facto*, seen, and must therefore be conceived as lighted. The designer must then, in seeking to embody this ideal construction in objective form work out its details with relation to the light by which others will see it. There results from this that the finest historic types of ornamental treatment have been modelled with regard to the character of light available in the location or age where or when they were developed, and to subject such de-

signs to a light for which they are not primarily suited is almost certain to result in a loss of character, a fact that must be carefully borne in mind when arranging the artificial illumination of what we have above called "period interiors." From this it follows, as a corollary, that the entire subject must be approached from the historical view point. We must thoroughly familiarize ourselves with the means and methods employed in earlier times. But, at the same time we must remember that a mere knowledge of historic work can be of very little help unless this knowledge is accompanied by a clear appreciation of the motive underlying the design—this motive is always a keen feeling for artistic appropriateness, and the consistency in design resulting therefrom is far more important than purity in period.

Therefore, while this paper must of necessity confine itself to examples of relatively pure period design, it must be borne in mind that no period is pure except the classic from which all really good design has drawn its incentive, and that while the classic is still fundamental it has become overlaid with such a multitude of variations, that it will generally be necessary to depart quite widely from any general rules for lighting laid down with reference to the classic alone, although such rules are in truth fundamental and are subject to variation only so far as the design itself is a variation. It thus comes about that we are confronted to-day with an aesthetic problem of great complexity. The mixture of mixed periods which many architects of undoubted ability employ often demands a great amount of ingenuity

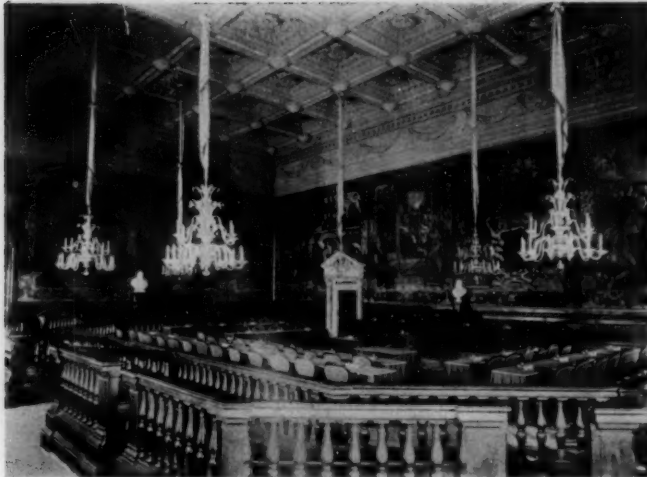


FIG. 4. COUNCIL CHAMBER, PALAZZO VECCHIO FLORENCE, ITALY

in determining upon a consistent lighting scheme. The common use of the classical orders to embellish the plane structural surfaces of interiors is a case in point where the structural motif of the order and its characteristic ornamentation are so inseparably blended that the use of the latter in its purity compels a fictitious use of the former. Sometimes the attempt is made to incorporate such ornament in a design dependent on a different type of construction. This use of ornament always gives it the appearance of being applied—stuck on to the construction, so to speak, as a sort of after thought. With regard to the lighting of purely classic interiors, we must remember that the cornice forms, friezes, caps, columns, etc., were designed absolutely with regard to the kind of light by which they would be seen when used as the designer intended. The beholder would always be below and the light strike down from above—either from the open sky or through the apertures provided in the roof. Horizontal projections would, therefore, always be shaded on the lower side, and all decoration was designed with this point in view. Fillets and mouldings were carefully disposed so as to obtain the best shadow effects, and delicate and ingenious modifications were made in the sections of echinii, tori, etc., to meet differences in light values, such as would be found, for instance, between the exterior and interior of temples. And all exterior work was designed with reference to the clear, bright atmosphere of Attica and Sicily.

When we proceed to the problem of properly lighting an interior treated in the pure classical style we see at once that hanging light sources and brackets of any kind considered as elements in the composition are almost certain to appear unessential, although they may be very beautiful in themselves. It does not seem necessary, therefore, to continue their use in view of the possibility of introducing more harmonious and suitable lighting arrangements through the agency of modern

illuminants and modern illuminating methods. Of course these remarks do not apply to what might perhaps be called the domestic classic. Here fixtures are essential and the design should be such that it will not be distorted by the primary requirement of utilitarian illumination, which, however, need not lack in beauty because it fulfills a want not immediately connected with the decorative treatment.

It is largely because the architect fails to look upon his design as anything more than a composition that we find so many examples of hopeless conflict between the practical requirements of the lighting and the architectural treatment—a conflict that is entirely unnecessary.

In interiors whose decoration is purely classical the light should come from the ceiling at some fairly sharp angle and must be distributed something like sunlight or the light from an open roof aperture. The diffusion

must not be excessive or the fine values of shadows will be lost. The color of the light should, of course, be suited to the general tone of the treatment. The intensity should be sufficient to give clear shadows, but not strong enough to be blinding.

An example of a room of this type is shown in Fig. 1—the “Doric Room” in the recently completed Masonic Temple, designed by Mr. H. P. Knowles. The ceiling is composed of glass panels set between plaster soffits, the lamps being disposed above the glass, which is of a character producing just the right diffusion of light and is slightly amber in color. The light, therefore, strikes down along the walls of the room, the resultant intensity being probably about forty-five degrees from the horizontal. The shadows are clearly defined, although transparent.

The room is also provided with lighting devices, consisting of alabaster bowls suspended from the ceiling. While these fixtures may be necessary in a purely utilitarian sense, the light they give decidedly detracts from the character of the design as a whole. They are

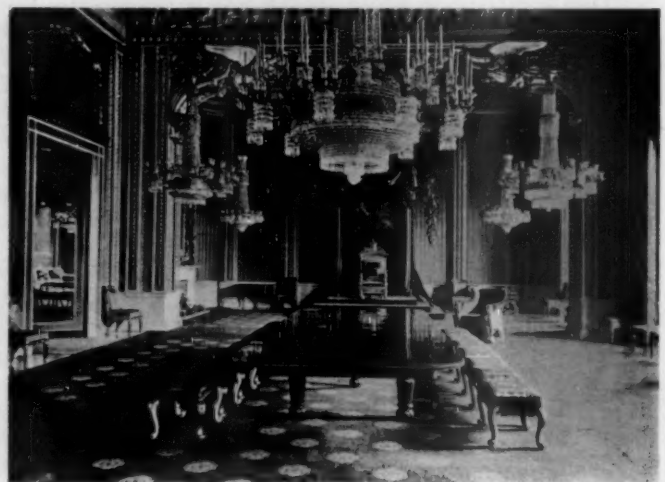


FIG. 6. THRONE ROOM

BUCKINGHAM PALACE

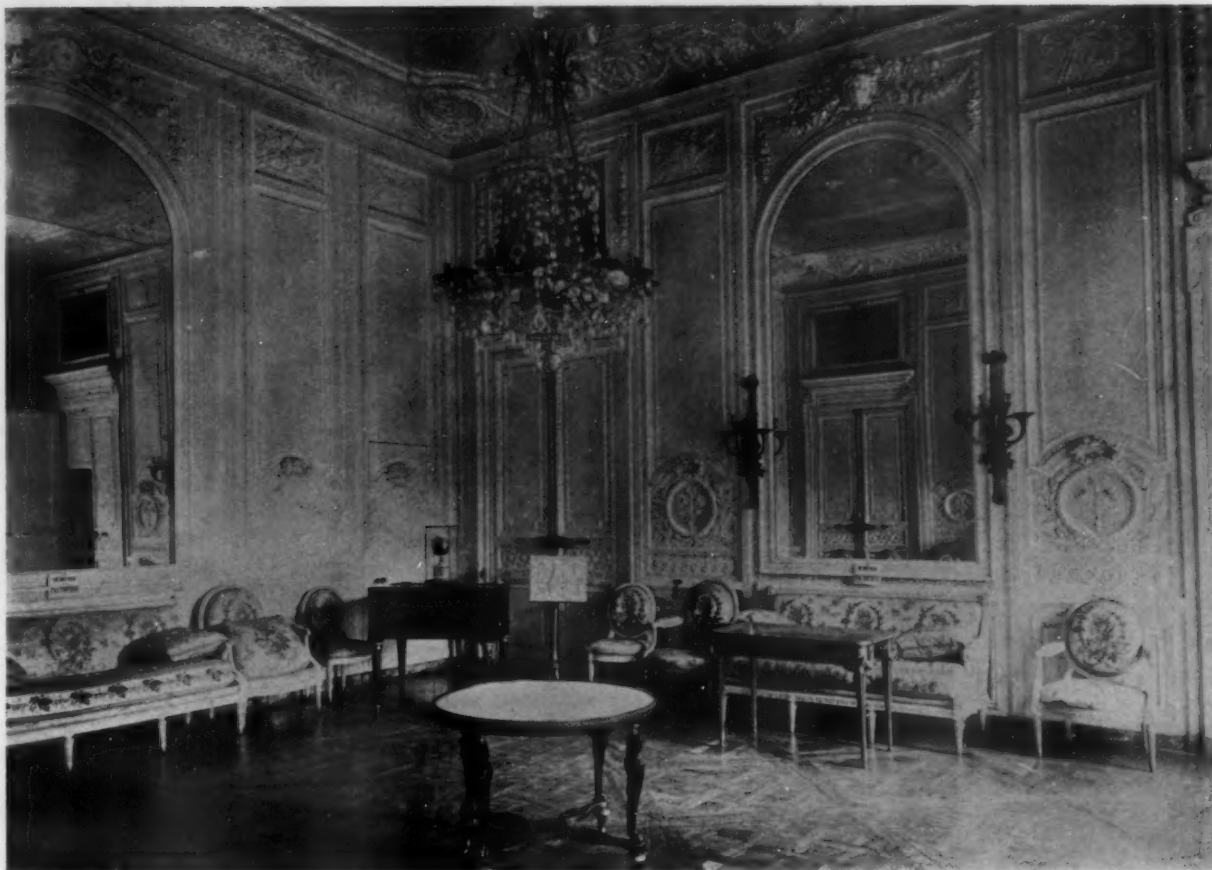


FIG. 7. SALON IN THE TRIANON

between the beholder and the room. They blind him to its beauty, and largely annul the fine shadow values produced by the light from the ceiling.

In Fig. 2 is shown the "Egyptian Room" from the same building. Here we require the mystery of soft lights searching between the columns, nor can we have any great brilliancy if the vivid coloring is not to be over emphasized. Blue lamps in reflectors have been placed above and behind the columns producing the effect of distant daylight entering through the temple portals. Here, again, the ceiling has been used to produce a soft diffused light that seems to magnify the scale of the design and harmonizes the color treatment intended to be seen under just such conditions. In the old temples of Isis shadows were massed and almost opaque in the general gloom. Details were dependent for emphasis solely on color, and color was used with a lavish hand.

So much for interiors taking their cue from the religious architecture of ante-Christian days. These are exceptions. We shall generally be called upon to study the palatial and domestic architecture of more recent times.

The lighting of Gothic interiors of a certain type has already been studied in a previous article. There was no domestic lighting worthy of the name, nor, indeed, was there a domestic Gothic architecture that one would care to employ in modern buildings until the

Elizabethan had its rise in the XVI century. Here we have many interesting examples of interiors, but still no examples of adequate lighting. The character of this period, like all Gothic, has a certain sombre strength, but is fast leaving behind the rudeness and largely the characteristic beauty of the early periods. It is gradually taking on a lighter and less sturdy tone brought across from France. Indeed, it is to France that we must go to find the first real solution of the lighting problem. A solution brought about by the evening gaieties of the court at Fontainebleau and later at Versailles—the times of Francis I and the later Louis.

In Fig. 3 is shown the Galerie Henry II at the Palace of Fontainebleau. One can easily imagine this interior treated in the modern fashion—perhaps with clustered lamps in rosettes applied to the square members of the ceiling soffits or in octagonal groups within the recesses, thus blinding the eye to the beauty of one of the distinctive features of the room. The practical eye might even pick out Primaticcio's vigorous decorations in the spandrels of the side wall arches as worthy of especial notice—even demand some form of reflecting device designed to light them as a picture gallery, forgetting that these are but a part of a single harmonious ideal, no factor of which should receive undue prominence.

Note the position of the bracket lights properly accenting the division line between the principal horizontal



FIG. 8. SALLE A MANGER

TRIANON

masses. In Fig. 4, as a comparison, note that the plane established by the fixtures is awkwardly low. By this slight error the heavy mass of the room is thrown above, and the room loses much of its dignity. The chandeliers in Fig. 3, hung so as not to obstruct the view, also serve to carry the eye across the alcove recesses and maintain the continuity of the wall surface. The fixtures themselves are evidently an integral part of the entire design and serve withal to produce an illumination quite as beautiful as the room itself; efficient measured by the pleasure it gives the beholder and useful because it enables him to thoroughly appreciate the perfection of the composition.

Now look at Fig. 5. Here, in the same building containing the interior illustrated in Fig. 3, we find a row of chandeliers disposed along the central axis of the room. The heavy decorations of the walls have, so to speak, driven the fixtures into the open. The ceiling here, being quite low and therefore light in construction, is not so active a factor in the design, and can, therefore, receive the weight of the fixtures which naturally become an element in its treatment and partake more of its character than of the decorative character of the side wall. Here side wall brackets would be entirely impossible. In order that they might fit well in their environment their artistic weight would have to be so great that the balance of the composition would be destroyed.

While we are on the subject of appropriateness in fixture design, let us look at Fig. 6—the Throne Room in Buckingham Palace. Apart from any consideration of the artistic merits of the room itself, it is obvious that the fixtures are not only of the wrong design, but are also too bulky and, what is more, there are too many of them. They are not a part of the design of the ceiling, nor do they "fit" with the style of the decorations, which are heavy and sombre.

In Fig. 7, on the other hand, we have the prismatic chandelier properly used. It carries the bright tone of the room and adds its sparkling brilliancy to the brilliant execution of the decorations. See how ingenious is

the arrangement for the play of light through reflection in the mirrors! And talking of mirrors, note the endless recession of brilliants in Fig. 8, where double mirrors across three rooms carry the eye almost to infinity. No crystals that would be dead against the unresponsive wall surface, be it observed, are used on the side brackets. With the exception of those illustrated in Fig. 4 and Fig. 6 the interiors shown illustrate perfect harmony of design and lighting. In each case the fixtures are a part of the treatment and are arranged and located with careful regard both to the purpose which the rooms were intended to serve and to the proportions and decorations. The decoration and ornamentation are so conceived and executed that the lighting will set them forth to the best advantage.

Of course, we can find many cases among historic interiors where the desire to employ certain forms of treatment overweighed the better judgment of the architect with a resulting loss of effect due to the impossibility of obtaining suitable illumination. There are also many instances of interiors, used but little when artificial light is necessary, whose design caters absolutely to daylight illumination. It often requires a keen visual conception on the part of the architect to enable him to adapt his design to both forms of light, which generally differ so widely from each other both in character and direction. Indeed, it is often wise if not necessary to frankly treat a room so as to obtain an effect at night quite different from that obtained during the day time. This requires that much attention be given to the character of treatment and to the location of fixtures if the effect under artificial light is not to prove unfortunate. Certain forms of ornament demanding definite shadows must be carefully studied so as to avoid their use. This is particularly the case with many plane cornice forms which may appear absolutely flat if the shadows are lost or even much diminished. Rich detail decoration or suitable tinting can often be used to correct such defects. A simple half round moulding, for instance, entirely depends for its effect on gradation of shadows. If this shadow is lost, the egg and dart or some equivalent ornamentation may serve to correct the defect by bringing out a series of finer shadows, and so re-establish the line of the moulding in a different manner.

There is also a psychological effect of much importance that requires careful consideration. It is a natural demand—often an unconscious demand—to see and visually grasp the sense of the design. If the treatment depends for its expression on a clear perception of fine detail—such as is shown, for instance, in Fig. 7, the eye will naturally feel the need of sufficient light to enable it to readily see each item going to make up the composition, and if this need is not met there results a sense of unbalance that demands attention and arouses a conscious effort incompatible with the feeling of repose characteristic of the sense of beauty.

(Continued on page 140.)

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THE problem of selecting the best site and scheme for the contemplated New York County Court House is one presenting difficulties which appear in every way commensurate with its importance. But while there may be reasonable differences of opinion as to what might be termed "the correct solution," it is gratifying to observe public opinion in general fast approaching a point where there will be no advocates of the use of City Hall Park or any part of it to provide a site for future buildings. After the subject has received careful study it seems to be conceded that the parks of this city are intended for use of all the people and not for the enjoyment, convenience or profit of special or class interests. The fact that during the hearing held to consider this matter and throughout the discussion which has followed, practically the only champions of the plan to invade the park belonging to the special interests to be served, if any, cannot have failed to attract notice. The further fact that these advocates were neither numerous, nor conspicuous for their broad knowledge of the many questions and considerations involved was equally noticeable. On the other hand the further invasion and spoliation of this beautiful park has been opposed by the New York Chapter of the American Institute of Architects, every civic organization, every art society, every body of men and the majority of individuals whose training and experience qualify them to speak intelligently on the subject, and whose only possible interest is the preservation of the city's beautiful parks and buildings and a proper provision for present and future civic development. Under these circumstances we are prob-

ably safe in assuming that the new building will be located elsewhere than in the park, and the problem of selecting the wisest plan based on utilizing contiguous property is the one which now confronts us. If sufficient time is given for study and full opportunity is allowed for the presentation and consideration of every meritorious suggestion, we feel confident the plan that gains final approval will be one providing for an ultimate group of buildings and environment in keeping with the dignity and importance of the metropolis of the Western Hemisphere.

THAT greater attention than was formerly accorded is now being bestowed by many architects in this country upon the subject of specification writing is evident to anyone occupying a position in which he has occasion to scrutinize the instruments emanating from a number of architects' offices. The old-time indefinite forms have now practically passed. It is no longer common to find a girder or beam specified "of sufficient strength to carry the load," and such phrases as "the material furnished shall be good and sufficient and of a character to meet the approval of the architect" are not of frequent occurrence in modern specifications. They have been eliminated as not sufficiently definite to insure satisfactory results under present conditions. In fact, specifications are fast becoming specific, and the commendable tendency to call for certain materials, devices or equipment by name is marked. To our minds this is in the nature of a distinct advance in the art of building. When an architect has, from experiment, investigation or experience, become convinced that a certain material or equipment is superior to others for a certain position or use, it appears utterly puerile to resort to a statement of the results anticipated, or to go into a long general description of the thing required, or even to call for the desired article "or equal approved." It is simply inviting annoyance and trouble that could be avoided, to the undoubted advantage of both client and architect.

AMONG the many evidences that are to be noted, pointing to a revival of interest and activity in the architectural development of cities located in the Southern States, we call attention to the forthcoming exhibition to be held in Atlanta, Ga., from May 2 to May 11, under the joint auspices of the local chapter of The American Institute of Architects and a newly organized Architectural Arts League. It is proposed to make the exhibition sufficiently broad in character to include not only architectural subjects but also exhibits belonging to the principal arts allied with architecture. That the project will result in much good in any case there can be no question, and the only thing necessary to make it an epoch-marking event in the architectural development of the South is the full and hearty co-operation of the architects not only in the South but throughout the country. In the interest of good architecture and art in general we bespeak this co-operation. Mr. A. Ten Eyck Brown is Chairman of the Exhibition Committee.

(Continued from page 138.)

On the other hand the overlighting of a simple interior is quite as disturbing as the underlighting of an elaborate interior, assuming the general tone to be the same in both cases. Thus in Fig. 7 and in Fig. 9 we have two interiors of light tint. In Fig. 9 there is a slightly deeper tone due to the darker furniture and floor and the colored wall decoration. But in this interior we have an example of exceedingly simple ornamentation that requires but a low general intensity of illumination to adequately set it off. The fireplace with its flanking windows constitutes the principle decorative feature of the composition and here we require a slight accent accomplished by the candelabra so shaded as not to blind the eye of the beholder. The walls being

In Fig. 10, which shows an interior in the same period as that shown in Fig. 9, but much more elaborate, we find wall brackets attached to the fluted pilasters. Perhaps some modified form might have been given to these members so that the fixtures would have a more permanent appearance. In this example the proportions are such that the ceiling can be given a decorative treatment sufficiently heavy to warrant the use of the large chandelier, which forms the principal light source and around which the entire composition centers. The light from this fixture is directed largely upward so that the ceiling forms a secondary source that maintains proper shadow relations in the carved caps and cornice. Otherwise these shadows would be entirely upset by the light from the wall brackets. The delicacy of the detail



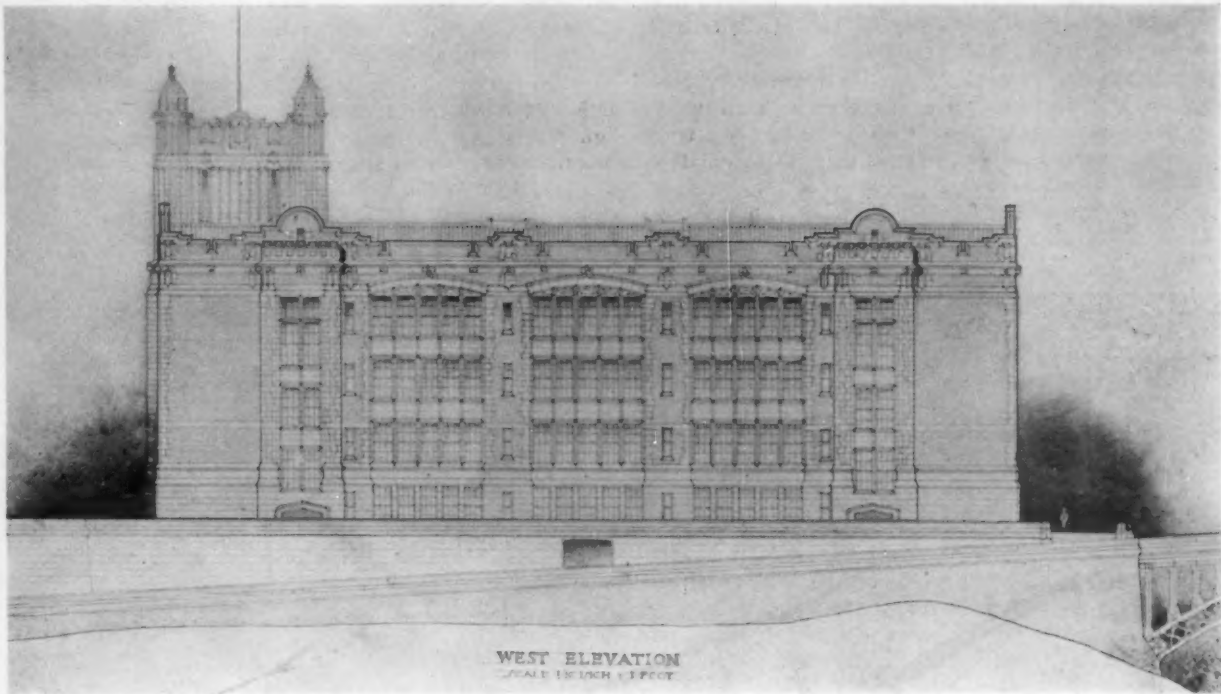
FIG. 9. A GEORGIAN INTERIOR

treated with flat colored decorations, do not require the fine shadow effects demanded in the case of Fig. 7. Furthermore, the coloring of the wall paper has been so selected that it will take its proper place in the design without the necessity of introducing an illumination too bright for the ornamental features of the cornice and simple window casements. Notice also the form of the corner mould where the planes of the wall and ceiling intersect. It is designed to impress itself on the beholder in spite of the diffusion of the general illumination. No ceiling fixture of chandelier breaks the unity of the design by attachment to the plane ceiling surface which could not be treated to receive such a fixture without outweighing the rest of the interior. Since there are no suitable features to which side wall brackets can be attached none have been used. The light is obtained entirely from free-standing devices.

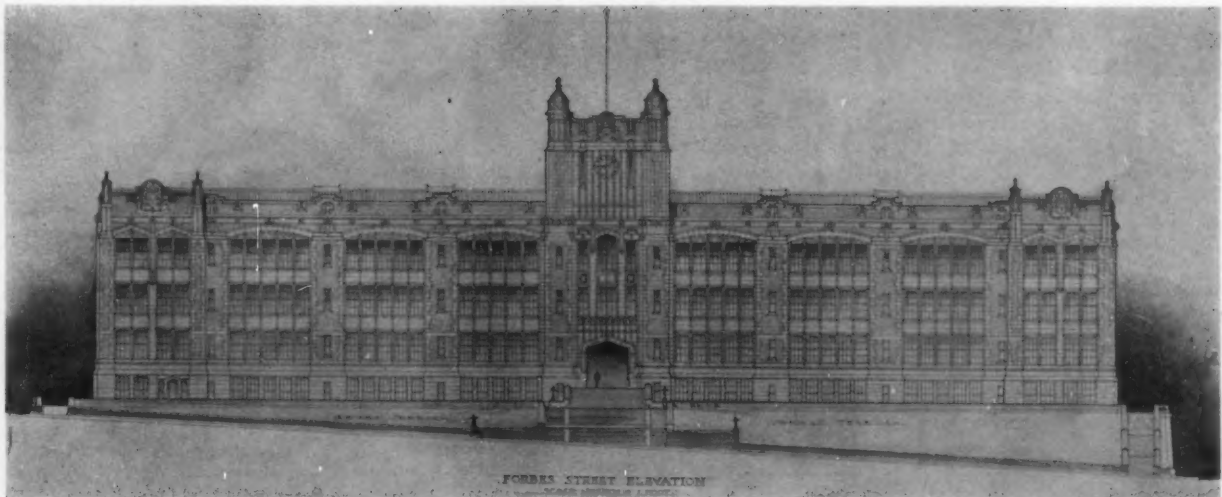
is such as to require a fairly high degree of light intensity, yet at the same time the tone of the design is soft and quiet and should not be over lighted.

It might seem that the darker the tone of the room the more light would be required, but as a matter of fact it is generally quite the reverse. Dark interiors are usually restful in treatment and are, or should be, employed for purposes where a great flood of light is needed. In such cases ornament is probably bold in execution so as to contrast itself with dark massed shadows, or else is omitted altogether, leaving the expression of beauty to a clear marking of proportions by massed light and shade.

Perhaps we can sum up our subject by saying that an interior is properly designed when it can be lighted in such a way that it may be fully appreciated and still perfectly fulfill its intended purpose.



WEST ELEVATION

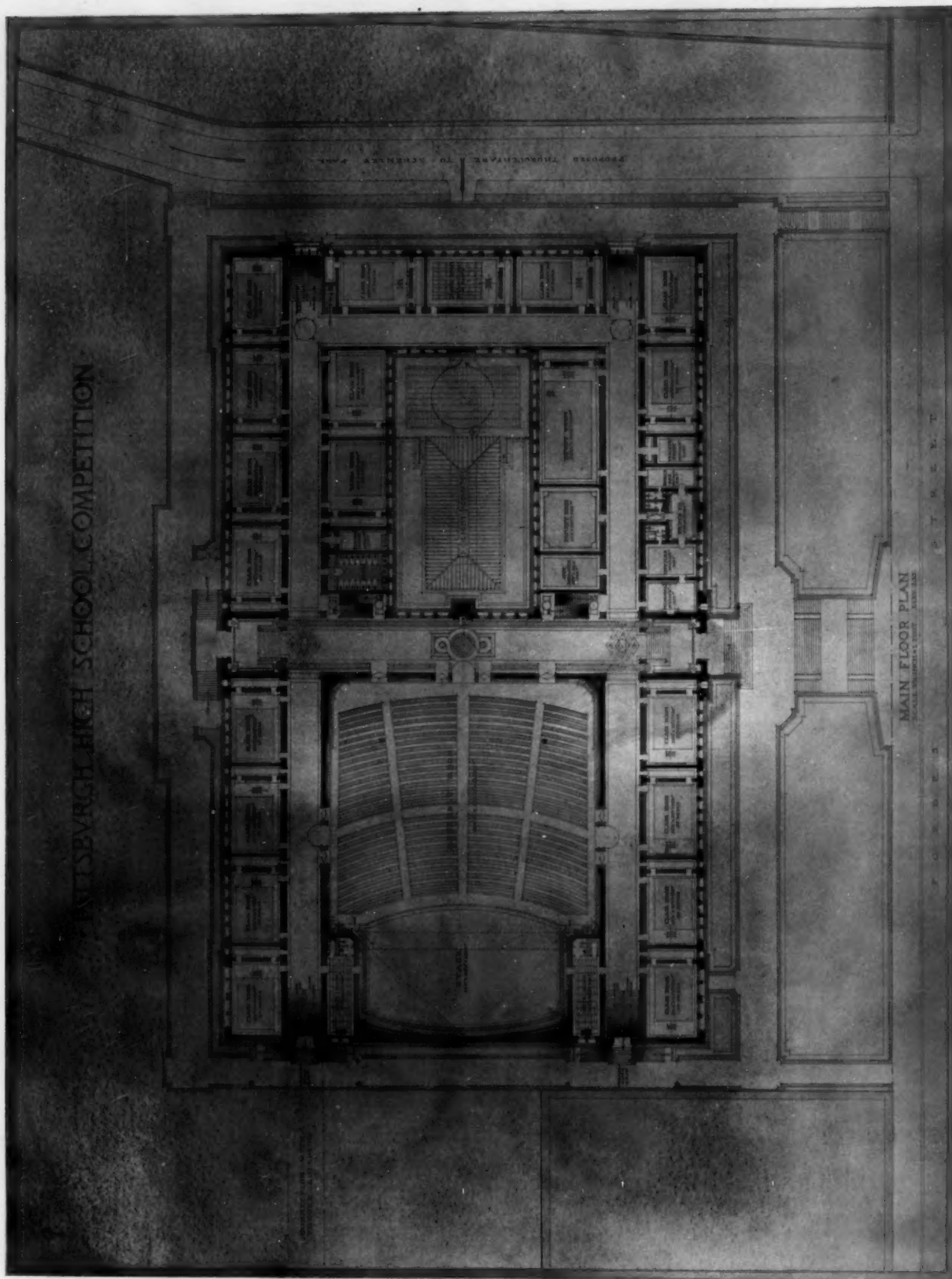


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MAIN FLOOR PLAN

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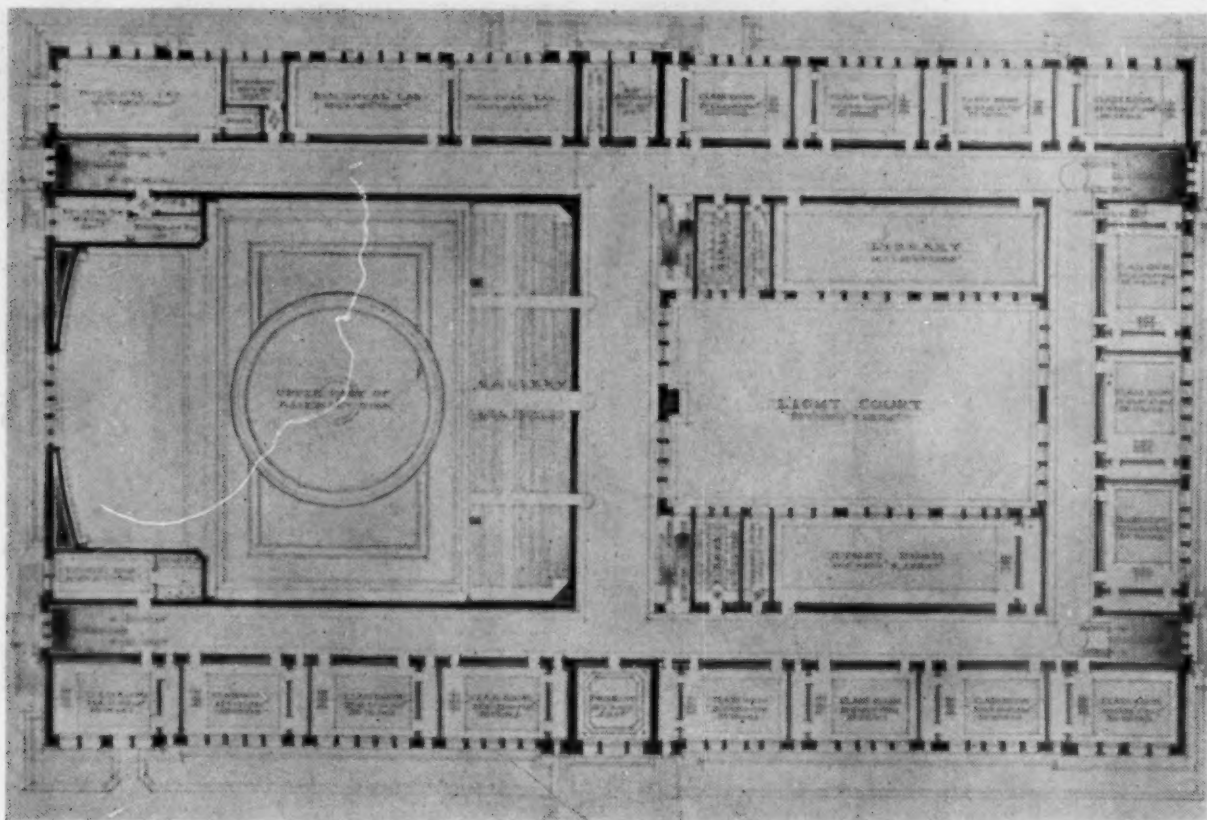
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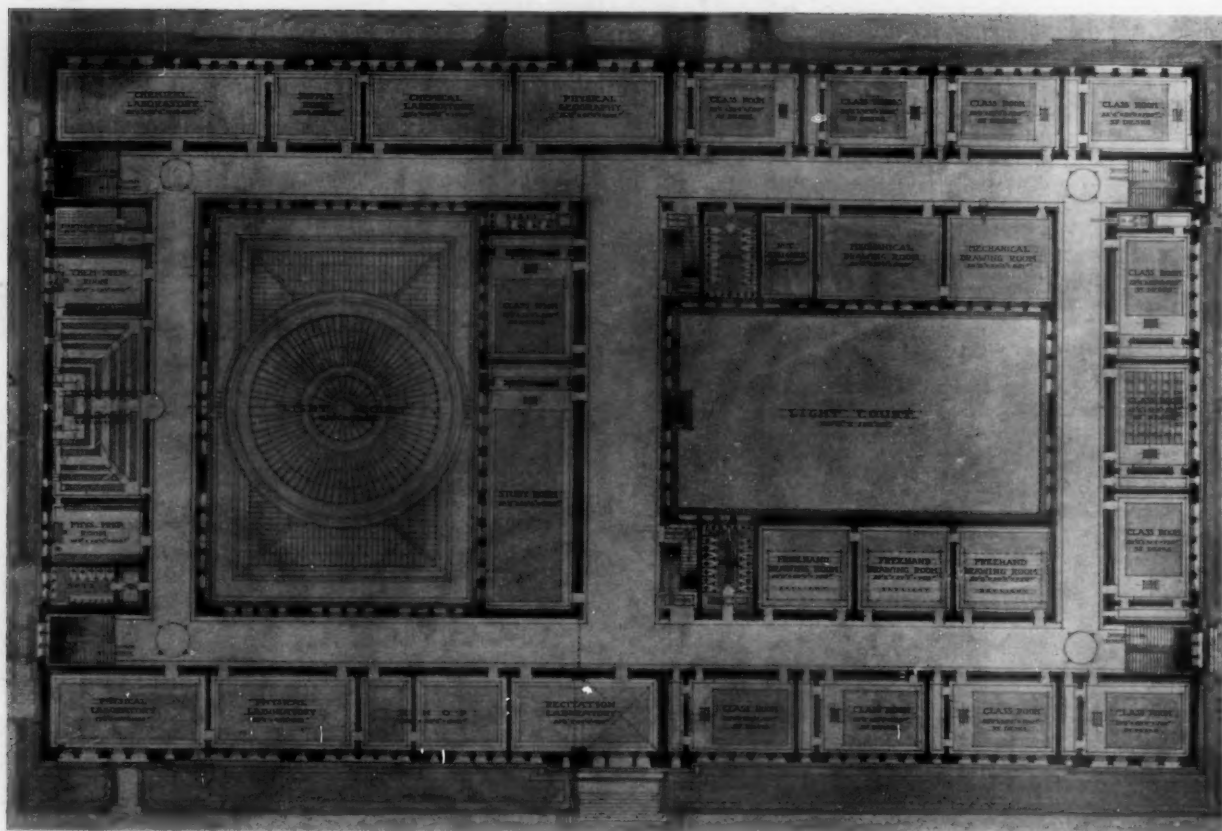
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FIRST PRIZE DESIGNS PITTSBURGH HIGH SCHOOL COMPETITION

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THIRD FLOOR PLAN

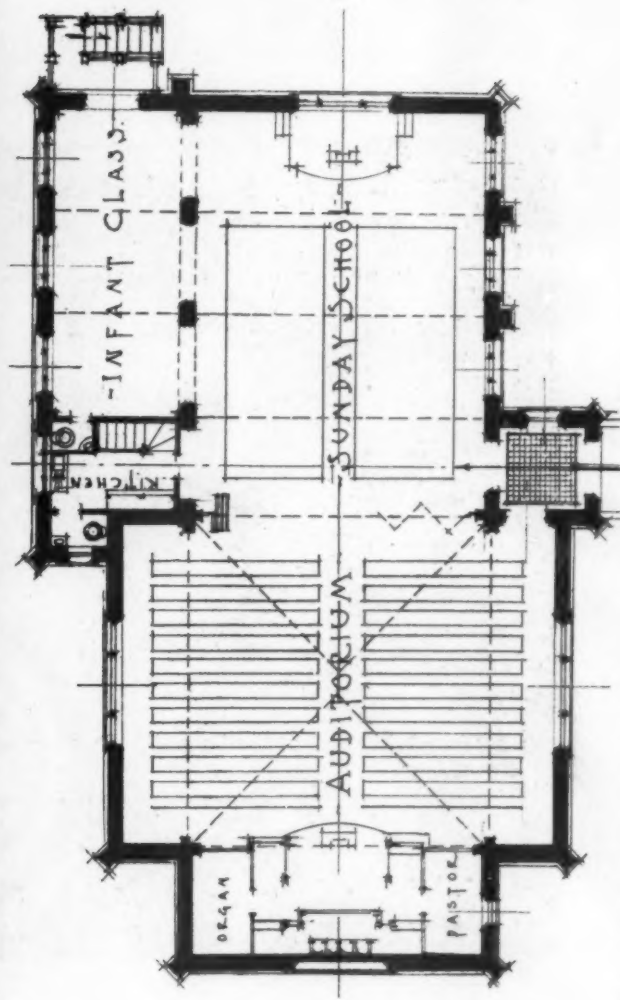
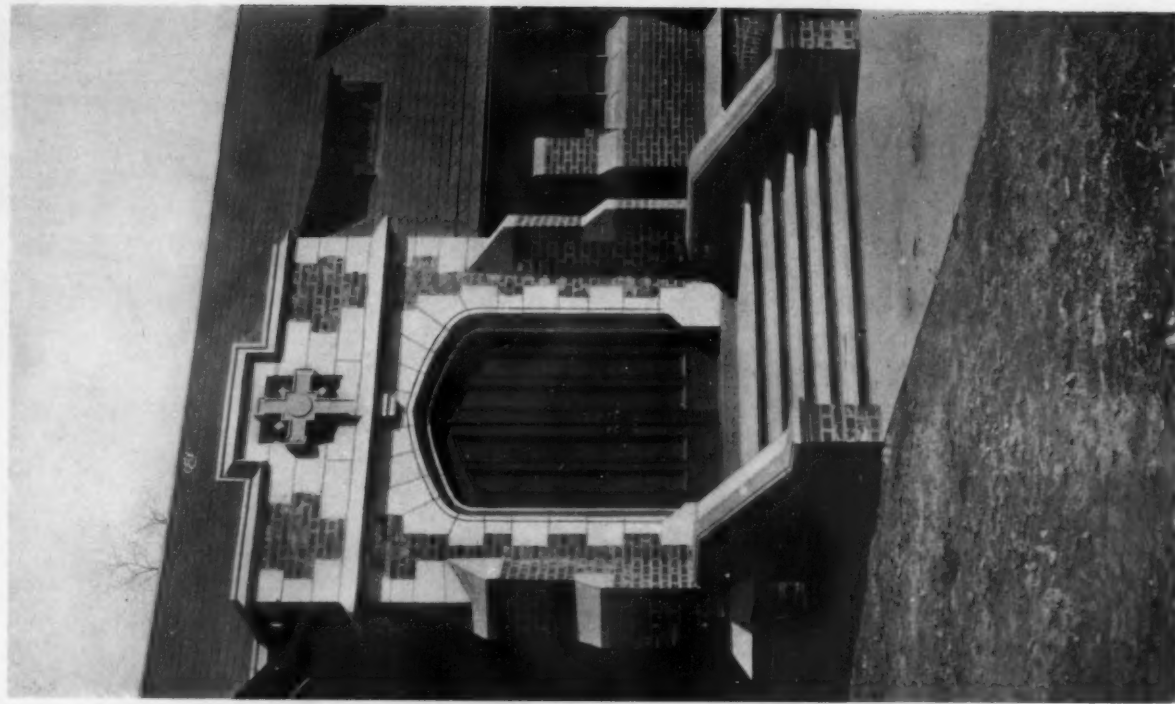


SECOND FLOOR PLAN

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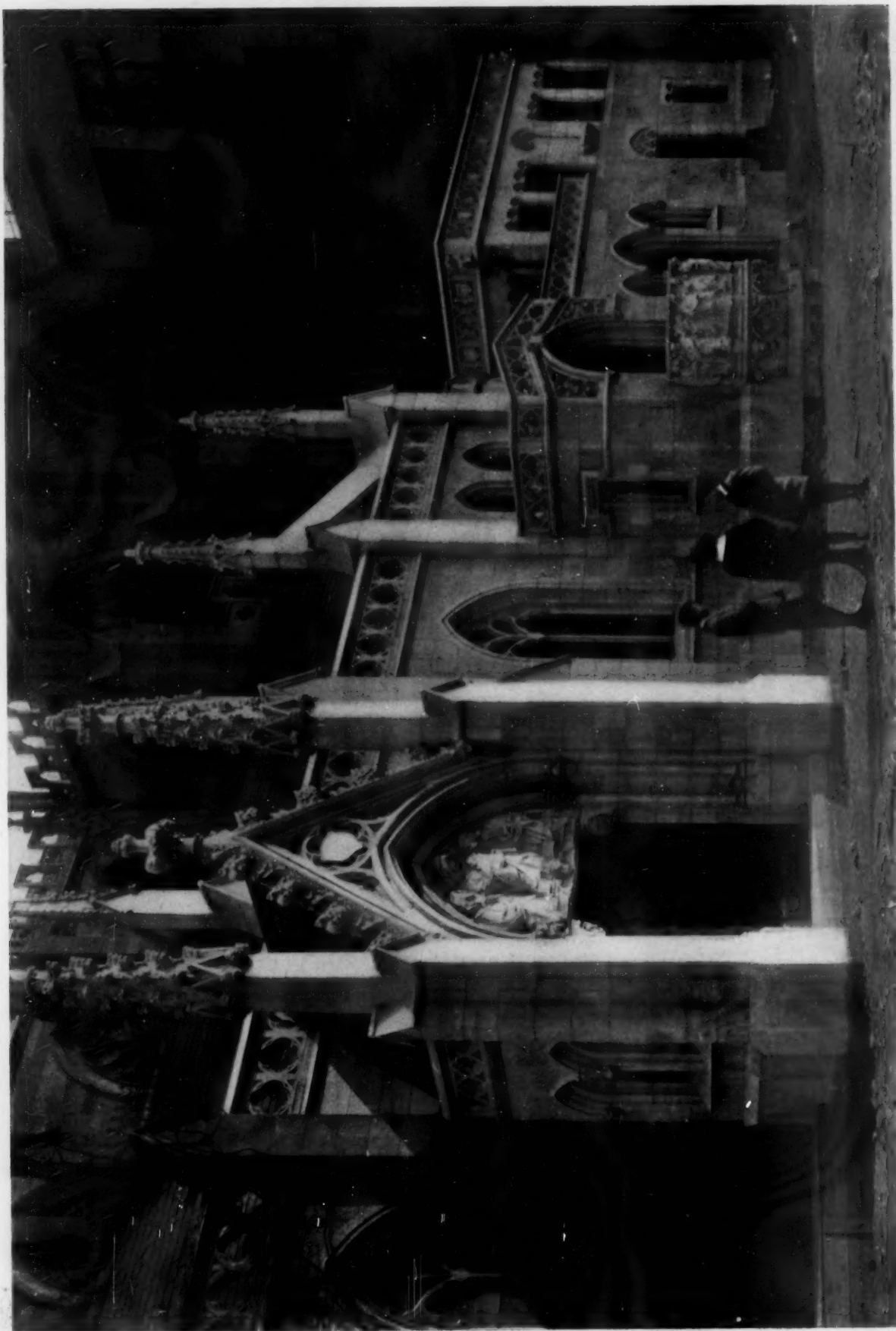
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COLLEGIATE REFORMED PROTESTANT DUTCH CHURCH
181ST STREET AND FORT WASHINGTON AVENUE, NEW YORK CITY

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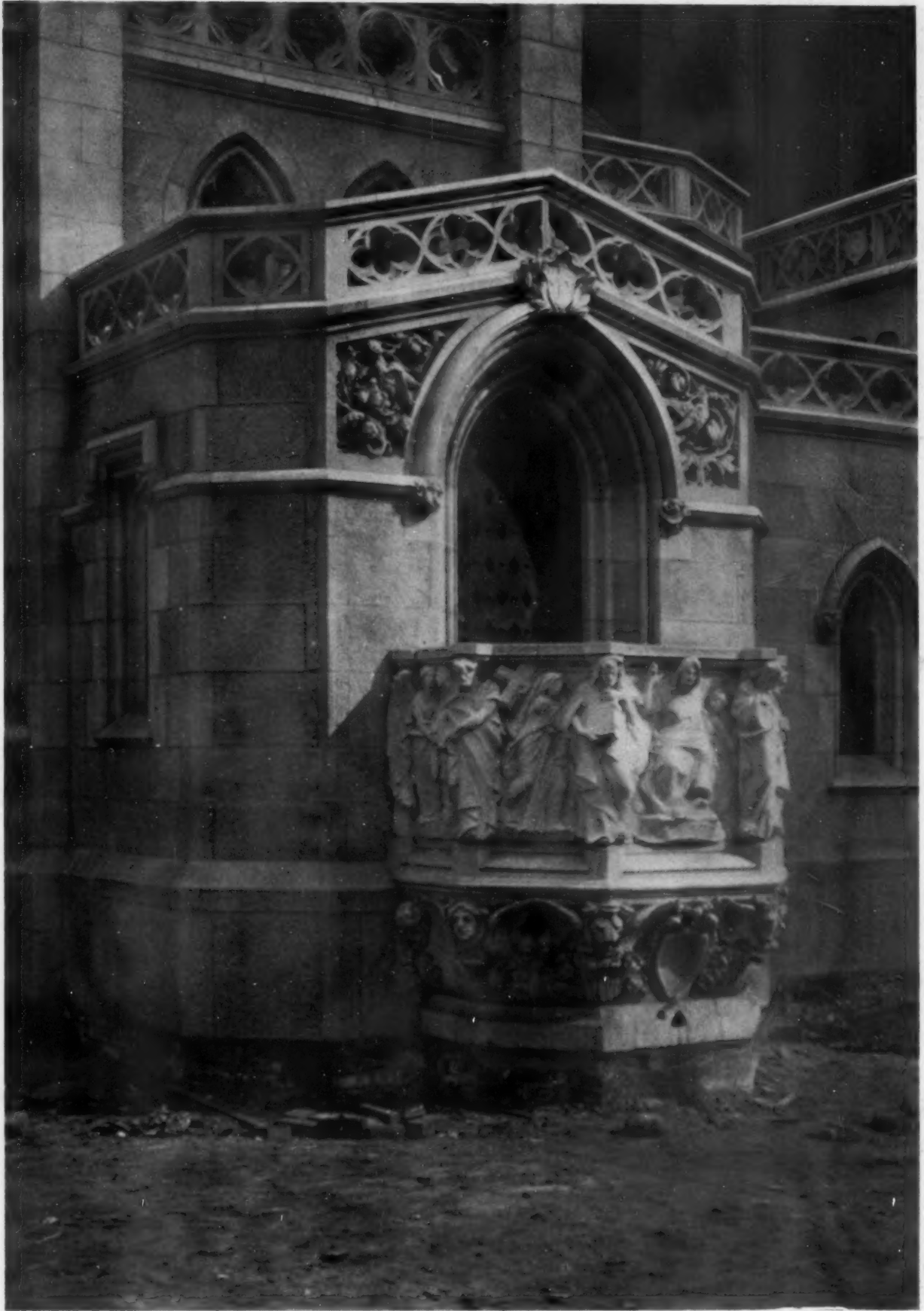
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OPEN-AIR PULPIT
GRACE CHURCH, NEW YORK

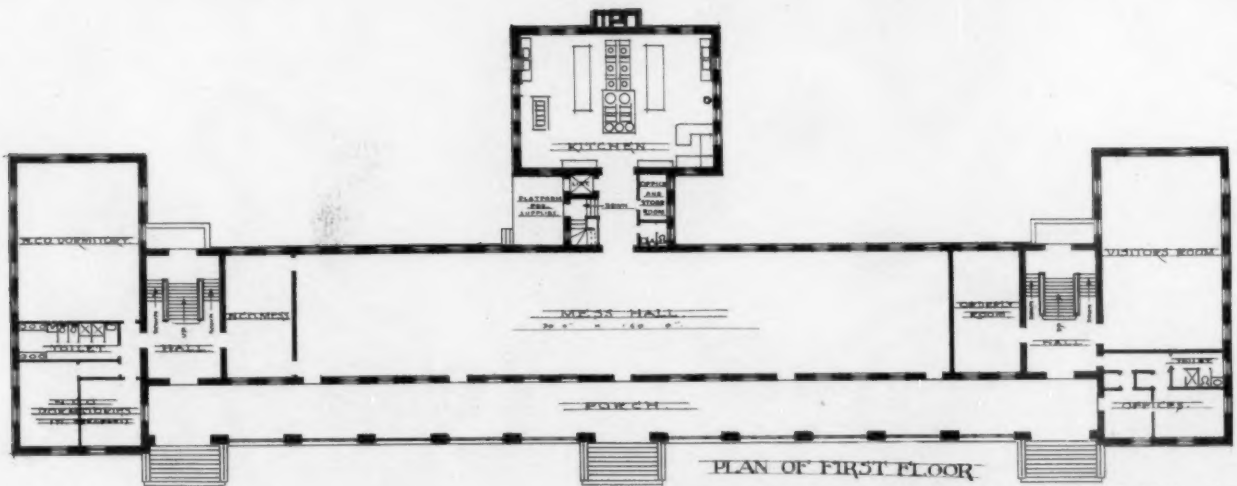
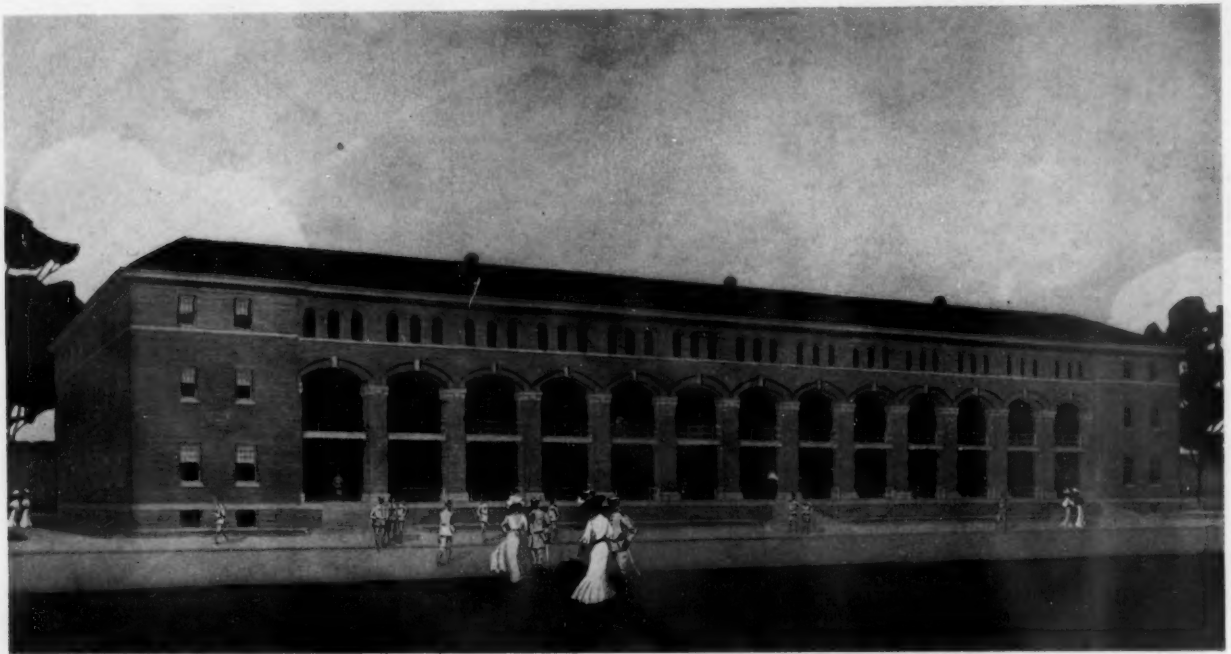
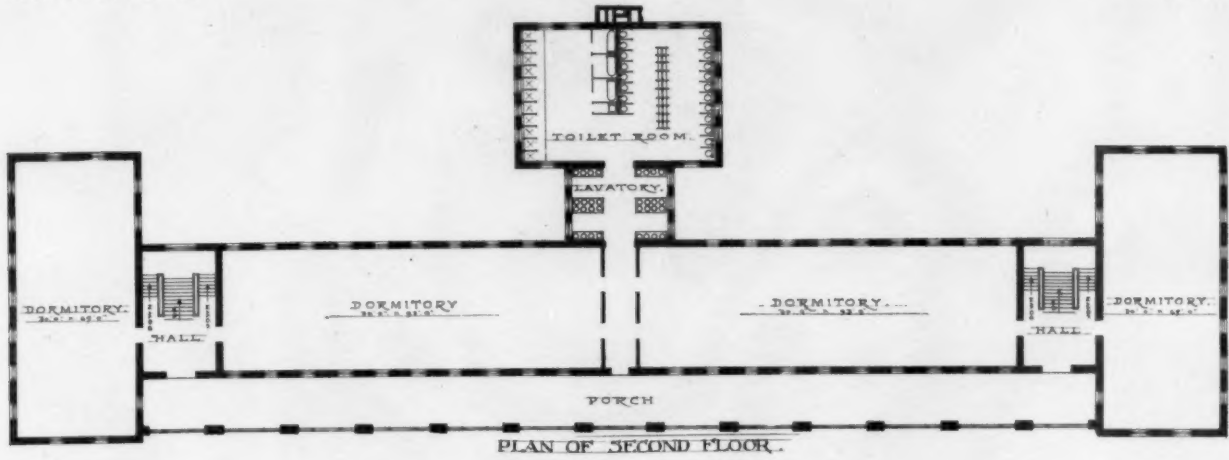
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WILLIAM W. RENWICK
ARCHITECT



OPEN-AIR PULPIT
GRACE CHURCH, NEW YORK

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ARCHITECT



BARRACKS FOR U. S. MARINE CORPS
PHILADELPHIA NAVY YARD

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RANKIN, KELLOGG & CRANE
ARCHITECTS

CURRENT NEWS

PERSONAL

The Vulcanite Portland Cement Co. has moved to new offices in the Fifth Avenue Building, Madison Square, New York.

Mr. William V. K. Shepard, architect, announces his removal from the Keyser Building, 207 E. German street, Baltimore, Md., to 6700 North 6th street, Philadelphia, Pa.

We are advised that the Eisentraut Co., architects and engineers, have removed from Kansas City, Mo., to Deadwood, S. D., where they will engage in practice along their usual lines.

It is stated in the current press, that the firm of Somerville & Cote, architects, of Seattle, Washington, has been dissolved by mutual agreement.

The present offices of the firm in the White building will be retained by W. F. Sommerville, and Mr. J. S. Cote will open new offices in the Henry building.

COMPETITIONS

The State of Virginia has, through her legislature, resolved to erect an appropriate monument on the battlefield of Gettysburg in commemoration of the Virginia troops who participated in the engagement of the 1st, 2d, and 3d of July, 1863; and by authority duly conferred, a Commission has been appointed by the Governor of the State to select and recommend a design for said memorial. The Commission has reached the conclusion that Spangler Woods, the point from which General Lee observed the famed charge upon Cemetery Ridge, is a proper site for a monument to the Virginia troops, and they hereby invite artists, sculptors and architects to submit models for such monument in accordance with the following suggestions:

It is the determination of the Virginia Commission that this memorial shall be a record of all the Virginia troops engaged in the battles at Gettysburg, and it is desired that the design shall be of a form to accomplish this paramount purpose. The Commission requests plans for a monument surmounted by an equestrian figure of General Robert E. Lee, and plans without such equestrian figure, but effective in achieving the object of the intended tribute. The minimum height of figure and pedestal, drawing or model, must not be less than 24 inches. The names of the designers of the models must not be affixed to the designs, but some device or cipher must be used, a duplicate of which, bearing the name of the artist, must be forwarded in sealed envelope to the Governor of Virginia, as chairman of Virginia Commission, to be opened only after the award is made. The design must embody both pedestal and figure, and estimates must include foundation and inscription. In case of drawings alone being submitted, both figure and pedestal will

be required, and in the event of the acceptance of a model, it must be presented in the round for the consideration of the Commission. The cost of the monument must be within the sum of fifty thousand dollars. All designs must reach the Governor in Richmond on or before the 18th day of January, 1910.

The Commission reserves the right to reject all models if none are satisfactory.

BOOK NOTES

SIGN PAINTING. By Frank H. Atkinson, 372 pp.; 9½ x 12½; full cloth. Chicago: Frederick J. Drake & Co.

A sign can make or mar the façade of a building. It can be so designed and placed as to lend a point of color and form to an otherwise monotonous expanse, or it may be so bad as to ruin an attractive exterior. As the architect is seldom consulted in this matter, and must needs submit to the rights of the owner to make and place his signs as he sees fit, perhaps this book will not be of vital interest to him. Yet, it offers suggestive ideas that may be of some value. It is perhaps more useful outside of the field of the practical sign painter, to the map maker who may find among the seventy-five alphabets shown suggestions of value.

SIMPLIFIED MECHANICAL PERSPECTIVE. By Frank Forrest Frederick. 54 pp.; 7 x 10 inches; full cloth; price .75c. Peoria, Ill.: The Manual Art Press.

While this work is primarily a textbook for use in schools and colleges, it presents the results learned as to the most practical way to impart information on the subject after twenty years' experience as an instructor.

The method employed in presenting the subject differs in a way from the usual manner in teaching. The work will be found useful to the student as supplementing ideas already formed.

INDUSTRIAL

ECONOMY IN HEATING

"From overfed to underfed" is the title of a pamphlet issued by the Peck Williamson Heating & Ventilating Co., of Cincinnati, O., descriptive of the line of furnaces made by them.

The manufacturer of heating apparatus always has the ignorance or carelessness of the user to combat, and, in the designing of a furnace, must provide every device that will make the care of the furnace as simple as possible. It requires long practice and the skill thereby attained to produce a locomotive fireman who can properly care for the fire, maintain an even pressure of steam and do this with economy and certainty.

Yet, in our houses, we turn the care of the furnace over to servants, who, with characteristic ignorance, associate greatest heat with greatest coal consumption,

and hence overfeed the furnace, or else with ideas of economy, seldom present, underfeed it.

To provide a furnace that will give a maximum of heat with a minimum of fuel and be as nearly proof against the manipulations of the inexpert as possible has been the object of the Peck Williamson Co.

Just how this is accomplished is entertainingly set forth in the pamphlet above referred to, which can be had on application.

SECTIONAL BOILERS

Boilers built on a system that will admit expansion by the addition of units, just in the same way that we provide room for our growing collection of books by adding additional sections, is one of the features claimed by the Burley Heater Co., of Tyrone, Pa., for their steam and hot water sectional boilers.

With an experience of more than twelve years in the manufacture of heating apparatus, and the successful use in buildings of every description of heaters made by them, the Burley Heater Co. claim that they are in a position to provide necessary apparatus to meet the varying requirements of the architect's buildings.

This firm solicits correspondence, and will be glad to send full information, together with illustrated descriptive pamphlets of its product.

A NEW FORM OF CLOSET SEATS AND FLUSH TANKS

Many of the objectionable features of closet seats and tanks seem to have been in a measure overcome in the line recently placed on the market by the H. W. Johns-Manville Co., New York, called "Sanitor." These seats and tanks are moulded in one piece from indurated fibre. This material is familiar in connection with fibre pails, wash tubs, water cooler tanks, etc., many of which have given satisfactory service for years.

This material is non-porous, therefore no lining is required in tanks made of it, which does away with the danger of corrosion.

Broad claims are made for this material.

By a mechanical process, the exact grain of mahogany and oak is transferred to these seats and tanks. The manufacturers are sending a sample of this material and descriptive booklet to interested parties.

PURE WATER

The subject of pure drinking water has attracted much greater attention of late years than formerly, and this fact has greatly encouraged its production. Un-aerated distilled water is now obtainable in any quantity desired, and is said to be of almost perfect purity. The Pure Water Co. of America, with offices in the Harrison Building, Philadelphia, Pa., are manufacturers of distilling apparatus, which, it is claimed, is especially adapted for use in apartment houses and public buildings. Stills are furnished in various sizes to meet all requirements, and it is stated that the adoption of this method will result in purer, more palatable and more healthful water than can be obtained by any other means, and at a less cost. The matter seems worthy of investigation by architects who

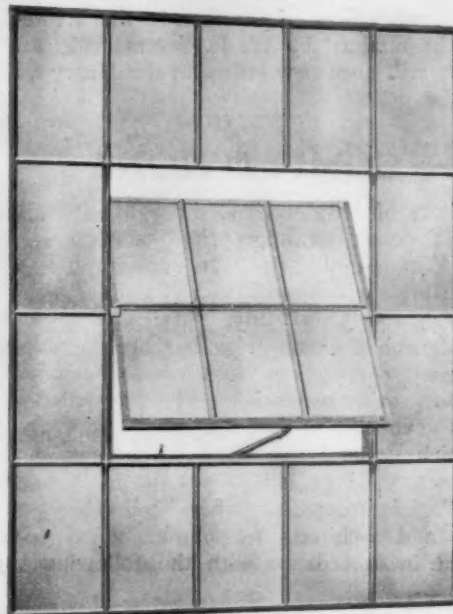
are called upon in their practice to select a means or apparatus for furnishing a supply of pure water to their buildings. Further information will be sent on application to the manufacturers.

STANDARD FENESTRA SASH

In large glazed surfaces, such as are common in modern well-lighted factories, garage buildings, studios and other places where both light and proper ventilation are essential features and fireproof materials of construction desirable, it has been found difficult to provide a proper and satisfactory sash. The large sections necessary to give structural strength to the usual wooden sash have cut down very appreciably the volume of light, and especially is this the case where, in order to effect ventilation, movable panes or sections of panes are introduced.

The Detroit Steel Products Co., of Detroit, Mich., appear to have gone far toward a satisfactory solution of this difficulty.

The accompanying illustration shows a twenty-pane sash with one part of six panes to open.



For this form of steel sash many advantages are claimed. The sash are rolled from solid section, insuring rigidity and strength. On account of this strength it is possible to use sections that admit of 25 per cent. more light being delivered through a given opening than is usual with wooden sections.

In the use of "Fenestra" in factory and garage construction the Detroit Steel Products Co. further claim that by making a sash that requires no frame, sash-weights or heavy mullions, the cost of each sash is reduced to a minimum.

While the illustration herewith is more particularly of a type for factory, garage or mill construction, the Detroit Steel Products Co. manufacture Fenestra sash for every sort of requirement and will be pleased to forward on request pamphlets illustrating and describing their very thorough line.



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Waterproof Brick Stains, Conserve Wood Preservative

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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.

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Such Prominent Structures

as the McAdoo Terminal and Hotel Astor, of New York City, Philadelphia Wanamaker Store, Seelbach Hotel of Louisville, and hundreds of other representative buildings throughout the country have their steel work protected with Dixon's Silica-Graphite Paint. Very good company, don't you think?

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SCOTT'S EXTRA COATED TIN ROOFING

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stands *first* in the estimation of the best architects and builders because it's made to last as long as the building.

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Besides, "SCOTT'S" possesses the heaviest and richest Coating—"EXTRA COATED!" Our Booklet "J" free on request.

FOLLANSBEE BROTHERS COMPANY, PITTSBURG, PA.

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BUILDING NEWS

To be of value this matter must be printed in the number immediately following its receipt, which makes it impossible for us to verify it all. Our sources of information are believed to be reliable, but we cannot guarantee the correctness of all items. Parties in charge of proposed work are requested to send us information concerning it as early as possible; also corrections of any errors discovered.

ALABAMA

BIRMINGHAM.—St. John's Methodist Church is considering erection of \$50,000 edifice. Rev. G. E. Boyd, Pastor.

BIRMINGHAM.—Board of Revenue has decided to erect \$50,000 addition to court house.

BREWTON.—Louisville & Nashville Railroad will erect \$10,000 station in this city.

CITRONELLE.—Local Catholics are considering erection of edifice.

DOTHAN.—Commercial Club is interested in erection of \$100,000 yarn and hosiery mill.

CALIFORNIA

FAIRFIELD.—Board of Supervisors has appointed W. A. Jones, of Vallejo, and E. C. Hemm, of Sacramento, as architects to perfect plans and specifications for the proposed new court house and to superintend work of constructing building.

LOS ALTOS.—School District will erect \$10,000 school house. D. T. Bateman, county superintendent.

LOS ANGELES.—Parkinson & Bergstrom, Security Bldg., have about completed plans for erection of high school building at Vermont Ave. and Fortieth St. Cost, \$245,000.

OAKLAND.—Finance Committee has recommended erection of fire house on Magnolia St., and sub-police station and library building at corner of Haven and 34th Sts.

OAKLAND.—Board of Education is planning election on \$1,500,000 bonds for erection of schools.

PASADENA.—Pasadena Realty Co. is planning erection of theater at corner of Colorado and Delacey Sts.

S. B. Marston, 606 Chamber of Commerce Bldg., is preparing plans for erection of \$6,000 and a \$10,000 residence on South Madison St.

PASADENA.—F. H. Phillips, architect, has completed plans for erection of \$5,000 residence at 190 South Madison Ave.

Architect J. J. Blick is preparing plans for two-story Colonial residence to be erected in San Rafael Heights for H. I. Stuart, president of the Union National Bank.

SAN FRANCISCO.—Architect A. H. Jacobs, 20 Montgomery St., has prepared plans for erection of \$140,000 hotel at corner of Eddy and Jones Sts. for Mrs. Laura Hirshfeld.

Architects Salfeld & Kohlberg, 353 Kearny St., have prepared plans for four-story business building to be erected at corner of Second St. and Park Lane. Cost, \$50,000.

SAN FRANCISCO.—J. B. Treadwell, Los Angeles, will erect five-story, \$70,000 hotel at Hyde and Bush Sts. T. Patterson and A. W. Burgren, 222 Kearny St., architects.

Architect W. G. Hind, Humboldt Bank Bldg., has completed plans for erection of \$35,000 apartment house on Geary St.

SUISUN.—Southern Pacific Railway Co. will erect \$8,000 depot in this city. W. A. Whitney, Superintendent Western Division.

VALLEJO.—The Vallejo Trades and Labor Council and various Unions of this city have taken preliminary steps for the erection in Vallejo of a labor temple to cost \$12,000 to \$14,000.

CONNECTICUT

BRIDGEPORT.—Mrs. Ida Parmly, 1093 Park Ave., will erect large residence at corner of Brooklawn Ave. and Wade St.

Mrs. Frank Miller, 355 Seaview Ave., will erect residence at corner of Brooklawn and Arlington Aves.

Architect Arthur S. Meloy has been commissioned to draw plans for erection of 15 apartment houses on Butler St. for Philip Stein.

NAUGATUCK.—Borough has decided to erect \$23,000 fire house on Maple St. J. F. Beardsley, Borough Clerk.

NEW HAVEN.—Board of Governors of New Haven Hospital announce that \$300,000 has been given institution to be used in erection of buildings for tuberculosis cases.

DISTRICT OF COLUMBIA

WASHINGTON.—Army and Navy Club is considering erection of club house at Seventeenth and I Sts. \$350,000 will be expended.

Major Sylvester, superintendent of police, has recommended erection of station houses for First and Harbor Precincts.

WASHINGTON.—Chevy Chase Club has adopted plans for enlargement of club house.

FLORIDA

DeLAND.—C. Codrington has had plans prepared for erection of business and opera house block at corner of Boulevard and Richmond Ave.

JACKSONVILLE.—Morocco Temple Association will erect \$50,000 temple at corner of Monroe and Newman Sts. T. G. Hutchinson, president.

TAMPA.—State Railroad Commission has passed order requiring railroads entering city to construct modern terminal station according to plans to be approved by Commission.

ILLINOIS

ABINGDON.—American Sanitary Manufacturing Co., Detroit, will erect factory in this city at once.

CHICAGO.—The Crane Co. has purchased site on South Canal St. for erection in near future of \$1,000,000 addition to plant.

JACKSONVILLE.—Burned section of Central Hospital for Insane will be rebuilt at once. Dr. Carvel, superintendent.

PECRIA.—Architect R. T. Newberry has been instructed to prepare plans for erection of sixteen-story building at Main and Jefferson Sts. for First Trust & Safe Deposit Company.

INDIANA

EVANSVILLE.—Pullman Motor Car Co., York, Pa., will erect proposed plant in this city. Erection of motorboat factory is being considered.

GREENFIELD.—Board of Education will erect another school next summer.

NEWCASTLE.—School Board has purchased site at Ninth and West Broad Sts. for erection of building.

PLYMOUTH.—Bids will be received about Feb. 1 by W. A. Dayton, Fort Wayne, secretary Plymouth Sanitarium and Hospital, for erection of \$25,000 hospital in this city. Ralph M. Snyder, 1217 Wilt St., Ft. Wayne, architect.

TERRE HAUTE.—Terre Haute, Indianapolis & Eastern Traction Co. has secured site at Eighth and Cherry Sts. for terminal.

IOWA

DAVENPORT.—Northwest Presbyterians are considering erection of edifice. Rev. Anderson is interested.

DAVENPORT.—U. N. Roberts Co. will at once rebuild plant destroyed by fire.

Davenport Locomotive Works will expend \$250,000 in improvements to plant on Rockingham Road. Plans for new buildings have been prepared.

DUBUQUE.—Carr, Ryder, Adams & Co. will at once erect five-story \$100,000 sash and door factory.

OTTUMWA.—Wapello Club has decided to erect \$40,000 club house.

KANSAS

DODGE CITY.—Christian Church congregation will rebuild edifice destroyed by fire.

ELLSWORTH.—Frisco Railroad will at once erect depot in this city; also round house.

HUTCHINSON.—Y. M. C. A. has purchased site on First Ave. for erection of proposed building.

Residents of Haven School District are planning to erect \$20,000 building. S. P. Roland, County Superintendent.

LYONS.—Plans and specifications for proposed Carnegie library will be completed in near future. Work on building will begin as soon as possible.

MANHATTAN.—State Agricultural College will at once erect \$100,000 gymnasium.

TURON.—Town will vote on \$15,000 bonds for erection of school house.

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SAN FRANCISCO, CAL. E. 11TH ST. & 3RD AVE. OAKLAND.

BOSTON, MASS. 232 SUMMER ST.
PORTLAND, ORE. 40 FIRST ST.
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Washington, D. C.

Wood, Donn & Deming,
Architects

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China lavatories for this building are being made by us.

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TRENTON, N. J.

Manufacturers of Plumbing Goods exclusively

KENTUCKY

LEXINGTON.—Consumers Ice & Cold Storage Co., city, will at once commence work on improvements to their plant necessitating \$30,000 expenditure.

LOUISVILLE.—Colored Episcopal Church of Our Merciful Saviour, Eleventh and Walnut Sts., is planning erection of parish house. Rev. Leroy Ferguson, pastor.

LOUISIANA

BATON ROUGE.—First National and People's Trust and Savings Bank will erect \$40,000 bank building.

NEW ORLEANS.—Plans have been prepared for erection of proposed Webster school on Dryades St.

MARYLAND

BALTIMORE.—Taxicab Co., 413 North Howard St., will rebuild building destroyed by fire. H. M. Little, manager.

Architect C. M. Anderson, 324 N. Charles St., has prepared plans for erection of four-story structure at corner of Eutaw and Franklin Sts.

Plans are being prepared by Architects Elliott and Emmart, Union Trust Bldg., for erection of \$25,000 library at Forest Park.

Architect C. M. Anderson, 324 N. Charles St., has completed plans for erection of 10-story \$275,000 apartment house for Ex-Governor Frank Brown.

Sterling Realty Co. will erect seven 2-story brick dwellings on Pulaski St. J. F. Gerwig, 210 E. Lexington St., architect.

BALTIMORE.—Paradise Amusement Co., 2841 North Calvert St., has purchased site on North Ave. on which to erect moving picture theater. Eugene Cook, President.

RISEING SUN.—Cecil Farmers' Club has passed resolutions asking the Legislature to favor a bill to enlarge or rebuild the Cecil County Architectural School at Calvert.

MASSACHUSETTS

AMESBURY.—Powow River National Bank and Provident Institution for Savings are considering enlargement of quarters. New bank building, to house both banks, may be erected.

BOSTON.—Gordon Bros. Amusement Co. will erect large theatre at corner of Tremont and Berkeley Sts. Plans have been prepared.

Plans have been prepared for erection of proposed East Boston court house and police station in Central Sq. Park.

BEVERLY.—Council has decided to erect \$85,000 school in Washington District.

FALL RIVER.—Board of Aldermen has adopted ordinance authorizing Mayor to obtain permission to float \$400,000 loan for school purposes.

HOLYOKE.—Plans have been completed by Architects Reid and Skinner for a new building for Hampton Co. in Easthampton.

LEOMINSTER.—Town is considering rebuilding of town hall destroyed by fire.

LOWELL.—American Hide and Leather Co. is considering erection of \$100,000 beam house in this city. C. P. Hall, fourth vice-president, is interested.

MALDEN.—Committee of Tubercular Investigation of Board of Aldermen has recommended appropriation of \$15,000 for building tuberculosis hospital. Alderman Charles M. Blodgett, chairman.

PLYMOUTH.—Government has secured site at Leyden and Main Sts. for erection of post-office.

SAUGUS.—United States Worsted Co. will erect number of mill houses early next year.

MINNESOTA

DULUTH.—Citizens have voted to issue \$200,000 bonds for school buildings.

Architect Austin Terryberry, Palladio Bldg., has completed plans for erection of edifice at Twenty-second Ave. West, and Third St. for First Swedish Baptist Church.

GRAND RAPIDS.—R. Root, Great Northern Hotel, is planning to erect \$35,000 hotel. Site selected.

NEW ULM.—Building Committee of the Martin Luther College will receive bids until January 11 for erecting a building. L. J. Buenger, city, can be addressed.

STILLWATER.—Bids will be received until Feb. 7, for erection of proposed prison; cost, \$2,000,000.

ST. PAUL.—Architects Reed & Stem, 60r Endicott Bldg., have prepared plans for erection of two residences at Grand and Oakland Aves. Cost, \$60,000.

West Publishing Co., West Third St., will erect addition to plant.

MISSOURI

ALTON.—City is considering erection of two fire houses; cost, \$10,000.

MARSHALL.—Bids will be received until Jan. 14 for construction of cottages at Colony for Feeble Minded. J. H. Felt & Co., Shubert Bldg., Kansas City, architects.

MONTANA

GREAT FALLS.—Bids will be asked about Jan. 15 for erection of proposed federal building. Jas. Knox Taylor, Washington, D. C., supervising architect.

NEBRASKA

HOLDREDGE.—County Supervisors are considering plans for proposed court house. Address County Clerk Hedlund.

SOUTH OMAHA.—Erection of two fire halls is being considered.

NEVADA

RENO.—Catholic Congregation will rebuild edifice destroyed by fire. Cost, \$25,000.

NEW JERSEY

CAMDEN.—Architect Chas. J. Brookes, 14 S. Broad St., Philadelphia, has prepared plans for erection of a \$75,000 building for Camden Homeopathic Hospital.

EAST ORANGE.—Architect E. V. Warren, 22 Clinton St., has prepared plans for erection of three two-family dwellings, cost \$18,000, on Rhode Island Ave.

IRVINGTON.—Robert Sellick, 222 Market St., Newark, has completed plans for erection of two frame buildings, cost, \$6,000, on Sanford Ave.

JERSEY CITY.—Jos. E. Bernstein, president Furst Co., is having plans drawn for erection of business building on Monticello Ave.

NEWARK.—Architect Nathan Myers, 238 Washington St., has prepared plans for erection of two-story addition to plant of Star Spring Bed Co. at 46 Clifton St.

Finance Committee has recommended erection of truck house near Clinton Ave.; also erection of police station.

NEWARK.—Central Railroad will erect \$16,000 station at Arlington Ave.

NEWARK.—Architect Frank Grad, 137 Springfield Ave., has completed plans for erection of \$18,000 mercantile building at corner of South Orange Ave. and Beacon St.

Architect Frederick Phelps, 15 Clinton Ave., has completed plans for erection of \$30,000 plant at 194 Wright St. for Lowell-McConnell Manufacturing Co.

NEW BRUNSWICK.—Erection of two schools, cost, \$91,000, will be considered.

TRENTON.—Inter-State Fair Association will rebuild building destroyed by fire with loss of \$45,000.

NEW YORK

BROOKLYN.—Four 3-story brick stores and dwellings (cost, \$16,000) will be erected on Mermaid Ave. for G. Alfieri, 126 Roebling St.

Jacob Voelbiel, 992 Greene Ave., will erect four-story \$25,000 factory on Greene Ave. W. B. Wills, 32 Ditmars St., architect.

Amelia Whitman, 33 North Seventh St., will erect three 1-story frame dwellings on Ocean Ave. Cost, \$10,500. Thos. Bennett, Third Ave. and Fifty-second St., architect.

Rosie Cohn, 59 Fourth Ave., New York City, will erect \$12,000 dwelling on Eighteenth St. A. J. and J. T. MacManus, 215 Montague St., architects.

BROOKLYN.—I. B. Kleinert Rubber Co., Eighteenth St., College Point, is having plans prepared for erection of large addition to factory.

Weber's Dye Works, Tenth St., will erect addition in spring.

BROOKLYN.—F. E. Buchar, 1776 Pitkin Ave., has prepared plans for erection of \$20,000 two-story brick stores and assembly room on Fulton St. for E. M. Pilzer, 438 Stone Ave.

Seven three-story brick stores and dwellings will be erected on Fifth Ave. at cost of \$28,000. J. C. Wandell Co., 502 Thirty-ninth St., architect. Shlikerman Realty & Improvement Co., 7510 Fourth Ave., owner.

INTERLOCKING RUBBER TILING



3-8 TYPE



For Quality



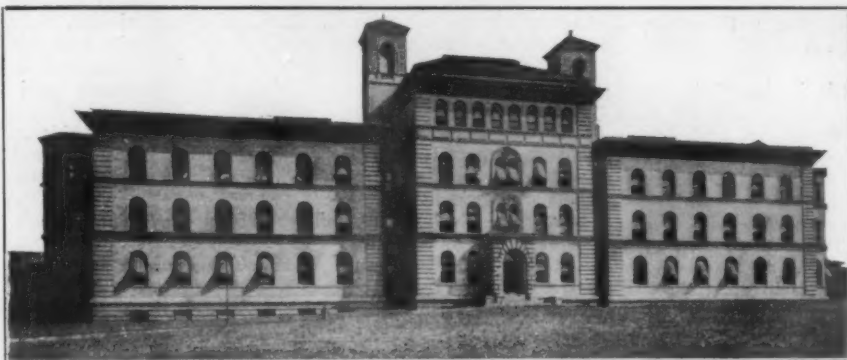
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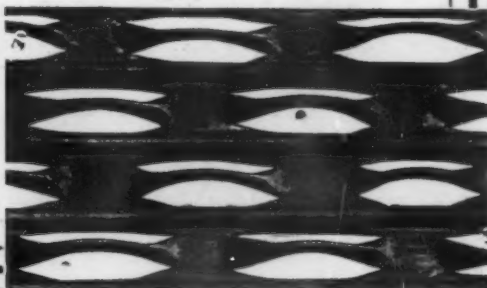
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Let us send prices and proofs of advantages before specifying metal lath again.

THE BOSTWICK STEEL LATH COMPANY

206 GIFFORD AVENUE, NILES, OHIO

Pat. September 29th, 1908



P. T. Hynes, Forty-seventh St. and Fort Hamilton Ave., will erect \$6,000 store and dwelling on Forty-sixth St. Plans prepared.

Sisters of Poor of St. Francis, Henry and Concord Sts., have filed plans for St. Anthony's Hospital, a \$500,000 structure to be located at Woodhaven, on block bounded by Woodhaven and Vanderveer Aves. and Fulton and Elm Sts.

BROOKLYN.—Gaynor Realty & Bldg. Co., 507 Hopkinson Ave., will erect \$6,000 store and dwelling on Sutter Ave.

Architect A. R. Koch, 26 Court St., has filed plans for erection of six buildings, cost \$108,000, at Carroll St. and Rogers Ave., for Jesuit Fathers.

Plans have been prepared for erection of addition to factory of Knox Hat Manufacturing Co., Grand and St. Mark's Aves. Cost, \$60,000.

BUFFALO.—Buffalo Brewing Co. will at once erect model brewery at 1533 Clinton St.

COHOES.—Delaware & Hudson Co. will rebuild Fort Wm. Henry Hotel at cost of \$250,000; also erect a \$100,000 station.

ELMIRA.—A. J. and J. H. Thalberg are planning to erect two two-family residences on Canner St. Cost, \$20,000.

LOCKPORT.—New York Central will erect passenger station in West Lockport and freight house in this city.

NEW YORK.—Emsworth Construction Co., 695 St. Nicholas Ave., will erect twelve-story apartment house on Riverside Drive. Cost, \$750,000. Plans prepared.

Architect B. W. Levitan, 20 W. 31st St., has filed plans for erection of a six-story brick apartment house on Amsterdam Ave. Cost, \$100,000.

Pocono Co., 126 Fifth Ave., will erect \$15,000 shed on Nineteenth St. R. H. Robertson & Son, 16 Fifth Ave., architect.

A. L. Davis, 258 East 138th St., will erect \$7,000 dwelling on Grand Boulevard near 175th St. Plans prepared.

Theodore Starrett & Co., 103 Park Ave., will erect twelve-story brick store and offices on Twenty-third St. Cost, \$185,000. L. C. Maurer, 1493 Broadway, architect.

NEW YORK.—E. Halligan, 120 W. 103d St., will erect a four-story warehouse on Nineteenth St. Cost, \$49,000. Wm. H. Hallock, architect.

Jacobsen & Dederson, 1339 Intervale Ave., will erect a \$6,000 dwelling on Gifford Ave. J. J. Vreeland, 2019 Jerome Ave., architect.

B. A. and G. N. Williams, Inc., will erect a three-story \$10,000 office and store dwelling on Walnut Ave. M. J. Garvin, 3397 Third Ave., architect.

Carnegie Construction Co., 608 W. 111th St., has filed plans for erection of an eight-story apartment house on 111th St. Cost, \$165,000. Mullican & Moeller, 103 Park Ave., architects.

NEW YORK.—City will erect three-story, \$45,000 pathological building on Blackwell's Island. R. F. Almirali, 51 Chambers St., architect.

Forty-eighth St. Theatre Co., 1554 Broadway, will erect two-story, \$125,000 theatre on Forty-eighth St. W. A. Swassey, 47 West Thirty-fourth St., architect.

NEW YORK.—M. Willenbeucher, Germany, will erect three-story \$20,000 hotel on Ninth Ave. Neville and Bagge, 217 W. 125th St., architects.

W. C. Bergen will erect four 2½-story brick dwellings on Loring Pl. and 183rd St. Cost, \$36,000. C. S. Clark, 445 Tremont Ave., architect.

NEW YORK.—Chas. Weigle, 180th St. and Bronx River, will erect two two-story frame dwellings on Boston Road. Cost \$6,500. Louis Falk, 2756 Third Ave., architect.

J. J. Fox, 1908 Bathgate Ave., will erect \$20,000 garage on Concourse near Burnside Ave. J. E. Kirby, 481 Fifth Ave., architect.

Architect Franz Wolfgang, 535 E. 177th St., has filed plans for erection of three two-story brick dwellings on Valentine Ave. for G. E. Schmidt Realty & Construction Co., 1924 Daly Ave. Cost \$24,000.

Chas. Forbach will erect three one-story dwellings and stores on Morris Park Ave. Cost, \$12,000. Chas. Clark, 445 Tremont Ave., architect.

SYRACUSE.—J. S. Gray, True Industrial Bldg., North State St., will erect four-story factory.

UTICA.—John A. Roberts is having plans prepared for erection of five-story apartment store.

UTICA.—Bids will be received until 5 p. m. Jan. 20 for erection and completion of brick school building. J. A. Hobbes, 38 Stewart Bldg., architect; D. Kelly, Clerk, Board of School Commissioners.

NORTH CAROLINA

RALEIGH.—Shaw University, colored, will erect hospital, power plant and an addition to chapel and lyceum in spring. Cost, \$50,000.

NORTH DAKOTA

DICKINSON.—Bids will be received until Feb. 1 by Dickinson Masonic Bldg. Association for erection of temple. M. L. McBride, secretary.

TOWER CITY.—Bids will be received until Jan. 10 for erection of high school building. Haxby & Gillespie, 64 Broadway, Fargo, architects. S. F. Sherman, clerk, School Board.

WILLISTON.—Architect R. T. Frost, 517 Victoria St., Minot, is preparing plans for \$16,000 James Memorial Library building.

OHIO

AKRON.—Architect J. A. Feichter, Akron Savings & Loan Bldg., has completed plans for rebuilding Guth block on South Howard St. Cost, \$20,000.

ALLIANCE.—Board of Education has selected Architects Richards, McCarty & Bulford, Columbus, to prepare plans for erection of \$85,000 school building.

CLEVELAND.—A company, headed by H. A. Robinson, Akron, will erect \$750,000 sewer pipe factory on Mill Creek. F. P. Construction Co. prepared plans.

Bailey Co. will erect \$80,000 modern theatre on East Ninth St.

Government will erect large warehouse at foot of Ninth St. in spring. Col. John Millis, Federal Engineer for District.

COLUMBUS.—Iroquois Hotel Co. is considering erection of hotel at High and Maple Sts.

FINDLAY.—Erection of \$15,000 school to replace Howard School is being considered.

TOLEDO.—International Harvester Co. is considering erection of building at Lafayette, Erie and Lucas Sts.

OKLAHOMA

ALTUS.—County will vote Feb. 26 on \$100,000 bonds for erection of court house and jail.

ARDMORE.—Carter County Board of Commissioners will consider plans and specifications, Jan. 7, for erection of \$115,000 concrete fireproof court house. R. R. Scivally, Chairman.

GOODWELL.—State Board of Agriculture will receive bids until Jan. 15 at State Agricultural and Mechanical College, Stillwater, for erection of \$10,000 building for Panhandle Agricultural Institute.

LAWTON.—State Board of Agriculture will receive bids at State Agricultural and Mechanical College, Stillwater, until Jan. 15 for erection of \$20,000 building for Cameron State School of Agriculture.

SHAWNEE.—Rock Island Railroad will at once rebuild repair shop destroyed by explosion.

VINITA.—Board of Insane Asylum Trustees will soon have plans ready for erection of two buildings for proposed Vinita asylum. Robert Dunlop, Newkirk, is interested.

OREGON

BAKER CITY.—Presbyterian Church is considering erection of \$20,000 edifice.

LAGRANDE.—Erection of \$75,000 school is being urged by citizens.

SALEM.—School Board is considering erection of building.

PENNSYLVANIA

CHESTER.—The Keystone Fiber Company is having plans prepared for erection of three-story building of its own in Norwood.

FRANKLIN.—Bids will be received until 2 p. m., Jan. 11 for erection of \$50,000 county jail. Charles & Bailey, Oil City, architects. E. K. Smiley, clerk, Board of County Commissioners.

HARRISBURG.—Architect A. A. Ritcher has prepared plans for erection of edifice for Harris St. United Evangelical Church.

HAZLETON.—Wm. and Arthur Deisroth will erect department store on West Broad St.

PHILADELPHIA.—Christ Church Corporation will erect \$100,000 parish house at corner of American and Church Sts.

PHILADELPHIA.—Plans have been prepared by Architect Maurice Dillon for erection of \$75,000 addition to garage at 144 N. Broad St.



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Architect
New York

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Guy King, 1513 Walnut St., is preparing plans for 14 residences at Broad and Courtland Sts. and 17 at Noble Station on the Reading Railway, for Frank D. Williams. Cost, \$150,000.

PHILADELPHIA.—City Architect Powell is preparing plans for three-story engine house to be erected on Oak Lane.

PHILADELPHIA.—Architects Stearns & Castor, Gerard Bldg., are preparing plans for erection of a \$25,000 addition to Methodist Episcopal Hospital.

Architect Geo. E. Savage, Provident Bldg., is planning erection of a church and parsonage at Fifty-third and Spruce Sts. for Bethney Presbyterian Church.

PITTSBURG.—Pittsburg Testing Laboratory will erect five-story building at corner of Seventh and Bedford Aves.

PITTSBURG.—Architect O. M. Topp, Empire Bldg., has prepared plans for erection of warehouse on Liberty Ave. for Crystal Water Co.

Architect Thos. Hannah, Kessan Bldg., has completed plans for erection of \$25,000 three-story apartment house at corner of Center and Millvale Aves.

A two-story business building has been designed by Architect S. A. Marsteller, 246 Third Ave., for E. T. Steel, 509 Rebeca St., North Side.

PITTSBURG.—Homestead Lodge B. P. O. Elks has decided to erect \$50,000 club house on Ninth Ave., Homestead. Attorney W. L. McConegly, Chairman, Building Committee.

PITTSBURG.—Bids will soon be advertised for erection of proposed 18th Regiment Armory at Bellefield. Col. A. J. Logan is interested.

J. E. Lewis, Harbison-Walker Refractories Co., will erect \$20,000 residence on Beacon St.

RHODE ISLAND

NEWPORT.—Architect Horace Trumbauer, Land Title Bldg., Philadelphia, will prepare plans for erection of villa for August Belmont.

Edw. J. Berwind will expend \$70,000 in erection of large garage and greenhouses.

PAWTUCKET.—Seekonk Lace Co. will erect proposed plant on Brook St. H. J. Lynd, president.

SOUTH DAKOTA

LEAD.—Bids will be received until Feb. 14 for erection, complete, of post office. Jas. Knox Taylor, Supervising Architect, Washington, D. C.

TENNESSEE

BRISCOE.—King's Mountain Memorial Hospital Association has decided to erect \$10,000 building.

CUMBERLAND GAP.—Lincoln Memorial University will rebuild Grant-Lee Hall, destroyed by fire. Wm. L. Stooksbury, President.

MEMPHIS.—Plans by G. E. Kessler, Kansas City, Mo., will be accepted by Park Commission for proposed \$10,000 public comfort station.

TEXAS

CROWELL.—Foard County is considering erection of \$10,000 court house.

DALLAS.—Masonic Lodges Dallas, No. 760, and Tannehill, No. 52, will erect temple at corner of Main and Pearl Sts. Cost, \$125,000. Plans have been prepared.

Contract will be let by city Feb. 7 for erection of proposed \$200,000 auditorium.

DENISON.—School Board has ordered Secretary to advertise for bids for the construction of new Lamar school building; cost not exceeding \$8,499.75.

FORT WORTH.—City and County authorities will at once take up matter of erection of joint hospital for needy poor.

HOUSTON.—Geo. Arnold will at once erect three-story brick flat at corner of Adam St. and Congress Ave.

Congregation Adath Israel will erect \$5,000 synagogue on north side of bayou.

Williman Manufacturing Co. will erect plant. Incorporators are Anton Williams, Frank Louis Williman, F. E. Pye, M. E. Foster and J. E. Reynolds.

POTTSBORO.—Rebuilding of school house is being considered. T. Smith, county superintendent.

SAN ANTONIO.—With view to selecting architect with national reputation as University of Texas architect, and to studying fireproof construction of public libraries in New York and Washington, Col. George W. Brackenridge, of San Antonio, Col. A. W. Terrell, of Austin, and Hampson Gary, of Tyler, members of the Board of Regents of University of Texas, will visit these cities.

THORNDALE.—Bids will be received until 2 p. m. Jan. 10 for erection of two-story bank building. C. D. Hill & Co., Wilson Bldg., Dallas, architects.

UTAH

SALT LAKE CITY.—August Vogeler is considering erection of warehouse on Fifth South St.

Architect W. H. Lepper, Brooks Arcade, has completed plans for erection of residence for C. B. Lockhart.

SALT LAKE CITY.—Salt Lake and Ogden Railroad is considering erection of terminal station.

Citizens will vote on \$700,000 bonds for erection of high and grade schools.

VERMONT

RUTLAND.—S. O. Burdick is preparing plans for erection of brick block, to cost \$10,000 to \$15,000, for C. W. Spencer.

VIRGINIA

LYNCHBURG.—Government will receive bids until Feb. 10 for erection of addition to local Government building. Jas. K. Taylor, Supervising Architect, Washington, D. C.

PORTSMOUTH.—School Board will ask for \$95,000 for buildings.

WASHINGTON

ABERDEEN.—Swedish Mission Church will erect \$25,000 edifice. Site not yet selected.

BELLINGHAM.—Trinity M. E. Church will at once let all contracts for erection of \$40,000 edifice at Garden and Magnolia Sts. Rev. Earl Naftzger, Pastor.

MEDICAL LAKE.—Plans are being prepared for erection of permanent buildings at school for defective youths. M. E. Hay, Governor; Frank Korte, city, is interested.

NORTH YAKIMA.—Local Masonic Order will erect six-story \$150,000 temple early in year.

OLYMPIA.—Government has purchased site for erection of public building.

SEATTLE.—Architect W. P. White, Central Bldg., has completed plans for erection of four-story warehouse on First St., South.

Monte Cristo Hotel, 1905 Fifth Ave., has had plans prepared for erection of three-story \$35,000 addition to building.

SEATTLE.—G. H. Parker will erect six-story hotel at corner of Fifteenth St. North, and John St. Cost, \$150,000. F. A. Sexton, Arcade Annex, architect.

Jesuit Fathers are considering erection of building for Seattle College at Eighteenth Ave. and Aloha St.

SEATTLE.—Scottish Rite Masons will erect \$150,000 home at corner of Broadway and Madison St. E. B. Hussey, Chairman, Building Committee.

Architect W. P. White, Central Bldg., is preparing plans for erection of three-story \$20,000 apartment at 151 Eleventh Ave. for J. H. Day.

SEATTLE.—Independent Presbyterian Church, Rev. W. A. Bass, pastor, will erect \$50,000 edifice.

SPOKANE.—Architect R. C. Sweatt is preparing plans for erection of \$85,000 apartment house on Second Ave.

SPOKANE.—Spokane County Club will erect \$25,000 club house seven miles north of city.

Dennis Sullivan, Rockford, will erect three-story apartment house on Monroe St. Cost, \$22,000.

TACOMA.—North End residents are urging erection of fire house. J. R. Anderson, president, North End Improvement Association, is interested.

WEST VIRGINIA

FULTON.—Fulton Banking Co. has had plans prepared for erection of two-story banking building.

WISCONSIN

SUPERIOR.—Bids will be opened Feb. 1 for erection of \$70,000 dormitory at Superior Normal School.

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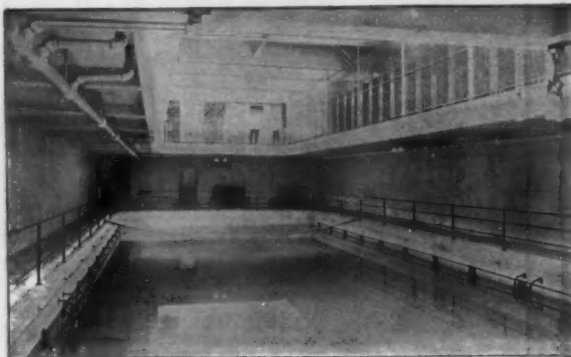
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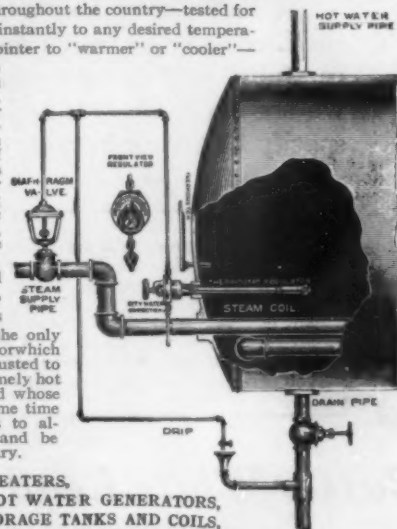
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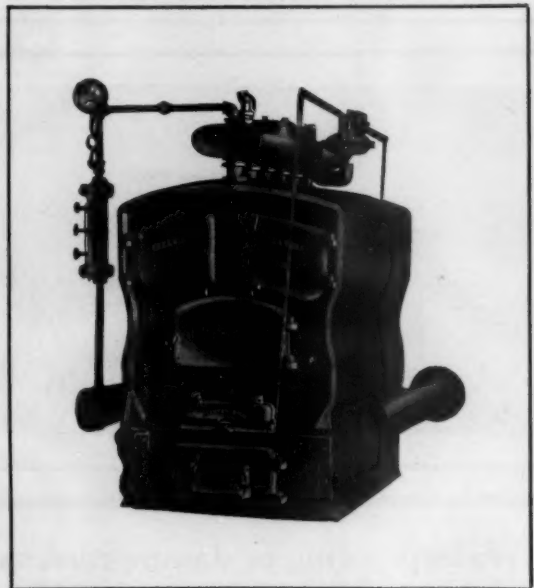
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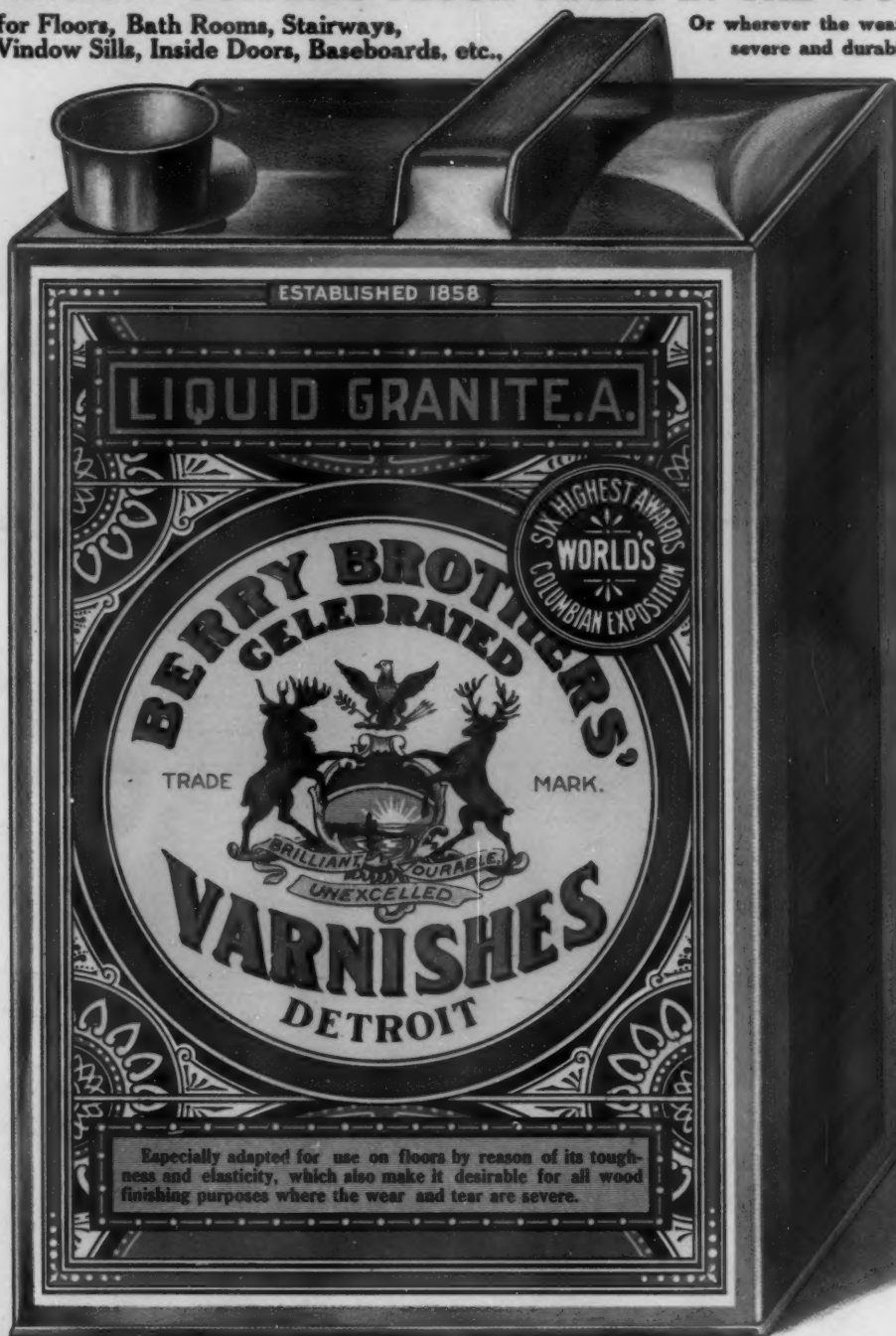
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SPECIFY IT for Floors, Bath Rooms, Stairways,
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NATURAL
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FLOORS

(see pages 8 and 9)

Specify as follows: If the wood is coarse or open grained, fill with Berry Brothers' Paste Filler to match the color of the wood, or if the wood is stained, to match the color of the stain, wipe off clean, and apply two coats of Berry Brothers' "Liquid Granite A," taking care that the first coat is thoroughly hard before applying the second; rub the second coat down with pulverized pumice stone and crude oil or raw linseed oil, and then wipe the floor perfectly dry and clean, so that no trace of oil remains to catch the dirt.

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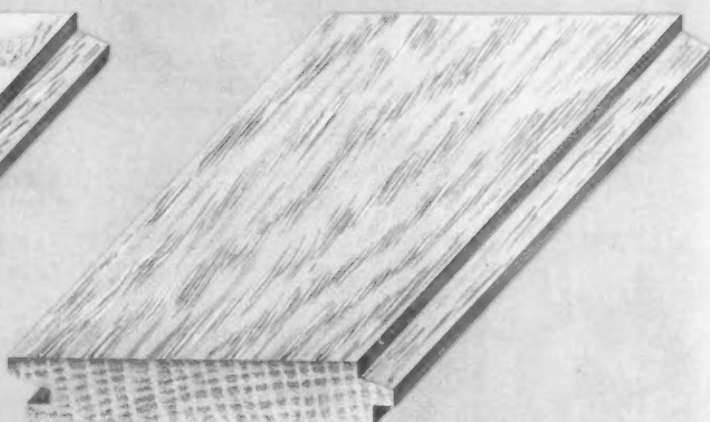
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CINCINNATI,
420 Main Street
ST. LOUIS,
112 South 4th Street
SAN FRANCISCO,
666-668 Howard Street

DWIGHT SPECIAL THIN

Observe
the Strength
of the Tongue



$\frac{3}{8}$ x 2 in. Quartered Oak.



$\frac{3}{8}$ x 2 in. Plain Oak.

Its advantages

Ordinary thin flooring, has such a small tongue, and the groove, such a thin lip, that when laid it is insecure. The lip splits and the tongue breaks in nailing. In DWIGHT SPECIAL, the tongue is unusually strong, being backed up so that the nail holds securely, and the upper lip of the groove is doubly strengthened, as a glance at the illustration will show.

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25 years experience in kiln-drying and milling hardwood, the best dry-houses and special machinery, enable us to turn out a practically perfect article.

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The growing scarcity of hardwood and its increasing cost render the use of a servicable thin floor a necessity. DWIGHT SPECIAL flooring meets this want fully. It can be laid over an old floor with very little expense, and for new work, is practically as servicable as thicker flooring.

Where obtained

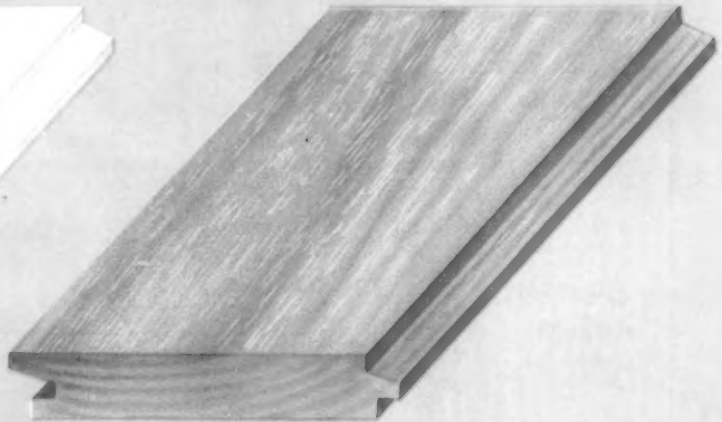
Contractors can readily obtain DWIGHT SPECIAL flooring from dealers in lumber in all cities. If your dealer does not carry it, write to us and we will see that a supply is procured for you.

HARDWOOD FLOORING

Observe
the Strength
of the Tongue



$\frac{3}{8}$ x 2 in. White Maple.



$\frac{3}{8}$ x 2 in. Red Birch.

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In all jobs, where it is desired that DWIGHT SPECIAL flooring should be laid, Architects should specify in the contract "The flooring to be used in this job, is the DWIGHT SPECIAL clear (naming the kind, Quartered Oak, Plain Oak, Maple, etc.) flooring," and should insist upon getting it, as dealers can readily obtain it of us, if it is not in stock.

Grade

It is manufactured in Clear grade, only.

Samples

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Finish (White)

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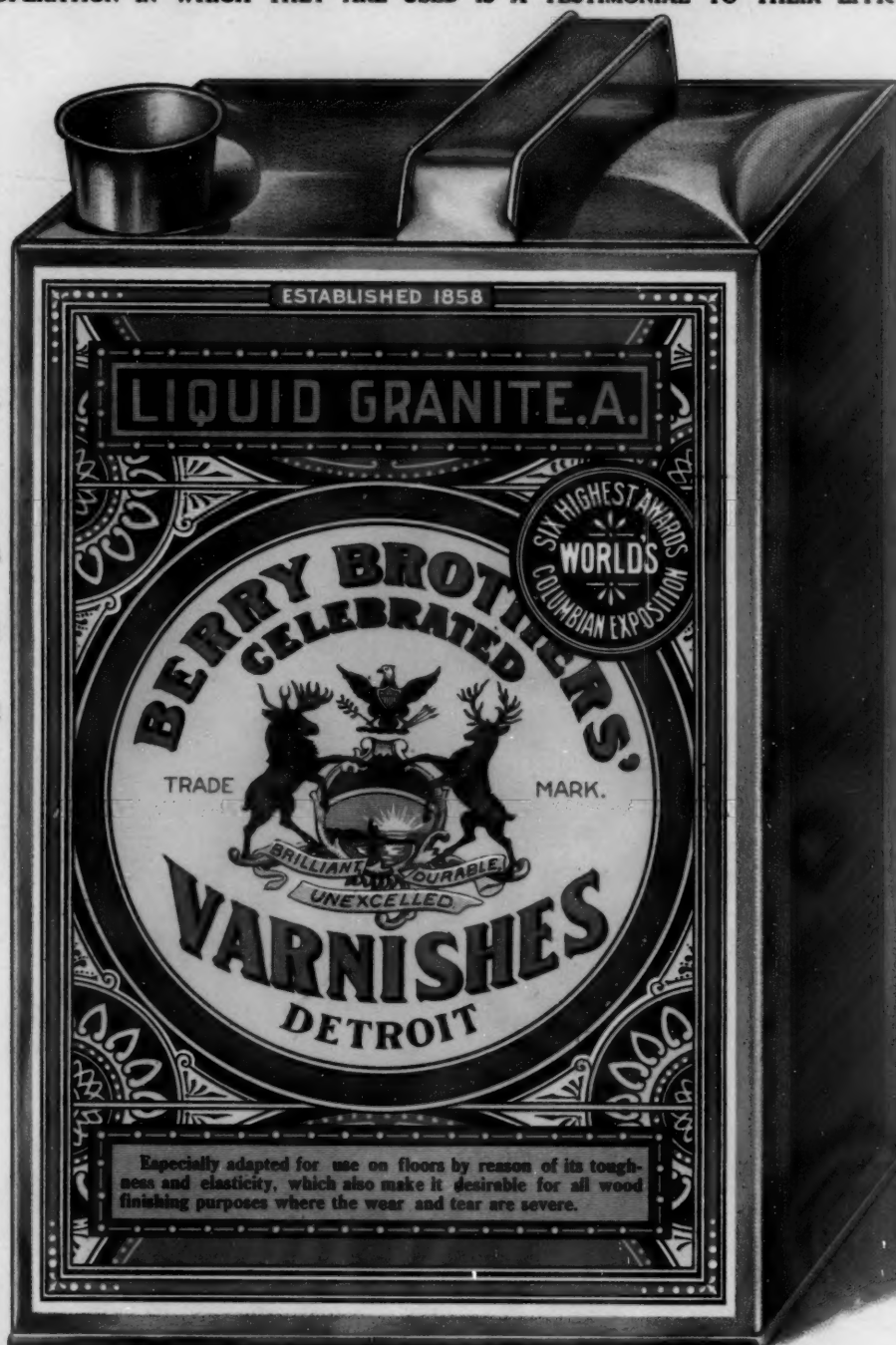
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Finish (Exterior)

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(A or B)

Hard Oil Finish

Elastic Interior

Elastic Exterior



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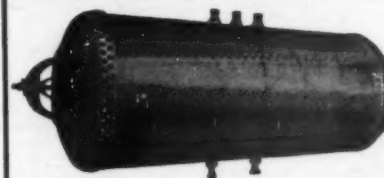
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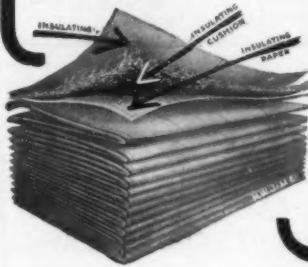
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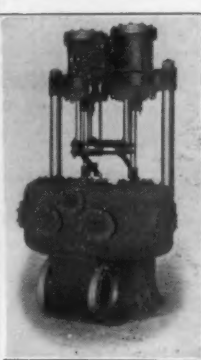
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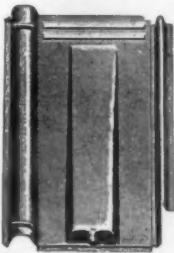
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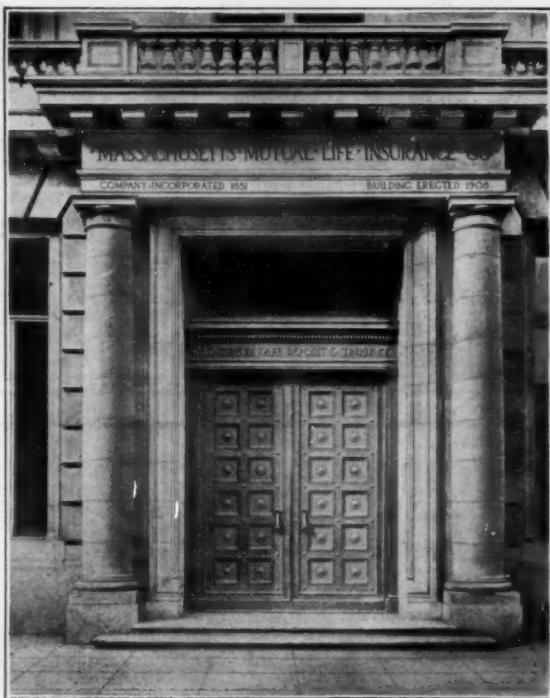
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Architectural
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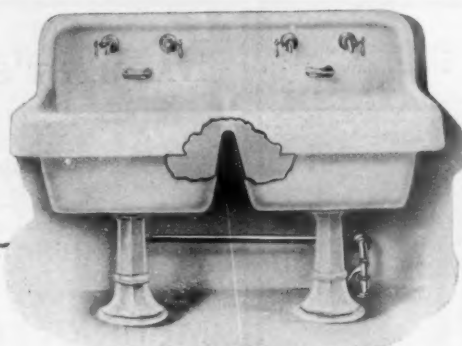


Plate F-321

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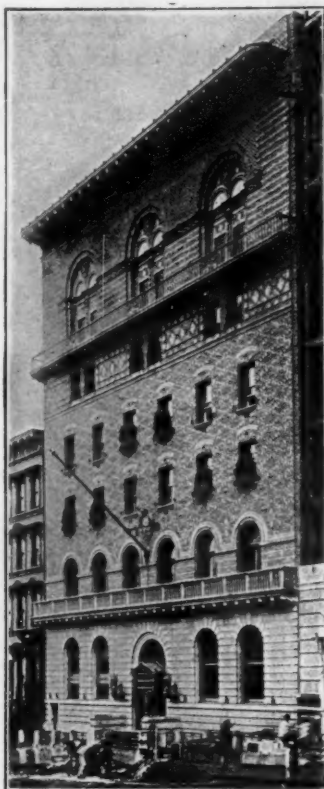
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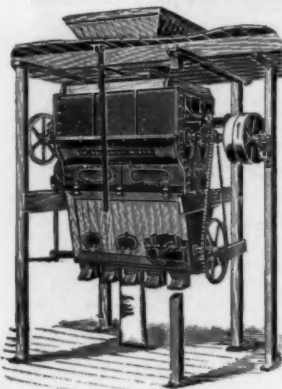
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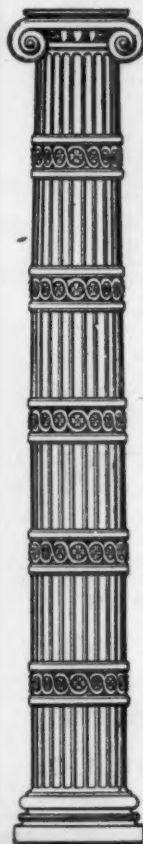
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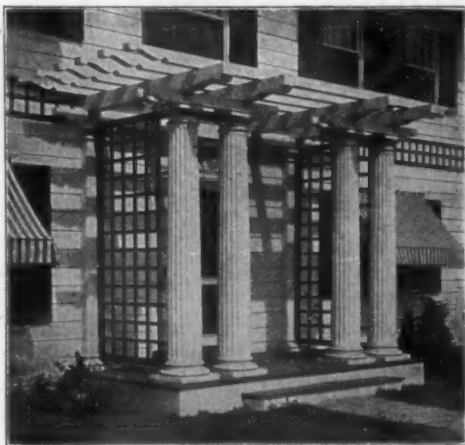
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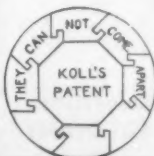
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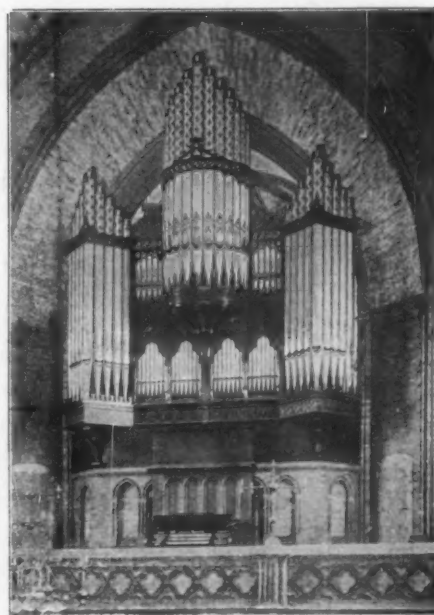
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For specification requirements see page 3, Catalogue "C." Please make requisition by Post Card
SEE SWEET'S INDEX, PAGES 678-679.





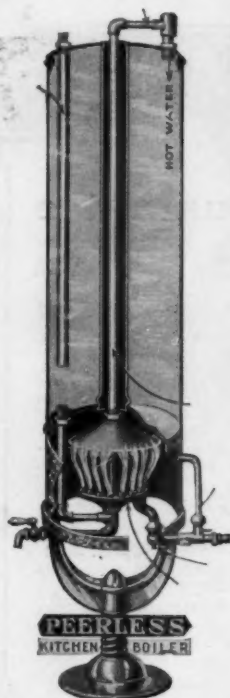
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HEATER AND
BOILER GOES INTO
THE WATER**

Storage tanks up to 500 gallons can be connected with the

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It is a combination Water Heater and Boiler in which there's perfect circulation and the only combination of its kind. Can be connected with furnace or range water back, or used with gas.

If you want the best let us submit particulars for your consideration.

Department C

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See Wolf Catalogue H, Pages 150-151



Figure 1014 Speakman's Combination Shower and Needle Bath with No. 1 Non-Scalding Regulating Valve (Patented),

\$60.00

Curtain Rod and Curtain extra.

This price does not include the marble stall or floorstrainer.

NOTE that the bather can operate this type of shower and obtain the desired temperature of water before entering the stall.

FIGURE 1014

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SPEAKMAN SUPPLY & PIPE CO.

Riverview Works

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Manufacturers of the largest line of Showers made

Sales Offices: New York City

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We are in Sweet's Index.



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Refrigerators**

ARE used exclusively by the Pullman Company and all railroad companies for dining, buffet and refrigerator cars.

The new Senate Office Building in Washington is equipped with the latest models of Bohn Refrigerators, which have only been completed and installed within the past month.

Many of the most exclusive clubs and hotels in the United States and Canada are using Bohn Syphon Refrigerators, notably the Knickerbocker Club and the Waldorf-Astoria Hotel, New York; The Bellevue-Stratford Hotel,

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These statements you will recognize as the strongest of endorsements. You will not make a mistake in specifying

Bohn Refrigerators

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St. Paul, Minn.

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The Peyton Building, Spokane, Wash.
Equipped with Mullins Metal
Fire Proof Windows.

The Peyton Building of Spokane, Washington, shown herewith, is one of the many hundred of modern fire proof buildings equipped with Mullins Windows.

Mullins Fireproof Windows are manufactured under the supervision of *Underwriter's Laboratories, Inc.* according to the latest specifications of the *National Board of Fire Underwriters*, and *every window is inspected, approved and labeled* with their official label.

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The weak point in all buildings is through the windows.

These openings can be made as fire proof as the walls themselves by installing **Mullins Fire Proof Windows**.

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have successfully withstood the severest trials not only in factory experiments but in actual conflagrations.

Mullins Windows are perfect windows in every way.

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NO one knows better than big architects—the men who plan and superintend the constructions of the great modern buildings—the superiority of red lead as the preserver of the steel skeletons of these immense structures.

And they are the ones who use it.

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Plate 661KW

Impervio Vitreous China "Linden."
All R R Square Lavatory, 30x24;
bowl, 19x14x6.

This Lavatory is especially adapted
for apartment use, both on account of
the convenience of size and strength.

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Our enormous facilities enable us to turn out orders at the shortest possible notice.

Our new KH Catalogue now ready. A pocket edition, complete in every detail. Sent on request.

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Trenton, N. J., U. S. A.



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Warm Air Generator System of Heating



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Each Heat Tube has eight square feet of heating surface and there are from eight to sixteen heat tubes in each generator.

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35,000 Kelseys Have Been Sold
to Home Owners Who Have Investigated.

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Let Us Prove to You

that the one right way—the only practical and sanitary way—to heat and ventilate any house is by forcing an abundance of fresh air properly warmed into every room, and that this is just what the Kelsey does in the easiest and most satisfactory way and saves 20 to 30 per cent. in fuel.

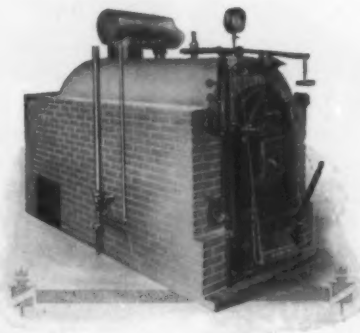
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"Opinions."

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what it does.

KELSEY HEATING CO.

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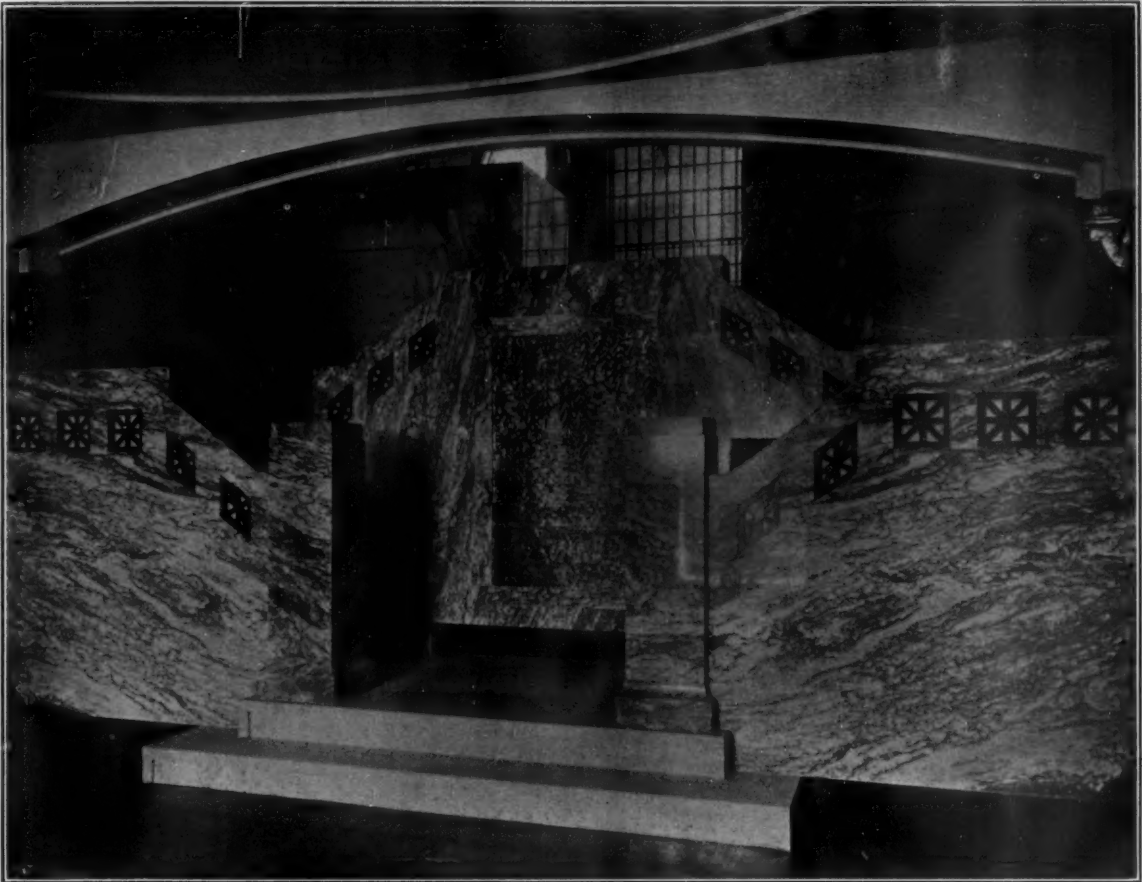
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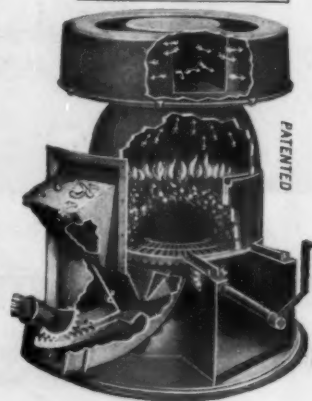
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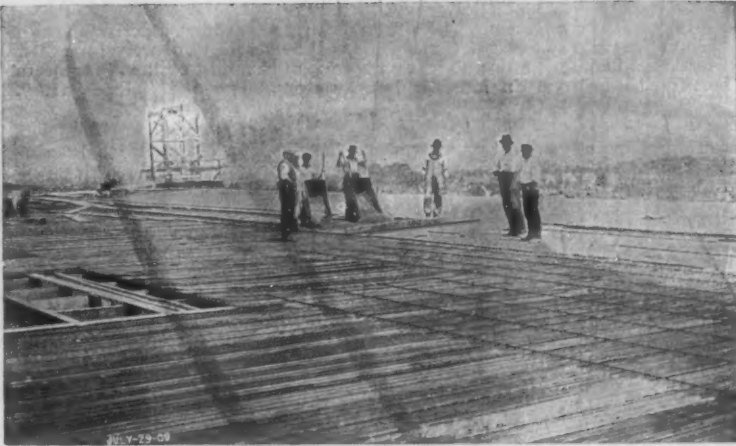
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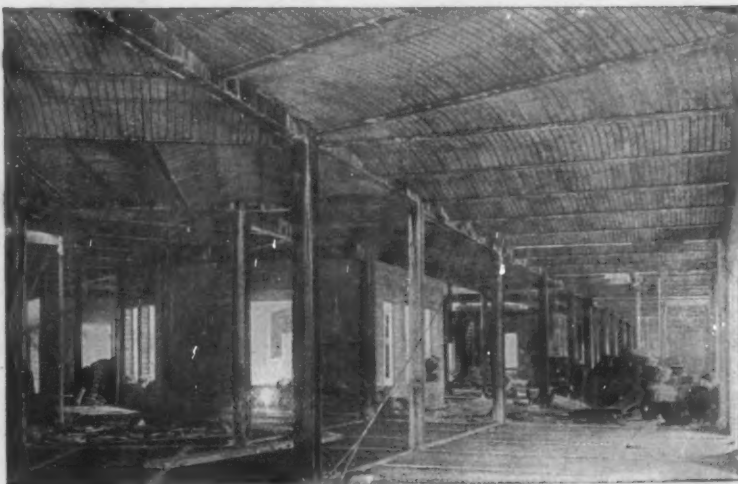
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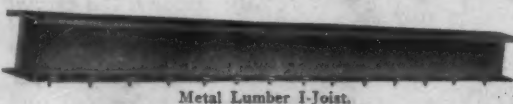
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- AMUSEMENT ARCHITECTURE. By Frederic Thompson. Six pages, illustrated with twenty-five photographs and one page sketches. *Architectural Review*, July, 1909.
- BUDAPEST, IMPRESSIONS OF. By Schuyler M. Meyer. 12 pages, illustrated with photographs. *The Architectural Record*, December, 1909.
- CLEVELAND ARCHITECTURAL CLUB EXHIBITION. 1 page. *The Western Architect*, December, 1909.
- COLONIAL FURNITURE, Reproductions of. 4 pages, illustrated with photographs. *The International Studio*, December, 1909.
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- McKIM, CHARLES F., Tribute to. ¼ page. *Architecture*, December, 1909.
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- SCHOOLHOUSES, Two New, Boston. 4 pages, illustrated with photographs and floor plans of Nathan Hale and Bishop Cheverus Schools. *The Brickbuilder*, November, 1909.
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ILLUSTRATIONS

- APARTMENT BUILDING, 925 Park Avenue, New York City, Delano & Aldrich, Architects. Two pages perspective drawing and floor plans. *Architectural Review*, July, 1909.
- BATHROOM for Mrs. W. G. Leow, New York City. Plan, elevation and ceiling of. Walker & Gillette, Architects. *The Architectural Review*, July, 1909.
- BINGHAMTON HIGH SCHOOL, Binghamton, N. Y. Squires & Wynkoop, Architects. Perspective and floor plans. *Architecture*, December, 1909.
- BOSTON OPERA HOUSE, Boston, Mass. Wheelwright & Haven, Architects. Exterior and interior photographs, sections and floor plans. *The Brickbuilder*, November, 1909.
- BRITANNIA APARTMENTS, The, 515 West 110th St., N. Y. City. Waid & Willauer, Architects. One exterior photograph. *Architecture*, December, 1909.
- BROOKS, A. S., Residence and Garage of, Minneapolis, Minn. Long, Lamoreaux & Long, Architects. Photograph of exterior and floor plans. *The Western Architect*, December, 1909.
- CHAMBER OF COMMERCE ANNEX, Minneapolis, Minn. Long, Lamoreaux & Long, Architects. Photograph of exterior. *The Western Architect*, December, 1909.
- CHAPEL FOR LAKEWOOD CEMETERY, Minneapolis, Minn. Harry W. Jones, Architect. Photograph of exterior and floor plan. *The Western Architect*, December, 1909.
- CHURCH OF ST. COLUMBA, Wanstead Slip, Stratford E. England. Internal view of baptistry, showing font. One page. Internal view of chancel. One page. Edward P. Warren, Architect. *Architectural Review*, July, 1909.
- CHURCH OF ST. MICHAEL AND ALL ANGELS, Basset, near Southampton, England. Chancel, looking towards organ and southeast view of. Edward P. Warren, Architect. *The Architectural Review*, August, 1909.
- CODDINGTON HILL APARTMENTS, Yonkers, N. Y. Squires & Wynkoop, Architects. Perspective and floor plans. *Architecture*, December, 1909.
- DICKEY, A. E., Residence of, Minneapolis, Minn. William M. Kenyon, Architect. Photograph of exterior and floor plan. *The Western Architect*, December, 1909.
- HAMPSTEAD GARDEN SUBURB, near London, Eng., Parker & Unwin, Architects. One page plans and elevations and three pages exterior photographs. *Architecture*, December, 1909.
- HEWITT, W. S., Residence of, Minneapolis, Minn. Harry W. Jones, Architect. Photograph of exterior. *The Western Architect*, December, 1909.
- HOTEL RADISSON, Minneapolis, Minn. Long, Lamoreaux & Long, Architects. Perspective drawing. *The Western Architect*, December, 1909.
- HOUSE AT CHESTNUT HILL, Philadelphia, Pa. Newman & Harris, Architects. Two exterior photographs and floor plans. *The Brickbuilder*, November, 1909.
- HOUSE AT CLEVELAND, OHIO. C. F. Schweinfurth, Architect. Four exterior photographs. Detail and floor plans. *The Brickbuilder*, November, 1909.
- JEDER, MISS JANE, Residence of, Minneapolis, Minn. Harry W. Jones, Architect. Two photographs of exterior and floor plans. *The Western Architect*, December, 1909.
- LEITCHWORTH SUBURB, Near London, Eng. Parker & Unwin, Architects. One page exterior photographs. *Architecture*, December, 1909.
- METROPOLITAN LIFE INSURANCE CO. BUILDING, San Francisco, Cal. N. LeBrun & Sons, Architects. One exterior photograph. *Architecture*, December, 1909.
- NEW DONALDSON BUILDING, Minneapolis, Minn. Kees & Colburn, Architects. Perspective Drawing. *The Western Architect*, December, 1909.
- NEW THEATRE, THE, New York. Carrere & Hastings, Architects. Three exterior photographs. *Architecture*, December, 1909.
- OFFICE BUILDING for The Minneapolis, St. Paul and Sault Ste. Marie Railway, Minneapolis, Minn. William M. Kenyon, Architect. Photograph of exterior. *The Western Architect*, December, 1909.
- PARISH HOUSE for Unitarian Church, West Newton, Mass. Cram, Goodhue & Ferguson, Architects. Exterior photograph and floor plans. *The Brickbuilder*, December, 1909.
- PENNINGTON, EDMUND, Residence of, Minneapolis, Minn. William M. Kenyon, Architect. Two photographs of exterior and floor plan. *The Western Architect*, December, 1909.
- PILLSBURY, CHARLES S., Residence of, Lake Minnetonka, Minn. Edwin H. Hewitt, Architect. Two photographs of exterior. *The Western Architect*, December, 1909.
- THE PLYMOUTH, Minneapolis, Minn. Long, Lamoreaux & Long, Architects. Perspective drawing. *The Western Architect*, December, 1909.

- ROCHESTER TRUST AND SAFE DEPOSIT CO., Rochester, N. Y. York & Sawyer, Architects. Eight pages interior and exterior photographs and detail drawings. *Architectural Review*, July, 1909.
- SCHOOL OF MINES, UNIVERSITY OF PITTSBURG, Pittsburg, Pa. Palmer & Hornbostel, Architects. Photograph of exterior. *Architecture*, December, 1909.
- SCHOOL, WASHINGTON, D. C., Henry D. Cooke. Marsh & Peter, Architects. Two exterior photographs and floor plans. *The Brickbuilder*, November, 1909.
- SCHRIVER, E. J., Residence of, Minneapolis, Minn. Cecil Bayless Chapman, Architect. Two photographs of exterior and floor plan. *The Western Architect*, December, 1909.
- SHERWOOD APARTMENTS, Minneapolis, Minn. Clifford T. McElroy, Architect. Perspective drawing. *The Western Architect*, December, 1909.
- SQUASH COURT, North Easton, Mass. Coolidge & Carlson, Architects. Two exterior photographs and floor plan. *The Brickbuilder*, November, 1909.
- STATE NORMAL COLLEGE, Albany, N. Y. G. L. Heins & Albert R. Ross, Architects. Two exterior photographs. *Architecture*, December, 1909.
- TILTON SCHOOL, Chicago, Ill. Dwight H. Perkins, Architect. Exterior and interior photographs with floor plans. *The Brickbuilder*, November, 1909.
- TRACY, J. L., Residence of, Minneapolis, Minn. Cecil Bayless Chapman, Architect. Two photographs of exterior and floor plan. *The Western Architect*, December, 1909.
- WEST HIGH SCHOOL, Minneapolis, Minn. E. S. Stebbins, Architect. Photograph of exterior. *The Western Architect*, December, 1909.
- WHOLESALE BUILDING FOR TIBBS, HUTCHINGS & Co., Minneapolis, Minn. Long, Lamoreaux & Long, Architects. Perspective drawing. *The Western Architect*, December, 1909.
- WOODWORTH, E. S., Residence of, Minneapolis, Minn. William M. Kenyon, Architect. Photograph of exterior. *The Western Architect*, December, 1909.
- YORK & SAWYER, Recent Work of. Twenty-nine illustrations. *The Architectural Review*, August, 1909.

SOCIETIES

INDIANA ARCHITECTS ORGANIZE

Architects in Indiana have organized a State Association, and as soon as the report of the Committee on Constitution makes its report, the officers for the coming year will be elected.

The meeting, of which this organization was the result, was largely attended by members of the profession throughout the State, and it is hoped by concerted action to prevent many of the irregularities now existing that are detrimental to the best interests of the profession.

SAN FRANCISCO CHAPTER, A. I. A.

A special meeting of the San Francisco Chapter, American Institute of Architects, was held on Thursday evening, December 16, 1909.

Resolutions on the death of Mr. Robert H. White were presented and a motion duly passed that the resolutions be engrossed and forwarded to the members of Mr. White's family.

Messrs. George Taylor Plowman and Albert Schroepfer, newly elected members, made brief remarks.

A telegram from Mr. Cass Gilbert, president of the American Institute, was read, in which Mr. Gilbert advised the Chapter that the convention recently held at Washington, D. C., had unanimously voted to hold the next convention on the Pacific Coast.

ATELIER JALLADE.

On December 28, 1909, Mr. D. Varon, formerly Professor of Architecture at Syracuse University, gave the first of a series of talks on "Architectural Sketching" to the members and friends of the Atelier Jallade.

The next talk of this interesting series will be given on January 13.

ROBERT FULTON MEMORIAL COMPETITION.

We are advised that the successful competitors in the Robert Fulton Memorial Competition, New York, are as follows:

Charles P. Huntington, New York City.
J. H. Freedlander, New York City.
Mills & Greenleaf, New York City.
Robert P. Bellow, Boston.
Albert Kelsey and Paul Cret, Philadelphia.
Laurence F. Peck, New York City.
Bosworth & Holden, New York City.
Herbert S. Olin, Watertown, N. Y.
H. Van Buren Magonigle, New York City.
Heacock & Hokanson, Philadelphia.

The second competition will close March 15, 1910.

BOOK NOTE

STRESSES IN MASONRY, by Herbert Chatley, B. Sc. (Eng.), with 22 diagrams. Full cloth, 142 pp., size 4½ x 7 inches; price, \$1.25 net. Philadelphia: J. B. Lippincott Co.; London: Charles Griffin & Co., Ltd.

The feverish activities of present-day methods demand that whatever is put before us for our instruction or information shall be brief as possible, concise and assertive. The scholarly disposition of our forefathers, while present in this generation, is impatient of the dry and prosy treatise, it wants facts tersely stated.

It would appear that Prof. Chatley thoroughly appreciates this tendency, and he has prepared a work calculated to supply a vacant place in the literature of stresses in masonry.

The subject in its various bearings would seem to be covered in every essential, and the various formulæ and types are written or drawn in a way that enables the reader to readily grasp the subject.

This work will be a welcome addition to the books that the technical worker always wants to have at hand for ready reference.

INDUSTRIAL

The Bruce-Macbeth Engine Company, of Cleveland, have opened a branch office in Philadelphia at No. 1020 Drexel Building.

This office will be in charge of Mr. M. E. Jackson.

The General Fireproofing Co. advise us that they opened an export office at 396 Broadway, New York, which will be in charge of Mr. A. D. Level. In future all the foreign business of the General Fireproofing Co. will be transacted through this office.



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BUILDING NEWS

To be of value this matter must be printed in the number immediately following its receipt, which makes it impossible for us to verify it all. Our sources of information are believed to be reliable, but we cannot guarantee the correctness of all items. Parties in charge of proposed work are requested to send us information concerning it as early as possible; also corrections of any errors discovered.

ALABAMA

BAY MINETTE.—Contract will be let Feb. 1 for erection of proposed \$20,000 jail.

BESSEMER.—Jas. Hillhouse and Jas. Strong, Birmingham, will erect seven-story building at corner of Third Ave. and Nineteenth St.

BIRMINGHAM.—Jefferson County Board of Revenue will open bids about January 15 for erection of proposed \$40,000 addition to courthouse. J. Goring, President.

BIRMINGHAM.—Erection of \$200,000 Carnegie Library is being considered.

FLORENCE.—Southern Library Association is urging erection of \$10,000 Carnegie Library.

GADSDEN.—Erection of school buildings, cost, \$75,000, will be considered by Council.

HUNTSVILLE.—Baptist Congregation at Dallas has decided to at once erect church.

JASPER.—Methodist Church, South, is considering erection of edifice. J. H. Bankhead, Jr., Chairman, Board of Trustees.

MOBILE.—Plans are being drawn by Benz Bros., architects, for \$8,000 stone residence that T. K. Jackson will build in Flo Claire.

MOBILE.—School Board has recommended purchase of site for school house in Oakdale.

MONTGOMERY.—Council proposes to present to State a site for erection of armory and arsenal for the use of State Militia.

ARIZONA

PRESCOTT.—Plans and specifications will be received by Board of Control of Territory of Arizona, Phoenix, until Feb. 1 for proposed \$25,000 Pioneers' Home. Jas. J. Riggs, secretary.

ARKANSAS

HEBER.—Cleburne County will at once adopt definite plans for county jail building. W. R. Casey, County Judge.

RAVENDEN SPRINGS.—City is considering \$5,000 bond issue for erection of school. W. R. Stidham, director, school district.

CALIFORNIA

HOLLYWOOD.—The Trustees of St. Stephen's Episcopal Church have decided upon plans for \$5,000 parish home that will be built within next few months.

LODI.—Local Episcopalians are considering erection of edifice at corner of Locust and Lee Aves.

LOS ANGELES.—Methodist Episcopal Churches of Southern California have decided to build a large junior college in San Fernando Valley, sixteen miles from city.

SAN FRANCISCO.—Architect A. G. Scholz, Sixteenth and Mission Sts., has prepared plans for erection of residence on Filbert St. for Albert Vance.

Architect C. A. Meussdorffer, Humboldt Bank Bldg., has completed plans for erection of \$400,000 worth of buildings.

Plans have been completed by Charles M. and Arthur F. Rousseau, 1490 California St., for \$15,000 three-story and basement brick apartment house for Vallejo St.

SAN FRANCISCO.—Plans have been completed by Architect W. G. Hurd, Humboldt Bank Bldg., for erection of reinforced concrete apartment house, cost \$40,000, on Geary St.

Architects C. M. & A. F. Rousseau, 2200 Pine St., are preparing plans for erection of seven-story Class B building at corner of Hyde and Post Sts.

SAN JOSÉ.—First Methodist Church is considering plans by Architect C. P. Ripley, Oakland, for erection of \$50,000 edifice.

COLORADO

COLORADO SPRINGS.—Denver and Rio Grande Railroad will erect roundhouse and an ice house. J. W. Dean, general superintendent.

CONNECTICUT

CHESHIRE.—State Reformatory Commission has purchased site at this place for proposed institution.

HARTFORD.—Rev. M. A. Sullivan, Pastor of the Church of

the Immaculate Conception, on Park St., has had plans prepared for a new convent for the Sisters of Mercy, to be built on Broad St.

NEW HAVEN.—Architects have completed plans for an additional factory for the Narrow Fabric Corporation of Allingtown.

WATERBURY.—Mayor W. B. Hotchkiss has recommended erection of comfort station.

NEW HAVEN.—Union-New Haven Trust Co. is having plans prepared for erection of bank building. W. P. Curtiss, New Haven Trust Co., is interested.

DELAWARE

WILMINGTON.—Plans for a substantial and attractive administration building at Hope Farm are being actively pushed by Delaware Anti-Tuberculosis Society; preliminary sketches have been completed and the working plans are now in course of preparation. Cost, \$15,000.

DISTRICT OF COLUMBIA

WASHINGTON.—Columbia County Club, J. S. Stoddard, Twenty-second and P Sts., Chairman Building Committee, will open bids February 1 for erection of proposed \$60,000 club house. F. B. Pyle, 1003 F St., N. W., architect.

FLORIDA

SANFORD.—Owners of the Sanford & Everglades Railroad Co. have purchased site and will erect immense terminals, including shops, passenger stations, freight warehouses and general offices.

PENSACOLA.—Escambia County Commissioners will receive bids until Feb. 9, extension of time, for erection of building to be used for court house, office structure and jail. Rudolph Benz Sons, Masonic Temple Bldg., Mobile, Ala., architects. Jas. Macgibbon, clerk.

ILLINOIS

CHICAGO.—Hotel, cost \$750,000, for poor strangers, will be built by Central Y. M. C. A.

CHICAGO.—Orville Babcock, of Babcock, Rushton & Co., will erect large home at Lake Forest.

MacMillan Publishing Co. will erect large building at Twenty-fifth St. and Prairie Ave.

MOLINE.—T. E. Lundell will erect large building in spring at Fifth Ave. and Sixteenth St.

ROCK ISLAND.—Bids will be received by Jas. Knox Taylor, Supervising Architect, Washington, D. C., until 3 p. m., Feb. 24, for the construction of extension to post office.

SPRINGFIELD.—Architect S. J. Hanes has completed plans for erection of \$10,000 residence for Harry Shirding.

WASHINGTON.—Washington Commercial Club will rebuild home destroyed by fire.

INDIANA

EVANSVILLE.—P. H. Reddinger, Wabash Ave., will erect large carving works.

RICHMOND.—County Commissioners will accept plans submitted for proposed \$10,000 hospital for insane.

SOUTH BEND.—Indiana Ave. Christian Church has decided to erect \$12,000 edifice. Rev. C. C. Buckner, Pastor of church.

IOWA

AMES.—Bids will be received by State Board of Education, Des Moines, until 2 p. m., Jan. 20, for erection and completion of domestic technology building. Proudfoot & Bird, Des Moines, architects.

CEDAR RAPIDS.—Local Masons are considering erection of home.

DAVENPORT.—French & Hecht, Third and Le Claire Sts., will erect large addition to plant.

KANSAS

HAVEN.—Citizens will vote on \$20,000 bonds for erection of school. S. P. Rowland, County Superintendent.

HUTCHINSON.—J. N. Bailey will erect building on East Sherman St. during year.



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HUTCHINSON.—W. C. Edwards is considering erection of \$20,000 block.

Rock Island Railway is planning to erect \$12,000 passenger station.

Central Mercantile Co. has purchased site on Second Ave. and will erect \$15,000 block during year.

HUTCHINSON.—Congregational Church has purchased site and will erect \$10,000 edifice in spring.

D. J. Fair is considering erection of five-story \$65,000 hotel building at 213 N. Main St.

John Myers will erect two-story \$10,000 business block in spring at 116 S. Main St.

Local Aerie of Eagles is planning erection of \$12,000 clubhouse on E. Second St.

SALEM.—Wilmarth & Zerbe, architects, have completed plans and specifications for proposed court house.

TURON.—Citizens have voted \$12,000 bonds for erection of school. S. P. Rowland, County Superintendent.

KENTUCKY

LOUISVILLE.—A. J. Schulten, 530 W. Main St., is considering erection of \$15,000 residence near Cherokee Park.

LOUISVILLE.—Union Presbyterian Church is considering erection of \$25,000 edifice at Second and Avery Sts.

LOUISIANA

AMA.—Bids will be received by School Board of St. Charles Parish until Jan. 31, for erection of school. T. B. Sellers, Secretary.

NEW ORLEANS.—General Grand United Order of Brothers and Sisters of Love and Charity will erect building on Rampart St.

SHREVEPORT.—Bids will be received by the Methodist congregation for erection of \$45,000 edifice. Rev. J. G. Snelling, Pastor.

ST. BERNARD.—St. Maurice Benevolent Society has purchased site at Chartres and Charbonet Sts. for erection of hall. S. Hall, President.

MARYLAND

BALTIMORE.—Architect Samuel Bernsterman has completed plans for erection of 111 dwellings in eastern section of city for W. L. Westphal. Cost, \$200,000.

BALTIMORE.—Architect H. C. Aiken, 213 N. Calvert St., has prepared plans for erection of \$6,000 college on Garrison Ave., Mount Alto, for E. G. Turner; also plans for several cottages to be erected on Brookline Ave., Forest Park, for Webb & White.

BALTIMORE.—Plans are being prepared by Architect C. M. Anderson, 324 N. Charles St., for erection of four-story structure at corner of Eutaw and Franklin Sts.

Architect Clyde Fritz, 11 East Pleasant St., has prepared plans for erection of two cottages in Walbrook. Cost, \$12,000.

City has purchased site on Williams St. for erection of addition to public school.

BALTIMORE.—Builders' Mortgage Security Association will erect 150 two-story brick houses on Tenth and Brighton Sts., Walbrook. Cost, \$350,000. Herman Scheer, Treasurer.

Architect C. N. Fritz, 11 E. Pleasant St., has prepared plans for erection of number of modern cottages on Elgin Ave. Cost, \$6,000 each.

CATONSVILLE.—Catonville Volunteer Hose Company is considering enlargement of its quarters.

Geo. L. Golder will erect residence on Melvin Ave. in spring.

TOWSON.—Legislature will be asked to make larger appropriation for erection of court house.

MASSACHUSETTS

BOSTON.—Plans for \$15,000,000 new union station to accommodate the New York, New Haven & Hartford, the Boston & Maine and the Boston & Albany railroads, have been considered by magnates of the three systems.

BROCTON.—Mayor Clifford has recommended erection of addition to high school.

LAWRENCE.—School Committee will ask for legislation for special loan for erection of school house in South Lawrence.

LAWRENCE.—Mayor Wm. P. White has recommended erection of school building and modern police station and court house.

LOWELL.—Mayor J. F. Meehan has recommended erection of contagious hospital and public hall.

LYNN.—Mayor Jas. E. Rich has recommended erection of Grammar School.

MARLBORO.—Mayor J. J. Shaughnessey has recommended erection of hospital.

NEW BEDFORD.—Mayor Chas. S. Ashley has suggested erection of school house in vicinity of Allen and Brownell Sts.

SALEM.—Mayor Howard has recommended erection of railroad and police stations.

WALTHAM.—Mayor E. A. Walker has recommended erection of public library.

WORCESTER.—Mayor Jas. Logan has recommended erection of police headquarters and branch stations of public library.

MICHIGAN

PLAINWELL.—Village Council is considering proposition to erect new school building.

MINNESOTA

DULUTH.—J. J. Wangenstein, 401 Providence Bldg., is preparing plans for new building to be erected by Nelson Bros., in West End.

ST. PAUL.—Towle Syrup Co., Custer St. and Chicago Ave., will rebuild plant destroyed by fire.

MISSOURI

KANSAS CITY.—Rock Island Sash & Door Works, Thirty-fourth St. and Gilham Road, is considering erection of warehouse. J. B. Rust, local agent.

Jackson County Medical Society is considering erection of club house at Thirty-first St. and Gilham Road. Dr. J. Q. Chambers and Dr. John Puntun, 702 Shukert Bldg., Building Committee.

NEBRASKA

HASTINGS.—Christian Church has decided to at once erect \$20,000 edifice.

OMAHA.—Lundberg & Remington will erect three-story building on Harvey St.

Woodmen of the World have purchased site at Fourteenth and Farnam Sts. for erection of sixteen-story building.

NEW JERSEY

ASBURY PARK.—Mayor T. Frank Appleby has recommended erection of city hall.

CAMDEN.—Managers of Cooper Hospital have had plans prepared for erection of \$50,000 addition.

GLOUCESTER.—Government has secured site between Monmouth and Market Sts. for proposed immigrant station.

HOBOKEN.—School Board has accepted plans by Architect J. T. Rowland for proposed high school. Cost, \$250,000.

JERSEY CITY.—Board of Education will at early date plan erection of three school houses.

Architect E. E. Quaiiff, 66 Harrison Ave., has prepared plans for \$70,000 office building to be erected at Arlington Ave. and Grand St.

LONG BRANCH.—Telephone Co. is having plans prepared for erection of three-story building on Third Ave. W. H. Hall, representative.

LONG BRANCH.—Council will soon act on proposition submitted by number of Pittsburg capitalists, headed by James C. Ewing. Company desires to lease City Park for a term of twenty years and erect \$1,000,000 hotel.

MONTCLAIR.—St. Vincent's Foundling Asylum will replace burned structure.

NEWARK.—Hurd & Sutton, 11 Clinton St., have completed plans for proposed tuberculosis hospital at Soho.

Rizzolo & Gonnelli 800 Broad St., have drawn plans for \$18,000 five-story brick building to be erected at 93 High St. for Antonio Spallone.

NEWARK.—Architect A. M. Kleeman, 493 South Tenth St., has completed plans for several frame buildings to be erected during winter.

Architect Frank Grad, 137 Springfield Ave., has completed plans for erection of four three-story flats at 715 South Sixteenth St. Cost, \$20,000.

ROSELLE.—Mayor Chas. MacQuoid has recommended erection of school; also election on \$20,000 bonds for erection of city hall.

ROSELLE PARK.—Mayor L. V. Ebert has recommended erection of income-paying borough hall.

TRENTON.—P. J. Campbell, N. Willow St., will erect apartment house on N. Willow St.

Greenwood Avenue M. E. Church is considering erection of

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VENTNOR.—Council has ordered bids advertised for erection of proposed engine house at Ventnor and Trask Aves. J. Vaughn Mathis, architect.

NEW MEXICO

SILVER CITY.—Citizens will vote Jan. 18 on \$25,000 bonds for erection of school building.

NEW YORK

ALBANY.—Erection of addition to school No. 16, on Allen St., is being considered.

BINGHAMTON.—SS. Cyril and Methodius R. C. Church, Rev. Fr. Porubsky, Pastor, will erect church and school.

BROOKLYN.—T. L. Dickinson, 165 Howard Ave., will erect \$15,000 dwelling on Hancock St.

C. Morgenson, 44 E. Fifth St., will erect three two-story dwellings on E. Fifth St. Cost, \$10,500.

Three one-story frame dwellings, cost \$10,500, will be erected on Ave. G for A. Campbell, 11 Thomas St., Newark, N. J.

J. T. Linnen, 20 Broad St., New York City, will erect \$12,000 dwelling on Hancock St.

J. Wood, Jones Walk and Bowery, will erect \$10,000 hotel on Seaside Walk.

A three-story brick store and storage building, cost \$50,000, will be erected on Flatbush Ave. for Realty Associates, 176 Remsen St.

BROOKLYN.—Ida Dilzer, Hempstead, L. I., will erect three two-story buildings on Sutter Ave. Cost, \$10,500.

Annie Gaus, 335 East Twenty-ninth St., will erect four two-story dwellings on East Thirty-eighth Street. Cost, \$14,000.

Manhattan Beach Estate Co., 192 Broadway, New York City, will erect \$10,500 dwelling on Coleridge St.

Bush Land Co., 100 Broad St., New York City, will erect six-story, \$125,000 factory on Third Ave., and two \$300,000 factories on Second Ave.

Twelve two-story dwellings will be erected on Crescent Place for Kerr & Cook Construction Co., 66 Crescent St. Cost, \$60,000.

BROOKLYN.—Monroe Investing Co., 26 Court St., will erect six-story \$300,000 factory on Monroe St.

Two two-story dwellings, cost \$10,000, will be erected on Atlantic Ave. for Isaac Miller, 1885 Prospect Place.

Eleven two-story dwellings, cost \$49,500, will be erected on East Fourth St. for O'Brien Realty Co., 110 Ocean Parkway.

BROOKLYN.—Bay Ridge Impt. Co., Third Ave. and Seventy-third St., will erect \$15,000 three-story garage and bowling alleys on Seventy-fifth St.

A. E. MacAdam, 265 Greene Ave., will erect \$15,000 warehouse on Lexington Ave.

Twelve four-story brick dwellings will be erected on E. Fifteenth St. for Abels, Gold Realty Co., 4 Court St. Cost, \$120,000.

Five two-story dwellings, cost \$22,500, will be erected on Forty-fifth St. for W. Sturrock, 403 Stanhope St.

BROOKLYN.—Seven two-story brick dwellings will be erected on Crescent St. and Sutter Ave. for I. Dilzer, Hempstead, L. I. Cost, \$24,500.

E. Marks, 944 Union Ave., New York City, will erect \$15,000 brick theater on Pitkin Ave.

Architect C. W. R. Van Buswink has prepared plans for erection of hotel and bath houses at foot of Ocean Ave., Coney Island, for P. J. Geneas.

Plans have been prepared by Maximilian Zipkes for the construction, by the DeKalb Realty Company, of \$200,000 eight-story and basement fireproof loft and factory building on DeKalb Ave.

CENTRAL VALLEY.—Firemen's Hall, destroyed by fire with loss of \$12,000, will be rebuilt.

LAKE GEORGE.—Ludlow & Peabody, 12 W. Thirty-first St., New York City, have prepared plans for railroad station for Delaware & Hudson Co.; building will be 33 ft. by 66 ft., with tower 58 ft. high.

NEW YORK.—A. Seton, 156 Broadway, will erect six-story addition to 247 Canal St. Cost, \$10,000. Delano & Aldrich, 4 E. Thirty-ninth St., architects.

NEW YORK.—Henry Corn, 341 Fifth Ave., will erect twelve-story store and loft at 74 Fifth Ave.

Architect Carl Ambrosius, 5 East Fourteenth St., has prepared plans for erection of \$500,000 theater and concert hall on West Forty-third St.

NEW YORK.—Tuscan Construction Co., 150 Fifth Ave., will erect six-story \$150,000 brick flat on Clermont Ave. Neville & Bagge, 217 W. 125th St., architects.

Clinton Stephen will erect \$5,000 frame pavilion on Clason Point Road. B. Ebeling, 1136 Walker Ave., architect.

Guide Realty Co., Broadway and 112th St., has filed plans for erection of \$800,000 twelve-story flat on West End Ave.

NEW YORK.—Architect Douglas Brown, 2299 Loring Place, has filed plans for erection of \$12,000 dwelling on Loring Place.

NEW YORK.—C. Lane, 38 Fulton St., will erect seven-story brick loft and store on Prince St. Cost, \$25,000. T. W. Lamb, 224 Fifth Ave., architect.

Dacon Realty Co., 95 Liberty St., will erect ten-story \$700,000 brick flat on Riverside Drive. G. & E. Blum, 505 Fifth Ave., architects.

NEW YORK.—C. E. Rector, 2030 Broadway, will erect thirteen-story hotel at Broadway and Forty-fourth St. Cost \$1,400,000. D. H. Burnham & Co., Chicago, architects.

Brown Bros., Inc., 33 E. Twentieth St., will erect nine-story brick flat on Riverside Drive. Cost, \$250,000. F. L. Brown, architect.

Ernest Keller, Walton Ave. and 176th St., will erect two two-story dwellings on Katonah Ave. Cost, \$9,000. J. J. Vreeland, 2019 Jerome Ave., architect.

Twenty West Seventeenth St. Construction Co., 6 W. Eighteenth St., will erect twelve-story brick lofts and store on Seventeenth St. Cost, \$200,000. Schwartz & Gross, 347 Fifth Ave., architects.

Newton Realty Co., 227 Madison St., will erect six-story \$40,000 brick warehouse on Washington St. J. C. Cocker, 2017 Fifth Ave., architect.

Teichman Engineering and Construction Co., 1300 Broadway, will erect six-story brick store and flat, cost \$75,000, on Macomb Place. Moore & Landsiedel, Third Ave. and 148th St., architects.

OSWEGO.—Normal School Board has had plans prepared for erection of proposed Normal School building.

ROCHESTER.—Board of Estimate has appropriated \$15,000 for public comfort stations.

SYRACUSE.—A. M. E. Zion Church Society has plans by Architect C. E. Colton for erection of \$12,000 edifice at 711 E. Fayette St.

SYRACUSE.—Plans are being prepared by Architects Merrick & Randall, S. A. and K. Building, for large block which McCarthy estate will erect this spring, at corner of S. Salina and E. Onondaga Sts.

Onondaga County Orphan Asylum is considering enlargement of home.

SYRACUSE.—Henry J. Sprague will erect two-family house on South Salina St.

SYRACUSE.—Wm. A. Davis will have plans prepared for erection of large building at corner of South Salina and West Jefferson Sts.

OHIO

AKRON.—Portage Hotel Company is considering plans for erection of proposed building. M. O'Neil, director, is interested.

CINCINNATI.—Dr. Wm. H. Taylor will erect \$15,000 residence in East Walnut Hills.

Council is considering \$15,000 bond issue for erection of free bath house in Cutter St.

CLEVELAND.—Public Library Board will erect two buildings at cost of \$30,000.

Cleveland Plain Dealer will extend its building to Superior Ave. during coming year.

Chandler & Price Co. will erect \$80,000 factory in near future.

COLUMBUS.—Columbus Terminal Warehouse Co., capital \$25,000, will erect large warehouse. Archibald Huston, C. F. Cohagen and others are interested.

Plans for apartment building and residence to be erected for Dr. Tod Gilliam have been completed by Architects Stribling and Lum, 85 No. High St.

COLUMBUS.—Chas. Amicon, Third and Naghten Sts., will erect building in spring on East Broad St.

Architects Richards, McCarty & Bulford, Ruggery Bldg., have prepared plans for building to be erected at Town and High Sts. for Ohio National Bank.

First English Lutheran Church, Rev. H. N. Miller, Pastor, has decided to erect edifice.



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CUYAHOGA FALLS.—Plans have been completed by Architect J. Adam Fitcher, Akron, for erection of theater.

DAYTON.—Weakley & Worman Grocery Co. will erect three-story building on Third St. E. J. Mountstephen, architect.

NEW LEXINGTON.—Architect F. S. Gleichauf, First National Bank Bldg., Columbus, has prepared plans for residence to be built for William Johnson.

OKLAHOMA

MUSKOGEE.—County is considering erection of jail. J. L. Brotherton, Chairman, Commissioners.

MUSKOGEE.—Messrs. Murphey, Trumbo & Smith will erect \$60,000 building on Okmulgee Ave.

MUSKOGEE.—Commercial Club is considering purchase of site for erection of prepared five-story home.

SHAWNEE.—Plans have been adopted for erection of proposed \$40,000 Elks' home.

PENNSYLVANIA

NORRISTOWN.—Charity Hospital Association has decided to erect home for nurses adjoining institution, at cost of \$20,000. Dr. P. Y. Eisenberg, President.

PENNSBURG.—Architects Savery, Scheetz & Savery, Girard Bldg., Philadelphia, have been commissioned to prepare plans for church for the Schwenkfelder congregation. Cost, \$20,000.

PHILADELPHIA.—Architect E. A. Wilson, Land Title Bldg., will prepare plans for four three-story apartment houses to be erected at Forty-sixth and Walnut Sts.

PHILADELPHIA.—City has purchased site at corner of Belgrade and Huntington Sts. for erection of fire house.

Architect J. C. Fernald, 5533 Wyalusing Ave., has prepared plans for three-story warehouse to be erected on Aspen St.; also for three-story building at Sixtieth St. and Girard Ave.

PHILADELPHIA.—John L. Fry has commissioned E. A. Wilson, architect, Land Title Bldg., to prepare plans for seven three-story houses at Broad St. and Lycoming Ave., together with an operation of two-story houses in the rear.

Plans have been completed for proposed Fairmount Hotel, to be erected at 1229 Chestnut St. Watson & Huckel, 1211 Walnut St., architects.

Architects Rankin, Kellogg & Crane, 1012 Walnut St., have completed plans for erection of \$25,000 banking house at 1512 Chestnut St.

PHILADELPHIA.—University of Pennsylvania is considering erection of architectural building. C. C. Harrison, Provost.

PITTSBURG.—Architect F. L. Schmeltz is preparing plans for erection of seven-story building on Federal St., at cost of \$70,000; same architect is also completing plans for erection of five residences on Beechwood Boulevard, Squirrel. Cost, about \$65,000.

PITTSBURG.—Theatrical Mechanical Association is securing funds for erection of home.

Plans for new garage which McAlister Brothers Motor Company will erect on Baum St., East End, have been prepared by Architects Milligan & Miller, Wilkinsburg. Cost, about \$25,000.

Architect T. E. Bilquist, 341 Sixth Ave., has prepared plans for a brick and stone cottage to be erected for Pennsylvania Reform School at Morgantown.

PITTSBURG.—Bids will be received until noon, January 18, for erection and completion of armory in this city. The W. G. Wilkins Company, Westinghouse Bldg., architects; E. S. Stuart, Harrisburg, President, Armory Board.

SCRANTON.—Plans for several Catholic churches to be built in Southern States by Martin Maloney and Thomas F. Ryan, of New York, are being prepared by Architect E. H. Davis, Connell Bldg., city. Each church is to cost about \$10,000, and they are to be built in parishes where people are too poor to erect churches.

Architect A. I. Hartman, 745 N. Irving Ave., is preparing plans for enlarging building at corner of Cedar Ave. and Wilow St. Cost \$8,000.

SOMERSET.—Baltimore & Ohio Railroad will erect passenger station and freight depot in this city.

UNIONTOWN.—School Board has voted \$125,000 bond issue for high school.

RHODE ISLAND

PAWTUCKET.—Mayor R. A. Kenyon has recommended erection of fire house in South Woodlawn District.

PROVIDENCE.—American Locomotive Co. will erect \$500,000 factory on Kinsley Ave.

TENNESSEE

BRISTOL.—Greeneville Normal Industrial School, colored, is considering rebuilding of burned dormitory, at cost of \$10,000. M. F. Wilson, Financial Agent.

CHATTANOOGA.—Metallic Electric Purification Company will erect plant in this city at once. About \$8,000,000 will be expended. O. S. Brumback, Toledo, O., President.

CHATTANOOGA.—County Judge Walker will ask for \$10,000 appropriation for erection of school building at Bonny Oaks school.

KNOXVILLE.—Plans are being drawn by Architects Patton & Miller, of Chicago, for the new Carnegie library building at University of Tennessee. Cost, \$40,000.

KNOXVILLE.—Plans have been accepted by Appalachian Exposition Committee for erection of proposed building in Chilhowee Park.

PIKEVILLE.—Bledsoe County Court has decided to rebuild court house, at cost of \$10,000. Sylvester Greene, Chairman, Building Committee.

TEXAS

AUSTIN.—E. M. Scarbrough will erect large building at corner of Sixth St. and Congress Ave.

Major G. W. Littlefield will also erect at once an eight-story bank and office building at corner of Sixth St. and Congress Ave.

DALLAS.—Plans have been prepared for erection of sixteen-story office building on Main St. Cost, about \$800,000. Ragan Wofford, Vice-President.

FORT WORTH.—Trustees of Southwestern Baptist Theological Seminary have adopted plans drafted by a local firm of architects for proposed \$150,000 seminary building. Rev. T. F. Norris, city, is interested.

HOUSTON.—Adath Yeshurn congregation is considering erection of club house and home for Jewish Literary Society.

JACKSONVILLE.—Bids will be received for erection of school building until 10 a. m. Jan. 24. A. O. Watson, Austin, architect. J. E. McFarland, Secretary, School Board.

McKINNEY.—Work will soon begin on erection of proposed \$200,000 cotton factory. J. Perry Burrus, President.

PARIS.—Council has accepted plans for proposed union depot. Vice-president C. R. Gray, of Frisco Road, is interested.

QUANAH.—Bids will soon be received for erection of proposed edifice; plans not yet selected. J. R. Henson, Pastor.

WACO.—First National Bank is considering erection of ten-story, \$250,000 building at Fifth and Austin Sts.

UTAH

SALT LAKE CITY.—S. H. Auerbach will erect large department store at State and Third South Sts.

VIRGINIA

FORT MONROE.—Bids will be received until 10 a. m., Jan. 26, for construction, repairs and alterations to old artillery school building. E. R. Tilton, Captain and constructing quartermaster.

WASHINGTON

HOGUAM.—Architects Claude & Starck, Madison, Wis., will prepare plans for \$25,000 library building.

SEATTLE.—T. H. Cann, Chairman of Board of Trustees of Pioneers' Association of Washington, has appointed M. R. Maddocks, George F. Frye and Leander Miller as Building Committee to draw up plans for new building of the association which will be constructed in Madison Park.

SPOKANE.—Andrew Laidlow will erect \$300,000 hotel next spring on Main Ave.

SPOKANE.—Pacific States Telephone and Telegraph Co. will erect office at Crestline and Third Sts. W. F. Teague, Division Superintendent.

SPOKANE.—Peter Nelson will erect \$12,000 brick block at Indiana Ave. and Division St.

Architect Carl Jabelonsky, 439 Peyton Bldg., has completed plans for erection of \$27,000 apartment house on Washington St.

WEST VIRGINIA

WHEELING.—Plans by Architects Geisey & Faris, Schmulbach Bldg., will be adopted for proposed auditorium and market house.

WISCONSIN

SHEBOYGAN.—Board of Public Works will receive plans and specifications until 4 p. m., Feb. 8, for 10-room modern school building.



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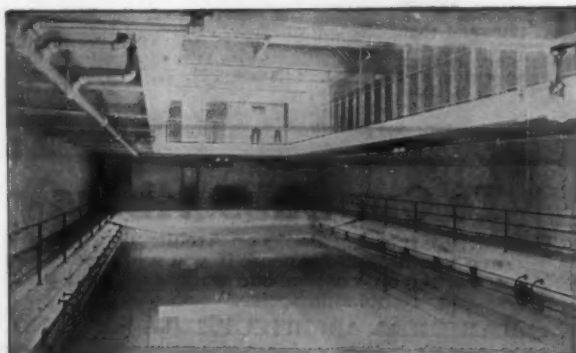
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PROPOSALS

Sealed proposals will be received, addressed to Alexander Corbit, Secretary of the Building Commission, State House, Dover, Delaware, on or before 12 o'clock noon of Monday, January 17, 1910, for additions, alterations and restoration of the State Capitol Building. Proposals to be considered must be accompanied by a certified check equal to 5 per cent. of the bid.

Plans and specifications may be seen at the office of the Secretary of State in the State House, Dover, Delaware.

Contractor desiring to take plans away will be accommodated in sequence of application, provided a deposit of \$5 be left as a guarantee that the documents will be returned on a date within ten days after their receipt; otherwise the deposit will be forfeited.

The Commission reserves the right to reject any or all bids. (1774-5-6-7)

Treasury Department, Office of the Supervising Architect, Washington, D. C., December 28, 1909.—Sealed proposals will be received at this office until 3 o'clock P. M. on the 1st day of March, 1910, and then opened, for the construction (including plumbing, gas piping, heating apparatus, electric conduits and wiring), of an extension to the U. S. Post Office at Hot Springs, Ark., in accordance with drawings and specification, copies of which may be obtained from the Custodian at Hot Springs, Ark., or at this office, at the discretion of the Supervising Architect.—James Knox Taylor, Supervising Architect. (1776-7)

Treasury Department, Office of the Supervising Architect, Washington, D. C., December 29, 1909.—Sealed proposals will be received at this office until 3 o'clock P. M. on the 9th day of February, 1910, and then opened, for the installation of a vacuum cleaning system in the United States Post Office, Court House and Custom House at Spokane, Washington, in accordance with drawing and specification, copies of which may be had at this office or at the office of the Custodian, Spokane, Washington, at the discretion of the Supervising Architect.—James Knox Taylor, Supervising Architect. (1776-7)

Treasury Department, Office of the Supervising Architect, Washington, D. C., December 28, 1909.—Sealed proposals will be received at this office until 3 o'clock P. M. on the 8th day of February, 1910, and then opened, for the extension, remodeling, etc. (including plumbing, gas piping, heating apparatus, electric conduits and wiring, and standard clock system) of the U. S. Post

Office and Court House at Meridian, Miss., in accordance with the drawings and specification, copies of which may be had from the Custodian at Meridian, Miss., or at this office, at the discretion of the Supervising Architect.—James Knox Taylor, Supervising Architect. (1776-7)

Treasury Department, Office of the Supervising Architect, Washington, D. C., December 29, 1909.—Sealed proposals will be received at this office until 3 o'clock P. M. on the 17th day of February, 1910, and then opened, for the construction, including plumbing and drainage, of the United States Post Office and Court House at Denver, Colo., in accordance with drawings and specification, copies of which may be had at this office or at the office of the architects, Messrs. Swartwout & Litchfield, 244 Fifth Avenue, New York City, after January 3rd, 1910, at the discretion of the Supervising Architect. Applications must be accompanied by a certified check for \$250, which will be held at this office until the return of the drawings and specifications.—James Knox Taylor, Supervising Architect. (1776-7)

NOTICE TO CONTRACTORS.

Sealed proposals for furnishing structural steel and iron work, exclusive of erection for the hospital building, for the New York State Reformatory, Elmira, N. Y., and for the structural steel and iron work, exclusive of erection for the mess hall and kitchen, at the Eastern New York Reformatory, Napanoch, N. Y., will be received by Col. Joseph P. Scott, Superintendent of Reformatories, at the New York State Reformatory, Elmira, N. Y., up to 12 o'clock, M., on the 15th day of January, 1910, when they will be opened and ready publicly.

Proposals shall be accompanied by a certified check in the sum of 5 per cent. of the amount of bid, and the contractor to whom award is made will be required to furnish surety company's bond in the sum of 50 per cent. of the amount of contract within 30 days after official notice of award of contract and in accordance with the terms of specifications Nos. 1313 and 1323. The right is reserved to reject any and all bids.

Drawings and specifications may be consulted and blank forms of proposal obtained at the office of the Superintendent, and 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. (1776-7)

NOTICE TO CONTRACTORS.

Sealed proposals for the construction of four cottages for chronic patients, including heating, plumbing and electric work, at Kings Park State Hospital, Kings Park, N. Y., will be received by the State Commission in Lunacy, Capitol, Albany, N. Y., until 3 o'clock P. M., January 26, 1910, when they will be opened and read publicly.

Proposals shall be accompanied by a certified check in the sum of \$10,000, and the contractor to whom the award is made will be required to furnish surety company bond in the sum of \$150,000 within thirty days after official notice of the award of contract and in accordance with the terms of Specification No. 1310. The right is reserved to reject any and all bids.

Drawings and specifications may be consulted and blank forms of proposal obtained at the Kings Park State Hospital, Kings Park, N. Y., at the office of the State Commission in Lunacy, No. 1 Madison Avenue, New York City, and 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.

T. E. McGARR, Secretary,
State Commission in Lunacy.
Dated: Albany, N. Y., Dec. 29, 1909.
(1777-8)



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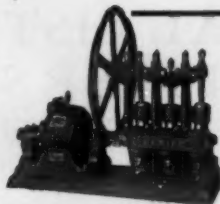
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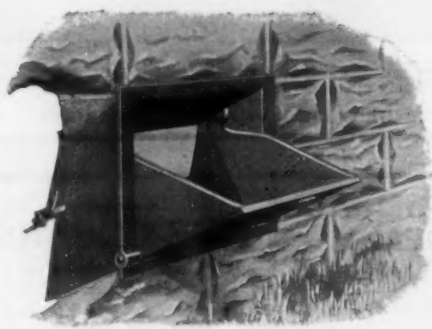
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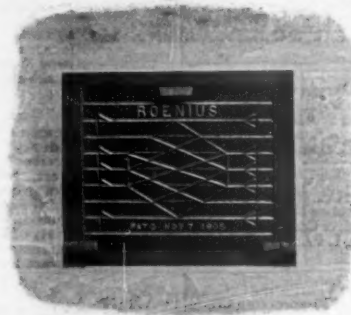
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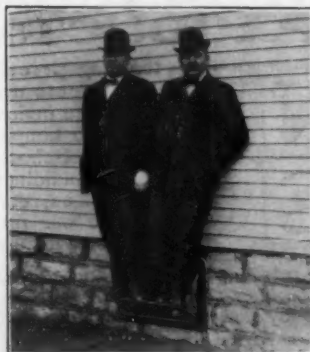
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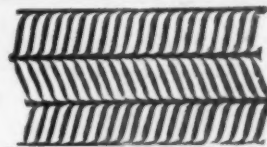


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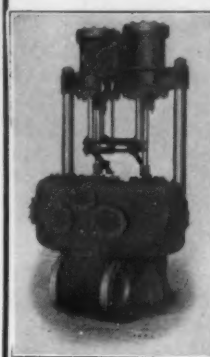
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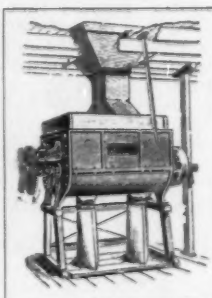
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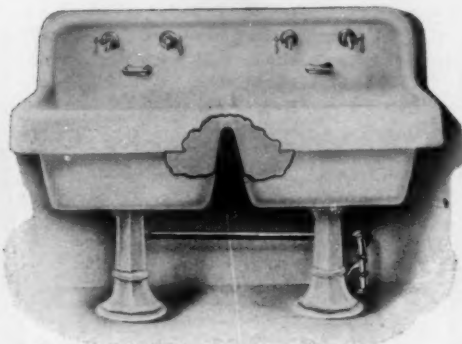


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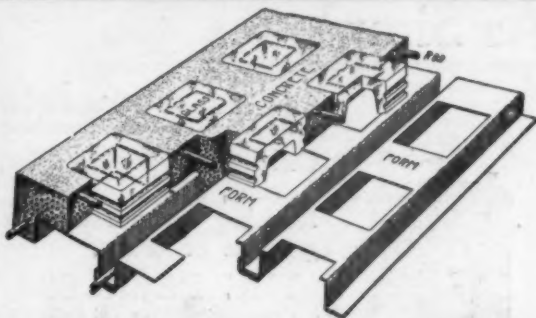
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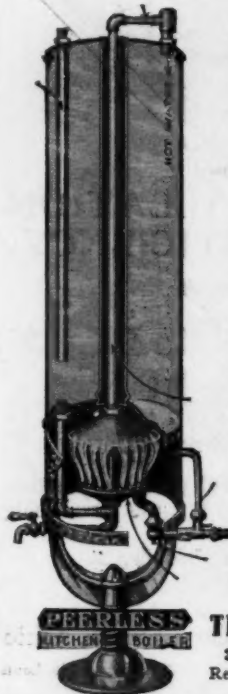
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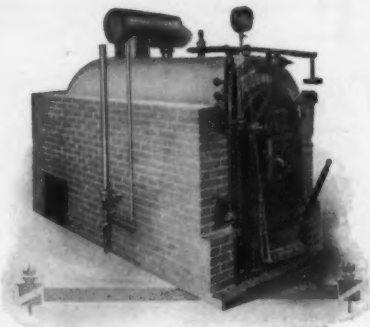
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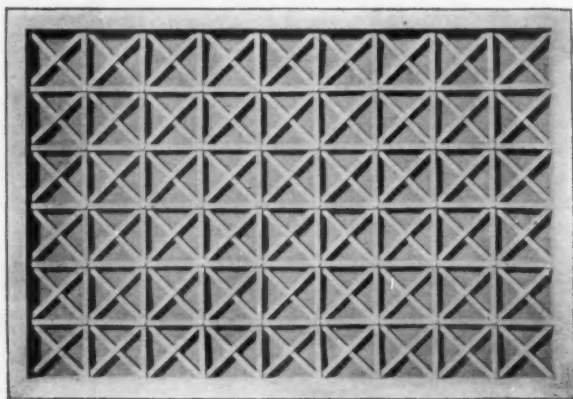
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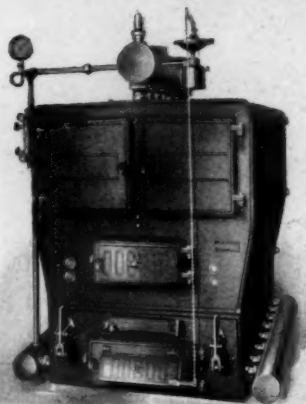


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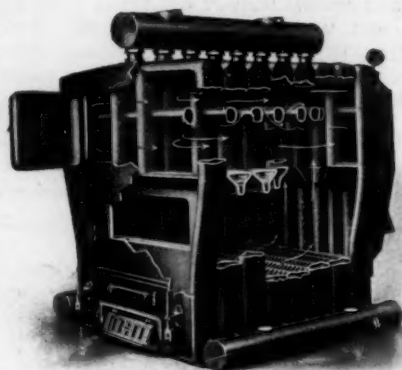
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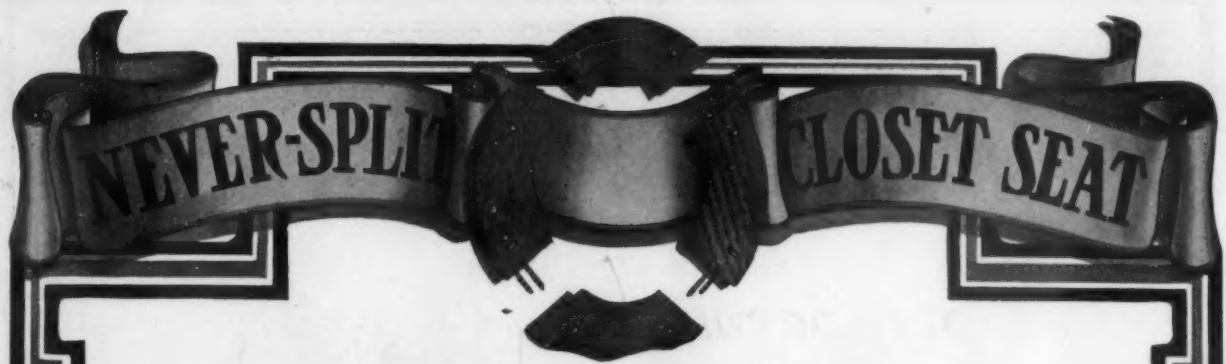


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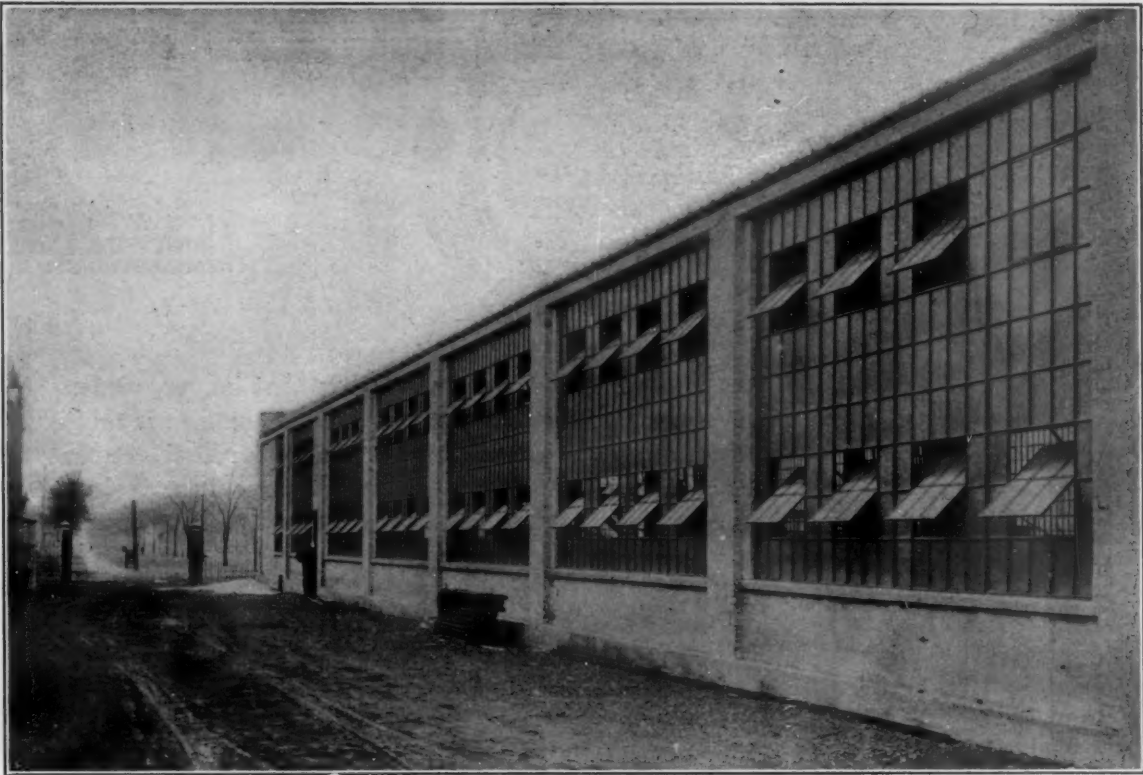
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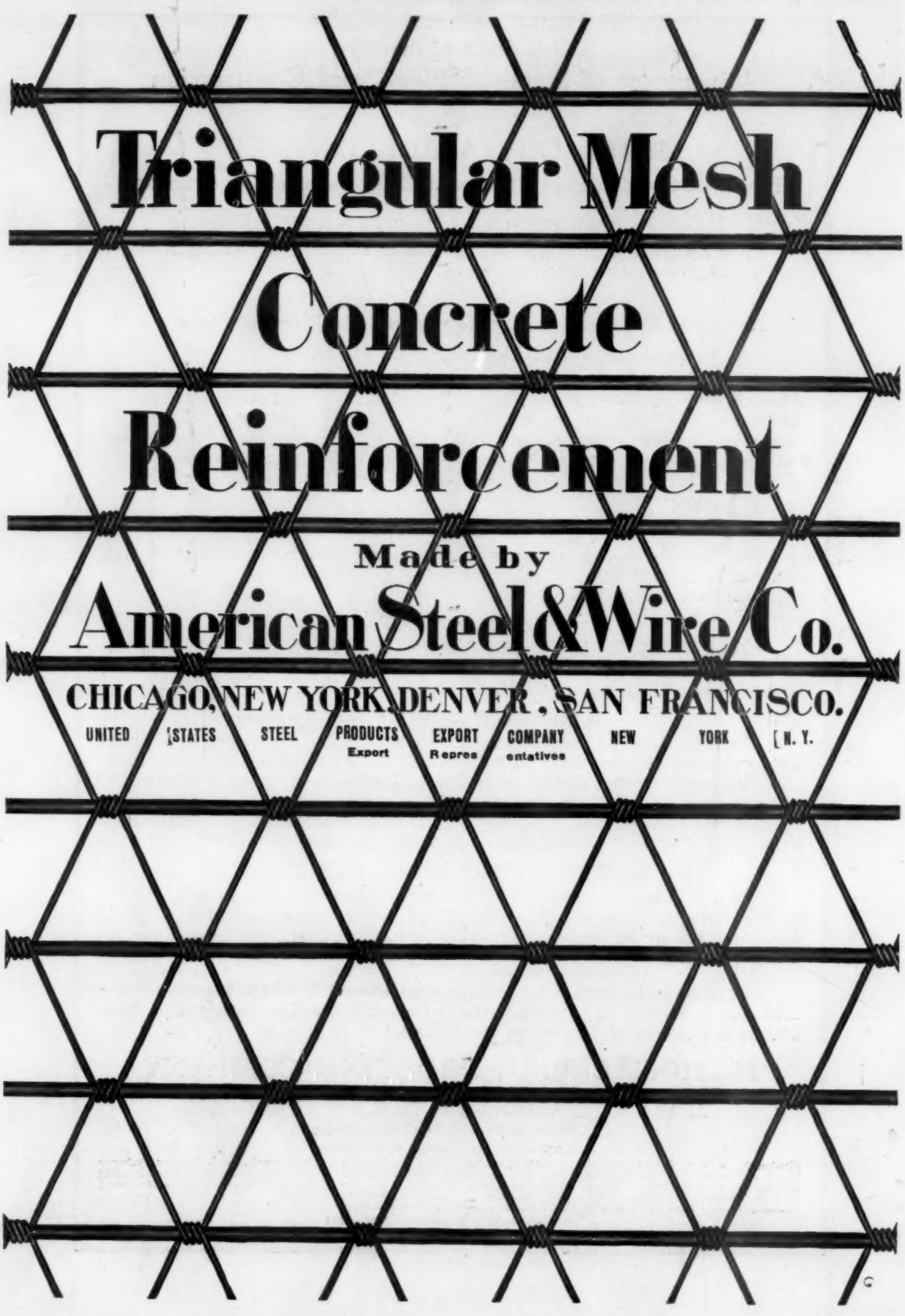
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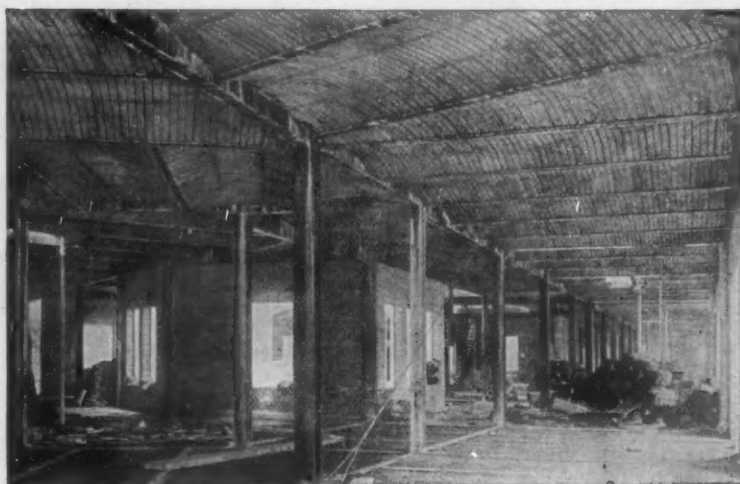
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CURRENT NEWS

ART AND MATHEMATICS

The discussion which followed the reading of Professor Hamlin's paper on "Architectural Education in America," before the R. I. B. A., brought out some interesting divergencies of opinion on the perennial subject of the education of the architect. Mr. T. G. Jackson expressed the somewhat unorthodox view that general culture is by no means a primary necessity for success in the profession of architecture. He contended that the artist is born, not made, and that no amount of learning could supply natural deficiency. That is obviously true enough as far as it goes; but the schools that are powerless to create genius are surely incapable of quenching it. Superlative genius is so rare that we cannot legislate for it, and so forceful that we need not. Yet surely genius has its degrees, in types, and its temperaments, and what would stimulate one type might stifle another; and we would gently hint that the somewhat outworn *nascitur non fit* theory may be easily pushed too far. Mr. Reginald Blomfield, on the other hand, confessed to a preference for the man of general culture—a view that has been consistently supported in these pages. Several of the speakers confessed—perhaps with a dangerous approach towards "the pride that apes humility"—to a lack of the higher mathematics. But would Wren have been a better architect if he had been a born mathematician? Professor Hamlin, in reply, vindicated very thoroughly the system of instruction that he had described. The two years' liberal education, he contended, was a necessary adjunct to the general equipment of the architect. The preliminary course, he contended, was contributory to the actual study of architecture; and in this sense it was an essential factor in the scholarly development of an enduring art. The necessity for mathematical training is doubtless greater in America than in this country, and we must admit that Mr. Jackson hit upon a truth when he hinted that there is certainly some disparity between the artistic and the mechanical mind, Wren's rather rare case notwithstanding. It seems probable that, in this country, in view of the growing adoption of American systems of construction, the American system of architectural education may be very profitably studied and we are very grateful to Professor Hamlin for the exposition of it that he has so clearly set before us.—*Builders' Journal* (London).

SOCIETIES

THE WASHINGTON (D. C.) ARCHITECTURAL CLUB OCCUPIES ITS NEW QUARTERS

Members of the Washington (D. C.) Architectural Club, are regarding with much satisfaction the new quarters on H street, to which this energetic organization has recently moved.

Many plans for the refitting of these quarters have been proposed, and the club has decided to offer a prize of a year's remission of dues, to the member who shall submit the best scheme of decoration.

The present officers of the club are: Percy C. Adams, president; H. S. McAlister, first vice-president; Richard L. Wartmough, second vice-president and patron of the atelier; Charles S. Salin, secretary, and D. J. Lix, treasurer.

TACOMA, WASH., ARCHITECTS TO HOLD AN EXHIBITION

It is reported in the local press that the architects of Tacoma, Wash., will hold an exhibition during March of this year. The Chamber of Commerce has placed their large assembly room at the disposal of the Tacoma Architectural Club, wherein to hold the proposed exhibition.

The committee in charge is now engaged in the formulation of a plan, and it is hoped, with the co-operation of the profession, to present an exhibition of much interest and importance.

SOUTH BEND (IND.) ARCHITECTS ORGANIZE

The architects practicing in South Bend, Ind., and adjacent towns, have organized an architectural club, for mutual benefit and social intercourse. Officers were elected as follows: President, E. R. Austin; vice-president, George W. Selby; secretary-treasurer, Rolland Adelsperger.

COMPETITIONS

THE FULTON MONUMENT AWARD

The names of the ten successful competitors in the preliminary competition for the Water-Gate and Fulton Memorial, which is to be erected in Riverside Drive, between 114th and 116th streets, New York, were announced in our issue of January 12th, 1910.

The jury of award consisted of two architects, Thomas Hastings and George B. Post; two laymen, Robert Fulton Cutting and Isaac Guggenheim, and L. C. Holden as advisory architect.

Each of the ten successful competitors is to receive a prize of \$500.

These ten will be required to submit their final and enlarged designs to the Board on March 1, and the final award will be made a few days later. The winner of the competition will receive a prize of \$3,000, and the other four of the five final selections will receive respectively, \$2,000, \$1,500, \$1,000, and \$500. It is planned to give soon after the final award an exhibition of all the sixty-two designs, as, in the opinion of the committee, they are the most remarkable set of drawings ever submitted for an artistic competition in America.

Mr. Thomas Hastings, of the jury, is quoted as saying:

"I have been on many juries in this country and Europe for twenty years, and I have never seen anything approaching the high character shown in these designs. The conditions of the contest called for the best talent in this country. I do not believe any other country in the world, with the possible exception of France—and I am not sure of that—could make a higher showing in the best standards of art than has

been done by the sixty-two competitors who entered this contest. It marks a great step forward in the art development of America."

Mr. Hastings called attention to the fact that with one exception all of the successful ten in this preliminary competition are Beaux Arts graduates, and have all accomplished high-class work.

THE PITTSBURGH ARCHITECTURAL CLUB COMPETITION

The Pittsburgh Architectural Club, which holds its fifth annual exhibition at Carnegie Institute next month, is inviting anyone so inclined to enter the club's competition in the designing of a concrete house and garage. Cash prizes are offered as follows: First prize, \$250; second prize, \$100; third and fourth prizes, \$50 each, and fifth and sixth prizes, \$25 each, with honorable mention for designs coming close to prize winners. The competition committee of the club is composed of C. A. MacClure, Benno Janssen and Edward B. Lee, the latter being secretary and from whom all prospective competitors can secure full information. The jury of awards will be Edward Stotz, Henry Hornbostal, Henry McGoodwin, J. Beatty Orth and D. E. Allison. No fee is charged entrants in the competition, the prizes being made possible through the liberality of the Universal Portland Cement Company of Pittsburgh. The competition is simply an educational one.

PERSONAL

C. Grant La Farge and Benjamin Wistar Morris, architects, announce the formation of a partnership under the name of La Farge & Morris. Associated with the firm will be Arthur G. Jackson and Duncan Candler. The offices of the firm will be at 23 Madison Square, North, New York.

BOOK NOTE

THE LIVES OF THE BRITISH ARCHITECTS FROM WILLIAM OF WYKEHAM TO SIR WILLIAM CHAMBERS, by E. Beresford Chancellor; 335 pp.; size, 5 x 7½ inches; full cloth; illustrated. Price, \$2, net; New York: Charles Scribner's Sons; London: Duckworth & Co.

In the preparation of this very interesting work, Mr. Chancellor has placed the architectural profession everywhere, in his debt. The period covered, from Wykeham's birth in 1324, to the death in 1796 of Sir William Chambers, includes Inigo Jones, and his celebrated pupil, John Webb; Sir Christopher Wren, Vanbrugh, John Vardy, Robert Morris and the brothers Adam, together with other men, whose names though less familiar to the general reader, have by their work set the impress of their individuality on English architecture.

While a biography of the various architects, the book treats the subjects contemporaneously, and shows the transition of the profession in English, from that of the master builder to the high place in the arts that architecture occupies to-day. Anent the signing of buildings, about which much has appeared in the architectural press, it would appear that this was a much-to-be-de-

sired custom as long ago as Wykeham's time, for the author states in his initial chapter, treating of Wykeham and his predecessors:

"There is a well-known story told in connection with Wykeham's work at Windsor. It is said that on one of the walls of the castle, Wykeham had caused to be cut the words "Hoc fecit Wykeham." The king's attention was drawn to these words, and thinking, perhaps that they denoted too much vainglory in the architect, he complained to him about the circumstance, and showed that he resented it, whereupon Wykeham is said to have replied that the words were not intended to indicate "Wykeham made this," but that "This made Wykeham." This is an inverted reading that might possibly apply to many modern instances.

We unhesitatingly recommend this book as a very desirable part of the architect's library.

CHUTES

The fact that clients welcome perfection of even minor details in house construction is sufficient to guarantee the architect's interest in every new or improved device placed on the market.

Not only is it required that every part of the modern house shall be complete as to its utilities, but it is now understood that in the selection of these utilities certain features must be present to insure satisfaction.

For example, the type of coal chute most often present in the low-cost house up to recent years has been the usual glazed cellar windows whose panes have been broken and whose wooden frame has borne the marks of coal and the prying shovel of the driver of the coal wagon. But, the careful house owner's need for something better and more sightly has caused the Majestic Furnace & Foundry Co., of Huntington, Ind., to design and build a chute that serves in a marked degree every desirable feature that the cellar window lacked.



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The Majestic Furnace & Foundry Co. make chutes for other purposes, wood, vegetables, etc., and they would gladly send their illustrated pamphlets to architects and builders interested.



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BUILDING NEWS

To be of value this matter must be printed in the number immediately following its receipt, which makes it impossible for us to verify it all. Our sources of information are believed to be reliable, but we cannot guarantee the correctness of all items. Parties in charge of proposed work are requested to send us information concerning it as early as possible; also corrections of any errors discovered.

ALABAMA

ALABAMA CITY.—City has decided to erect city hall and jail. Cost, \$6,000.

BAY MINETTE.—Haupton D. Ewing will erect \$7,000 residence.

BIRMINGHAM.—T. H. Moulton is considering erection of building at corner of Fifth Ave. and Twentieth St.

GADSDEN.—Citizens will vote early in February on \$75,000 bonds to erect school.

HUNTSVILLE.—Congregation of First Baptist Church has decided to erect parsonage on West Clinton St.

MONTGOMERY.—Building Committee of Alabama Polytechnic Institute is considering plans for erection of buildings. \$56,500 is available. W. F. Feagin, city, secretary.

ARKANSAS

ARKANSAS CITY.—Special School District will let contract about Feb. 10 for erection of \$25,000 school building. Clyde A. Ferrell, Little Rock, architect; R. W. Smith, President.

CALIFORNIA

ALAMEDA.—Citizens will vote Feb. 12 on \$150,000 bonds for erection of schools.

BAKERSFIELD.—Plans by Architect F. H. Meyer, Humboldt Bank Bldg., San Francisco, have been accepted for proposed \$350,000 court house.

BAKERSFIELD.—Southern Pacific Railroad will soon let contract for erection of \$25,000 club house near Kern depot.

MARYSVILLE.—Chamber of Commerce, Capt. J. R. Foster, president, is urging erection of depot by Southern Pacific Railroad.

PASADENA.—W. H. Lee, Chicago, of Laird & Lee, publishers, will erect number of houses in Pasenda Heights.

REDWOOD CITY.—Council is considering \$5,000 appropriation for erection of city hall.

SAN BERNARDINO.—Savings Bank and Farmers' Exchange Bank are considering erecting jointly bank building at corner of Third and E Sts.

SAN DIEGO.—San Diego Wednesday Club will erect club house. Mrs. Walter Waterman is interested.

SAN FRANCISCO.—Architect A. T. Laib, Russ Bldg., has completed plans for erection of \$30,000 apartment house on Bush St. Plans have been completed by Architect C. A. Meussdorffer, Humboldt Bank Bldg., for erection of \$90,000 apartment house on Sutter St.

A. E. Pulfs will erect \$18,000 apartment house on Broadway. C. M. & A. F. Rousseau, 2200 Pine St., architects.

SAN FRANCISCO.—City has secured site at Masonic Ave. and Hayes St. for proposed Lowell High School.

SAN FRANCISCO.—Schmiedell Estate Company is having plans prepared by Frederick H. Meyer, Humboldt Bank Bldg., for a six-story apartment house at corner of Jones and Post Sts. Cost, \$140,000.

SAN FRANCISCO.—Knights of Columbus have purchased site on Golden Gate Ave. for erection of proposed hall and fraternal building.

SAN LORENZO.—Central California Canneries Association will erect building at once. Plans prepared.

SOUTH PASADENA.—Woman's Improvement Association will erect club house at Fremont Ave. and Rollins St.

WILLOWS.—Board of Education is considering erection of \$40,000 high school.

WILLOWS.—Sacramento Valley Irrigation Co. has decided to at once erect proposed hotel, garage and office building.

COLORADO

DENVER.—J. H. Hall, 1011 Lincoln St., is considering erection of five-story, \$175,000 hotel.

RYE.—Herbert H. Wilson will at once erect hotel in this city.

TRINIDAD.—Architects I. H. & W. M. Rapp & Co. will let contract about Feb. 15 for erection of proposed Masonic Temple.

CONNECTICUT

HARTFORD.—Standard Foundry Co. will erect plant on Hamilton St. C. P. Jones, Boston, is interested.

NEW HAVEN.—New Haven School District will erect addition to Orchard St. school.

PUTNAM.—Citizens have voted \$55,000 bonds for erection of high school.

DELAWARE

DOVER.—State Library Building Commission will receive bids, Jan. 24, extension of time, for erection of proposed library building and restoration of present capitol. Senator Monaghan is interested.

LEWES.—Local Methodists will erect proposed church in spring.

NEWARK.—Architects Ballinger & Perrot, 1211 Arch St., Philadelphia, have completed plans for manufacturing building, storage house, and boiler house for Jacob Thomas Co.

WILMINGTON.—Erection of \$125,000 addition to post office is being considered.

FLORIDA

MARIETTA.—Board of Public Instruction is considering erection of school house at Pickel's Mill.

OCALA.—Crystal Ice, Cold Storage & Canning Co. is considering rebuild of plant destroyed by fire. A. W. Braselton is interested.

WILDWOOD.—Sumter County is considering erection of court house in this city.

GEORGIA

CLAXTON.—Architect J. De Bruyn Kops, 27 E. Bay St., Savannah, will prepare plans for bank and office building for Merchants and Farmers' Bank.

HAZLEHURST.—Board of Education has had plans prepared by Architect C. E. Choate, 629 Candler Bldg., Atlanta, for erection of school.

WAYCROSS.—Government will expend \$125,000 in erection of post office.

IDAHO

TWIN FALLS.—School Board has accepted plans by Architects Wayland & Fennell, Boise, for the erection of \$150,000 high school building.

ILLINOIS

AURORA.—Plans are being prepared by Architect Frank L. Packard, Hayden Bldg., Columbus, O., for ten-room residence for Lee Nighell; cost, about \$12,000.

BLOOMINGTON.—City is considering erection of fire station on West Side.

CHICAGO.—Cook County Board of Directors of the A. O. H. has decided to erect \$35,000 hall at Ogden Ave., Leavitt and Taylor Sts. W. J. Doherty, president.

Michigan Ave. Trust Co. will erect \$50,000 bank building on Michigan Ave. near Twenty-second St. Landon C. Rose is interested.

North Shore Fireproof Storage Co. will erect warehouse on Evanston Ave. near Lawrence Ave.

CHICAGO.—Architect S. N. Crower, 1238 Chicago Stock Exchange, has prepared plans for erection of furniture exchange building at Huron and Erie Sts. for National Furniture Exchange Co.

GALESBURG.—Creve Coeur Club is considering erection of an annex.

PEORIA.—Grand Opera House, destroyed by fire, will be rebuilt. Chas. T. Kindt, Davenport, Ia., is interested.

WOOD RIVER.—Bids will be received about Feb. 1 by Architects L. Pfeifferberger & Son, 102 West Third St., Alton, for erecting two-story, \$20,000 school.

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INDIANA

ANDERSON.—Trustees of Monroe Township, Madison County, will soon receive bids for construction of school building.

FORT WAYNE.—Hanna-Brackenridge Co. will erect \$15,000 addition to its plant.

INDIANAPOLIS.—Board of Health will take up erection of contagious hospital.

NEW ALBANY.—Southern Railroad will erect depot at Corydon Station next spring.

SOUTH BEND.—Bids will be received by the Trustees of the Indiana Ave. Christian Church until Feb. 15 for erection of church. J. D. Kuhn, architect.

IOWA

FORT DODGE.—Liebbe, Nourse & Rasmussen, architects, 724 Walnut St., Des Moines, have about completed plans for erection of \$55,000 Y. M. C. A. building.

DES MOINES.—Commercial Club is planning to erect \$150,000 five-story building at West Eighth and Locust Sts.

Edwin J. Barrick, of Barrick & Son, is planning to build an apartment building at 1423-1425 West Linden St. this spring. Cost, about \$15,000.

IONIA.—Guido Beck, architect, Eighth and Main Sts., Dubuque, has completed plans for erection of \$7,500 parochial school and Sisters' residence. Rev. R. J. Puetz is interested.

LOGAN.—Harrison County has voted \$100,000 bonds for erection of court house.

MARSHALLTOWN.—First Baptist Church will erect \$40,000 edifice next summer.

SIOUX CITY.—St. Peter's Norwegian Lutheran Church is considering erection of parsonage. Paul Iverson, chairman Building Committee.

SIOUX CITY.—Little Crater Co., 409 Fifth St., will erect stove factory in this city.

Morningside College will erect science hall and large dormitory.

OTTUMWA.—Work will begin April 1 on erection of proposed \$225,000 federal building.

WATERLOO.—Geo. E. Lichty and associates are considering erection of \$100,000 flat on Fourth St. East.

KANSAS

EMPORIA.—Bids will be received until 3 p. m. Feb. 15, extension of time, for extension and remodeling of post office. Jas. K. Taylor, Washington, D. C., Supervising Architect.

HAYS.—Bids will be received until 3 p. m., Jan. 28, for erection of model district school building at Western branch of State Normal School. C. H. Chandler, Topeka, state architect.

HUTCHINSON.—Architect A. R. Mann has prepared plans for erection of \$15,000 art hall for Central Kansas Fair Association.

TOPEKA.—Guilford Dudley will erect three-story building at 827 Kansas Ave. Cost, \$15,000. J. C. Holland & Sons, 734 Kansas Ave., architects.

WELLINGTON.—Board of Associated Charities is considering erection of \$25,000 hospital.

WICHITA.—O. M. Wilhite, Midway Hotel, Emporia, will erect \$350,000 hotel at corner of Lawrence and William Sts.

KENTUCKY

HOPKINSVILLE.—Council is considering erection of \$75,000 high school.

PADUCAH.—School Board is considering erection of high school on Kentucky Ave.

Plans are now being drawn by Architect W. L. Brainard for \$25,000 modern apartment house on corner of Ninth and Jefferson Sts.

LOUISIANA

AMA.—Bids will be received Jan. 31 for erection of two-story school house. T. B. Sellers, Secretary, School Board, St. Charles Parish.

MONROE.—Wooten Hyle Implement Co. will erect two-story brick building at Third and Jefferson Sts.

NEW IBERIA.—School Board of Iberia Parish will soon ask bids for erection of \$20,000 high school at Jeanerette.

NEW ORLEANS.—Council is considering erection of branch library at Canal and Dupre Sts.

ST. BERNARD.—Police Jury has appropriated \$7,000 for First Ward School House.

MARYLAND

BALTIMORE.—Architect James E. Maher is preparing plans for modern cottage which Howard W. Ramsay will erect at Cheswolde, Park Heights Ave.

School Board will consider erection of large addition to School 72.

BALTIMORE.—A. T. Katz will erect seventeen two-story houses on Mulberry St. Cost, \$25,000. J. F. Gerwig, 210 E. Lexington St., architect.

Frank Novak will at once erect sixteen two-story brick dwellings on Patuxent St. Cost, about \$24,000. Jos. F. Hirt, architect.

St. Pius Catholic Church, Edmondson Ave. and Schroeder St., will erect \$15,000 school.

BALTIMORE.—Architect F. E. Torrey, Wilson Bldg., has completed revised plans for proposed \$200,000 addition to Mercy Hospital.

Swift & Co., Chicago, are preparing plans for erection of large warehouse at Pratt and Howard Sts.

Architect J. F. Gerwig, 210 E. Lexington St., has completed plans for 95 two-story brick dwellings. Cost, \$125,000.

BALTIMORE.—T. Schneiderman will erect twelve two-story brick houses, cost \$18,000, on Tenth St. J. F. Gerwig, 210 E. Lexington St., architect.

Architect Jacob F. Gerwig has also prepared plans for 10 three-story brick dwellings to be built on Mondawmin Ave. Cost about \$40,000.

Dr. Isaac E. Emerson is considering erection of office building at corner of Lombard and Eutaw Sts. Jos. E. Sperry, Calvert Bldg., probable architect.

CAMBRIDGE.—Improvement of court house is being urged. Former Judge Henry Lloyd is interested.

EASTON.—Talbot County Commissioners are considering \$10,000 appropriation for building addition to Easton High School.

MASSACHUSETTS

GLOUCESTER.—Boston & Maine Railroad is considering erection of station.

Geo. O. Stacey will rebuild Colonial Arms hotel destroyed by fire. \$1,000,000 will be expended.

EVERETT.—Mayor Bruce is favorable to erection of school on Summer St.

FALL RIVER.—Fall River Golf Club is considering erection of \$20,000, two-story club house at Somerset Junction. N. B. Borden, Jr., secretary.

LAWRENCE.—Merrimack Valley Country Club will erect club house at Howard and Pond Sts. W. E. Parker, Chairman, Building Committee.

NEWTON.—Mayor C. E. Hatfield has recommended erection of fire station.

NEW BEDFORD.—Trustees of Industrial School have asked for \$50,000 appropriation for new school.

SPRINGFIELD.—Faith Congregational Church is considering erection of edifice at Ft. Pleasant and Sumner Aves.

MICHIGAN

BAY CITY.—World's Star Knitting Co. has selected plans for proposed six-story building.

GRAND RAPIDS.—Architect C. G. Vierheilg, Houseman Bldg., has completed plans for erection of dormitory for Catholic Seminary. Rev. Fr. Schmitt, Sheldon St., is interested.

KALAMAZOO.—Model Plumbing Co. will erect three-story business block on West Main St.

MINNESOTA

DULUTH.—Architect P. M. Olson, Sellwood Bldg., is preparing plans for \$35,000 building on East Superior St.

Architect W. A. Hunt, Lonsdale Bldg., is preparing plans for erection of \$15,000 residence for Norman McDonald.

Plans have been prepared for erection of \$20,000 edifice for Grace M. E. Church.

GRAND MARAIS.—Cook County will vote Jan. 29 on erection of \$43,000 court house.

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ST. CLOUD.—St. Cloud Improvement Association will erect \$25,000 glove factory for Gordon and Ferguson, of St. Paul.

ST. PAUL.—St. Paul Seminary will erect \$75,000 library on Grand Ave.

TWO HARBORS.—Lake County Farmers' Club is considering erection of storage warehouse.

MISSISSIPPI

JACKSON.—Citizens will vote Jan. 29 on \$30,000 bonds for enlarging school buildings.

MERIDIAN.—Headley Ice Cream Co., Memphis, will establish \$40,000 branch factory.

NATCHEZ.—Knights of Columbus are raising fund for erection of club house.

MISSOURI

KANSAS CITY.—Mrs. Emma J. Meyer will replace building at 1112 Grand Ave. with four-story building.

JONES BROS. Mercantile Co. is considering erection of large warehouse.

ST. JOSEPH.—City will erect fire station at Fourth and Charles St. \$60,000 is available.

NEBRASKA

OMAHA.—Thomas Realty Co. will erect \$100,000 store and office building at corner of Harney and Seventeenth Sts. W. H. Thomas, Oscar Keeline and J. M. Galvin, Council Bluffs, Ia., and W. J. Coad, city, are interested.

Union Pacific will erect large addition to shops.

OMAHA.—Cudahy Packing Co. will erect four buildings. Michael Murphy, Manager, South Omaha plant.

Adams & Kelly Co. will erect \$75,000 addition to plant. G. F. Kelly, President.

Street Commissioner Flynn has asked for erection of central and two other tool houses.

OSCEOLA.—Citizens have voted bonds for erection of high school.

STANTON.—School District No. 3 will vote Jan. 29 on erection of \$25,000 school building.

NEW JERSEY

ATLANTIC CITY.—Seymour Davis & Paul A. Davis, 3d, 1600 Chestnut St., Philadelphia, have been commissioned to design a \$75,000 school.

BRIDGETON.—Board of Education is considering erection of high school.

EAST NEWARK.—First National Bank will erect building on North Fourth St. T. E. Gleeson, president.

ELIZABETH.—Liederkrantz Singing Society will erect large addition to club house at First Ave. and John St.

ELIZABETH.—Plans for a two-story brick extension to the Egenolf Day Nursery are now being prepared by Oakley & Son, architects.

HOBOKEN.—Albert Pflugh & Co., Fourteenth St. and Willow Ave., are considering erection of \$30,000 factory.

JERSEY CITY.—Architect Wm. H. McElpatrick, Knickerbocker Theater Bldg., New York City, is preparing plans for erection of theater at Summit Ave. and Cottage St.

S. Hershenstein, 314 First St., will erect apartment house at corner of Bergen Ave. and Oak St. Cost \$50,000.

Mrs. Mary J. Opdyke, 734 Ocean Ave., will erect \$10,000 home at corner of Boulevard and Montgomery St.

JERSEY CITY.—German Hospital and Dispensary Association has decided to have preliminary plans prepared for erection of hospital. Dr. J. M. Rector is interested.

KEARNY.—Board of Education will consider erection of school in First Ward.

LAMBERTVILLE.—Mayor Ledger has recommended erection of city hall at York and George Sts.

LINDEN.—Erection of school building is being considered. W. H. Roll, President, Board of Education.

NEWARK.—Messrs. Eisele & King will erect \$12,000 brick warehouse at 46-52 Clifton St., after plans by Nathan Myers, 238 Washington St.

NEWARK.—A. Cyphers Company, 67 Nesbitt St., is considering rebuilding of plant destroyed by fire. F. V. Cyphers, president.

NEWARK.—Architects Backoff & Hughes, 22 Clinton Ave.,

have completed plans for erection of \$15,000 residence at Delavan Ave. and Ridge St. for R. V. Gibson.

Architect W. E. Lehman, 738 Broad St., has prepared plans for erection of \$50,000 apartment house at Broad and Murray Sts.

Plans have been completed by Architect F. A. Phelps, 15 Clinton Ave., for erection of \$26,000 dwelling at corner of Clifton and Dalavan Aves.

ORANGE.—Fire Chief Matthews has recommended erection of fire house in vicinity of Tremont and Berkeley Aves.

PATERSON.—Paterson Refrigerating & Warehouse Co. will erect large cold storage plant on Slater St.

TRENTON.—Governor Franklin Fort has recommended \$100,000 appropriation for erection of building to house State Courts and library.

NEW HAMPSHIRE

MANCHESTER.—Club Joliet will erect \$29,000 club house from plans by A. R. Dubuc.

RUMNEY.—Town will replace school building destroyed by fire.

NEW MEXICO

DEMING.—City is considering erection of high school.

VAUGHN.—M. A. Cork will erect residence at once.

NEW YORK

ALBANY.—West End Association is urging erection of proposed high school in Beaverwyck Park.

BROOKLYN.—Adam Mann, 305 Grove St., will erect four-story \$10,000 shop and storage building on Myrtle Ave.

Ascutney Realty Co., Ave J, will erect \$8,500 dwelling on Ave. J.

BROOKLYN.—J. Scholl, 12 Simpson St., will erect three two-story brick dwellings, cost, \$10,500, on Railroad Ave.

Eight two-story dwellings, cost, \$28,000, will be erected on Washington Ave. for E. R. Strong Co., 1020 Coney Island Ave.

O'Brien Realty Co., 110 Ocean Parkway, will erect four three-story brick dwellings on Fort Hamilton Ave. Cost, \$26,000.

BROOKLYN.—L. A. Brennan, 1625 East Fifteenth St., will erect six two-story dwellings, cost, \$39,000, on East Twelfth St. Jeremiah Whelan, Ave. A and Utica Ave., will erect \$6,000 dwelling on Ave. N.

Two two-story dwellings, cost, \$6,000, will be erected on Brooklyn Ave. for W. B. Rogers and E. T. Salomons, 257 East Thirty-first St.

American News Co., 11 Park Place, Manhattan, will erect business building at 47 Debevoise St.

BROOKLYN.—School Board will erect \$100,000 school house on Old House Landing Road.

BROOKLYN.—I. Welton, 1233 Forty-sixth St., will erect two three-story brick dwellings at Forty-first St. and Twelfth Ave. Cost, \$8,500.

J. Church, 1344 Jefferson Ave., will erect \$8,000 dwelling on McDonough St.

Eight two-story brick dwellings, cost \$18,400, will be erected on Hubbard Place for Hubbard Alton Co., 189 Montague St.

BROOKLYN.—A. W. Debevoise, Jamaica, L. I., will erect \$12,000 dwelling on Ocean Ave.

Seven two-story brick dwellings, cost \$28,000, will be erected on Union St. for Beatrice Realty and Construction Co., 382 Stone Ave.

BUFFALO.—Buffalo Yacht Club has decided to erect \$15,000 home at Point Abino. Green & Wicks, 110 Franklin St., architects. Edw. Michael, commodore.

CORNWALL.—New York Military Academy will rebuild buildings destroyed by fire. Col. S. P. Jones, superintendent.

ELMIRA.—Ironwear Hosiery Co. will erect \$50,000 factory on Oak St.

JAMESTOWN.—Citizens have voted \$100,000 bonds for erection of three school houses.

KINGS PARK.—Bids will be received until 3 P. M. Jan. 26, by State Commission in Lunacy, Capitol, Albany, N. Y., for construction of four cottages for chronic patients at Kings Park Hospital. T. E. McGarr, Secretary.

LOCKPORT.—Lockport Light, Heat & Power Co. will erect four-story office building on Main St.

MOUNT VERNON.—City will erect \$100,000 high school.

Plans have been prepared for erection of \$65,000 three-story building to hospital on Valentine St.



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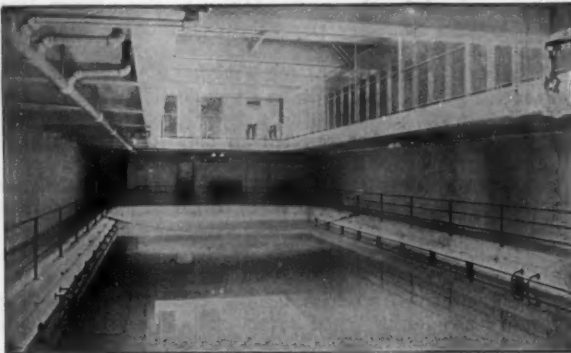
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NEW YORK.—City will erect \$300,000 school on 196th St. C. B. J. Snyder, city architect.

Morris Levin will erect \$100,000, six-story apartment house at Broadway and 153d St. Emery Roth, 20 East Forty-second St., architect.

Chas. Volz, 160 Fifth Ave., as architect for Robert Burns Realty Co., has filed plans for erection of twelve-story loft at 67 Irving Place. Cost, \$120,000.

Art Students' Inn, Inc., will erect twelve-story hotel at corner of Claremont Ave. and 120th St. Cost, \$250,000. Emery Roth, 20 East Forty-second St., architect.

NEW YORK.—Architect E. J. Clark, 155 E. 23d St., has filed plans for erection of three-story \$30,000 brick stable on 119th St.

Lane Realty Co., Inc., 8 Wooster St., will erect six one-story stores and dwellings on Hunt's Point Road. Cost, \$12,000. Cohn Bros., 474 Rockaway Ave., Brooklyn, architects.

A. L. Merritt, 331 W. 83d St., will erect two two-story brick stores and dwellings on Loring Place. Cost, \$8,000. B. H. Simonson, 315 Fifth Ave., architect.

NEW YORK.—H. T. Bulman, 21 Fort Washington Ave., will erect two six-story apartments on St. Nicholas Ave. Cost, \$250,000. Schwartz & Gross and B. N. Marcus, 347 Fifth Ave., architects.

E. N. Borgenfrei, 1993 Boston Road, will erect \$20,000 garage on Southern Boulevard. B. Ebeling, 1136 Webster Ave., architect.

NEW YORK.—J. E. Scharsmith, 1 Madison Ave., will erect \$30,000 brick store and office on 146th St.; also five two-story dwellings, cost, \$32,000, on Verio Ave. Plans prepared.

NEW YORK.—Silberman & Schaff, 38 Canal St., will erect \$25,000, six-story store and lofts on Eldridge St. M. Muller, 115 Nassau St., architect.

Thirteenth St. Presbyterian Church is considering erection of rectory. Rev. Jas. Hoadley, associate pastor.

Plans for the erection of edifice for Unity Unitarian Church, in Irving Place, near Gates Ave., have been completed; work will begin in spring; cost, \$50,000. E. A. Dennison, 475 Fifth Ave., architect.

NEW YORK.—Riverside Drive Viaduct Realty Co., 608 W. 111th St., will erect \$250,000 eight-story flat on 111th St. Mulliken and Moellen, 103 Park Ave., architects.

J. L. Davies, 1388 Tiller Ave., will erect \$6,500 dwelling on Tiller Ave. M. J. Garvin, 3307 Third Ave., architect.

Plimpton Construction Co., 2834 Valentine Ave., will erect two two-story dwellings, cost \$11,500, on Plimpton Ave. J. J. Vreeland, architect.

ONEIDA.—Board of Education will at once secure plans for erection of school in Fifth Ward. Total cost, \$43,000.

ROCHESTER.—Rochester Box Co. will erect factory on Rutter St.

ROCHESTER.—Board of Directors of Mechanics Institute has granted permission to the Bevier Memorial Art Building Committee to go ahead with plans for proposed structure.

SCHENECTADY.—Tabernacle Baptist Church will erect \$40,000 edifice at State and Robinson Sts. Rev. W. J. Quincy, Pastor.

SYRACUSE.—Architect A. L. Brockway, Syracuse Savings Bank Bldg., has prepared plans and will let contract Feb. 15 for erection of business block on West Water St.

SYRACUSE.—Holy Trinity Church will erect \$50,000 edifice on Park St. C. M. Hirschfelder and C. W. Eldredge, Rochester, architects.

SYRACUSE.—Jas. V. Washbourne will erect fireproof factory building on West Newall St.

SYRACUSE.—H. H. Gray's Sons will erect six-story shoe factory at North Salina and Salt Sts.

NORTH CAROLINA

RALEIGH.—Auditorium Committee will soon advertise for bids for erection of proposed building. C. E. Johnson, Chairman.

OHIO

AKRON.—Taplin-Rice-Clerkin Co. will erect \$50,000 plant. Wm. Clerkin, President.

CINCINNATI.—American Printing Ink Co. has had plans prepared by Architect C. M. Foster, Johnston Bldg., for erection of two-story addition to plant.

CLEVELAND.—C. F. McLaughlin will erect six-story, \$100,000 factory in rear of 6104 Euclid Ave.

COLUMBUS.—Franklin County Commissioners are considering erection of \$300,000 addition to court house.

ELYRIA.—Architect O. K. Staph, Rose Bldg., Cleveland, has prepared plans for erection of one-story factory and two-story office building for American Pump Co.

LIMA.—Trinity M. E. Church is considering erection of \$50,000 edifice.

MIDDLETOWN.—J. J. Ryan, Cincinnati, and L. T. Martin, city, will erect large theatre on Main St. during spring.

NORWOOD.—Bids will be received until Feb. 1 by Building Commissioners for erecting a modern church edifice with a seating capacity of 1,200 persons, at Slane and Elsmere Aves. John S. Sharman, 611 Johnston Bldg., Cincinnati, can be addressed.

TOLEDO.—Maumee Boat Club is considering erection of club house. M. E. Van Dusen is interested.

WILMINGTON.—Citizens have voted \$40,000 bonds for erection of high school.

YOUNGSTOWN.—Y. M. C. A. Trustees are considering erection of larger home.

OKLAHOMA

ARDMORE.—Confederate Home Building Committee will at once advertise for bids for erection of proposed home.

LAWTON.—Bids will be received until Feb. 2 for erecting a 10-room school for the north addition to city. Frank Pierce, First Assistant Secretary Department of Interior, Washington, D. C.

MUSKOGEE.—State School for Training Young Women will be erected near Agency Park by Executive Board of Methodist Church, South. \$200,000 will be expended on buildings.

MUSKOGEE.—City has rejected all bids for erection of two fire stations; plans will be revised by C. J. Duffy, architect.

OKLAHOMA CITY.—R. M. Conway and Louis Rosenbaum will erect three-story apartment house at corner of Fifth and Harvey Sts.

OREGON

McMINNVILLE.—Architects Kroner & Henn, Portland, will prepare plans for proposed \$40,000 school. Contract awarded Feb. 15.

PORTLAND.—Spencer-McCain Company is preparing plans for two residences to be built on Brice Ave., Alameda Park, for Mrs. Hannah H. King.

PENNSYLVANIA

ALTOONA.—Board of Education has asked for \$7,500 for employment of architect to draw plans for School No. 12 and for preliminary expenses. J. J. Cain, mayor.

ALTOONA.—School Board will purchase site in Tenth Ward for future school building.

AMBLER.—First National Bank Co. will enlarge its building.

CHESTER.—Prospect Lodge No. 587, F. & A. Masons, will erect \$10,000 hall.

CHESTER.—Felton Fire Co. is considering erection of engine house.

EASTON.—Architect Horace Trumbauer, Land Title Bldg., Philadelphia, is designing a \$25,000 residence for F. S. Williams.

GLASSPORT.—St. Cecelia's R. C. congregation will at once erect \$30,000 parochial school. Clepper & Moffitt, 108 Smithfield St., Pittsburg, Architects.

JOHNSTOWN.—The Chas. F. Kress estate will at once erect two-story business block on Washington St.

LONSDALE.—City will erect \$30,000 public school.

Ludwig Kaelin will erect cigar factory on Pierce St.

McKEESPORT.—Baltimore & Ohio Railroad has had plans prepared for \$80,000 passenger station.

MEADVILLE.—Crawford Dairy Co. will erect modern pasteurizing plant on Water St. Cost, \$20,000.

PHILADELPHIA.—Milligan & Webber, 520 Walnut St., have been commissioned to design a \$100,000, six-story, bachelor apartment building at No. 3711 Chestnut St. for a syndicate of West Philadelphia capitalists.

Architects McIlvain & Roberts, Land Title Bldg., are preparing plans for \$30,000 stone residence and garage at St. David's for George L. Justice, and for ten houses, cost, \$100,000, at Merion, for Edward K. Johnson.

PHILADELPHIA.—W. R. Leeds Republican Association will erect club house at 1627 Arch St.

PHILADELPHIA.—Architect Wesley Lesley Blithe, 608 Chestnut St., is designing a residence at Ardmore for W. T. Abel.

PHILADELPHIA.—Architects Milligan & Webber, 520 Walnut

CUTLER MAIL CHUTE PATENTS SUSTAINED

The U. S. Circuit Court for the Eastern Division of the Eastern District of Missouri, in a decision rendered January 10th, 1910, has fully sustained all our claims and ordered the issuance of an injunction restraining the defendant, the U. S. Mail Chute Equipment Company of St. Louis, Mo., from making, using or selling infringing chutes, and requiring it to pay to us the profits, costs and the damages which we have suffered.

We also brought two other suits against the Maryland Hotel Company in St. Louis, Mo., which had installed infringing chutes, in order to fully test the question of the liability of the owner of the building, and these cases were heard at the same time, and it was decided that the owner of the building is liable notwithstanding the fact that the Post Office Department collects the mail from the box at the lower end.

CUTLER MAIL CHUTE COMPANY,
CUTLER BUILDING, ROCHESTER, NEW YORK.

St., are preparing plans for \$200,000 apartment house for Meyer Rosenstein at corner of Forty-fourth and Walnut Sts.

Brockie & Hastings, 328 Chestnut St., have prepared plans for erection of colonial house and garage on Broughton Lane, Villanova.

American Catholic Union will erect building at 1623 Arch St. PHILADELPHIA.—Trustees of the West Philadelphia Y. M. C. A. are considering erection of larger building. Dr. Jos. H. Noble will have charge of matter. on Baum St.

PITTSBURG.—Milligan & Miller have plans for \$25,000 garage Springdale General Hospital Association will erect hospital building.

PITTSBURG.—W. W. Willock will erect \$200,000 home on Beechwood Boulevard. Hiss & Weeks, 1123 Broadway, New York City, architects.

READING.—Berks County Trust Co. will erect bank building. READING.—Erection of \$150,000 Y. M. C. A. building is being considered.

READING.—Calvary Reformed Church will add \$35,000 annex. SCRANTON.—T. M. Miller Casket Co., Penn Ave., will erect seven-story factory on Wyoming Ave. M. T. Miller, president.

SCRANTON.—Church of Good Shepherd is considering erection of edifice at corner of Electric St. and Washington Ave.

STEELTON.—Hygienic Hose Co. is urging erection of engine house.

SYNDERTOWN.—Odd Fellows will erect hospital, school and chapel at orphanage.

SOUTH DAKOTA

DELL RAPIDS.—Odd Fellows have had plans prepared for erection of proposed home.

PIERRE.—Erection of \$40,000 high school is being considered.

TENNESSEE

CHATTANOOGA.—Architect R. H. Hunt, News Bldg., has been selected to prepare plans for proposed fourteen-story building for Hamilton National Bank.

JOHNSON CITY.—First Baptist Church will erect \$30,000 edifice. Proposed First Presbyterian Church will cost \$35,000.

TEXAS

AUSTIN.—State Board of Education has finally approved plans of Waller, Shaw & Fields, of Fort Worth, for new West Texas Normal building; contract for the construction of the building, which is to cover about \$100,000, will be awarded Jan. 29, 10 a. m.

BALLINGER.—Business League is interested in erection of cotton mill.

BEAUMONT.—City is considering erection of \$35,000 school.

DALLAS.—Koon Kree Klub will erect club house on Andens Lake.

DALLAS.—County Commissioners are considering erection of suitable buildings at Hutchins.

Citizens will vote Jan. 25 on \$100,000 school bonds.

EL PASO.—Henning Bruhn will erect ten-story building at corner of San Antonio and South Stanton Sts.

EAGLE PASS.—Bids will be received by Supervising Architect Jas. K. Taylor, Washington, D. C., for erection of proposed federal building. \$43,000 is available.

PORT ARTHUR.—Architect C. A. Logan will prepare plans for apartment house to be erected at corner of Proctor St. and Shreveport Ave.

PORT ARTHUR.—Armour Packing Co., Chicago, will erect cold storage plant on Houston Ave.

HOUSTON.—J. O. Ross has had plans prepared for erection of seven-story apartment house at corner of Fannin St. and McKinney Ave.

LAREDO.—School Board will receive bids about Feb. 1 for erecting a two-story and basement brick school. Cost, \$20,000. Sutherland & Co., architects.

ROTAN.—Citizens have voted \$15,000 bonds for erection of city hall and other improvements.

SPUR.—S. M. Severson & Sons will erect \$35,000 hotel.

SULPHUR SPRINGS.—Contract will be at once awarded for erection of \$12,000 Carnegie Library on Depot St.

TEMPLE.—Election of \$100,000 school bonds is being considered.

TEMPLE.—Temple Stags' Association will purchase site on First St. for erection of auditorium.

UTAH

SALT LAKE CITY.—C. L. Rood has had plans prepared for erection of \$20,000 home at Thirteenth East St.

SALT LAKE CITY.—Orson H. Hewett will erect \$10,000 apartment house on Seventh South St.

VERMONT

BURLINGTON.—Hotel Burlington and Walker Block, destroyed by fire, will be rebuilt.

MIDDLEBURY.—Building Committee of Middlebury College Corporation has decided to erect proposed dormitory for women on Battell Campus.

VIRGINIA

DANVILLE.—First Presbyterian Church will soon erect proposed \$60,000 edifice at corner of Main St. and Sutherland Ave. Baptist Educational Committee of Virginia has decided to erect \$60,000 woman's college in this city.

LYNCHBURG.—McLoughlin, Pettit & Johnson are preparing plans for erection of edifice for Cabell St. Baptist Church at Rivermount and Bedford Aves. Rev. O. E. Sams, pastor.

NORFOLK.—Architect B. F. Mitchell, Seaboard Bank Bldg., is preparing plans for erection of \$20,000 residence on Raleigh Ave.

ROANOKE.—Citizens will vote on \$100,000 bonds for school and \$285,000 for city hall, police station and jail.

WASHINGTON

BREMERTON.—Bids will be received until 11 A. M. Feb. 19, by R. C. Hollyday, Chairman of Bureau of Yards and Docks, Washington, D. C., for constructing three officers' quarters at Navy Yard, Puget Sound.

EVERETT.—Dr. Geo. Powell, La Cross, Wis., will erect four-story business block on Colby Ave. D. A. Duryee, city, is interested.

OLYMPIA.—W. H. Kneeland will erect annex to Olympia Hotel.

SEATTLE.—Grote-Rankin Co. will erect large warehouse at corner of Terry Ave. and Thomas St.

Standard Furniture Co. is considering erection of warehouse near Terry Ave.

SEATTLE.—Beacon Hill Congregational Church will erect \$10,000 edifice at corner of Sixteenth Ave., S and Forest Sts.

Architect Ellsworth Story, New York Block, will prepare plans for erection of \$18,000 church in Denny-Blaine Park addition. G. W. Dilling, Chairman, Building Committee.

SPOKANE.—Marie Reiff will erect \$20,000 brick apartment and store building at corner of Maple and Broadway.

TACOMA.—Oregon & Washington Railroad will erect large terminal shops in this city; \$1,000,000 will be expended. J. D. Farrell, general manager.

SPOKANE.—T. E. Maloney and Dix Davenport will erect three-story store and apartment house, cost \$30,000, on corner of Second Ave. and Walnut St.

Architects Heath & Twichell, Fidelity Bldg., will prepare plans for addition to the three-story block at corner of C and Eleventh Sts.

Pacific Coast Match Co. will erect factory. Henry Hewitt, President.

VANCOUVER.—George G. Piel and O. A. Cates, Elite Laundry, will construct three-story, \$10,000 brick block.

WENATCHEE.—Odd Fellows will erect three-story, \$15,000 building.

WISCONSIN

EAU CLAIRE.—Sacred Heart Congregation has decided to erect \$30,000 school.

MILWAUKEE.—W. Carby's Zimmerman, 17 Van Buren St., Chicago, Ill., has been engaged to prepare a programme for competing architects for proposed \$225,000 police station to be erected on Broadway.

WEST VIRGINIA

CHARLESTON.—Architect Wilbur T. Mills, McCune Bldg., has completed plans for \$10,000 residence for Mrs. John Cotton.

ELM GROVE.—First National Bank will erect building this year.

KEYSER.—School Board will erect school in South Keyser.

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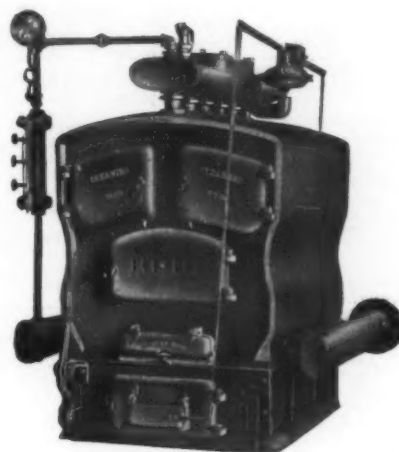
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POSITION WANTED by graduated and experienced architectural draughtsman and designer. Address 78A, care of American Architect. (1778)

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PROPOSALS

NOTICE TO CONTRACTORS.

Sealed proposals for the construction of four cottages for chronic patients, including heating, plumbing and electric work, at Kings Park State Hospital, Kings Park, N. Y., will be received by the State Commission in Lunacy, Capitol, Albany, N. Y., until 3 o'clock P. M., January 26, 1910, when they will be opened and read publicly. Proposals shall be accompanied by a cer-

tified check in the sum of \$10,000, and the contractor to whom the award is made will be required to furnish surety company bond in the sum of \$150,000 within thirty days after official notice of the award of contract and in accordance with the terms of Specification No. 1310. The right is reserved to reject any and all bids.

Drawings and specifications may be consulted and blank forms of proposal obtained at the Kings Park State Hospital, Kings Park, N. Y., at the office of the State Commission in Lunacy, No. 1 Madison avenue, New York City, and 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.

T. E. McGARR, Secretary,
State Commission in Lunacy.
Dated: Albany, N. Y., Dec. 29, 1909.
(1777-8)

Sealed proposals will be received, addressed to Alexander Corbit, Secretary of the Building Commission, State House, Dover, Delaware, on or before 12 o'clock noon of Monday, January 24, 1910, for additions, alterations and restoration of the State Capitol Building. Proposals to be considered must be accompanied by a certified check equal to 5 per cent. of the bid.

Plans and specifications may be seen at the office of the Secretary of State in the State House, Dover, Delaware.

Contractor desiring to take plans away will be accommodated in sequence of application, provided a deposit of \$5 be left as a guarantee that the documents will be returned on a date within ten days after their receipt; otherwise the deposit will be forfeited.

The Commission reserves the right to reject any or all bids. (1774-5-6-7)

Treasury Department, office of the Supervising Architect, Washington, D. C., January 13, 1910.—Notice is hereby given that the time for opening bids for the construction (including plumbing, gas piping, heating apparatus, electric conduits and wiring) at the United States Post Office, Henderson, North Carolina, has been extended from January 17, 1910, to 3 o'clock p. m., February 13, 1910.—James Knox Taylor, Supervising Architect. (1778)

Treasury Department, Office of the Supervising Architect, Washington, D. C., January 7, 1910.—Sealed proposals will be received at this office until 3 o'clock p. m., on the 18th day of February, 1910, and then opened, for the construction (including plumbing, gas piping, heating apparatus, electric conduits and wiring), of the laundry and attendants' quarters, U. S. Marine Hospital, Louisville, Ky., in accordance with drawings and specification, copies of which may be had from the Custodian at Louisville, Ky., or at this office at the discretion of the Supervising Architect.—James Knox Taylor, Supervising Architect. (1778-9)

Treasury Department, Office of the Supervising Architect, Washington, D. C., January 8, 1910.—Notice is hereby given that the time for opening bids for the extension, remodeling, etc., of the United States Post Office at Emporia, Kansas, has been extended from January 14, 1910, to 3 o'clock P. M., February 15, 1910.—James Knox Taylor, Supervising Architect. (1778-9)

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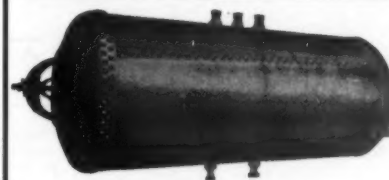
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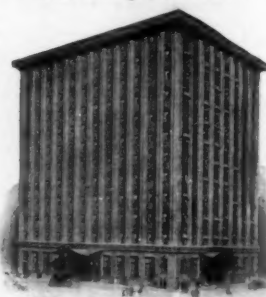
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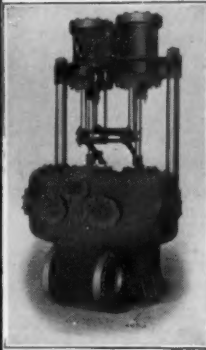
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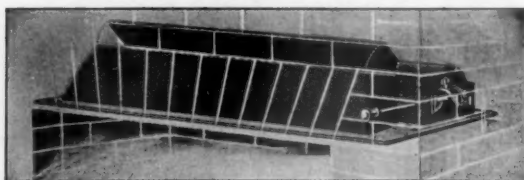
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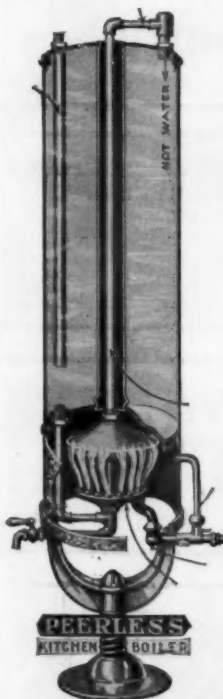
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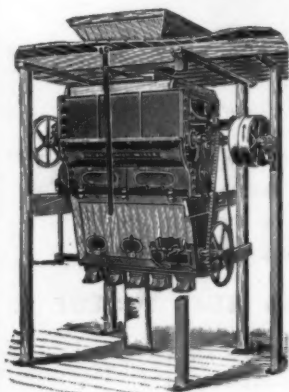
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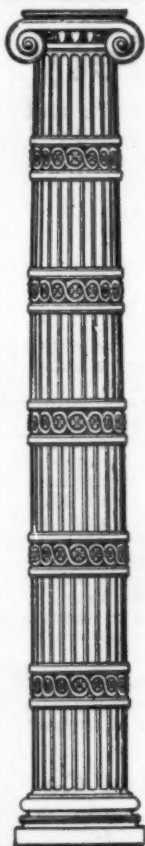
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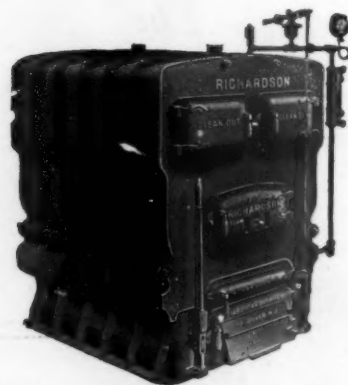
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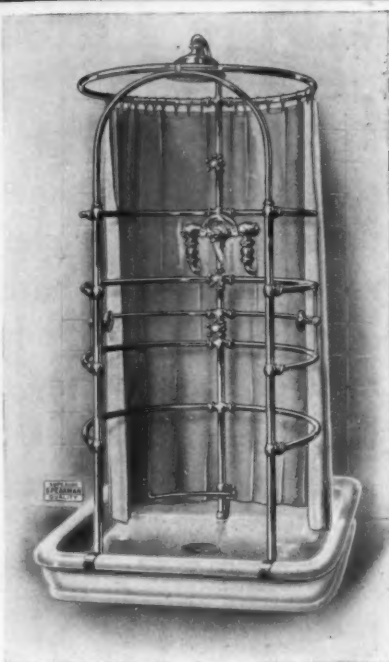


FIGURE 1020

Figure 1020 Speakman's Needle Bath with No. 1 Non-Scalding Regulating Valve (Patented), Strainer Unions, Liver Sprays, Bidet and White Duck Curtain

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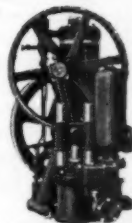


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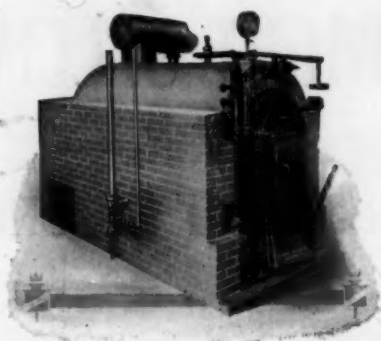
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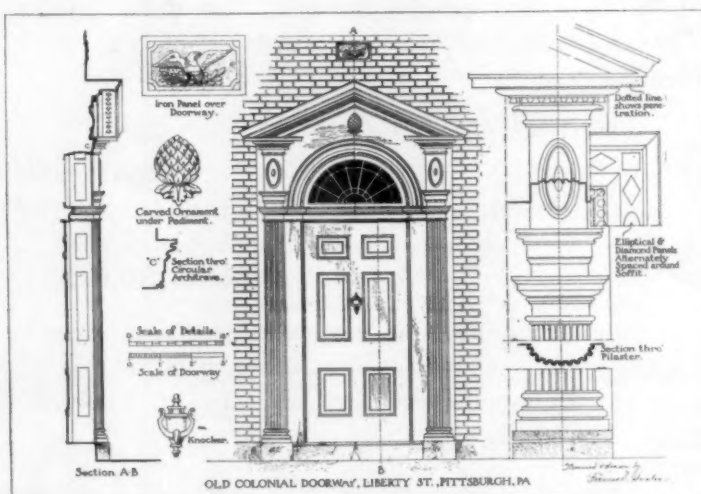
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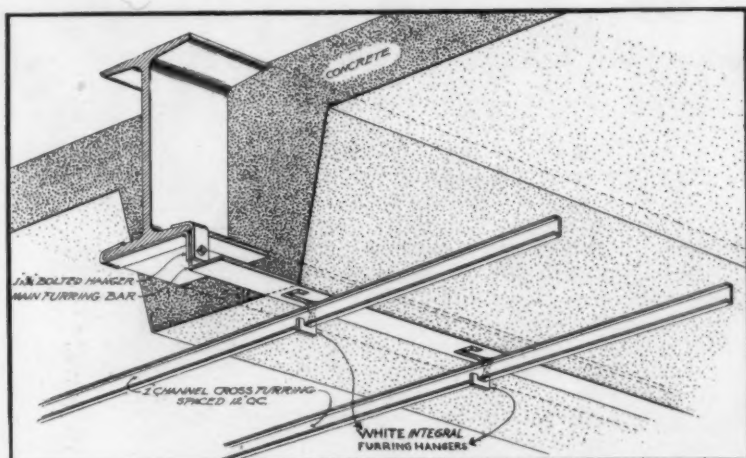
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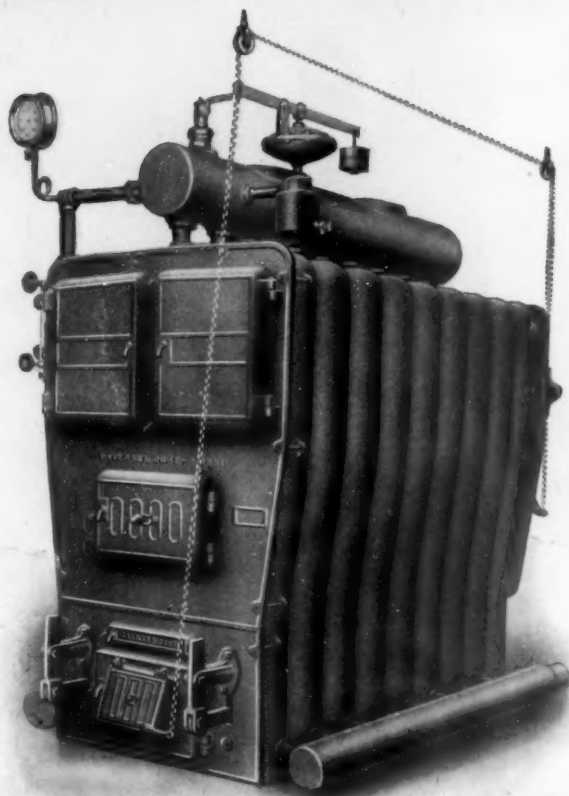


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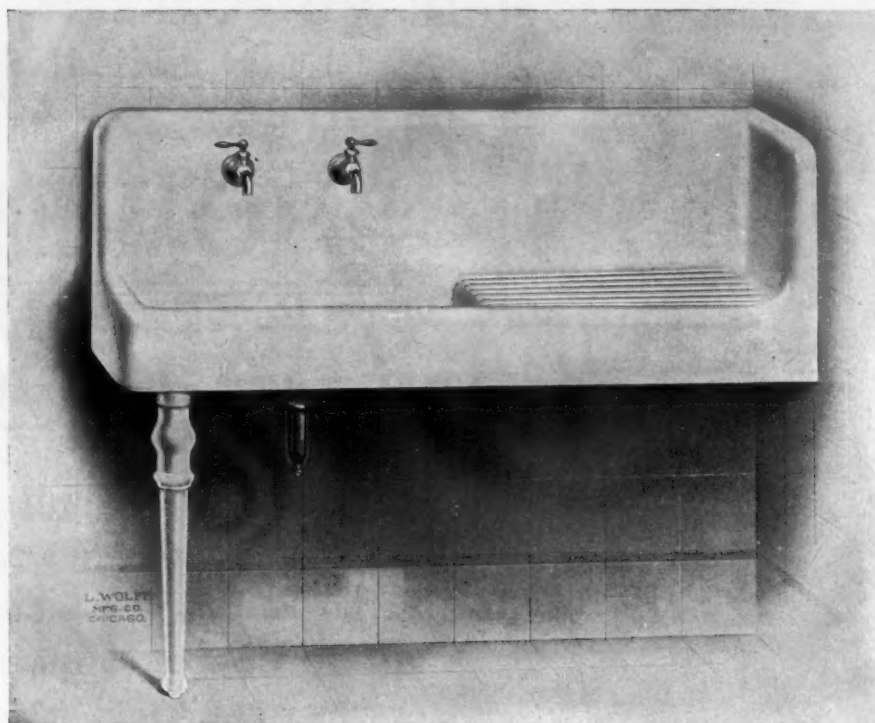
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By ALEXANDER SPELTZ

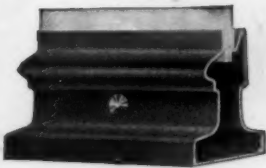
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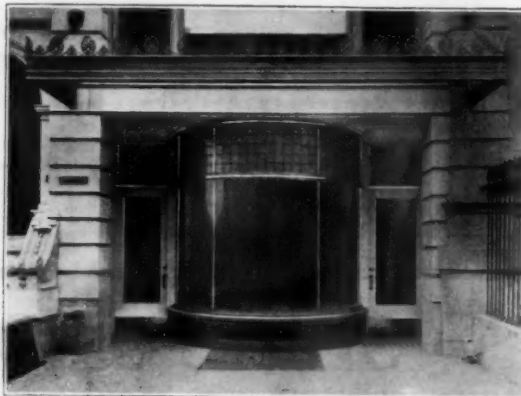
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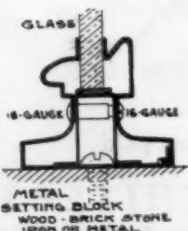
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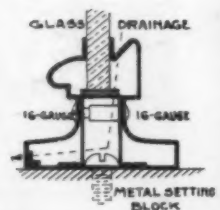
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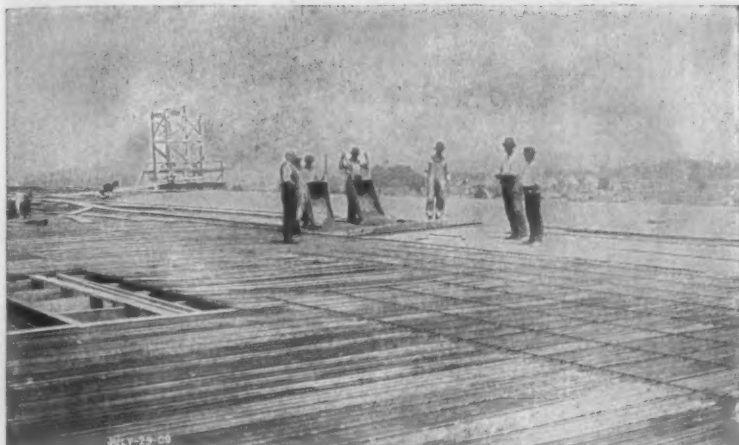
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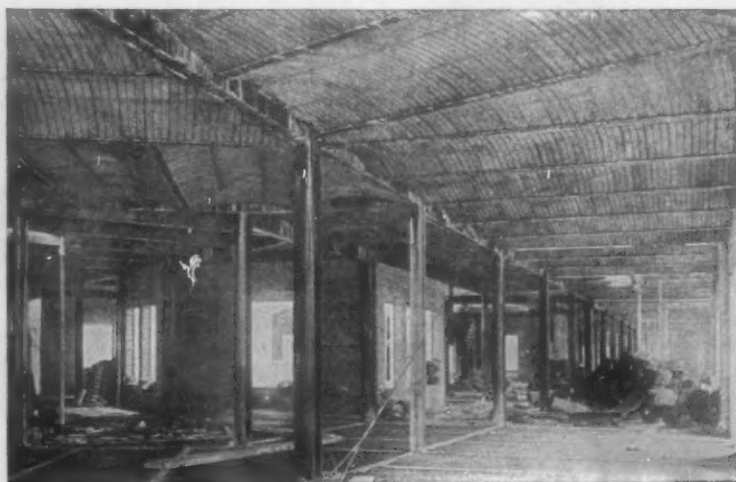
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CURRENT NEWS

OPEN-AIR PULPIT FOR NEW YORK

GRACE EPISCOPAL CHURCH WILL TRY A NOVEL EXPERIMENT SHORTLY

New York will soon have an open-air pulpit, the only one of its kind in the United States. Such an addition to Grace Episcopal Church, Tenth Street and Broadway, is being built. It is rapidly nearing completion. In large cities of England, where much outdoor preaching is done, there are many outdoor pulpits. The Grace Church pulpit will be at the end of the chantry, on the Tenth Street side, and it will project into the new garden now being made by the corporation.

Both the open-air pulpit and the entrance are gifts, and they correspond in architectural designs. Each is being built of Vermont white marble and will be elaborately carved.

THE PERRY MEMORIAL AT PUT-IN-BAY. STRUCTURE TO SERVE AS LIGHT-HOUSE, CONSERVATORY AND WIRELESS STATION

Magnificent in its proportions are the plans for the erection of a fitting memorial upon Put-In-Bay Island in Lake Erie to commemorate the centennial anniversary of the famous battle of 1813, won by Commodore Oliver Hazard Perry. The State of Ohio already has taken steps to celebrate that victory, and other States have followed the example by appointing commissions to work in conjunction with the Ohio representatives.

The plans embrace the foundation upon the island of a structure that will at once be a lighthouse, a wireless telegraph station, a meteorological observatory and a life-saving station. As it is planned it will cost \$1,250,000. At this session of Congress the United States will be asked to appropriate \$250,000. The State of Ohio will be asked to give \$125,000 to \$150,000. The remainder is to be made up from appropriations from New York, Pennsylvania, Indiana, Michigan, Illinois, Wisconsin and Minnesota, all of which border upon the Great Lakes.

The utilitarian features are expected to recommend it to those who will object to devoting such a large sum to the construction of a mere monument. At the same it will be highly useful, as the plans for the lighthouse contemplate a structure 375 feet in height. Such a beacon would be visible for many miles, and would render unnecessary the support of lighthouses now maintained along the Lake Erie southern coast. The wireless plant could be made the central station for the lake region, a thing of inestimable value to shipping interests.—*Exchange*.

BOLLES' COLLECTION TO METROPOLITAN MUSEUM

Through the liberality of Mrs. Russell Sage, the Metropolitan Museum of Art has received as a gift the whole of the famous collection of American furniture and the allied arts formed during the last 25 years by H. Eugene Bolles of Boston. The collection numbers more than 600 pieces. The value of the collection, which embraces a period dating from the ear-

liest settlements in New England to the first quarter of the 19th century, is put at upward of \$100,000, although it probably could not be duplicated for five times this amount. A number of pieces in the collection were loaned by Mr. Bolles to the recent Hudson-Fulton memorial exhibition at the museum.

PLANS FOR NATIONAL PARK AT NIAGARA APPROVED BY SECRETARY DICKINSON

In the report of the committee of landscape architects recommending the creation of a national park at Niagara Falls, which was transmitted to Congress recently with the favorable endorsement of Secretary of War Dickinson, much detail concerning the committee's plan is given.

The committee urges that a strip of property be acquired by the United States connecting with the State reservation at one end and extending the whole length of the Gorge, embracing the Talus, the cliff and a tract of land not less than 100 yards wide to be converted into a national reservation. By additional legislation and agreements with the Canadian Government the diversion of water for power purposes should be kept in such limits that the impressiveness of the cataract shall not be diminished.

A NEW BEAUX-ARTS ATELIER

An Atelier of Architecture has been formed with a membership of thirty, to compete in the various student competitions held by the Society of Beaux-Arts Architects, in New York City.

Mr. Arthur Ware has accepted an invitation to act as architectural critic, as has also Mr. B. L. Zimm, sculptor, who will give instructions in modeling.

The officers are: Massier, A. Hazell; Sous Massier, Carl Volner; Librarian, C. E. Pierpont.

PERSONAL

We are advised that Mr. F. D. Chase has resigned his position as architect of the Illinois Central Railroad to accept a similar position with the Western Electric Co., at Hawthorn, Ill.

We are advised that the copartnership heretofore existing between F. W. Crosly and P. R. Henkel, architects, has been dissolved by mutual consent.

Mr. Henkel will continue in practice, under name of Paul Revere Henkel, with offices in the Audubon Building, New Orleans, La.

Ernest M. Hartford and Silas Jacobson, architects, formerly connected with the office of Clarence H. Johnston, St. Paul, Minn., inform us that they have formed a copartnership for the practice of their profession under the firm name of Hartford & Jacobson.

Their offices will be located at 520 Manhattan Building, St. Paul, Minn.

BOOK NOTES

HANDY MAN'S WORKSHOP AND LABORATORY. Compiled and edited by A. Russell Bond. 467 pp; size $5\frac{1}{2} \times 8$ inches; 370 illustrations; full cloth; price \$2.00. New York: Munn & Co.

Readers of the *Scientific American* who have read in the issues of that valuable technical journal the weekly column devoted to the interest of the handy man, will, we are sure, be glad to have in a compact form the many suggestions and original ideas that are grouped in this volume.

To those not familiar with these, it may be well to state that this book in the hands of the man who wants to know how to do things easily and well, is a library of practical suggestion.

Many a man whose daily occupation is one of mental strain and deep thought finds relaxation in some work at home, where with tools he fashions some object of interest or utility.

For, as Shakspeare has truthfully said,

"Absence of occupation is not rest;

A mind quite vacant is a mind distressed."

That men of active mental occupation resort to physical labor as a relaxation is well known. A single notable instance is that of Gladstone, the British statesman, who took his axe and felled the trees on his estate.

Mr Bond has grouped a most valuable array of facts.

MODERN LETTERING, ARTISTIC AND PRACTICAL—A course for architects, signwriters and decorators. By William Heyny. With thirty-five plates of drawings by the author. 136 pp., 8×10 -in.; full cloth; price, \$2.00. New York: William T. Comstock.

The contention of the author of this work is that it is practical in its method of presentation. This may be said to apply more directly to the plates which present in a way readily understandable the anatomy of lettering. As this knowledge is absolutely necessary to a correct practice of lettering, the work may be said to fulfill its purpose.

The text, however, while thorough, is somewhat elemental, and contains much matter as to tools and their use that will not, we believe, present anything new to the architect and the practical draughtsman.

INDUSTRIAL

AN INGENIOUS DESK ADJUNCT

Various devices have been placed on the market from time to time to meet the demand of men called upon to make sudden memoranda of addresses, appointments, etc., for future references. The value, even the necessity of the architect having on his desk ready at hand a memorandum pad or block is generally recognized. Perhaps the most ingenious device yet proposed is that issued by the National Surety Co., of 115 Broadway, New York City. This concern, which makes a specialty of issuing contractors' bonds, has prepared for free distribution among architects an aluminum case containing, and yet exposing so that notes can readily be made thereon, a quantity of cards of standard size for filing. These are ruled on one side

and constitute a very ready means of jotting down data, which can afterward be classified and placed in the proper card catalogue cases to be referred to as occasion may require. A more convenient adjunct to the desk equipment can scarcely be imagined. As stated above, they will be sent to architects on request.

PAINT FOR EXPOSED GALVANIZED IRON AND STEEL

The necessity for the covering of exposed structural iron, with some paint or other composition, that will exclude rust and render it impervious to changes of temperature and other atmospheric conditions being conceded—it is only a question as to the best medium.

The Goheen Manufacturing Co., of Canton, Ohio, and London, E. C., England, are makers of coatings for different kinds of iron and steel, for which they claim many advantages.

"Galvanum," one of this company's products, is a paint specially prepared for application to galvanized iron. This, it is claimed, will adhere perfectly to new galvanized iron, requires no special preliminary treatment of the metal, and as a foundation coat furnishes a perfect coat for future repainting.

"Carbonizing Coating" is another of the products of this company. This is made for use on exposed steel. Its many claims for efficiency as a preservative are set forth in pamphlets issued by the Goheen Manufacturing Co., which, together with those referring to "Galvanum" will be sent on application.

ARTIFICIAL LUMBER

The timid reader might well infer, from the vast amount of matter published during the past two years, that we were doomed to soon experience all the horrors incident to the exhaustion of the supply of coal and lumber, to say nothing of other and less important commodities.

The more thoughtful, however, while realizing the great importance of checking the waste that is often greater than the actual consumption, and providing some utilization of this waste to eke out the fast diminishing supply, have little fear that we will soon be left lumberless. Substitutes are bound to be developed to replace every necessity, and they are sometimes of a character that leaves little to be desired. The substitute for lumber manufactured by the Gardner Artificial Lumber Co., 115 Broadway, New York, is a case in point. Made of straw and certain other ingredients, in all thicknesses from one-eighth-inch upwards, it can be supplied in widths and lengths required. It is said that it can be worked with the same tools and in the same manner as ordinary lumber, can be steamed and bent to shape desired, and that its surface permits of many desirable finishes. It is also claimed to be water-proof and its form of manufacture insures it to be vermin proof. These and many other advantages are set down in a series of illustrated pamphlets. We believe the architect and builder will find these interesting and well repay sending for.

The illustrations in the pamphlets above referred to show the use of the lumber from the cheapest form of building ranging through various types to highly decorated interiors in private houses and hotels.



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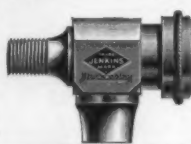
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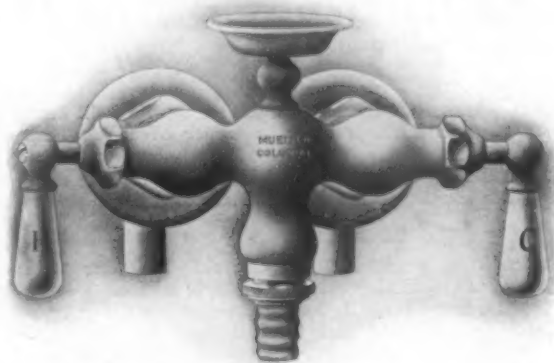
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Mueller Colonial Fuller work is massive in design, the absence of ornamentation adding to its richness. The eccentric has an extra wide sweep that pushes the ball far back, allowing admission of water up to the full delivering capacity. All Mueller Fuller work has a non-hammering device.

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BUILDING NEWS

To be of value this matter must be printed in the number immediately following its receipt, which makes it impossible for us to verify it all. Our sources of information are believed to be reliable, but we cannot guarantee the correctness of all items. Parties in charge of proposed work are requested to send us information concerning it as early as possible; also corrections of any errors discovered.

ALABAMA

AUBURN.—Alabama Polytechnic School will erect \$40,000 engineering building.

BIRMINGHAM.—Board of Revenue has accepted plans by H. B. Wheelock for erection of three-story annex to court house.

BOYLES.—Louisville & Nashville Railroad will erect \$654,000 repair plant in this city. Plans nearly completed. T. E. Brooks, superintendent.

GADSDEN.—Citizens will vote Feb. 13 on \$50,000 bonds for erection of schools.

PRATTVILLE.—Methodist Church is considering erection of edifice. Site purchased. W. P. Dickenson, Pastor.

ARIZONA

BISBEE.—Citizens Bank & Trust Co. will at once erect concrete bank building. Plans prepared.

ARKANSAS

HEBER.—Morton Bros. are considering rebuilding of structure destroyed by fire.

CALIFORNIA

LINCOLN.—High School Trustees will soon call election on bonds for erection of high school.

LOYOLA.—Santa Clara College will raise \$750,000 for construction of buildings.

LOS ALTOS.—School District is considering erection of \$40,000 school.

OAKLAND.—Security Bank & Trust Co. is considering erection of modern office building at corner of Broadway and Eleventh St.

POINT RICHMOND.—Wesley Methodist Church will erect \$17,500 edifice at Nevin and Ninth Sts. I. L. Dearborn, chairman, Board of Trustees.

REDWOOD CITY.—Chas. Josselyn, Woodside, will erect \$50,000 hotel in this city.

SAN FRANCISCO.—Architects Welsh & Carey, Mills Bldg., have prepared plans for immediate erection of warehouse at Fifth and Minna Sts.

SAN FRANCISCO.—Architect A. J. Coffey, Humboldt Bldg., has completed plans for erection of six-story apartment building at corner of Bush St. and Chelsea Place.

University of California will erect \$300,000 hotel in this city. Architect C. A. Meussdorffer, Humboldt Bank Bldg., has completed plans for erection of six-story building at corner of O'Farrell and William Sts.

COLORADO

COLORADO SPRINGS.—Judge E. A. Colburn, Denver, will erect four-story \$250,000 business block at corner of Pike's Peak and Nevada Aves.

Sublime and Myrtle Lodges, K. of P., are considering erection of \$75,000 temple. Plans will be drawn at once.

CONNECTICUT

BRIDGEPORT.—Immanuel Baptist Church, Lafayette and Gregory Sts., is considering erection of large edifice.

East End Baptist Church is having plans prepared for erection of edifice at Connecticut Ave. and Bunnell St.

Architect J. W. Northrop, Court Exchange Bldg., is preparing plans for erection of building on Fairfield Ave.

HARTFORD.—Southern New England Telephone Co. will erect five-story building on Pearl St.

DELAWARE

DELMAR.—Irving Culver, F. E. Lynch, Samuel M. Ellis, Dr. Robert Ellegood, Edgeview Realty Company and H. T. Hickey are interested in construction of ice plant.

WILMINGTON.—Rodney St. Presbyterian Church will erect edifice at Pennsylvania Ave. and Rodney St. Rev. C. L. Candee, pastor.

WILMINGTON.—E. I. du Pont de Nemours Powder Co. will erect twelve-story office building at Eleventh and Market Sts.

DISTRICT OF COLUMBIA

WASHINGTON.—Count J. H. von Bernstorff, German Ambassador, is considering plans for erection of embassy.

WASHINGTON.—B. Ashby Leavell will erect \$7,000 residence on Bradley Lane, Chevy Chase.

WASHINGTON.—J. L. Warren is considering erection of seven-story fireproof apartment building on M St.

Former Ambassador Henry White is considering erection of residence on Crescent St.

WASHINGTON.—A. Lisner, Eleventh and G Sts., N. W., will enlarge present building.

FLORIDA

JACKSONVILLE.—St. Johns River Terminal Co. will erect large machine shops on Eleventh St., Springfield. \$50,000 will be expended.

ST. AUGUSTINE.—Methodist Church, South, will erect edifice in this city. Rev. O. C. Cecil is interested.

GEORGIA

ALBANY.—Phoebe Putney Memorial Hospital has purchased site on North Jefferson St. for erection of building.

COLUMBUS.—North Girard Tabernacle is considering erection of edifice. Rev. W. L. Connor, Pastor.

HOMERVILLE.—Citizens have voted to erect \$8,000 school.

MACON.—Georgia Life Insurance Co. will erect \$250,000, twelve-story building. Plans being prepared.

IDAHO

SANDPOINT.—Members of the G. A. R. are considering erection of building on Fourth St.

ILLINOIS

CHAMPAIGN.—University of Illinois will erect proposed \$200,000 Lincoln Hall this year.

CHICAGO.—Paul Gerhardt, Schiller Bldg., has completed plans for addition to W. F. Hall Printing Co., at Kingsbury and Superior Sts.

Jas. Cunningham & Co. will erect four-story mercantile building on Michigan Ave.

Soul Circle Church will erect \$10,000 edifice on Kedzie Ave. Mrs. S. F. Williams, Austin, pastor.

DECATUR.—Decatur Bridge Co. is considering erection of office building at cost of \$10,000.

Leader Co. will erect warehouse and shipping building.

ELGIN.—Metropolitan Business Co. will erect \$35,000 building in this city.

ELGIN.—A. C. Rinehimer will erect residence this year.

Rinehimer Bros. will erect \$25,000 addition to plant on River St.

MOBILE.—Council has accepted plans by W. H. Whitsitt for erection of \$7,000 station at corner of Fourth Ave. and Twenty-seventh St.

QUINCY.—Board of Education has decided to erect school for colored children.

SPRINGFIELD.—Bids will be received until 10 a. m., Feb. 1, for erection of biological laboratory on State ground. W. E. Savage, secretary State Board of Live Stock Commissioners.

INDIANA

CLAY CITY.—Bids will be received until 10.30 a. m., Feb. 1, for erection of two-story high school. B. M. Guirl, president, Board of Trustees.

EVANSVILLE.—Francis Barker will erect building on Franklin St.

EVANSVILLE.—Little Sisters of the Poor will at once erect \$35,000 addition to home on Outer Lincoln Ave. and Newburg Road. Harris & Shopbell, Furniture Bldg., architects.

West Side Insurance & Real Estate Co. is considering purchase of site for erection of office.

INDIANAPOLIS.—Trustees of Harley Gibbs Settlement, West Washington St., are considering erection of home.



Asbestos "Century" Shingle Roof and Sheathing—Residence of W. E. Crawford, Evanston, Cincinnati, O., Fasse & Reed, Cincinnati, Architects; Bryen, Vane & Anderson, Cincinnati, Contractors

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BURT COMBINATION SKYLIGHT VENTILATORS

which is good evidence that the ones they bought at first were satisfactory in every way. Burt Ventilators are made of the best material and workmanship obtainable, furnished with metal or glass tops if desired, and provided



Glass Top Burt Ventilators are also made up to and including the 72-inch size. Notice Sliding Sleeve Damper (Patented).

NEWCASTLE.—School Board is having plans prepared for erection of \$20,000 school building.

VINCENNES.—J. M. Brown will erect two residences at once at Second and Seminary Sts. Cost, \$13,000.

IOWA

CEDAR RAPIDS.—Denning Wire & Fence Co. will erect immense factory.

DES MOINES.—Capital Hill Christian Church will erect home at corner of E. Twelfth and Des Moines Sts. Plans prepared.

DES MOINES.—Hawkeye Transfer Co. will erect \$175,000 warehouse. J. A. Hosmer, manager.

FAIRBANKS.—Dr. G. C. Eickelberg, P. F. Damge and L. Shoenut are interested in proposed erection of opera house. Plans prepared.

MUSCATINE.—M. E. Church will erect \$150,000 edifice.

OTTUMWA.—Erection of \$10,000 library substation in South Ottumwa is being considered.

KANSAS

HUTCHINSON.—Wm. Kelly Milling Co. will expend \$10,000 in enlargements to mill on S. Main St.

MANHATTAN.—Bids will be received until 2 p. m. Feb. 7 for erection of gymnasium and armory building. H. J. Waters, President, Board of Regents, Kansas City Agricultural College.

MULVANE.—Helvetia Milk Condensing Co., Highlands, Ill., will erect \$100,000 plant at this place.

KENTUCKY

HOPKINSVILLE.—Illinois Central Railroad will rebuild stations at Gracey and Cerulean Springs.

City has secured site on South Walnut St. for erection of \$75,000 high school.

LOUISIANA

NEW ORLEANS.—Equitable Real Estate Co., E. Perrin, President, will erect two-story sales and storage building at 745 Baroune St.

Frank B. Hayne will erect six-story building at Camp and Natchez Sts. Contract will be let about March 1.

MAINE

PORTLAND.—I. D. Andrews & Son., Littleton, N. H., will erect large box factory.

MARYLAND

BALTIMORE.—Jas. Keely will erect twenty-three two-story brick dwellings on Baltimore St., at cost of \$38,000. Plans by J. F. Gerwig, 210 E. Lexington St.

BALTIMORE.—Baltimore Bridge Co. will erect \$6,000 addition to plant at Bush and Gunpowder Sts.

BALTIMORE.—Mayor Mahool and J. L. Lee, 12 East Lexington St., are interested in erection of proposed General Hospital for South Baltimore.

BALTIMORE.—Furst Bros. & Co. will erect warehouse on Leadenhall St.

Washington, Baltimore & Annapolis Railway Co. will erect barn and terminal on Lombard St.

Architect H. C. Aiken, 213 North Calvert St., has completed plans for erection of four two-story cottages on Walbrook Ave. Cost, \$20,000.

CAMBRIDGE.—Methodist Protestant congregation has decided to rebuild church destroyed by fire.

HAGERSTOWN.—Smith College will erect dormitory.

HAVRE DE GRACE.—Susquehanna Hose Co. has decided on plans for erection of proposed hose house. A. Hamlin Carver, Mayor.

MASSACHUSETTS

BOSTON.—Two six-apartment brick houses, cost \$25,000, will be built by Samuel Rudnick at 201 Quincy St., Dorchester, from plans by M. M. Kalman, 42 Court St.

CAMBRIDGE.—Liquid Carbonic Co., Chicago, will erect \$100,000 plant at Broadway and Jordan Place. Plans being prepared.

FALL RIVER.—First Congregational Society is considering erection of edifice at corner of Rock and Cherry Sts.

HOLYOKE.—Landscape Architect F. F. Olmstead, Boston, has completed plans for arrangements of buildings of proposed isolation hospital.

LAWRENCE.—St. Augustine's Episcopal Parish, South Lawrence, will erect edifice in spring. Rev. C. B. Bowser, pastor.

LYNN.—John Woodbury has had plans prepared for erection of modern building at 126 Munroe St.

QUINCY.—City is considering erection of \$20,000 school.

SPRINGFIELD.—Architect W. B. Reid, 280 High St., Holyoke, has completed plans for two apartment blocks to be erected at Armory and Worthington Sts.

MICHIGAN

GRAND RAPIDS.—P. J. Klingman will erect fourteen-story exposition building in spring on North Division St.

KALAMAZOO.—Samuel Folz is planning to erect business block at 316 E. Main St. this spring.

MINNESOTA

DEER RIVER.—Bids will be received until 8 p. m., Feb. 8, for erection of jail. G. H. Herreid, village recorder.

DULUTH.—Architect J. J. Wangenstein, 401 Providence Bldg., is preparing plans for erection of \$20,000 residence at London Road and Forty-fifth Ave. for N. F. Russell.

FERGUS FALLS.—I. J. Boyum will erect larger woolen mill.

MINNEAPOLIS.—School Board has \$743,000 available for erection of new buildings.

ROCHESTER.—Board of Education is considering erection of high school.

ST. PAUL.—Gold Coin Stock Co. will rebuild building destroyed by fire. Cost, \$15,000.

TWO HARBORS.—Lake County Farmers Club will at once erect warehouse.

MISSOURI

KANSAS CITY.—August Refiner, 13 East Third St., is considering erection of four-story addition to factory on Third St.

H. M. C. Low, 504 Massachusetts Bldg., is considering erection of residence.

ST. JOSEPH.—Plans have been prepared for erection of \$1,000,000 union station at foot of Felix and Francis Sts.

Seven Day Adventists are considering erection of \$75,000 college in this city. Elder E. T. Russell, Lincoln, Neb., president.

MONTANA

DILLON.—Citizens will vote on erection of city hall and jail.

NEBRASKA

ANSLEY.—Town has voted to erect \$17,000 school.

OMAHA.—Omaha Club will erect \$250,000 home within next three years. M. L. Learned, president.

U. S. National Bank will erect ten-story building on Farnam St. V. B. Caldwell, vice-president.

NEW JERSEY

BELLEVILLE.—Plant of Edison Manufacturing Co., destroyed by fire, will be rebuilt.

EAST ORANGE.—Masonic Realty Co. of East Orange will erect \$80,000 building on Main St.

JERSEY CITY.—New York Baking Powder Co. will erect \$75,000 factory on West Side Ave. F. H. Koenigsberger, 1 Madison Ave., New York City, architect.

JERSEY CITY.—Henry Meyers, 625 Ave. C, will erect \$5,500 residence on W. Fifteenth St. Plans by Architect Jas. F. Bagnell.

Architect Walter Hanken, Clinton Ave., has completed plans for erection of \$7,000 garage on Crescent Ave. for Henry Kerst, 72 Harmon St.

Architect G. A. Flagg, Jersey City Trust Bldg., has completed plans for erection of \$9,000 apartment house on Bayview Ave. for J. A. Pihlman.

NEWARK.—Architect W. E. Lebman, 738 Broad St., has completed plans for number of stores and apartment buildings to be erected at corner of Central Ave. and First St. for R. J. Goerke. Cost, \$35,000.

NEW EGYPT.—Architect Spencer Roberts, 26 South Fifteenth St., Philadelphia, will receive bids until Feb. 6 for erection of three-story, \$100,000 hotel for Howard Davis.

TRENTON.—State Architect G. E. Poole has prepared preliminary plans for proposed enlargement of State House.

TRENTON.—Architect W. W. Slack is preparing plans for \$8,000 residence for Walter C. Slack.

John W. Burd will erect residence in near future on Perdicaris Ave.

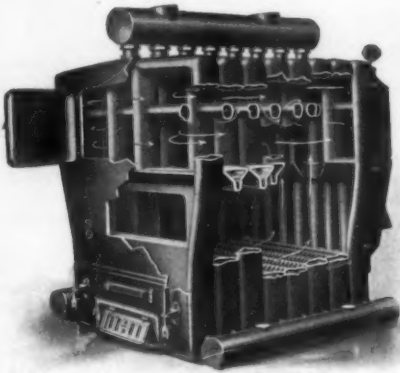
VENTNOR CITY.—Board of Education is considering plans for erection of school building.

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WOODBRIDGE.—Architects Pierson & Son will prepare plans for proposed \$70,000 high school.

NEW MEXICO

ROSWELL.—Citizens will vote March 15 on \$25,500 bonds for erection of high school.

NEW YORK

ALBANY.—Leonard Realty Co. is planning erection of twelve two-story cottages on McKinley St., in Pine Hills.

BROOKLYN.—Prospect Artificial Ice Co., 273 Saratoga Ave., will erect \$50,000 brick ice plant on Bergen St.

E. Purvis, 26 Court St., will erect \$23,000 factory on Jay St.

BROOKLYN.—H. L. Degroot, 745 Manhattan Ave., will erect three three-story brick stores and dwellings on Nassau St. Cost, \$21,000.

A. Shlikerman, Seventy-fifth St. and Fourth Ave., will erect \$6,000 store and dwelling on Seventy-fourth St.

M. Bernette, 24 State St., will erect two two-story brick dwellings, cost, \$12,000, on Sixth Ave.

BROOKLYN.—Nine two-story brick dwellings, cost \$28,800, will be erected on Linden Ave. for Moreland Operating Co., 1910 Park Ave.

BROOKLYN.—H. C. Heissenbittel, 321 Washington Ave., will erect five one-story stores at Seventy-fifth St. and Third Ave. Cost, \$16,000.

Four two-story brick dwellings, cost, \$12,800, will be erected on East Forty-sixth St. for L. Krissler, 294 East Thirty-eighth St.

Prospect Artificial Ice Co. will erect \$50,000, two-story ice plant on Bergen St.

MOUNT VERNON.—W. H. Shattuck will erect business building at East Third and Pease Sts.

MOUNT VERNON.—Architect Henry J. Feiser, 150 Nassau St., New York, will erect two apartment houses at corner of Second Ave. and Fourth St.

NEWBURGH.—Newburgh Lodge No. 247, B. P. O. Elks, will erect building on Liberty St. Senator J. B. Rose, Chairman, Committee.

NEW YORK.—B. Schlanowsky, 11 W. 119th St., will erect five-story \$12,000 brick store on E. Broadway. M. Muller, 115 Nassau St., Architect.

S. Switzer, 210 W. Seventy-ninth St., will erect twelve-story \$85,000 store and lofts on Thirty-third St. W. E. Thompson, 210 W. Seventy-ninth St., Architect.

W. & J. Sloane, 884 Broadway, will erect three-story brick stable and garage, cost \$50,000, on Twenty-ninth St. J. B. Baker, 156 Fifth Ave., Architect.

A. C. Ayers, White Plains, will erect \$5,000 amusement hall on 171st St. B. & J. Walthur, 147 E. 125th St., architect.

NEW YORK.—Architect A. Stevens, 157 East Sixty-seventh St., has filed plans for erection of \$35,000 engine house on Fifth St.

Chemist Building Co., 25 Broad St., will erect ten-story, \$200,000 club house on Forty-first St. York & Sawyer, 1565 Fifth Ave., architects.

P. Doelger, 405 East Fifty-fifth St., will erect three-story, \$60,000 bottling house on Fifty-fifth St. A. G. Koenig, 401 West Twenty-fourth St., architect.

C. L. Deverman, 2040 Blecker Ave., will erect six two-story frame dwellings on Chatterdon Ave. Cost, \$30,000. Plans prepared.

Andrew Brown, 1360 Castle Hill Ave., will erect five frame dwellings, cost, \$32,500, on Lyon Ave. Henry Nordham, Tremont Ave. and Bronx St., architect.

NEW YORK.—Fabian Construction Co., 175 Fifth Ave., will erect twelve-story brick store and lofts, cost \$350,000, on Twentieth St. Schwartz & Gross, 347 Fifth Ave., architects.

A. Miller, 171 E. Eighty-first St., will erect \$20,000 warehouse on Eighty-fourth St. Gross & Kleinberger, Bible House, architects.

John A. Heydler, National Baseball League, will erect residence on Henley Ave., Belle Harbor, L. I.

W. Issecks, 428 Water St., will erect two-story, \$10,000 factory on Mangin St. O. Reissmann, 39 First St., architect.

J. Carlew, 17 West Twelfth St., will erect twelve-story, \$250,000 brick office and store building on Thirty-seventh St. Cleverdon & Putzel, 41 Union Sq. West, architects.

Manderkin Building Co., 1349 Brook Ave., will erect \$80,000 warehouse on Webster Ave. H. P. Ralph & F. A. Burdett, 29 W. Thirty-fourth St., architects.

RICHFIELD SPRINGS.—Architect F. H. Gouge, 70 Genesee St., Utica, has completed plans for village library to be erected in Spring.

SYRACUSE.—Frank O'Rourke, 102 South Crouse Ave., will erect \$10,000 residence at Walnut Park.

A. P. De Mott, Edward H. Dann and J. Sherman Snow will build this year on East Genesee St.

SYRACUSE.—Architect F. W. Hicks has prepared plans for large livestock building to be erected at State Fair Grounds. C. A. Wieting, State Fair Commissioner.

WOODHAVEN, L. I.—Little Sisters of the Poor will erect \$500,000 hospital at Vandever and Woodhaven Aves. Plans prepared.

NORTH CAROLINA

HIGH POINT.—Erection of two schools is being considered.

WELDON.—Atlantic Coast Line Railway will erect two-story union depot.

NORTH DAKOTA

BEACH.—Northern Pacific will erect \$20,000 depot at this place this spring. Address Division Superintendent Johnson.

DEVIL'S LAKE.—Mrs. Henry Hale will rebuild hotel destroyed by fire.

FARGO.—Beck & Wright are considering erection of building.

VALLEY CITY.—Citizens will vote March 14 on \$15,000 bonds for erection of city hall.

OHIO

CINCINNATI.—Kroger Grocery & Baking Co. will enlarge its plant at cost of \$85,600. Harry Hake, Andrews Bldg., architect.

CINCINNATI.—Bids will be received until noon, Feb. 14, for completing school at corner of Chapel St. and Alms Place, Walnut Hills. C. W. Handman, business manager.

COLUMBUS.—Architect S. E. Kidd has completed plans for two-story building to be erected on Dublin Ave. for Bazler Bros.

COSHOCOTON.—Howard & Merriam, Capital Trust Bldg., Columbus, will prepare plans for proposed school building.

DELAWARE.—Board of Education will rebuild high school destroyed by fire. Dr. E. M. Simons is interested.

FINDLAY.—Board of Education is considering erection of school. J. F. Smith, superintendent.

FOSTORIA.—Fostoria Incandescent Independent Lamp Co. is considering erection of factory. H. H. Geary is interested.

YOUNGSTOWN.—County Commissioners have ordered \$400,000 bond issue for completion of court house.

OKLAHOMA

EL RENO.—Modern Woodmen of America will at once erect three-story, \$30,000 building in this city.

MUSKOGEE.—J. M. Porter will at once erect three-story flat at Market and Fifth Sts. Plans prepared.

MUSKOGEE.—Armour Packing Co. has had plans prepared for erection of \$40,000 building on Commercial St.

PURCELL.—McClain County is considering election on \$85,000 bonds for erection of court house.

VINITA.—Board of Affairs is planning to let contract about Feb. 1 for erection of \$100,000 asylum buildings for Eastern Oklahoma Asylum.

OREGON

MT. TABOR.—C. V. Cobb, Standard Box & Lumber Co., will erect \$15,000 home at Fifty-fifth and East Madison Sts.

PORTLAND.—Architects Doyle & Patterson, 423 Worcester Bldg., are preparing plans for erection of \$100,000 Provincial House for Sisters of Holy Name.

PORTLAND.—J. B. Harrington, 495 East Davis St., will at once erect \$40,000 apartment house at Holladay Ave. and East Second St.

PENNSYLVANIA

ALLENTOWN.—Trustees of Muhlenberg College will open bids next month for erection of preparatory school building.

CHESTER.—St. Luke's U. A. M. E. Church will erect \$5,000 edifice at Eighth St. and Central Ave.

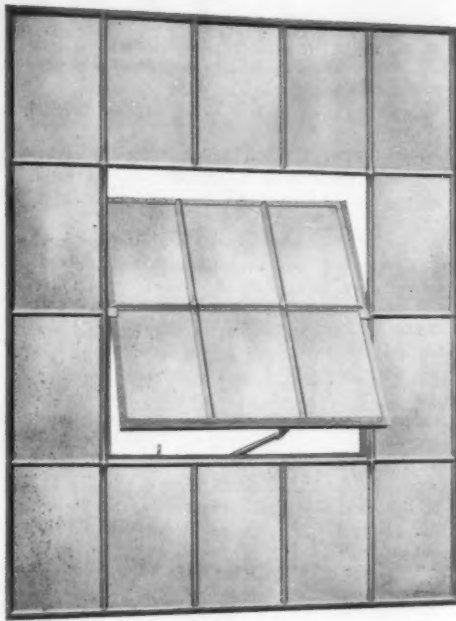
CHESTER.—J. J. Ryan, West Third St., will erect about fifty houses on Flower St.

CORAOPLIS.—Architects McClure & Spahr, Keystone Bldg., Pittsburg, are preparing plans for a \$30,000 brick and stone building to be erected for Y. M. C. A.

DUBOIS.—Citizens will vote on \$65,000 bonds for improvements including erection of city hall and hose house.

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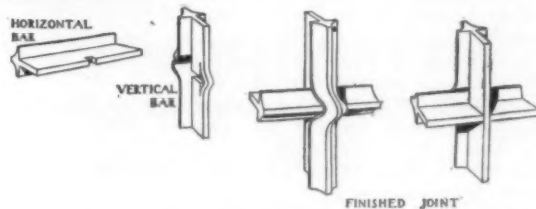
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Fiat Auto Co., Poughkeepsie, N. Y.
Solvay Process Co., Syracuse, N. Y.
Hammond Standish & Co., Detroit, Mich.

Brossy Dye Works, Detroit, Mich.
Dodge Mfg. Co., Mishawaka, Ind.
Frederick Stearns & Co., Detroit, Mich.
Gillette Safety Razor Co., Waverly, N. J.
New York Central & Hudson River Shops, West Albany, N. Y.

Nelson Building, Chicago, Ill.
Detroit United Railway, Detroit, Mich.
Detroit Edison Co., Detroit, Mich.

F. P. Beaver Power Bldg., Dayton, O.
M. A. Bradley Co., Cleveland, O.
Gemmer Mfg. Co., Detroit, Mich.
Turkey Creek Pumping Station, Kansas City, Mo.

Carnegie Steel Co., Bellaire, O.

Syracuse, L. S. & No. Ry., Syracuse, N. Y.

Jenks & Muir Mfg. Co., Detroit, Mich.
Carpenter Steel Co., Reading, Pa.
American Optical Company, Southbridge, Mass.

Alfred James Garage, Bala, Pa.
Western Motor Co., Marion, Ind.
U. S. Navy Department at Boston and Portsmouth Navy Yards.

U. S. Steel Corporation, Gary, Ind.
Parker-Blake Bldg., New Orleans.
Bath Iron Works, Bath, Me.

Hecla Iron Works, New York.
F. C. Sauer Building, Pittsburg, Pa.
Little Wheel Co., Quincy, Ill.
H. B. Taylor Est., Buffalo, New York.

North Adams Gas Light Co., North Adams, Mass.

Northern Pacific Freight House, St. Paul, Minn.

Rice & Hutchins Shoe Factory, So. Braintree, Mass.

Lehigh University Laboratories, So. Bethlehem, Pa.

Toledo Plate & Window Glass Co., Toledo, O.

Davenport Machine & Foundry Co., Davenport, Ia.

Reinforced Concrete Pipe Co., Detroit, Mich.

Stroh Brewing Co., Detroit, Mich.
Metropolitan Electric Co., Reading, Pa.

Minneapolis Bedding Company, Minneapolis, Minn.

Hennegan Printing Co., Cincinnati, O.
National Malleable Castings Co., Sharon, Pa.

J. M. Kohler Sons, Sheboygan, Wis.

Nelson Valve Co., Philadelphia, Pa.
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LOS ANGELES—California Bldrs. Supply Co., 121 W. Third St.

SALT LAKE CITY—Thos. A. Williams, 209 Scott Bldg.

PITTSBURG—R. A. Rowland & Co., 1217 House Bldg.

PHILADELPHIA—Samuel Bettie, Jr., Land Title Bldg.

ST. LOUIS—Hunkins Willis Lime & Cement Co.

MINNEAPOLIS—Henry O. Johnson, 400 Lumber Exchange.

NEW ORLEANS—American Sheet Metal Works, P. O. Box 576.

SAN FRANCISCO—J. E. Dwan & Co., 151 Tehama St.

BUFFALO—

Jas. P. Hunt, 14 Builders Exchange

HOUSTON—

Louis G. Hester, 317 1-2 Main St.

GRAND RAPIDS—

Frederick H. McDonald,

619 The Gilbert

WASHINGTON, D. C.—

Robert S. Bishop,

The Evans Building.

DETROIT STEEL PRODUCTS COMPANY, Manufacturers
DETROIT, MICHIGAN, U. S. A

LOCK HAVEN.—Allen Sterner, President, Business Men's Association, is interested in proposed erection of \$150,000 hotel.

McKEESPORT.—Architects Vrydaugh & Wolfe, 347 Fifth Ave., Pittsburg, have prepared plans for extensions and other improvements to National Bank at Fifth and St. Clair Sts.

MEADVILLE.—Crawford Lodge of Odd Fellows will erect temple on North Water St.

MONESSEN.—Pittsburg Steel Products Co. will enlarge lately purchased plant at once. Geo. Nash, general superintendent.

Page Woven Wire Fence Co. is considering extensive improvements.

PHILADELPHIA.—Y. M. C. A. building will be erected at Navy Yard. Plans prepared. A. B. Johnson, Chairman, Building Committee, is interested.

PHILADELPHIA.—Adath Jeshurun Congregation will erect synagogue on Broad St.

W. J. McCahon Sugar Refining Co. will erect \$250,000 addition to plant on Tasker St.

Architect Frank Seeberger has completed plans for erection of four three-story stone residences at Cynwyd for Lower Merion Realty Co.

University of Pennsylvania will erect \$25,000 zoological laboratory. Professor T. H. Montgomery, Jr., is interested.

PHILADELPHIA.—Architect William C. Pritchett, 420 Walnut St., is designing \$75,000 residence for J. B. Lippincott at Bethayres.

Architect George T. Pearson, 427 Walnut St., is preparing revised plans for \$50,000 parish house for St. Luke's P. E. Church, on Germantown Ave., Germantown.

Architects Milligan & Webber, 520 Walnut St., have begun preparation of plans for \$150,000 store and commercial building for Mershon Brothers at 228 North Thirteenth St.

PHILADELPHIA.—Architect J. Horace Cook, of Board of Education, is preparing plans for \$150,000 public school building at Sixth St. and Hunting Park Ave.

Architects Anderson & Haupt are preparing plans for \$50,000, four-story school building for Hebrew Free School Society at Third and Catharine Sts.

Trustees of Old Men's Home will erect addition to present Thirty-ninth St. institution.

Architect W. C. Furber, 416 Walnut St., is preparing plans for erection of six-story, \$100,000 warehouse at 414 North Third St. for Alexander Bros.

PITTSBURG.—Pittsburg Lodge No. 46, Loyal Order of Moose, is considering erection of club house. T. S. Flynn, secretary.

PITTSBURG.—Pennsylvania Railroad Co. will erect freight station at Eleventh St., Beaver Falls.

Kiehnel & Elliott, architects, 209 Ninth St., have prepared plans for proposed municipal tuberculosis hospital. \$280,000 is available.

PITTSBURG.—Pittsburg Architectural Club will receive designs for suburban concrete residence, with garage, until Feb. 16; prizes amount to \$500. E. B. Lee, Secretary Competition Committee, 732 Millvale Ave.

Architect O. M. Topp, Empire Bldg., has completed plans for remodeling Jenkins store and office building and erection of sixteen-story warehouse.

PITTSBURG.—Allegheny County will erect twelve-story annex to court house. I. K. Campbell, chairman, County Commissioners.

SCRANTON.—Congregation of Howard Place A. M. E. Church will erect edifice on North Washington Ave. Rev. G. T. Smith, Pastor.

SHAMOKIN.—School Board is considering erection of school at Coal Run, also addition to McKinley School.

WASHINGTON.—Peoples Market & Ice Co. will erect public market. C. W. McAllister, president.

RHODE ISLAND

PROVIDENCE.—Local Lodge of Elks has purchased site at corner of Greene and Washington Sts. for erection of building.

SOUTH CAROLINA

COLUMBIA.—School District No. 12 will vote on \$20,000 bonds for school improvements.

GREENVILLE.—Messrs. J. D. Bridges and W. L. Gassaway will erect concrete warehouse on bank of Reedy River.

TENNESSEE

CHATTANOOGA.—Plans and specifications will be received until 10 a. m., Feb. 14, for erection of school building.

CHATTANOOGA.—City will purchase site on Highland Park Ave. for erection of school.

TEXAS

BEAUMONT.—United Charities Association is considering erection of home on Spindle Top Road. Mrs. J. F. Keith, president.

BEAUMONT.—First Baptist Church is considering erection of \$20,000 Sunday school annex.

CLEBURNE.—Santa Fé Railroad has secured site for erection of passenger station.

DALLAS.—Plans have been prepared for erection of \$200,000 club house for Idlewild Club. Walter Waskom, President.

Albert Kramer, W. E. Tobias and R. Tobolosky will erect two-story brick dwelling on Akard St.

Chas. E. Levi, Victoria, will erect \$45,000 brick building on Commerce St.

DALLAS.—Christian Church is considering erection of Old People's Home. Rev. A. J. Bush, city, is interested.

HOUSTON.—Trinity Episcopal Church will erect edifice on Main St.

HOUSTON.—March Culmore, 1012 Prairie Ave., will erect store building at corner of Main St. and Calhoun Ave.

HOUSTON.—C. P. Converse will erect eight-story apartment house on San Jacinto St.

JACKSON.—Citizens are urging election on \$40,000 bonds for erection of school.

KILLEEN.—Citizens will vote on \$10,000 bonds to erect another school.

PORT ARTHUR.—C. A. Logan will prepare plans for three-story, \$30,000 home to be erected at corner of Fourth St. and Waco Ave. for local Elks.

SAN ANTONIO.—Geo. I. Adams, Denver, Col., is considering erection of \$150,000 vaudeville theatre in this city.

SEMINOLE.—Board of Trustees has adopted plans for high school building.

VERMONT

RUTLAND.—Architect A. H. Smith has prepared plans for \$12,000 motion picture and vaudeville theatre; estimates will be taken at once; foundations begun. Architect will purchase all material, including 600 opera chairs, steel ceilings, etc.

VIRGINIA

FREDERICKSBURG.—Architect Philip N. Stern, of this city, is planning \$30,000 Masonic Temple to be erected by George Washington Memorial Association.

PORTSMOUTH.—Calvary Baptist Church, Scottsville, has decided to erect annex.

WASHINGTON

ABERDEEN.—Chehalis County is considering erection of \$30,000 hospital.

PUYALLUP.—Local Masons have decided to erect two-story temple. W. P. Wasson, Chairman.

PUYALLUP.—Erection of \$10,000 Y. M. C. A. building is being considered. C. M. Case and Olaf Caskin are interested.

SEATTLE.—Board of School Directors, R. W. Jones, Secretary, has asked for bids for construction of York and West Woodland grade schools. Cost, \$40,000 each.

Walsh & Gardner will erect four-story \$45,000 building on Pacific Ave.

Bids have been advertised for erection of \$45,000 school at S. Twelfth and Alden Sts.

SPOKANE.—Church of the Nazarene will erect edifice in spring at corner of Mill and Nora Sts.

SPOKANE.—Patent Holding & Manufacturing Co. has had plans prepared for erection of addition to plant at 118 Second Ave. Cost, \$15,000.

SPOKANE.—J. E. Horton will erect \$40,000 public market at corner of Second Ave. and Stevens St. Plans prepared.

SPOKANE.—Architect Albert Held, Hyde Block, has completed plans for two-story brick block to be erected at corner of Pacific and Browne Sts. for local Foresters of America.

A. H. Powell, Illinois Ave., is considering enlargement of plant.

WEST VIRGINIA

CHARLESTON.—Architect Wilbur T. Mills, McCune Bldg., Columbus, O., is preparing plans for \$100,000 four-story theater and office building for Kanawha Theater Co.

CUTLER MAIL CHUTE PATENTS SUSTAINED

The U. S. Circuit Court for the Eastern Division of the Eastern District of Missouri, in a decision rendered January 10th, 1910, has fully sustained all our claims and ordered the issuance of an injunction restraining the defendant, the U. S. Mail Chute Equipment Company of St. Louis, Mo., from making, using or selling infringing chutes, and requiring it to pay to us the profits, costs and the damages which we have suffered.

We also brought two other suits against the Maryland Hotel Company in St. Louis, Mo., which had installed infringing chutes, in order to fully test the question of the liability of the owner of the building, and these cases were heard at the same time, and it was decided that the owner of the building is liable notwithstanding the fact that the Post Office Department collects the mail from the box at the lower end.

CUTLER MAIL CHUTE COMPANY,
CUTLER BUILDING, ROCHESTER, NEW YORK.

HELP AND POSITIONS WANTED

POSITIONS WANTED

POSITION WANTED in New York firm by a Paris-trained man, competent in design, details and country work. Address "73F," care American Architect.

(1777-9-8-80)

WANTED—Position by experienced architectural draughtsman, qualified to take charge of any kind of work pertaining to the office. At present holding position as head man in one of the largest offices in the country, but would like to make a change where there is a chance for a partnership. Address 78B, care American Architect.

(1778-9)

POSITION wanted in New York City office, by graduate American College of Architecture, with ten years' experience in practical work. Accustomed to fireproof construction, building law, office and draughting room managements; specification writing; salary to start \$35-40, and position of responsibility and outlook only considered. Address 79A, care American Architect.

(1779)

ARCHITECTURAL ENGINEER and expert on materials, steel construction and fireproofing; will prepare specifications (for architects) in a practical, technical and legal form, for general contracts for any class of buildings; also advice on construction. For appointments and consultation, call on Mr. Faxon, room 404, E. 28th St. Phone, Mad. Sq. 5557.

(1779-80)

YOUR latest job may have a steel skeleton, perhaps only a steel-trussed roof, or is it to be reinforced concrete? An engineer can help you. We are doing such work every day. We have helped other architects in our spare time. Anyway, let us talk it over. Our long experience is at your service. Address 79B, care American Architect.

(1779)

A YOUNG man 20 years of age, who has had 1½ years' experience as assistant draughtsman (suburban work, New Jersey), being a good tracer, and also good at lettering, etc., wishes a position; salary \$12. Address C. K., 331 Chestnut St., Arlington, N. J.

(1779)

POSITION wanted in architect's New York office by man of general experience, graduate of Mass. Tech. and Beaux Arts man. He is accustomed to management and has ten years' experience on good public and private work. Usually designer, he also writes specifications and superintends. Address 79D, care of American Architect.

(1779)

WANTED—Position by architectural draughtsman of six years' general office experience. Competent in making drawings and some full-size and scale details. Can furnish samples of work and references. Moderate salary. Address 79E, care American Architect, New York.

(1779-80)

ARCHITECTURAL ENGINEER desires a position where a knowledge of engineering and architecture is required; well versed in all classes of construction and calculations; is a good draughtsman, and can prepare first-class working drawings. Has had large experience in industrial plants, etc. Highest references. 79F, care American Architect.

(1779)

WANTED—Position by a young man as heating and sanitary engineer with an architect. Would rather locate in South, though no objection to the North if the right proposition offers. Have had six years' experience in above work, with a successful firm of architects. 79K, care American Architect.

(1779-80)

OPEN for engagement on or after January 26 by a draughtsman, American, with nine years' experience; competent on complete working drawings from sketches on all classes of buildings and outside superintending; have been employed by architects, engineers and corporations; familiar with mill and factory construction; salary desired, \$25. Address 79M, care American Architect.

(1779)

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(1723&17)

WANTED—An architectural draughtsman, capable of taking full charge of office. A No. 1 on plan, design and perspective. All classes of work. State salary, experience. Blount Architectural Co., Rooms 717 and 719 Blount Building, Pensacola, Fla.
(1772-T.F.)

WANTED—Thorough, all-around architectural draughtsman. Give particulars as to experience, habits, salary, etc. Angus S. Wade, Youngstown, Ohio.
(1778-9)

A DESIRABLE POSITION, outside New York City, is open to an architectural draughtsman, designer and renderer, academic man preferred, who is energetic, accurate and capable of systematizing and managing work. Give experience, references, salary expected and how long before position could be assumed. Address 78C, care American Architect, N. Y.
(1778-9)

DRAFTSMAN WANTED—Opening for a man not over 25 years of age, with college training and one or two years' office experience. Southern city, 50,000 population, in good territory. May work up to interest in business. Address 74N, care American Architect.
(1778-9-80)

WANTED—Competent draughtsman, steady employment if services prove satisfactory. Send references, state experience and salary wanted. Foeller & Schober, Architects, Green Bay, Wis.
(1779-80)

ARCHITECTURAL DRAFTSMAN who is good at designing, water color work and perspective drawing. Young man with foreign training or who is a graduate of some technical college preferred. We can also use a good tracer, who is competent to lay out work from sketches. State salary desired, experience and references. Bailey & Bailey, Architects, Majestic Building, Oklahoma City, Okla.
(1779-80)

WANTED—Architectural draughtsman in Minneapolis office, graduate of American college of architecture, capable of managing draughting room. Full details as to experience, references, salary and present location. 79C, care of American Architect, Chicago Office.
(1779)

WANTED—High class designer and draughtsman to take charge of draughting room. Address, stating experience and salary, Harry B. Wheelock, Birmingham, Ala.
(1779)

WANTED—A young man with six years' experience as superintendent of construction for a good firm of architects, wishes to locate in the South, in a position of the same character. Well up on reinforced concrete construction. 79L, care of American Architect.
(1779-80)

PARTNER WANTED

PARTNER wanted by firm of New York architects. Must have good social connections and be able to control large work. Present firm composed of well-known architect of twenty-five years' experience, Beaux Art training, practice extending throughout Eastern and Southern States, who has formed partnership with his business manager—a younger man of ability, and they are looking for a third partner to fill requirements as stated above. 79G, care American Architect.
(1779)

WANTED—Architect of twelve years' experience wishes to purchase partnership in small growing practice in the South. Would like to locate at once, but would prefer to work at least six months with prospective partner before purchasing. 79J, care American Architect.
(1779-80)

FOR SALE

FOR SALE—An established architectural practice of over thirty years' standing, in a growing town of 30,000 in the Middle States. No other architect in the city. Good chance for the right man. 79H, care American Architect.
(1779-80)

PROPOSALS

Treasury Department, Office of the Supervising Architect, Washington, D. C., January 7, 1910.—Sealed proposals will be received at this office until 3 o'clock p. m., on the 18th day of February, 1910, and then

opened, for the construction (including plumbing, gas piping, heating apparatus, electric conduits and wiring), of the laundry and attendants' quarters, U. S. Marine Hospital, Louisville, Ky., in accordance with drawings and specification, copies of which may be had from the Custodian at Louisville, Ky., or at this office at the discretion of the Supervising Architect.—James Knox Taylor, Supervising Architect.
(1778-9)

Treasury Department, Office of the Supervising Architect, Washington, D. C., January 8, 1910.—Notice is hereby given that the time for opening bids for the extension, remodeling, etc., of the United States Post Office at Emporia, Kansas, has been extended from January 14, 1910, to 3 o'clock P. M., February 15, 1910.—James Knox Taylor, Supervising Architect.
(1778-9)

TO REINFORCED CONCRETE CONTRACTORS.

Bids will be received until Tuesday, Feb. 1st, 1910, on a reinforced concrete building for Edo. Bremer y Cia., SucS. Monterrey, Mexico. Plans and Specifications to be seen at my offices. Alfred Giles, Architect.
(1779)

Treasury Department, Office of the Supervising Architect, Washington, D. C., January 15, 1910.—Notice is hereby given that the time for opening bids for the construction of an extension, etc., except elevator (including plumbing, gas piping, heating apparatus, electric conduits and wiring, and standard clock system), at the U. S. Post Office and Court House at Lynchburg, Va., has been extended from February 10, 1910, to March 3, 1910.—James Knox Taylor, Supervising Architect.
(1779)

Treasury Department, Office of the Supervising Architect, Washington, D. C., January 18, 1910.—Notice is hereby given that the time for opening bids for the construction (including plumbing, gas piping, heating apparatus, electric conduits and wiring), of an extension to the U. S. Post Office at Goldsboro, N. C., has been extended from January 31, 1910, to February 25, 1910.—James Knox Taylor, Supervising Architect.
(1779-80)

Treasury Department, Office of the Supervising Architect, Washington, D. C., January 18, 1910.—Notice is hereby given that the time for opening bids for the extension, remodeling, etc. (including plumbing, gas piping, heating apparatus, electric conduits and wiring and standard clock system), of the U. S. Post Office and Court House, Meridian, Miss., has been extended from February 8, 1910, to March 2, 1910.—James Knox Taylor Supervising Architect.
(1779)

Treasury Department, Office of the Supervising Architect, Washington, D. C., January 17, 1910.—Notice is hereby given that the time for opening bids for the extension, remodeling, etc. (including plumbing, gas piping, heating apparatus, electric conduits and wiring), of the U. S. Post Office at Pawtucket, R. I., has been extended from January 25, 1910, to February 21, 1910.—James Knox Taylor, Supervising Architect.
(1779)

Treasury Department, Office of the Supervising Architect, Washington, D. C., January 17, 1910.—The advertisement for bids for the construction of the Post Office and Court House building at Denver, Col., dated December 29, 1909, is corrected, and the time for opening bids extended as follows:

Sealed proposals will be received at this office until 3 o'clock P. M. on the 15th day of March, 1910, and then opened for the construction, including plumbing and drainage, of the U. S. Post Office and Court House at Denver, Col., in accordance with drawings and specifications, copies of which may be had at this office or at the office of the architects, Messrs. Tracy, Swartwout & Litchfield, 244 Fifth Avenue, New York City, at the discretion of the Supervising Architect. Applications must be accompanied by a certified check for \$250, which will be held at this office until the return of the drawings and specifications.—James Knox Taylor, Supervising Architect.
(1779-80)

Treasury Department, Office of the Supervising Architect, Washington, D. C., January 19, 1910.—Sealed proposals will be received at this office until 3 o'clock P. M. on the 9th day of March, 1910, and then opened, for the extension, remodeling, etc. (including plumbing, gas piping, heating apparatus, electric wiring and conduits), of the U. S. Post Office and Court House at Athens, Georgia, in accordance with the drawings and specification, copies of which may be had from the Custodian at Athens, Ga., or at this office, at the discretion of the Supervising Architect.—James Knox Taylor, Supervising Architect.
(1779-80)

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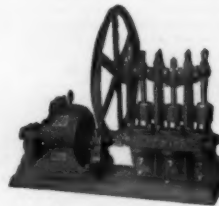
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For Wash Bowls, Sinks, Bath
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Made in all styles and sizes for all classes of work
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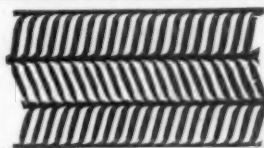
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Large Facilities, Prompt Deliveries

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the building material you will use. Architectural Terra Cotta is a select building material. Great creative architects have not been slow to recognize its unique advantages.

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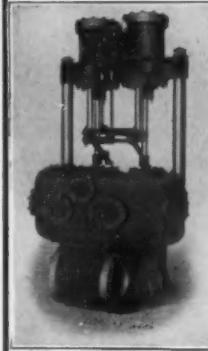
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Was originated by us, and for forty
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"Cemeline" Will Fulfill These Demands.

"Cemeline" is a coating, tried and tested for years, on old or new stone, concrete, cement blocks, brick, wood or metal.

It produces a thorough WATER-PROOFING, the surface being hermetically sealed after the application of "Cemeline."

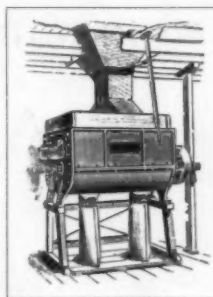
It is absolutely fireproof. Heat and flames will not affect a surface of "Cemeline."

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FLOORING, PAINTS, ETC.

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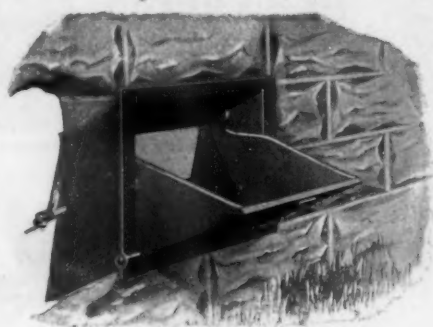
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ROENIUS WOOD AND COAL CHUTES

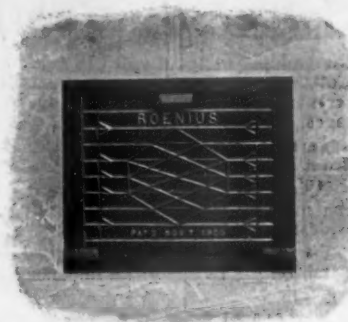
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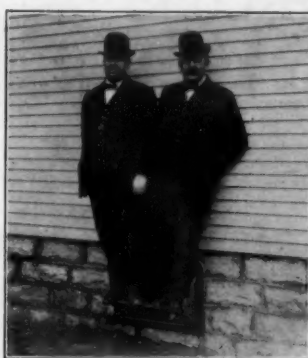
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Protect the building where most of the damage occurs (above the opening)

**STRONG - DURABLE - CONVENIENT - NEAT.
BURGLAR-PROOF REMOVABLE HOPPER**

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Impervious Vitreous China "Linden."
All R. R. Square Lavatory, 30x24;
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This Lavatory is especially adapted
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IN BRASS, COPPER, GALVANIZED IRON
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SIMPLE SYMMETRICAL STORM-PROOF EFFECTIVE
FOR PERFECTLY VENTILATING BUILDINGS OF EVERY CHARACTER

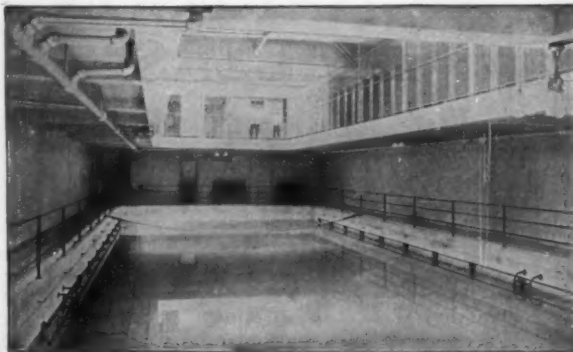
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preserves the texture, prevents any dampness from working inside, and produces a uniformity of color. Petrifax Coating is manufactured from a mineral base, ground as fine as modern machinery will allow. This base is carried into the pores of the concrete, plaster or cement by a volatile liquid, which readily evaporates, leaving a hard surface which will not crack, chip or peel off.

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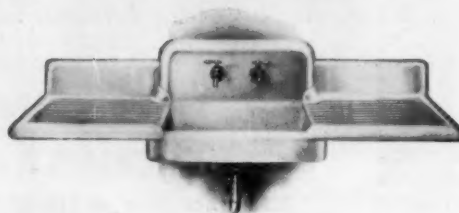
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For further particulars see catalog "F," copy of which will be mailed on application.

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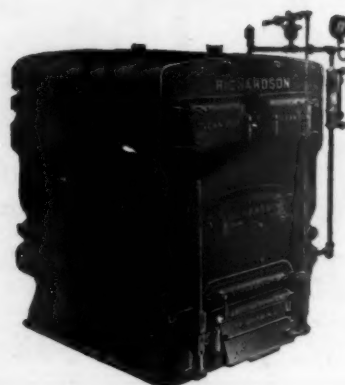
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"RICHARDSON" BOILERS

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We also make
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the most comprehensive and beautiful in the country. Each piece is perfectly shaped, thus insuring sharp, clean and beautiful effect.

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SAVE YOUR COLOR SCHEME

and yet place your granite contract with one firm. We can furnish a pink granite base, with either our Woodbury Gray or our Hardwick White Granite for the superstructure, or we can give you a patriotic polychrome of all three: red (pink), white and blue (gray). Our facilities are unsurpassed.

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Oak and Tile Exteriors, lined with either Opal Glass, White Enamel, or White Tile.

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Branch houses in principal cities of
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Metal Lumber I-Joist.

BERGER'S

Metal Lumber

Special metal shapes—Joists, Channels, Angles, etc., to take the place of wood structural members in dwellings and similar structures, also for floors and partition work in larger buildings. Prongs for attaching metal lath are punched out on the members and quickly clinched over the lath with a hammer.

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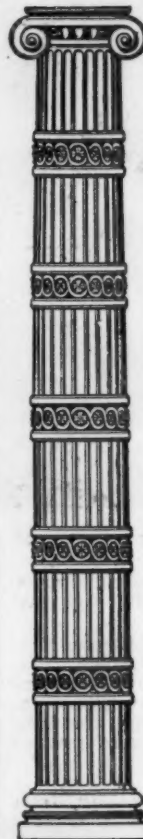
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Metal Lumber Channel Stud.



It's so good
that 23,000
barrels are
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manufactures the
Highest Grades of
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Nonpareil Cork Pipe Covering

For Brine, Ammonia, Ice Water and Cold Water Lines



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Cork Pipe Covering

Its Composition — pure granulated cork compressed and baked in molds of proper shape and size, the outer and inner surfaces being coated with mineral rubber. It is of necessity, therefore light and clean.

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ARMSTRONG CORK COMPANY, INSULATION DEPARTMENT, Pittsburgh, Pa.

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The Bohn Syphon Refrigerators

ARE used exclusively by the Pullman Company and all railroad companies for dining, buffet and refrigerator cars.

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Many of the most exclusive clubs and hotels in the United States and Canada are using Bohn Syphon Refrigerators, notably the Knickerbocker Club and the Waldorf-Astoria Hotel, New York; The Bellevue-Stratford Hotel,

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The Fred Harvey System, operating on the Sante Fe Railroad, use the Bohn Syphon Refrigerators in their lunch rooms, hotels and commissaries.

These statements you will recognize as the strongest of endorsements. You will not make a mistake in specifying

Bohn Refrigerators

Write for 1909 catalogue of Bohn Syphon Refrigerators, just out of press.

White Enamel Refrigerator Co.

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St. Paul, Minn.

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SOUTHERN YELLOW PINE

For Interior Finish and Flooring

Every architect should know, and perhaps does know, that ***Southern Yellow Pine*** for finish or flooring, combines all of the salient features of hardwoods:

Beauty, Service, Durability, Economy, Sanitation, Class, Distinction, Susceptibility to High-Class Finish.

It is not a material which will answer the purpose merely because it can be had readily from any good mill, but it is as good from every standpoint as the best of hardwoods and cheaper.

Don't rely on theories, but carefully investigate facts. Statistics and information compiled and distributed by the United States Government recently, show that ***Southern Yellow Pine*** has greatly increased in production and consumption year after year, and in a much larger proportion than other woods.

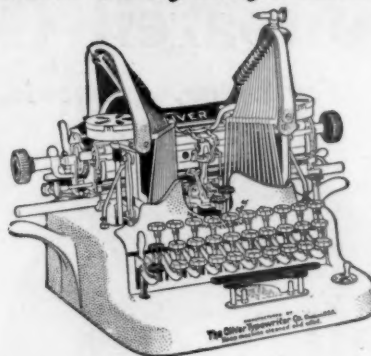
Such authoritative facts are convincing evidence of the true merits of ***Southern Yellow Pine***. It is specified by leading architects and used by the best builders which should cause the architects who are specifying more expensive hardwoods, to look into the matter critically. They will please their clients better and save them money by doing so.

Should any lumber dealer fail to furnish any Yellow Pine building material specified according to our Standard Rules for manufacture, kindly write us.

Yellow Pine Manufacturers' Association

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17 Cents a Day Buys an Oliver



SAVE YOUR PENNIES AND OWN

The OLIVER Typewriter

The Standard Visible Writer

Can you spend 17 Cents a day to better advantage than in the purchase of this wonderful machine?

Write for Special Easy Payment Proposition
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310 BROADWAY, NEW YORK CITY, N. Y.

Tables of Stresses in Roof Trusses

By H. C. HEARNE
Structural Engineer, New York

7x10 in., cloth, with diagrams, \$4.00 net, postpaid

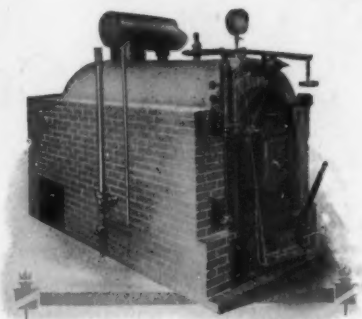
This is pre-eminently a labor-saving book. It gives in tables the stresses in trusses in most common use, the compression members and the tension members. These are worked out for 13,500 different trusses and the number is increased several thousand times, making millions of actually figured trusses, the only condition being that the total load on the truss agree with the "total load on truss" as found in the tables. For all ordinary trusses there are days of figuring saved.

The book covers Simple Fink Trusses, Fan Trusses, Fink Trusses, Compression Members, Tension Members, Extracts from Building Laws of Various Cities.

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THE AMERICAN ARCHITECT

239 WEST 39th ST., NEW YORK



SHIFTING WINDS Cause Emigration in Homes Not Properly Heated

During this protracted winter weather we've been having, new buildings are being planned for erection next Spring. (O, you Spring!) Don't let the people who are to live in them be forever moving to get out of the way of the cold; to the west side when the wind blows from the east, and when the wind changes and blows from the west to take up their beds and walk east—to the kitchen. From north to south and from south to north again. In other words, *the wind decides which room they should occupy.*

Now don't make any blunder that is going to make your clients become *indoor pedestrians* and *baggage smashers*. Let the Old Man Behind the Boiler tell you why these shifting winds are not the Boss in buildings heated by KEWANEE Fire-box Boilers. The fretful shifting of heat happens right along with the old-fashioned furnace (peace to its ashes) and it also happens with certain loose-leaf boilers (sections 1 to 8 inclusive), which are spoken of so *ferociously*, *fervidly* and *fluently*. There isn't a high-class steamfitter in business, nor a finished Architect who will not say that every man who bought a KEWANEE Boiler couldn't get out of it the maximum of satisfaction.

Remember the KEWANEE Firebox Boilers will positively do what they are rated to do. They have a big combustion chamber. Are perfectly safe and will last a lifetime.

See the Old Man Behind the Boiler. He has callouses on his hands from making boilers. He isn't windy, but he knows why the wind won't affect your homes or drive you from one room to another if you have a KEWANEE boiler in it.

Ask him. He answers quickly.
It's Catalogue 54.

KEWANEE BOILER COMPANY
KEWANEE, ILLINOIS

"Out of the Ordinary" Roof Slates

We furnish roof slate of an especial high quality for those who require slate better than the "ordinary stock kind," and in unfading colors.

Blue Black Slate Red Slate

Our quarries are situated in different parts of the country, each location furnishing a special color or grade of unvarying quality.

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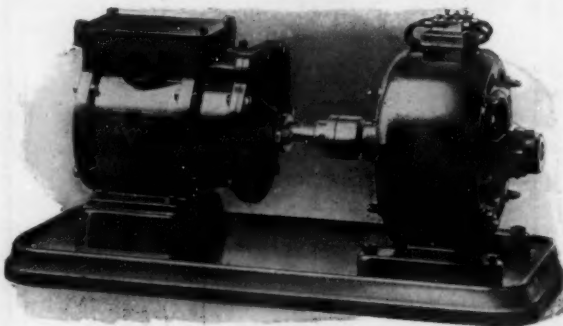
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| 1—No sliding blades in pumps. | 3—80% efficiency. | 5—Discharges the dirt direct to the sewer. | 7—Requires less floor space. |
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In the Kewanee System, there is no attic or elevated tank to leak, freeze, overflow or collapse, or to mar the beauty of the scenery. Instead, a Kewanee Pneumatic Tank is placed in the **cellar** or buried in the **ground**. Water is pumped into this tank from any source of supply, with any good pumping power; and it is delivered to the fixtures by **air pressure**.

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Residence of Gen. H. O. Corbin. D. H. Burnham Co., Architects.

Mr. R. J. Bagby, whose residence is illustrated on this page, wrote: "The Kewanee System works perfectly and is satisfactory in every respect."

Rev. J. Wilbur Chapman, whose place is shown below says: "We are perfectly delighted with the Kewanee System which supplies our country house with water, and I wish again to thank you for sending me so fine an outfit."

Mr. B. M. Hord's compliment is this: "My Kewanee System is absolutely perfect."

Gen. H. O. Corbin said: "The Kewanee System works better than I thought possible—all like it very much."

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H. N. Edwards, San Jose, Cal.

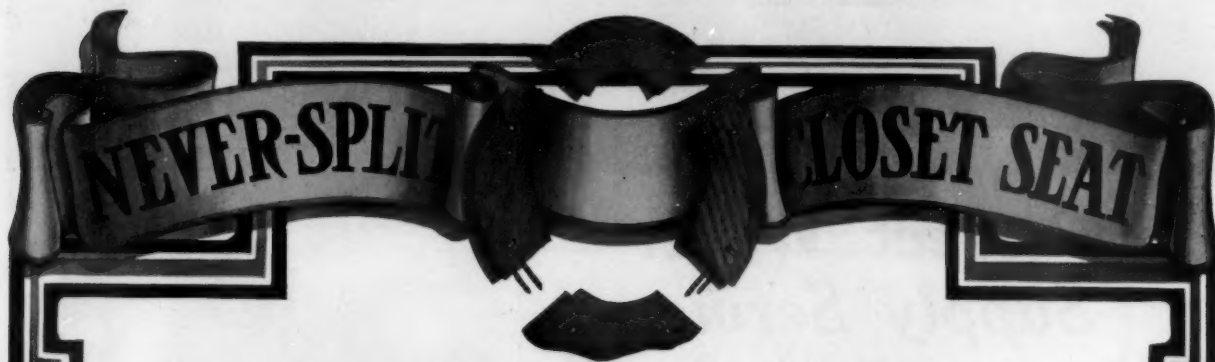


Rev. Dr. J. Wilbur Chapman, Winona Lake, Ind.



B. M. Hord, Nashville, Tenn.

Three Bungalows supplied with water by Kewanee Systems



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or split.

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Arches may be plastered the day after they are laid, if necessary to rush work.

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Tile Arches assist the wind bracing of the structure because they fill the total depth of the steel beams, and act as horizontal bracing for the entire structure. In comparison with this, concrete floor slabs rest only upon the upper third of the beams, are usually one-third as deep as Tile Arches, can not efficiently transmit the horizontal stresses caused by wind pressure in high buildings, and, by reducing the efficiency of the floors as braces, increase the amount of steel necessary to provide against horizontal stresses.

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Tile Arches weigh less per square foot than any other form of fire proof floor construction of equal strength, and, consequently, greatly reduce the dead load on the structural steel and foundations.

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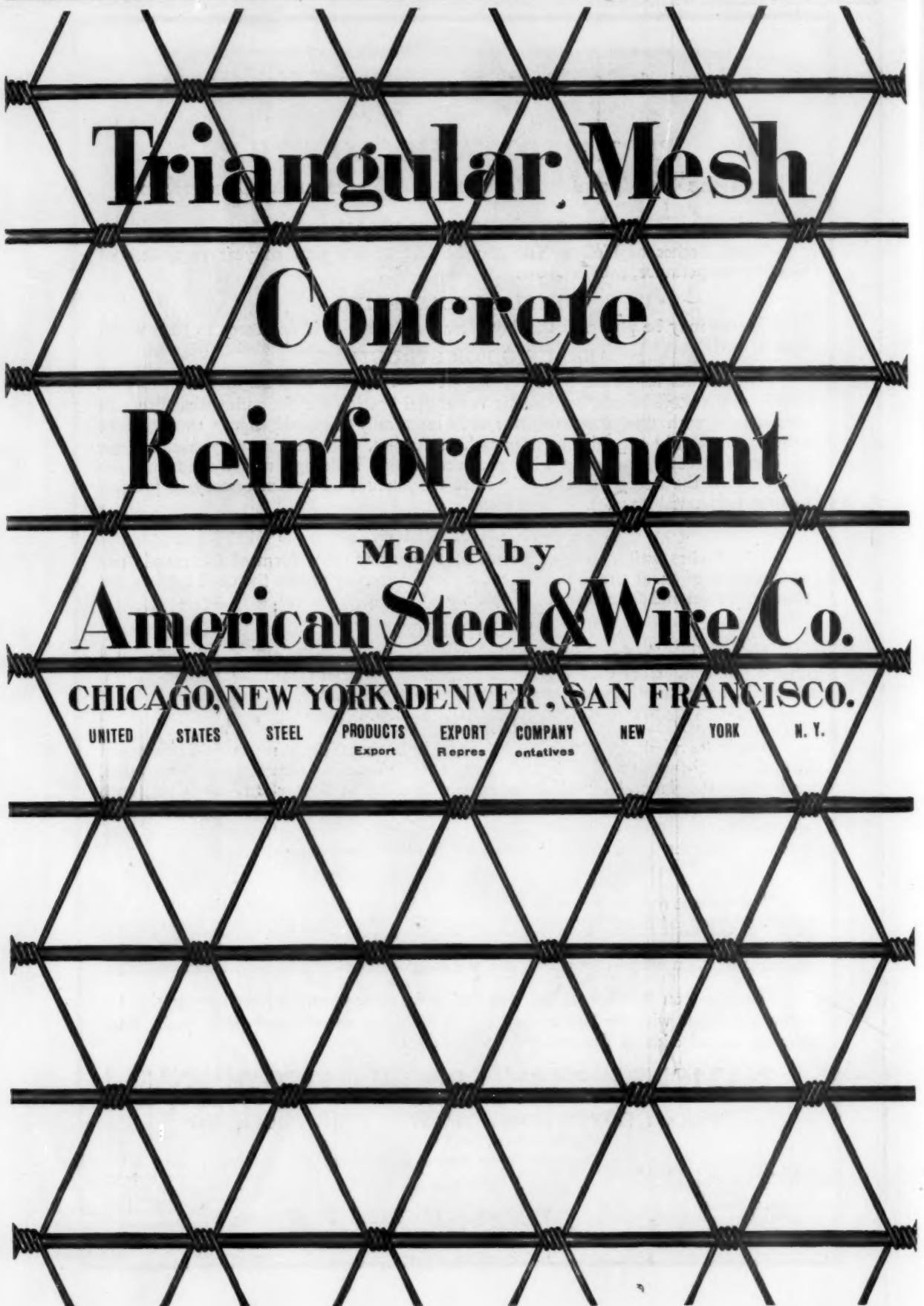
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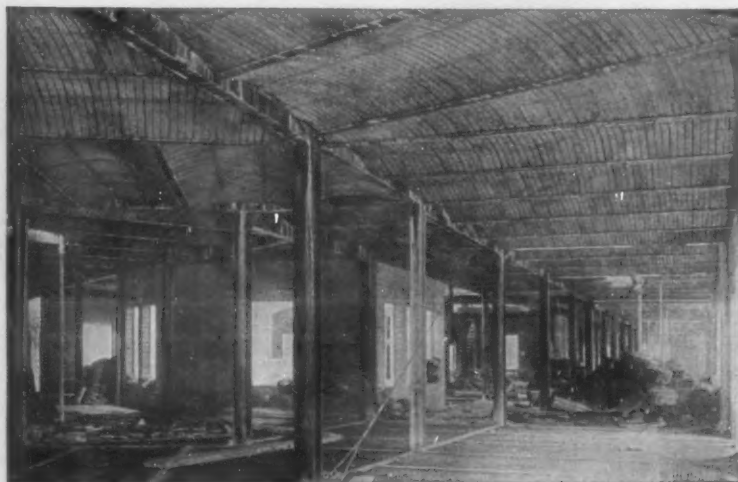
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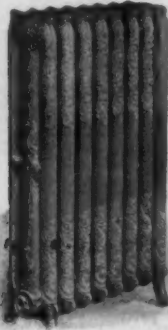
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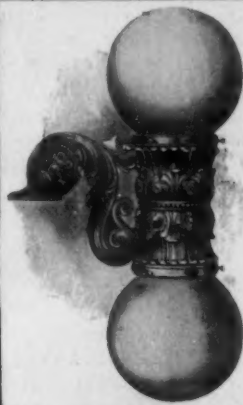
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CURRENT NEWS

UNIVERSITY OF PENNSYLVANIA, IT IS REPORTED, WILL SOON ERECT A BUILDING TO HOUSE ITS ARCHITECTURAL SCHOOL

An architectural building is probably the next new structure that will be added to the University of Pennsylvania's plant of 70-odd buildings, according to a well-founded rumor. The architectural school, founded in 1890, has been housed ever since on the fourth floor of College Hall. The department at present, with students from all parts of the Union and from seven foreign countries, is badly crowded. Architecture students and alumni have been petitioning the trustees to erect an adequate building for years.

Provost Charles C. Harrison is enthusiastic over the idea. "We shall not be wholly contented," he said, "until at the University of Pennsylvania there shall have arisen this new building, which shall typify, in perfection of conception and design, the noble profession to whose highest purpose it shall be designated."—*Philadelphia Record*.

ART GIFTS TO BRITISH NATION. DR. MOND'S COLLECTION OF OLD ITALIAN MASTERS VALUED AT \$1,000,000

The conditions under which Dr. Ludwig Mond's magnificent collection of old Italian masters, formed under the advice of the eminent critic, Dr. Richter, are left to the National gallery, will soon be made public.

Two panels by Botticelli, illustrating the life of San Zenobia are credited with being the only genuine Botticellis in an English private gallery. The third panel of this series is in the Dresden museum. A triptych of "Christ on the Cross," by Raphael, is a very early work for which Dr. Mond paid a fabulous price after it had realized £11,130 at the Earl of Dudley's sale in 1892. The Venetian school is well represented, Gentile Bellini by a "Virgin and Child," and Giovanni Bellini by a "Madonna." Both are from the Eastlake collection.

The value of the collection is estimated at \$1,000,000.—Washington (D. C.) *Post*.

CEMENT HOUSES IN LOST MEXICAN CITY. TOWN DESERTED IN 1450 IS BEING UNCOVERED BY ARCHAEOLOGISTS

One of the most important discoveries which has been made in many years is the recent unearthing by Prof. Ramon Mena, the archaeologist of Mexico, of the ancient Texcocan city of Otumba, which is located about five miles from the present city of Otumba and about 15 miles from San Juan in Teotihuacan.

The city flourished during the reign of Netzahualtcoyotl, King of Texcoco, in the middle of the fifteenth century, or somewhere near 1450 A. D., before the advent of Cortes.

Professor Mena believes that Otumba will rank with Teotihuacan in importance to the archaeological world, as it is even larger in extent than that city, and presents almost analogical characteristics in the building scheme—the pyramid, teocali, etc.

Professor Mena discovered, in the investigations

which have thus far been made, a pyramid 80 feet high and about 650 feet in circumference. This is almost as large as the Pyramid of the Moon, in Teotihuacan, and is of the same general form.

Two houses were unearthed the first of which is of stone, with the stone walls, or what is left of them, about six feet in height. The other house, probably the resident of some priest of very high rank, was of cement; floors of cement and walls of cement, the latter being frescoed in red and blue—the whole being in a perfect state of preservation. This house contains three rooms and a cellar. The cellar also contains several rooms, all with floors of cement.

Near this house was discovered a "teocali," or temple, with the platform and walls still preserved. One wall was something over two meters thick, which denotes the strength with which the Texcocans and Aztecs of a civilization which antedates any other in America by several generations, used to build their public edifices. The bases, upon which evidently reposed four columns, were also discovered in a good state of preservation on the teocali.—*Baltimore News*.

BUILDING OPERATIONS DURING DECEMBER, 1909

Building operations during December in the principal cities of the country were far ahead of the corresponding month a year ago. Permits were taken out in 51 cities according to official reports to *Construction News* for the erection of 7,749 buildings, involving a total expenditure of \$43,262,163, against 7,839 buildings, costing \$37,085,146 for December, 1908, a decrease of 90 buildings and an increase of \$6,177,017 or 16 per cent over the same month a year ago.

About half of the cities show increases. The principal cities of the country make a very good showing. New York, borough of Manhattan, with an increase of 54 per cent, Brooklyn 57, Chicago 27, Pittsburgh 16, Newark with an increase of 62 buildings, Cedar Rapids, Iowa, 344; Atlanta, Ga., 246; Des Moines, 1,112; Memphis, 51; Grand Rapids, 164; Worcester, 36; Norfolk, 86; Richmond, 33; Dallas, 14; Chattanooga, 102; Terre Haute, 142; Sacramento, 232. It will be seen that the large increases are in the smaller cities. Surprising as it may seem, Philadelphia has a decrease of 8 per cent, Seattle 31, St. Louis 36, Baltimore 12, St. Paul 36, Denver 51, Buffalo 24, Kansas City 52, Salt Lake 425, Oakland, 41, Spokane 58, Birmingham 16, Omaha 68, Toledo 51, Louisville 38, Mobile 15, Topeka 60, St. Joseph 89, Davenport 78, and Houston 63 per cent.—*Chicago Tribune*.

MUST THE AMERICAN CITY BE UGLY?

"Our cities are now largely in the mob state," writes Arnold W. Brunner, in the issue of *Harper's Weekly* for January 15. "Happily the demands of commerce and civic beauty are not antagonistic; as a matter of fact the contrary is true. Civic art pays and pays well, not alone by making healthier, happier, and better citizens, but in dollars and cents. It is the fear of expense

that has to a great extent prevented our cities from adopting plans for their improvement. In America we have been so careful of the individual that the community has been allowed to suffer, and the conservation and jealous care of private interests has been carried to such a point that the most necessary improvements are delayed or entirely defeated. However, we do not despair for our future. The love of beauty is growing rapidly, and while it was once thought to be the prerogative of the rich, it is now understood to be the right of every citizen. Art for people must be better than art by the people. I believe that it is incumbent upon the State to take the lead and provide examples for the individual to follow."

PERSONAL

Stebbins & Watkins, architects, announce the removal of their offices from 42 Chauncy Street to the Edmunds Building, 164 Federal Street, Boston, Mass.

Mr. Theo. C. Link, architect, Carleton Building, St. Louis, Mo., advises us that he has admitted to partnership, his son, Karl E. Link, and will continue practice under the firm name of Theodore C. Link & Son.

CONFERENCE OF SUPERINTENDENTS OF CONSTRUCTION OF U. S. PUBLIC BUILDINGS

On January 21 and 22 a number of Superintendents of Construction of Public Buildings under the Supervising Architect and the Treasury Department met in Chicago and formed an organization under the title of "Treasury Construction Society" for the purpose of mutual benefit to its members and improvement of the service in which they are engaged.

Some twenty-one men, constituting about one-sixth of the men in this branch of the service, attended the meeting. The work of the service extends over the United States, and to the Hawaiian Islands and Porto Rico.

The officers elected for the current year were:

Thos. Appleton, Alton, Ill., president; Allyn A. Packard, Chicago, Ill., 1st vice-president; Richard Fourchy, Kansas City, Mo., 2d vice-president; W. D. Windom, Washington, D. C., corresponding secretary; L. R. Whitted, St. Louis, Mo., secretary-treasurer.

This is the first meeting and first organization of men in this branch of the service. Meetings are to be held annually, in places where it is possible to get the largest attendance.

EXAMINATION FOR POSITION OF CITY ARCHITECT, CHICAGO, ILL.

The Civil Service Commission of Chicago will hold an original entrance examination for City Architect, salary \$4,500, commencing February 8th, 1910, at 117 Market Street.

Local residence will be waived, out of town candidates being permitted to take the examination.

Competitors must file applications with the Commission, 405 City Hall, before 5 P. M., February 7th.

INDUSTRIAL

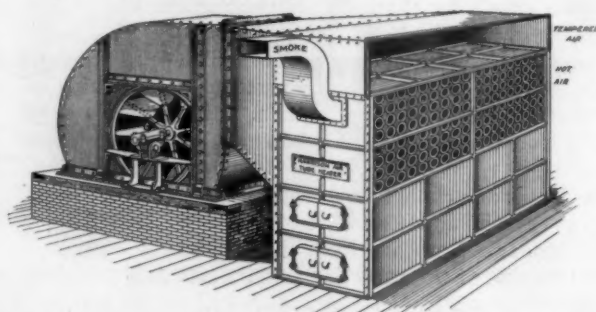
UNIVERSAL PORTLAND CEMENT

Monthly Bulletin No. 97, for December, 1909, issued by the Universal Portland Cement Co., 115 Adams street, Chicago, Ill., presents in size and character of text and illustrations all the characteristics of a modern magazine. It presents a great number of illustrations showing the adaptability of cement in various forms of construction, both artistic and utilitarian. Among the former is a well-designed drinking fountain designed for use in Oak Park, Ill. This example presents so many advantages over the usual cast-iron form that we could wish for the more general erections of fountains of this character.

AIR TUBE HEATERS

In the Harrison Air Tube Heaters manufactured by the Harrison Engineering Co., with New York office at 42 East 23d St., is presented a novel method of heating pure air to a desired temperature.

In one of the common forms of steam boiler, the temperature of the water is raised by passing it through tubes, surrounded by heated air. In the Harrison System, the air for heating and ventilation takes the place of the water, and is passed through the tubes at high velocity. These air tubes, four inches in diameter and four feet long, are supported at the ends and in the center, and are located just above the combustion chamber. This method will be readily understood by reference to the accompanying illustration.



Among the many advantages claimed for the Harrison System are its low cost of maintenance, the ease by which it may be taken down and reassembled, and its ready control. The temperature may be controlled by thermostatic regulation of the drafts and dampers.

Its capacity can be insured to meet every requirement, as it can be built to any size, and in its application it is intended to meet the needs of any building where ventilation is required.

The Harrison Engineering Co. state that it is especially adapted to garages and other buildings where ventilation must be provided to prevent the accumulation of explosive vapors or dust.

Mr. F. A. Foster, late N. Y. manager of Wadsworth-Howland & Company, has become connected with Samuel Cabot, Inc., manufacturing chemists, of Boston. He will handle all of their specialties, including Cabot's Creosote Shingle Stains, Waterproof Cement Stains, Waterproof Brick Stains, etc.



Forestry Building, Seattle—Yukon-Pacific Exposition.
Saunders & Lawton, Architects, Seattle. Stained with Cabot's Shingle Stains.

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BUILDING NEWS

To be of value this matter must be printed in the number immediately following its receipt, which makes it impossible for us to verify it all. Our sources of information are believed to be reliable, but we cannot guarantee the correctness of all items. Parties in charge of proposed work are requested to send us information concerning it as early as possible; also corrections of any errors discovered.

ALABAMA

ATTALLA.—Post Office Department has ordered erection of modern post office. Plans prepared. J. J. Stephens, postmaster.

ATTALLA.—Nashville, Chattanooga & St. Louis Railroad Co. will erect passenger station at once. John Lane, superintendent.

BESSEMER.—Methodist Church is considering erection of edifice. Dr. T. F. Robinson, chairman building committee.

BIRMINGHAM.—Wimberly-Thomas Hardware Co. is considering erection of \$50,000 annex on First Ave.

BIRMINGHAM.—Fraternal Hall Association has adopted plans by Architect S. Scott Joy for erection of fraternal hall.

Temple Emanuel Building Committee will at once adopt plans for \$75,000 temple.

GREENSBORO.—Hale County will erect \$22,000 jail.

HUNTSVILLE.—Citizens will vote in February on \$20,000 bonds to purchase Calhoun property as site for city hall, Carnegie Library and Y. M. C. A. home.

TUSCALOOSA.—Phi Kappa Sigma Fraternity will erect chapter house on University Ave.

ARKANSAS

ASHDOWN.—J. M. Johnson will erect forty-room three-story hotel in near future.

FORT SMITH.—School Board will at once let contract for erection of \$65,000 high school.

NEWPORT.—Methodist Church, destroyed by fire, will be rebuilt.

CALIFORNIA

LOS ANGELES.—Jas. Moses will erect fourteen-story \$1,000,000 building at corner of Main and Seventh Sts.

NAPA.—Napa Parlor of Native Sons will erect building at Coombs and First Sts. N. F. Coombs, president.

OAKLAND.—Supervisors will offer prizes for best plans for proposed county infirmary building. Wm. Mooser, president.

ORLAND.—Stony Creek Lodge of Odd Fellows will erect \$12,000 building at corner of Colusa and Fifth Sts. G. E. Wright, Chairman, Building Committee.

OROVILLE.—Methodist Congregation will at once erect \$25,000 edifice. A. Vaughn, chairman, Building Committee.

OROVILLE.—Raymond & Goldstein will erect building on Myers St.

POMONA.—Architect Ferd. Davis has prepared plans for erecting \$8,000 club house.

ROSEVILLE.—Fire house will be erected in Sierra Vista Park. Trustees Wells and Theile, committee.

SAN FRANCISCO.—Swift & Co. will erect warehouse and packing building at corner of Pacific and Davis Sts.

SAN FRANCISCO.—A. W. Burgen, 222 Kearny St., will erect residence on Jackson St.

SAN FRANCISCO.—Nicholson & Co., architects, have prepared plans for erection of apartment building on corner of Van Ness and Willow Aves.

SAN LEANDRO.—Architect W. H. Weeks, 251 Kearny St., San Francisco, has prepared plans for proposed \$70,000 school.

SANTA ANA.—Local lodge of Elks will erect three-story, \$30,000 club house.

SANTA CLARA.—Architect Abner Pissis, Flood Bldg., San Francisco, has completed plans for ten buildings to compose proposed college of Santa Clara. Rev. Jos. P. Lydon, vice-president.

WILLOWS.—County Board of Education is considering issuance of bonds for erection of high school.

COLORADO

GRAND JUNCTION.—Woodmen of the World, Book Cliff Camp, No. 37, will erect four-story \$30,000 lodge building on S. Fifth St. Plans approved.

PUEBLO.—St. Patrick's Church has accepted plans for erection of \$25,000 school. Rev. T. B. Schimpf is interested.

CONNECTICUT

HARTFORD.—Erection of \$450,000 municipal building near Memorial Art Museum is under consideration.

DELAWARE

NEWARK.—Dr. J. Herbert Watson will erect residence in spring.

American Hard Fibre Co. will erect number of buildings at plant.

DISTRICT OF COLUMBIA

WASHINGTON.—Plans have been approved by Postmaster-General Hitchcock for post office building to be erected near Union Station at a cost of \$3,500,000.

Washington Hotel Company has been incorporated to erect \$400,000 hotel on North Capitol St. E. O. Whitford, A. A. Birney and others are interested.

Hill & Kendell, architects, Corcoran Building, will prepare plans for erection of building for Episcopal Eye, Ear and Throat Hospital. Gracie Richards, chairman.

FLORIDA

FORT MYERS.—Bonfoey & Elliott, architects, Tampa, have completed plans for erection of church at this place. Rev. W. J. Tyrrell, pastor.

JACKSONVILLE.—Morocco Temple, Nobles Mystic Shrine, will erect \$75,000 temple at corner of Monroe and Newnan Sts. Plans by Architect H. J. Klutbo; T. G. Hutchinson is interested.

PENSACOLA.—Bids will be received Feb. 8, 7.30 p. m., for erection of jail for Escambia County. Jas. Macgibbon, clerk, Board of County Commissioners.

TALLAHASSEE.—Leon County is considering erection of \$25,000 high school.

GEORGIA

ATLANTA.—Western Heights Baptist Church will erect \$50,000 institutional church. Rev. A. C. Shuler, pastor.

Benson Lithia Co. will erect \$10,000 building at corner of James and Forsyth Sts.

MACON.—Grand Jury has recommended erection of new boys' high school.

ILLINOIS

BELLEVIEW.—Public Property Committee of St. Clair County Board of Supervisors has engaged Architect Otto Rubach to draw up sketches for plans for proposed additions to county court house.

CHICAGO.—Architects Marshall & Fox, 164 Dearborn St., are preparing plans for erection of ten-story, \$600,000 apartment building at corner of Lake Shore Drive and Oak St. for Potter Palmer Estate.

DECATUR.—Rev. J. F. Mills, First Baptist Church, is having plans prepared for erection of residence in Oakdale.

EAST ST. LOUIS.—Architect A. B. Frankel, 208 Collinsville Ave., will prepare plans for erecting modern five-story building.

MONMOUTH.—Erection of \$50,000 Y. M. C. A. building is being considered.

PARIS.—Architect J. M. Ballie, Y. M. C. A. Bldg., Peoria, has completed revised plans for erection of \$20,000 hospital for Dr. G. W. Fuller. Bids will be taken about Mar. 1.

PARIS.—Austin Lodge, I. O. O. F., will erect \$30,000 building on West Wood St. Plans prepared.

ZION CITY.—A. O. Boland, 3002 Ezra Ave., is considering erection of store and flat.

INDIANA

ELWOOD.—Local Red Men are considering erection of home on South A St.

GREENCASTLE.—Bids will soon be asked for erection of proposed federal building.

INDIANAPOLIS.—Trustees of Methodist Hospital have approved plans for \$130,000 four-story building. Vonnegut & Bohn, Architects.

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IOWA

COUNCIL BLUFFS.—Polk County Supervisors will call election on \$100,000 bonds for erection of hospital.

DES MOINES.—Drake University is having plans prepared for erection of \$6,000 addition to medical school at Fourth and Center Sts.

DES MOINES.—Bids will be received until Feb. 14, 9 a. m., for erection of market house. Wetherell & Gage, Youngerman Block, architects.

FORT DODGE.—M. W. Jencks, Grand Theater, Sioux City, is interested in erection of theater.

MARSHALLTOWN.—Iowa Central Railway Company will erect \$30,000 combined warehouse and office building in spring.

KANSAS

COFFEYVILLE.—Erection of armory is being considered. Col. McCrum is interested.

DODGE CITY.—Citizens will vote on \$50,000 bonds to erect high school.

GREENSBURG.—Kiowa County is considering erection of court house.

LYONS.—Rice County Commissioners are considering plans for proposed court house.

NICKERSON.—Local Methodists will erect \$20,000 church. Rev. Van Clere, pastor.

KENTUCKY

FRANKFORT.—Bids will be received until March 14 for extending and remodeling post office. Jas. K. Taylor, Washington, D. C., supervising architect.

HINDMAN.—W. C. T. U. will replace buildings destroyed by fire. A. E. Smith, superintendent.

LOUISIANA

CROWLEY.—St. Michael's Catholic Church is considering erection of edifice. Rev. Fr. Isenberg is interested.

MAINE

ORONO.—Bids will be received until Feb. 25 for erection of dormitory at University of Maine. G. E. Fellows, president.

MARYLAND

BALTIMORE.—Architect W. N. Hildebrand has completed plans for erection of ten brick dwellings on Payson St. Cost, \$24,000.

Architect Louis Levi, American Bldg., has completed plans for dwelling to be erected on Main Ave., Forest Park, for Martin Meyers.

Architect J. E. Sperry, Calvert Bldg., has completed plans for several buildings to be erected at Overlea by Maryland School for Blind.

Southern M. E. Church is considering plans for \$100,000 edifice to be erected at corner of Charles St. and University Parkway. Rev. Dr. E. V. Regester, presiding elder.

BALTIMORE.—Receivers for Washington, Baltimore & Annapolis Electric Railway Company have commissioned Architect Otto G. Simonson to draw plans for car barn and freight terminal station.

BALTIMORE.—Woman's Industrial Exchange has decided to erect building. Mrs. C. W. Bassett, president.

BALTIMORE.—McKim, Mead & White, 160 Fifth Ave., New York City, architects, have prepared plans for erection of fourteen-story building for *Baltimore News*.

Architects Wyatt & Nolting, Keyser Bldg., will at once let contract for erection of five-story warehouse at 24 Hopkins Place.

Architects Emmart & Emmart, Union Trust Bldg., are preparing plans for erection of residence at Roland Park.

BALTIMORE.—Western Maryland Railroad will erect railroad station, pavilion and other buildings at Pen-Mar. I. Leroy, Union Bridge, supervisor.

Architect J. F. Gerwig, 210 East Lexington St., has completed plans for erection of ten dwellings on Baker St. Cost, \$16,000.

MASSACHUSETTS

ATHOL.—N. D. Cass will erect \$10,000 addition to toy factory; plans completed.

Union Twist Drill Co. will soon begin erection of addition to plant.

BOSTON.—School Committee, Chairman Ellis, has asked for authority to borrow \$2,500,000 for new buildings. Site at Washington and Common Sts. has been selected for proposed high school of commerce.

FRANKLIN.—Erection of Y. M. C. A. building is being considered. A. W. Peirce, president.

GLOUCESTER.—Associated Charities Association is urging erection of \$7,000 addition to almshouse.

HOLYOKE.—Architects Ellsworth & Howes, 365 Dwight St., have prepared plans for erection of four-story building at 474 High St. for Collins & Murray. Cost, \$40,000.

LOWELL.—Polish National Church of St. Kazimierz is considering erection of edifice on Lakeview Ave.

LYNN.—Architects Edwin Earp & Son, 333 Union St., have prepared plans for large number of apartment houses.

J. Callum and Joseph Skoinick will soon build twelve-apartment house on Sagamore St.

Max Friesch will erect twelve-apartment house on Vine St.

MICHIGAN

CROSWELL.—Architect W. D. Butterfield, 614 Stevens Bldg., Detroit, is preparing plans for erection of \$20,000 high school. Dr. T. S. Kingston is interested.

DETROIT.—C. M. Bartberger & Son, architects, Westinghouse Bldg., Pittsburg, have completed plans for erection of \$50,000 bakery for Morton Baking Co. Estimates will be taken about Feb. 23.

KALAMAZOO.—Arcade Co. will erect hotel on W. Main St.; total cost, \$500,000. Plans being prepared. J. H. Burke, Secretary.

MONROE.—Architects Van Leyen & Schilling, 1117 Union Trust Bldg., Detroit, are planning erection of \$50,000 high school. T. R. Watson, secretary, Board of Education.

MINNESOTA

DULUTH.—Nelso Bros. Knitting Co. will erect \$25,000 office and factory building on West Superior St.

West End Automobile Co. is considering erection of \$10,000 garage on Superior St.

West End Order of Good Templars is considering erection of home on W. Second St.

ST. CLOUD.—Atlantic Coast Line Railroad will erect station. W. M. Riddle, Manager.

ST. PAUL.—Schwartzchild & Sulzberger, Chicago, will erect \$45,000 warehouse at corner of Sixth and Pine Sts.

MISSOURI

COLUMBIA.—C. B. Miller Shoe Co. is considering erection of three-story building.

INDEPENDENCE.—Contract will be awarded about April 1 for erecting proposed \$65,000 post office. James K. Taylor, Washington, D. C., supervising architect.

KANSAS CITY.—R. G. Barnett, 2640 Prospect Ave., will erect two-story residence on corner of Thirty-sixth and Charlotte Sts.

MONTANA

MILES CITY.—Link & Haire, Butte, architects, have prepared plans for \$75,000 building for the First National Bank of this city.

NEBRASKA

BROKEN BOW.—Erection of \$50,000 court house is being considered.

SIDNEY.—Cheyenne County is considering erection of court house.

NEW JERSEY

ATLANTIC CITY.—Council is considering erection of fire house at corner of Atlantic and California Aves.

Local Eagles have decided to erect home.

ATLANTIC CITY.—Mahlon Newton, Green Hotel, Philadelphia, will erect \$17,000 cottage on Plaza Place.

ELIZABETH.—H. H. Isham will erect structure in near future on Westfield Ave.

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ELIZABETH.—Hildebrandt Co., 8 Jersey St., will erect large warehouse on W. Grand St.

GREENVILLE.—Architect John A. Resch, 170 Lexington Ave., Jersey City, has completed plans for Alfred J. O'Neil, Ocean and Lembeck Aves., for \$7,000 two-family residence on Garfield Ave.

JERSEY CITY.—United Wireless Co., 42 Broadway, will erect \$50,000 factory at Florence and Warrick Sts. Plans being prepared.

JERSEY CITY.—Architect F. W. Glanzmann, 682 Ocean Ave., has completed plans for erection of factory on Pacific Ave. for W. K. Hamilton, 42 Arlington Ave.

W. E. England, 370 Bergen Ave., will erect three two-family houses, cost, \$9,000, on Myrtle Ave.

MAYS LANDING.—Rev. S. K. Moore, pastor of the Mays Landing M. E. Church, will draw plans for \$12,000 improvements to high school building.

NEWARK.—Architect W. E. Lehman, 738 Broad St., has completed plant for erection of department store at 151 Market St. for Goerke Co.

PLAINFIELD.—Site at Watchung Ave. and East Second St. has been purchased for erection of \$115,000 Federal building.

TRENTON.—Daniel A. Dugan will erect two brick residences on Olden Ave.

NEW YORK

BROOKLYN.—Jas. Mason, 1654 Tenth Ave., will erect \$6,500 dwelling on Twelfth St.

Kraslow Construction Co., 190 Montague St., will erect four one-story brick stores, cost, \$10,000, on Church Ave.

BROOKLYN.—Louis Mehrmann, 45 Euclid Ave., will erect two two-story dwellings on Etna St., cost \$8,000.

John Ceraso, 107 Skillman Ave., will erect \$12,500 dwelling on Hendrick St.

BROOKLYN.—R. L. Moore, 2571 Pitkin Ave., will erect four two-story brick buildings on Belmont Ave. Cost, \$12,000.

BROOKLYN.—Empire League, 367 Fulton St., will erect four three-story stores and dwellings on Gravesend Ave. Cost, \$22,000.

R. M. Beyers, 59 Pearl St., Manhattan, will erect four-story \$25,000 brick apartment house on Fourteenth St.

Three two-story brick dwellings, cost \$20,000, will be erected on Union St. for Nore-Kellner Construction Co., 877 Park Place.

ELMIRA.—Architects Pierce & Bickford, 118 Lake St., will soon complete plans for erection of academy annex.

NEW YORK.—L. and A. Pincus will erect ten-story apartment hotel at 128 West Forty-seventh St. Geo. and Edw. Blum, 507 Fifth Ave., architects.

NEW YORK.—Astor Estate, 21 Liberty St., will erect three-story \$10,000 brick loft on Greenwich St. P. F. Brogan, 119 E. Twenty-third St., Architect.

Seewacha Realty Co., Westchester Sq., will erect \$10,000 store and dwelling on Westchester Ave. B. Ebeling, 1136 Walker Ave., Architect.

NEW YORK.—Jackson Square Realty Co., 150 Fourth Ave., will erect six-story, \$170,000 garage on Jane St. F. Goodwillie, 1170 Broadway, architect.

Olempia Realty & Construction Co., 30 West Thirty-first St., will erect ten-story, \$160,000 hotel on Forty-seventh St. G. and E. Blum, 505 Fifth Ave., architects.

Sillon Construction Co., 552 Riverside Drive, will erect six-story, \$50,000 flat on Riverside Drive. Schwartz & Gross, 347 Fifth Ave., architects.

NEW YORK.—Architects Milliken & Moeller, 103 Park Ave., have filed plans for erection of eight-story flats at 530 113th St. Cost, \$150,000.

Interborough Rapid Transit Co., 165 Broadway, will erect \$30,000 storage house on 149th St. G. H. Pegram, 165 Broadway, architect.

W. C. Bergen, 180th St. and Andrews Ave., will erect fine dwelling, cost \$45,000, on Aqueduct Ave. C. S. Clark, 445 Tremont Ave., architect.

Marcus Beckman, 2170 Bathgate Ave., will erect \$8,000 store and dwelling on 180th St. Chas. Stegmayer, 168 E. Ninety-first St., architect.

Isaac Bros., Broadway and Great Jones St., will erect twelve-story store and loft building on Broadway.

NEW YORK.—Lord & De Respiris Construction Company, 321 East 116th St., will erect eleven-story, \$175,000 loft on

Thirteenth St. F. C. Zobel, 118 East Twenty-eighth St., architect.

J. A. Adler, Amsterdam Ave. and 163d St., will erect \$18,000 garage at 534 West 168th St. A. L. Kehoe, 1 Beekman St., architect.

Jefferson Construction Company, 418 East 115th St., will erect \$15,000 stable on 115th St. M. W. Del Gaudio, Tremont and Webster Aves., architect.

Greenwich Investing Company, 69 West 138th St., will erect seven-story \$40,000 storage building on Washington St. A. L. Kehoe, 1 Beekman St., architect.

NIAGARA FALLS.—State Reservation Commissioners have approved plans prepared by State Architect for construction of two shelter houses on Goat Island; one will be erected by G. E. Wright at cost of \$20,000, and other by State at cost of \$10,000.

PEN YAN.—Harris Grape Juice Co. will erect factory near Seneca St.

SCHENECTADY.—Wilson, Harris & Richards, Drexel Bldg., Philadelphia, are preparing plans for addition to office building of General Electric Co.

SYRACUSE.—L. G. Leonard will erect three apartment houses at West Onondaga and S. West Sts.

Architect T. J. Gillette, 811 Park Ave., is preparing plans for erection of modern building at 214 James St.

TROY.—Troy Hospital will erect building on Oakwood Ave.

YONKERS.—J. D. G. Generich will erect building this spring at corner of Crary and Prospect Aves.

NORTH CAROLINA

GOLDSBORO.—Bids will be received until Feb. 25, extension of time, for erection of extension to post office. Jas. Knox Taylor, Washington, D. C., supervising architect.

ROXOBEL.—Methodist congregation has accepted plans for proposed church.

WEST RALEIGH.—Preliminary competitive plans will be received by College of Agriculture and Mechanic Arts until Feb. 10 for erection of \$50,000 Engineering Building. D. H. Hill, president.

NORTH DAKOTA

BISMARCK.—Citizens will vote Feb. 10 on \$50,000 bonds for erection of city hall.

OHIO

ALLIANCE.—Board of Education is considering erection of \$20,000 grade school. Chas. Diehl, president.

CATLETTSBURG.—Plans have been accepted for erection of proposed Federal building. W. C. Harper, Postmaster.

CINCINNATI.—Architects G. S. Werner and M. H. Burton are planning erection of \$25,000 residence on Baker Place, East Walnut Hills, for Attorney Frank Densmore.

COLUMBUS.—Architects Richards, McCarty & Bulford, Ruggery Bldg., are preparing plans for erection of bank building for Ohio National Bank.

J. M. Marriott, architect, Hayden-Clinton Bank Bldg., will erect business house on corner of East Long and Pearl Sts.

DELAWARE.—Architects Marriott & Allen, Hayden-Clinton Bank Bldg., Columbus, have prepared plans for erection of \$7,500 residence for Judge E. M. Wickham.

DELAWARE.—Board of Education will replace burned high school with new building.

TOLEDO.—F. Bissell Co. will at once erect warehouse and shop at Avondale Ave., Montrose and Victory Sts.

XENIA.—Site at Main and Collier Sts. has been selected for proposed Federal building.

YOUNGSTOWN.—Plans have been prepared by Knox & Elliott, Rockefeller Bldg., Cleveland, for erection of ten-story hotel at Federal and South Chestnut Sts.

OKLAHOMA

MUSKOGEE.—Smith & Bramlette will erect three-story store and office building on North Second St.

Armour Packing Company will soon begin work on proposed \$40,000 plant.

Judson Wilson will erect furniture factory in this city.

OREGON

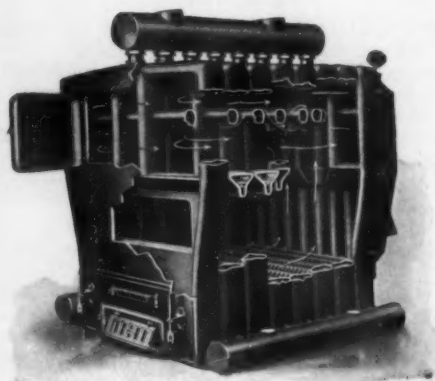
PORTLAND.—Contracts will be let at once for erection of \$30,000 bakery for New York Bakery Co. Frank Legg, 204 East Fifteenth St., architect.

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PENNSYLVANIA

ALTOONA.—M. Berman, Eleventh Ave., is considering erection of business building at 1327 Eleventh Ave.

BRYN MAWR.—Wm. H. Hughes will erect residence from plans prepared by Savery, Scheetz & Savery.

EDGEWORTH.—Bids are being received by R. M. Trimble, Ferguson Building, Pittsburg, for erection of \$35,000 residence for Mrs. D. W. Wallace.

GILESTOWN.—St. Anthony's Polish Catholic Church will erect \$17,000 edifice. Rev. S. Jastrzeboki, Pastor.

MEADVILLE.—Masonic Building Association will erect \$40,000 temple and business building on Chestnut St. J. R. Andrews is interested.

PHILADELPHIA.—W. R. Leeds Republican Association, Tenth Ward, has purchased site at 1627 Arch St. for erection of proposed clubhouse.

PHILADELPHIA.—Thos. Dolan, United Gas Improvement Co., will erect garage on Sansom St. Plans by J. A. P. Cristfield.

Oak Lane Baptist Church will erect \$75,000 edifice at corner of 12th St. and Oak Lane. E. C. Hussey, Architect.

Archbishop Ryan will erect Catholic Church, rectory and school on Tioga St.

Architects Sauer & Hahn, 1112 Chestnut St., are preparing plans for \$100,000 flat building for the Walnut Apartments Company at Fifty-first and Walnut Sts.

PHILADELPHIA.—Architect E. F. Durang, 1200 Chestnut St., is preparing plans for erection of edifice at corner of Nineteenth and Tioga Sts. for Holy Souls' Parish.

Architect C. P. Berger, Penn Square Bldg., is completing plans for erection of vaudeville theater at corner of Front St. and Girard Ave.

Architect W. E. Groben, 6700 N. Sixth St., has prepared plans for \$8,000 residence in Oak Lane Park for C. H. Bridenbaugh.

PHILADELPHIA.—Henry L. Reinhold, Jr., Tenth and Sansom Sts., and H. Lynn Boyer are planning three-family flat house for A. B. Stewart, North Wildwood.

PHILADELPHIA.—City Architect Powell is preparing plans for new police stations at Lawrence and Race Sts. and at Twenty-eighth and Oxford Sts.

Architects Sauer & Hahn, 1112 Chestnut St., are preparing plans for store and manufacturing building to be erected at No. 122 North Thirteenth St.

Architect Peter Kuhn, 3058 North Eighth St., has completed plans for 23 dwellings which James Branigan will erect at Franklin and Butler Sts.

PITTSBURG.—T. C. Jenkins Estate will expend \$1,500,000 in improvements to downtown real estate.

PITTSBURG.—Bids are being received by G. H. Shickler for erection of two \$25,000 apartment houses at Elmer and Summerlea Sts., Shadyside.

PITTSBURG.—Architects C. M. Bartberger & Son, Westinghouse Bldg., have prepared plans and city will take estimates about Feb. 16 for erection of \$80,000 school in Highland sub-district.

SHAMOKIN.—District Attorney A. K. Deibler is interested in erection of number of residences at Market and Walnut Sts.

SPRINGDALE.—Galbraith & Easton, New Kensington, have prepared plans for erection of \$12,000 hospital.

STEELTON.—St. John's Lutheran Church is considering erection of \$6,000 parsonage. Rev. M. P. Hooker, D.D., Pastor.

YORK.—Work will begin in summer on erection of proposed \$265,000 federal building at corner of South George and Princess Sts.

WEST CHESTER.—St. Agnes' R. C. Church has rejected all bids for erecting school; new bids will be asked. Ballinger & Perrot, Philadelphia, architects.

RHODE ISLAND

WESTERLY.—New Haven Road will erect \$250,000 station in this city.

WOONSOCKET.—Erection of \$75,000 armory is being considered. Senator Edw. Atchison, chairman, special committee.

TENNESSEE

CHATTANOOGA.—Board of Directors of Tuberculosis Hospital Association is considering erection of suitable buildings. E. V. Chapin, chairman committee buildings.

CHATTANOOGA.—Knoxville Aerie, No. 1009, F. O. E., is considering erection of \$25,000 building.

Bids will be received until 10 a. m., Feb. 14, for erection of four school buildings.

TEXAS

AUSTIN.—Fred. Connerly, Clerk Supreme Court, is considering erection of building.

AUSTIN.—G. W. Littlefield will erect eight-story building at corner of Sixth and Congress Aves.

DALLAS.—Architect E. J. Russell, St. Louis, has prepared plans for erection of sixteen-story building at corner of Main and Poydras Sts. for syndicate headed by Jesse Jones, of Houston.

DALLAS.—First Presbyterian Church will erect \$75,000 edifice at Harwood and Wood Sts.

FORT WORTH.—Plans are being prepared for erection of addition to Terminal Hotel on Front St.

HOUSTON.—International Coffee Co. has had plans prepared for erection of \$25,000 building at Fannin St. and Buffalo Bayou.

HOUSTON.—Architects C. D. Hill & Co., Wilson Bldg., Dallas, have prepared plans for \$400,000 apartment house for Bender Bros.

KINGSVILLE.—Architects C. D. Hill & Co., Wilson Bldg., Dallas, have prepared plans for three-story, \$50,000 bank building for National Bank.

MARSHALL.—Bishop College will rebuild dormitory destroyed by fire. Cost, \$70,000.

PORT LAVACH.—Citizens have voted \$22,000 bonds for erection of school.

SHERMAN.—Tom Bean School District will vote Feb. 12 on erection of \$5,000 school house.

VAN HORN.—Baptists will erect church edifice at this place. Rev. L. R. Millican, El Paso, pastor.

VIRGINIA

BUCHANAN.—Norfolk & Western Railroad is considering erection of modern depot.

CREEDS BRIDGE.—Erection of school is being considered.

FREDERICKSBURG.—City will erect \$5,000 shirt factory building for Openheim, Obendorf & Co.

NEWPORT NEWS.—Board of School Trustees will ask for \$100,000 bond issue to erect high school.

WASHINGTON

BALLARD.—Architect J. G. Johnson, Murphy Bldg., is preparing plans for \$12,000 addition to building at corner of Fourteenth Ave. and Pike St.

LAMONT.—W. R. Hegler, State Bank, will erect two-story brick building at once.

Lamont Lumber & Supply Co. will erect brick block.

ORIENT.—Colville Bank will erect building in this town.

PASCO.—Marshall-Wells Co. is considering erection of building at this place.

SEATTLE.—West Seattle Congregational Church will at once erect \$30,000 edifice. Rev. E. T. Dunstan, pastor.

P. E. Wentworth, 212 Twenty-first Ave., North, will erect \$7,500 dwelling at 2813 East Union St. V. W. Voorhees, architect.

SPOKANE.—Mitchem Bros. & Co. will erect \$60,000 packing plant. Plans being prepared.

SPOKANE.—Architect J. K. Dow, Empire State Bldg., will furnish plans about Feb. 15 for improvements at Medical Lake School; \$60,000 will be expended.

Architects Pond & Booth, Symons Block, have completed plans for erection of four-story, \$100,000 building at Washington and Third Aves.

SPOKANE.—Woman's Club has decided to erect home. Dr. Frances Rose, Chairman, Ways and Means Committee.

C. W. Anderson will erect \$25,000 apartment house at 1911 Second Ave.

L. H. Rose, 1212 Second Ave., is interested in erection of large warehouse.

WALLA WALLA.—Local Elks are considering erection of five-story building at Fourth and Alder Sts.

WEST VIRGINIA

HUNTINGDON.—Board of Commissioners is considering election on \$80,000 bonds for purchase of site for city building.

WISCONSIN

GREEN BAY.—Architects Foeller & Schober, Fox Block, will receive bids until Feb. 10 for erection of residence on N. Washington St.

CUTLER MAIL CHUTE PATENTS SUSTAINED

The U. S. Circuit Court for the Eastern Division of the Eastern District of Missouri, in a decision rendered January 10th, 1910, has fully sustained all our claims and ordered the issuance of an injunction restraining the defendant, the U. S. Mail Chute Equipment Company of St. Louis, Mo., from making, using or selling infringing chutes, and requiring it to pay to us the profits, costs and the damages which we have suffered.

We also brought two other suits against the Maryland Hotel Company in St. Louis, Mo., which had installed infringing chutes, in order to fully test the question of the liability of the owner of the building, and these cases were heard at the same time, and it was decided that the owner of the building is liable notwithstanding the fact that the Post Office Department collects the mail from the box at the lower end.

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WANTED—Position by architectural draughtsman of six years' general office experience. Competent in making drawings and some full-size and scale details. Can furnish samples of work and references. Moderate salary. Address 79E, care American Architect, New York. (1779-80)

WANTED—Position by a young man as heating and sanitary engineer with an architect. Would rather locate in South, though no objection to the North if the right proposition offers. Have had six years' experience in above work, with a successful firm of architects. 79K, care American Architect. (1779-80)

POSITION wanted in architect's New York office by man of general experience, graduate of Mass. Tech. and Beaux Arts man. He is accustomed to management and has ten years' experience on good public and private work. Usually designer, he also writes specifications and superintends. Address 79D, care of American Architect. (1780)

HIGH-GRADE draughtsman and expert designer of wide experience, engaged by leading New York City firm of architects, is desirous of making a change; best references. Address 80A, care of American Architect.

WANTED—Architectural draughtsman desires position with first-class architect where he will have a chance to advance. Can furnish references from present employer and will submit samples of drawings. 80B, care American Architect. (1780)

DRAUGHTSMAN, age 24, single, six years' experience in S. E. Pa. offices, desirous of locating in enterprising Southern city; competent in design, working drawings, detail and rendering in water color and pencil. 80D, care American Architect. (1780)

POSITION wanted in New York City by Columbia graduate; seven years' office experience; two years in business for himself in New York City; wishes to work on salary and to be associated on business which he brings into office. 80C, care American Architect. (1780-81)

WANTED—Position as architect's superintendent, on large work—best of references given; forty years old, married, with family; twenty years' experience in business; acquainted with various fireproof constructions. 80G, care American Architect. (1780)

POSITION wanted by a practical all-around architectural draughtsman; good constructionist, specification writer and superintendent for the erection of buildings, or would take charge of draughting room. Experience, 18 years. N. Y. City preferred. Address 80F, care American Architect. (1780)

DRAUGHTSMAN open for engagement; American, with nine years' experience; competent on complete working drawings from sketches on all classes of buildings and outside superintending; have been employed by architects, engineers and corporations; familiar with mill and factory construction and installation of machinery in industrial plants. Salary desired, \$25. Address 79M, care American Architect. (1780)

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WANTED—Competent draughtsman, steady employment if services prove satisfactory. Send references, state experience and salary wanted. Foeller & Schober, Architects, Green Bay, Wis. (1779-80)

ARCHITECTURAL DRAFTSMAN who is good at designing, water color work and perspective drawing. Young man with foreign training or who is a graduate of some technical college preferred. We can also use a good tracer, who is competent to lay out work from sketches. State salary desired, experience and references. Bailey & Bailey, Architects, Majestic Building, Oklahoma City, Okla. (1779-80)

WANTED—A young man with six years' experience as superintendent of construction for a good firm of architects, wishes to locate in the South, in a position of the same character. Well up on reinforced concrete construction. 79L, care of American Architect. (1779-80)

WANTED—An architectural draughtsman capable of taking charge of an office. He must be a good designer and be able to make complete working drawings and water color renderings. Address Herbert L. Bass & Co., Indiana Pythian Building, Indianapolis, Ind. (1780)

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PROPOSALS

Treasury Department, Office of the Supervising Architect, Washington, D. C., January 17, 1910.—The advertisement for bids for the construction of the Post Office and Court House building at Denver, Col., dated December 29, 1909, is corrected, and the time for opening bids extended as follows:

Sealed proposals will be received at this office until 3 o'clock P. M. on the 15th day of March, 1910, and then opened for the construction, including plumbing and drainage, of the U. S. Post Office and Court House at Denver, Col., in accordance with drawings and specifications, copies of which may be had at this office or at the office of the architects, Messrs. Tracy, Swartwout & Litchfield, 244 Fifth Avenue, New York City, at the discretion of the Supervising Architect. Applications must be accompanied by a certified check for \$250, which will be held at this office until the return of the drawings and specifications.—James Knox Taylor, Supervising Architect. (1779-80)

Treasury Department, Office of the Supervising Architect, Washington, D. C., January 18, 1910.—Notice is hereby given that the time for opening bids for the construction (including plumbing, gas piping, heating apparatus, electric conduits and

wiring), of an extension to the U. S. Post Office at Goldsboro, N. C., has been extended from January 31, 1910, to February 25, 1910.—James Knox Taylor, Supervising Architect. (1779-80)

Treasury Department, Office of the Supervising Architect, Washington, D. C., January 19, 1910.—Sealed proposals will be received at this office until 3 o'clock P. M. on the 8th day of March, 1910, and then opened, for the extension, remodeling, etc. (including plumbing, gas piping, heating apparatus, electric wiring and conduits), of the U. S. Post Office and Court House at Athens, Georgia, in accordance with the drawings and specification, copies of which may be had from the Custodian at Athens, Ga., or at this office, at the discretion of the Supervising Architect.—James Knox Taylor, Supervising Architect. (1779-80)

NOTICE TO CONTRACTORS.

Sealed proposals for contract bids for sewage disposal plant at the N. Y. State Training School for Girls, Hudson, N. Y., will be received by Charles H. Strong, President of the Board of Managers, N. Y. State Training School for Girls, Hudson, N. Y., until 1 o'clock P. M., on the 12th day of February, 1910, when they will be opened and read publicly.

Proposals shall be accompanied by a certified check in the sum of \$150, and the contractor to whom the award is made will be required to furnish surety company bond in the sum of \$1500 within 30 days after official notice of award of contract, and in accordance with the terms of specification No. 1306A. The right is reserved to reject any and all bids.

Drawings and specifications may be consulted and blank forms of proposals obtained at the N. Y. State Training School for Girls, Hudson, N. Y., and 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. (1780-81).

Treasury Department, Office of the Supervising Architect, Washington, D. C., January 26, 1910.—Sealed proposals will be received at this office until 3 o'clock P. M. on the 24th day of March, 1910, and then opened, for the construction (including plumbing, gas piping, heating apparatus, electric conduits and wiring and standard clock system) of an extension, remodeling, etc., to the U. S. Post Office and Court House at Sacramento, Cal., in accordance with drawings and specification, copies of which may be obtained from the custodian at Sacramento, Cal., or at this office at the discretion of the Supervising Architect.—James Knox Taylor, Supervising Architect. (1780-81)

Treasury Department, Office of the Supervising Architect, Washington, D. C., January 26, 1910.—Sealed proposals will be received at this office until 3 o'clock P. M. on the 23d day of February, 1910, and then opened, for the installation of a double pneumatic tube service between the U. S. Custom House and the U. S. Appraisers' Warehouse, New York, in accordance with drawings and specification, copies of which may be had at this office, or at the office of the Chief Engineer and Superintendent U. S. Public Buildings, New York City, N. Y., at the discretion of the Supervising Architect.—James Knox Taylor, Supervising Architect. (1780-81)

Treasury Department, Office of the Supervising Architect, Washington, D. C., January 26, 1910.—Sealed proposals will be received at this office until 3 o'clock P. M. on the 10th day of March, 1910, and then opened, for the painting and decorating of the United States Post Office, Court House and Custom House at Duluth, Minn., in strict accordance with the specification, copies of which may be had from the Custodian at Duluth, Minn., or at this office, at the discretion of the Supervising Architect.—James Knox Taylor, Supervising Architect. (1780-81)

Treasury Department, Office of the Supervising Architect, Washington, D. C., January 27, 1910.—Sealed proposals will be received at this office until 3 o'clock P. M. on the 16th day of March, 1910, and then opened, for the extension, remodeling, etc. (including plumbing, gas piping, heating apparatus, electric conduits and wiring) of the U. S. Post Office and Court House at Danville, Virginia, in accordance with the drawings and specification, copies of which may be had from the Custodian at Danville, Va., or at this office, at the discretion of the Supervising Architect.—James Knox Taylor, Supervising Architect. (1780-81)

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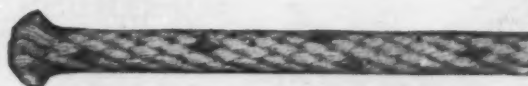
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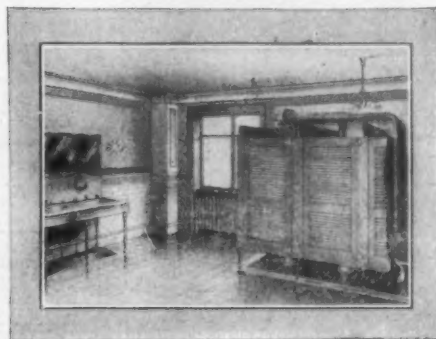
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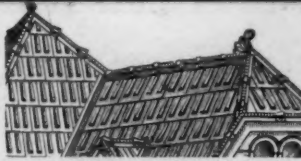
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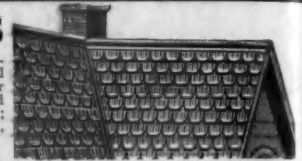


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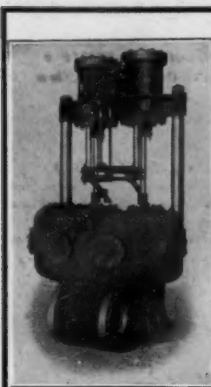
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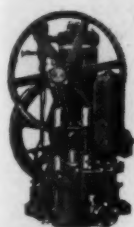
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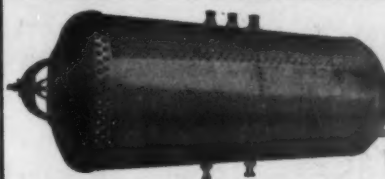


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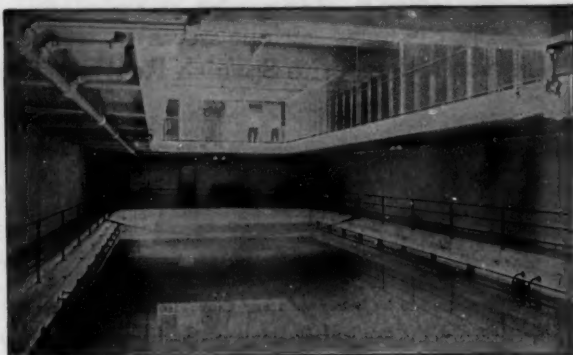
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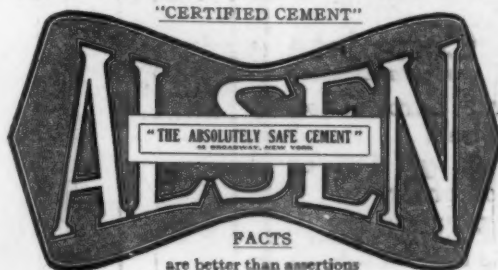
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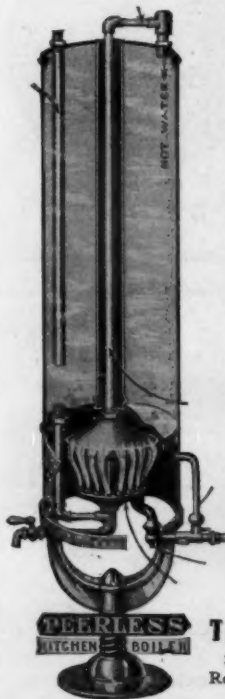
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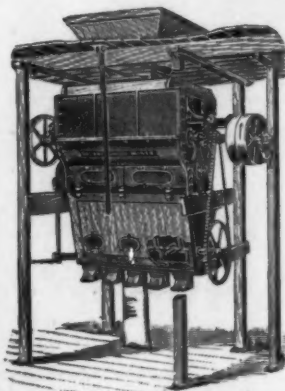
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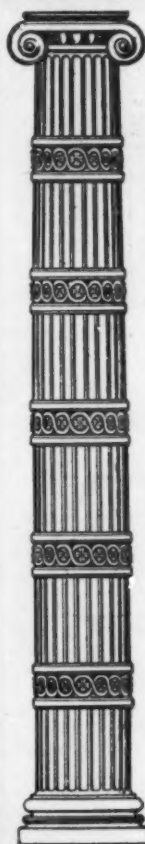
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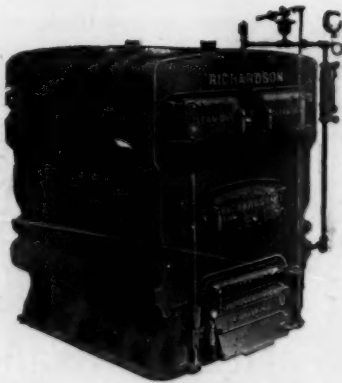
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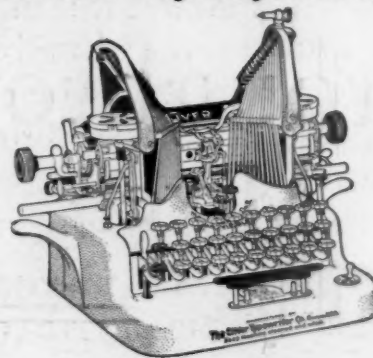
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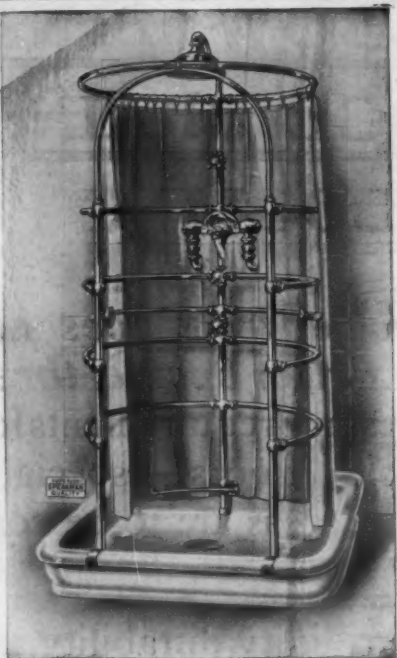


FIGURE 1020

Figure 1020 Speakman's Needle Bath with No. 1 Non-Scalding Regulating Valve (Patented), Strainer Unions, Liver Sprays, Bidet and White Duck Curtain

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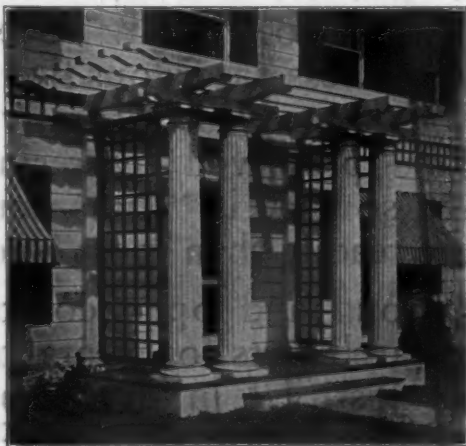
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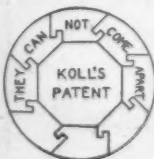
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See Sweet's Index, Pages 650-651.



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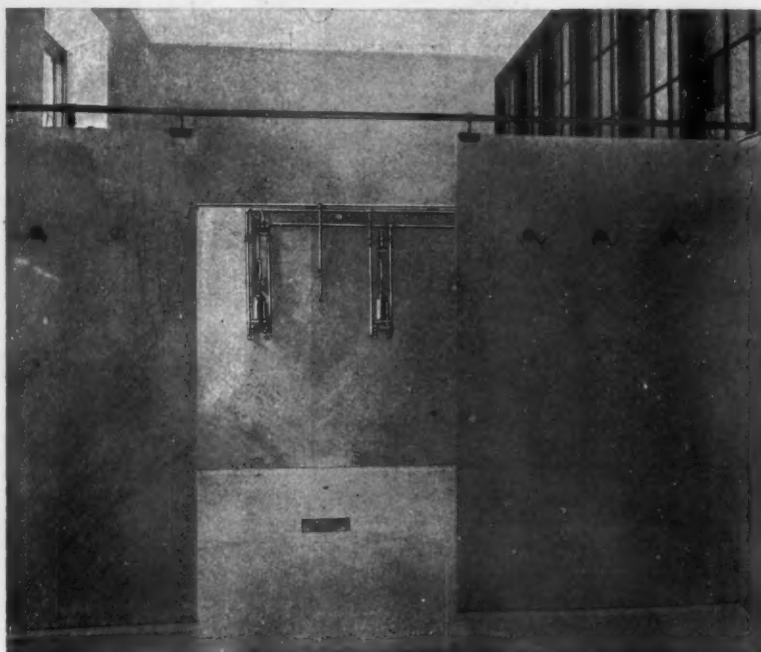
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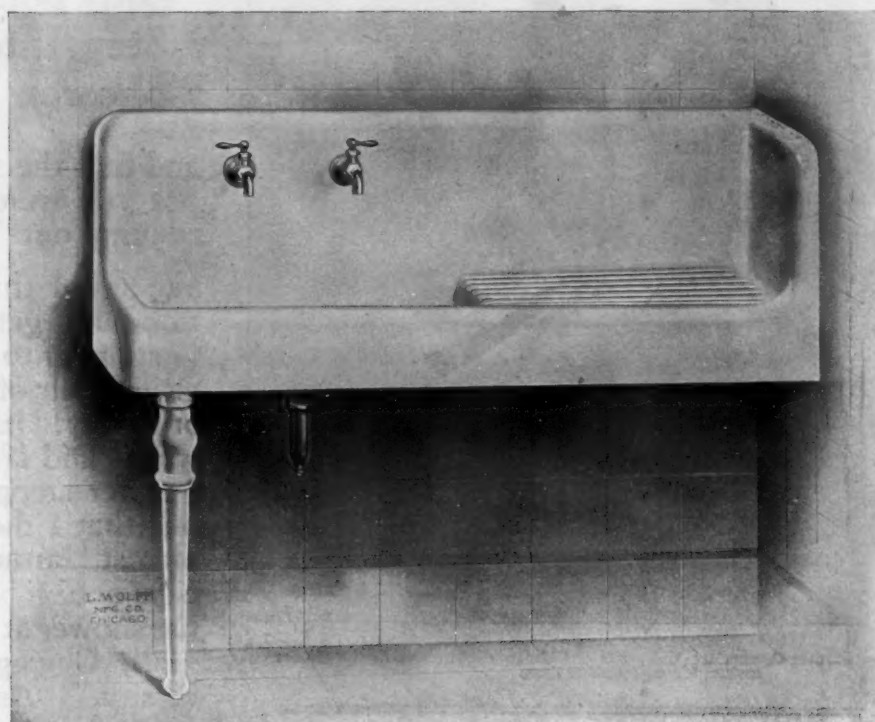
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This illustration shows the Underfeed Boiler.



George B. Catlin, of the Detroit Evening News, has had an Underfeed over four years. He's enthusiastic about it. He tells how much money he saves each winter, and writes:

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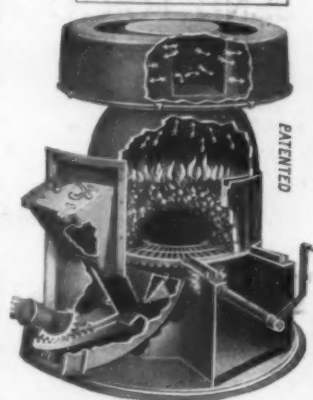
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PLATE 1078-KH

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PLATE 995 KH



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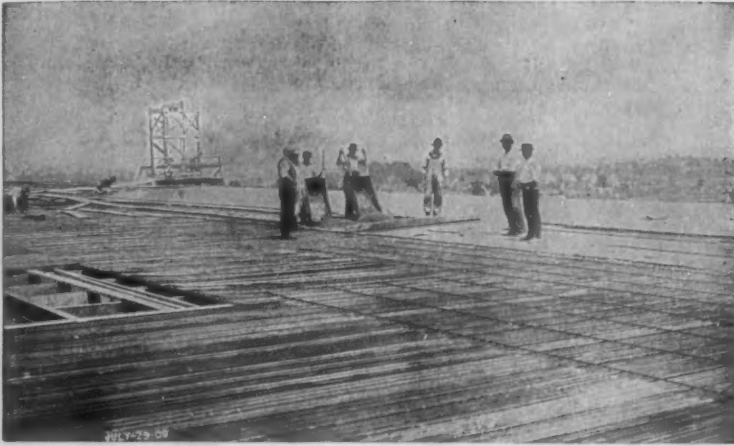
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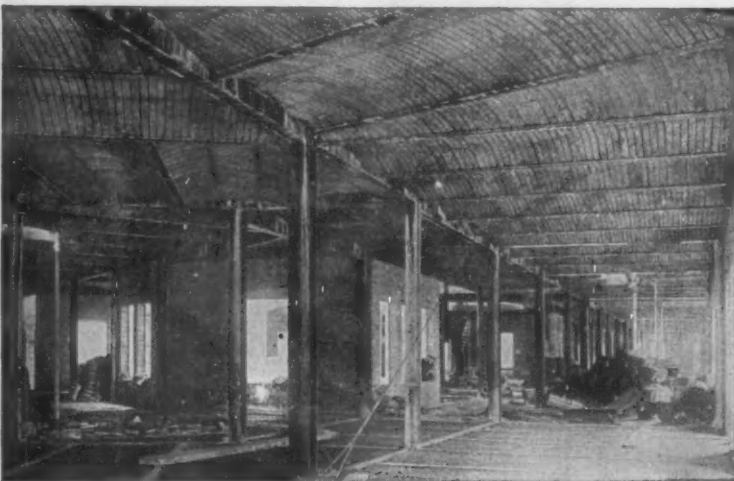
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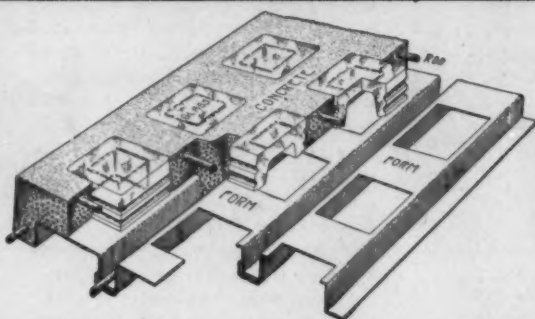
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- CARRERE & HASTINGS, The Work of Messrs. 121 pages, text and illustrations. *Architectural Record*, January, 1910.
- COMPOSITE HOLLOW TILE. By George S. Drew, Jr. 3 pages, illustrated. *The Brickbuilder*, December, 1909.
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- RAILWAY TERMINALS AND THEIR RELATION TO CITY PLANNING. By Frederick A. Delano. 6 pages, illustrated with drawings. *The Western Architect*, January, 1910.
- SCHOOLHOUSES AT NEWTON, MASS., NEW. 2 pages, illustrated. *The Brickbuilder*, December, 1909.
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- TILE HOUSES, SOME NOVEL. 2 pages, illustrated with five photographs. *The International Studio*, January, 1910.

PERSONAL

Mr. Edward C. Smith announces that he has opened an office for the general practice of architecture at 42 Market St., Poughkeepsie, N. Y. Manufacturers' samples and catalogues are desired.

Mr. James E. Maher, architect, announces that he has severed his connections with McLaughlin Bros., Inc., of Baltimore, Md., and has opened offices at 301 Maryland Savings Bank Building, Baltimore and Commerce Streets, Baltimore, Md., where he desires to receive manufacturers samples and catalogues.

BUILDINGS EXPRESS THE LIFE OF TOWNS

Contrasting the natural beauty with the cheap ugliness of our commercially-built modern towns and suburbs, Raymond Unwin, an English architect, urges that, as the planning and building of a town must, by the very nature of things, be a more or less complete expression of its life, such expression should first of all be sincere and direct.

He holds as an example that it would be impossible to reproduce and most unwise to attempt to copy the kind of picturesqueness which resulted from the natural and apparently unconscious growth of the mediæval towns, or the formal magnificence of the great cities of the ancient civilization, but the principles upon which the ancient builders worked are undying, and from them may be developed new forms of beauty that express quite as spontaneously the conditions of our modern life.

"This beauty must come when we realize that it is a part of life and that all sincere living inevitably finds such expression of itself, but its coming may be hastened by the acknowledgment of our lack of the quality that produces it, and by honest efforts to build as well as we may according to our present needs."

Mr. Unwin holds, therefore, that the designer's first and most important duty is to study his town, his site, the people and their requirements, before attempting to put his own ideas into effect. And he says: "There is no need to fear that such a course will lead to commonplace designs, that it will check the flights of fancy, will subordinate the main effect of trivial convenience. In this work we cannot rightly say that the practical considerations come before the artistic, or the artistic

before the practical; they are interdependent and must be worked out together.

"But there is this difference between them: that the practical considerations are often fixed, while the artistic expression may take varying form. Drainage will not run uphill to suit the prettiest plan; nor will people, to please the most imperious designs, go where they do not want to go, or abstain from going where they must needs go, and from taking generally the shortest route to get there. Lines of drainage and of traffic may indeed be modified, but only within fairly narrow limits, and the planner who pits the form of his plan against the forces which define these limits will but wreck his scheme."—*Exchange*.

MUNICIPAL ART COMMISSION FOR BUFFALO, N. Y.

A proposed bill to create a municipal art commission to regulate the beautification of Buffalo was discussed at a meeting of the civic improvement committee of the Chamber of Commerce.

As it now stands, the bill provides for a commission of eleven, to be composed of the Mayor, the Commissioner of Public Works, the president of the Board of Councilmen, the president of the Board of Aldermen, the president of the Park Board and six citizens to be appointed by the Mayor. Of these six, two shall be architects, one a civil engineer, one a professional sculptor and two non-professional men. The latter are to serve for terms of two, four and six years; the professionals are to be chosen from the list of the Buffalo Academy of Fine Arts and to have six-year terms.

MEMORIAL TO JOHNS HOPKINS TO BE ERECTED IN BALTIMORE

The movement for the erection of a memorial to Johns Hopkins, which was first inaugurated by the Municipal Art Society in March, 1905, has recently received a fresh impetus and will now be pushed toward consummation. The model which Hans Schuler, the young Baltimore sculptor, whose "Ariadne" adorns the Walters art gallery, was asked some time ago to submit has been accepted by the Hopkins Memorial Committee, which was especially appointed by the Municipal Art Society.

This special committee consists of Bernard N. Baker, chairman; President Ira Remsen, of the Hopkins University, vice Dr. Daniel C. Gilman, deceased; Judge Henry D. Harlan, R. Brent Keyser, Gen. John Gill, Theodore Marburg, Charles J. Bonaparte and Josiah Pennington.

HAWAIIAN ARCHITECT COMPLETES COURSE OF STUDY AND RETURNS TO HIS NATIVE ISLAND

American architecture will be further introduced into Hawaii by William K. Macomber, a native Hawaiian, who has returned to his own country after an extensive course in art building construction in this country. Mr. Macomber has been architectural instructor for the Beaux Arts Society in Seattle. He is leaving America as the representative of a San Francisco syndicate and will make plans for the erection of several large office and hotel buildings in the Hawaiian Islands.



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BUILDING NEWS

To be of value this matter must be printed in the number immediately following its receipt, which makes it impossible for us to verify it all. Our sources of information are believed to be reliable, but we cannot guarantee the correctness of all items. Parties in charge of proposed work are requested to send us information concerning it as early as possible; also corrections of any errors discovered.

ALABAMA

BIRMINGHAM.—Sixth Ave. Baptist Church will receive bids until Mar. 1 for erection of edifice. Rev. J. W. Goodgame, pastor. W. A. Rayfield & Co., Mason Bldg., architect.

BIRMINGHAM.—Steiner Bros. will erect two wholesale stores, cost \$75,000, at corner of First Ave. and Twenty-fourth St. Wheelock & Son, Steiner Bldg., Architects.

PRATT CITY.—Florida Masonic Lodge No. 450 is considering erection of three-story lodge hall.

ARIZONA

NOGALES.—Bids will be received until Feb. 20 for erection of \$5,000 coliseum for Neuman & Jeffroy. O. J. Olmstead, Architect.

ARKANSAS

CAMDEN.—City has purchased site for erection of city hall.

CALIFORNIA

COALINGA.—Architect A. C. Swartz, Fresno, has plans prepared for remodeling and building addition to A. E. Webb Building.

COLUSA.—C. G. Raub, Meridian, is considering plans for erection of hotel at corner of Sixth and Market Sts.

FRESNO.—Plans are being drawn by Architect A. C. Swartz for \$35,000 addition to Fresno Republican Publishing Co. building.

LINCOLN.—Citizens will vote on \$20,000 bonds for erection of high school.

LOS ANGELES.—Von Stein Academy of Music will erect three-story \$25,000 building at Seventeenth and Georgia Sts. Plans completed by S. Tilden Norton, 253 S. Broadway.

Architect J. W. Roberts, 426 S. Spring St., has completed plans for erection of \$7,500 residence on Twenty-fifth St.

Plans have been prepared for erection of \$25,000 grammar school at corner of Lennox and Eucalyptus Aves.

LOS ANGELES.—Architect N. F. Marsh, Stimson Bldg., is preparing plans for erection of \$40,000 five-story hotel on S. Hope St.

Elysian Development Co., A. C. Burnham, president, will erect 200 residences at Echo Park. Cost, \$2,500 to \$6,000 each.

J. C. Drake will erect \$25,000 home at 275 S. Hoover St. Eison & Son, Architects.

MARVSVILLE.—Chas. Raish will erect business building on Third St. at once.

RIVERSIDE.—Bids will be received by the Board of Supervisors until Feb. 20 for construction of a county detention home on the hospital grounds at Arlington.—S. L. Pillar, City, Architect.

SACRAMENTO.—Sheldon Townsite & Realty Co. has been incorporated to build town of Sheldon. G. W. Peltier and F. W. Kissel, local bankers, are interested.

SACRAMENTO.—Bids will be received by Sacramento Labor Temple Association, Room 503 Bryte Building, until 5 p. m. Feb. 15, for erection and completion of five-story brick building. R. A. Herold, Architect; J. T. Gormley, Secretary Building Committee.

SACRAMENTO.—Bids will be received by James Knox Taylor, Supervising Architect, Washington, D. C., until 3 p. m., March 24, for construction of extension to postoffice.

SAN FRANCISCO.—Church of the Advent will erect stone edifice on Pell St. Rev. C. N. Lathrop, Rector.

SANTA MONICA.—Architect J. W. Roberts, Douglas Bldg., Los Angeles, is preparing plans for erection of \$150,000 hotel for Carl Schader, Los Angeles.

WILLOWS.—Geo. Mellor will erect two-story brick building on corner of Butte and Walnut Sts.

COLORADO

CRIPPLE CREEK.—Victor Lodge No. 367, B. P. O. E., of Victor, will expend \$22,000 in improvements to home.

DENVER.—Dr. Bernard Oettinger, 11 S. Sherman St., is considering erection of six-story \$70,000 hotel.

DENVER.—General Contractors' Investment Co., 312 Conti-

nental Bldg., is considering erection of six-story office building on Champa St. Cost, \$100,000.

F. H. Forrester, 1738 Arapahoe St., is considering erection of \$60,000 hotel.

DELAWARE

WILMINGTON.—Congregation of West Presbyterian Church has decided to erect \$5,000 church for Italian mission. M. D. Crossan, Chairman Special Committee.

WILMINGTON.—Twelfth Ward Democrats will erect home at Conrad and Du Pont Sts.

Rodney Street Presbyterian Church is raising \$50,000 for erection of edifice.

Jno. F. Jones will erect three-story building at 812 Market St.

DISTRICT OF COLUMBIA

WASHINGTON.—Geo. O. Totten, Jr., 808 Seventeenth St., N. W., has prepared plans for erection of residence at Chevy Chase for H. H. Glassie.

Starrett, Goodwin & Van Vleck Co., 47 East Seventeenth St., New York, have prepared plans for erection of \$3,500,000 hotel at Connecticut Ave. and De Sales St. Alexander McNeil, city, is interested.

WASHINGTON.—Capitol Heights Catholics are considering erection of church. Rev. Fr. Schwallenberg, Pastor St. Margaret's Church, Seat Pleasant, is interested.

FLORIDA

TAMPA.—Yacht and Country Club has decided to erect \$10,000 building.

WINTER HAVEN.—Local Masonic Lodge will erect temple in near future.

GEORGIA

ATLANTA.—Architect Donn Barber, 24 E. Twenty-third St., New York City, has completed plans for erection of \$175,000 club house at corner of Peachtree and Harris Sts. for Capital City Club. P. T. Marye, Equitable Bldg., city, Supervising Architect.

IDAHO

WALLACE.—Carnegie Library will be erected in this city, at cost of \$12,000.

ILLINOIS

CHICAGO.—An addition, cost \$75,000, to Deaconess Hospital is being planned.

Bethany Bible School is planning to erect building in this city at Van Buren and Congress Sts.

Rand-McNally Co. will erect twelve-story building at Harrison and Clark Sts.

CHICAGO.—Sisters of Charity of Blessed Virgin are considering erection of high school and other buildings, to cost \$200,000, on Augusta St.

F. C. Jorgenson is planning to erect four-story building on Ann St.

Sears, Roebuck & Co. will erect \$400,000 addition to plant on Harvard St.

Eiger Bros. are considering erection of eight-story, \$225,000 factory building on Pearson St.

FREEPORT.—Second Presbyterian congregation has decided to rebuild church destroyed by fire. Cost, \$25,000.

GALESBURG.—J. G. Beadle and N. K. Aldrich will prepare plans for proposed edifice for First Methodist Church.

JOLIET.—Local Odd Fellows are considering erection of building at corner of Chicago and Webster Sts.

MOLINE.—Rank Bros. are considering erection of building at corner of Eighteenth St. and Fifth Ave.

PEORIA.—Thos. H. Webb is interested in erection of vaudeville theater.

INDIANA

CRAWFORDSVILLE.—Bids will soon be asked by School Board for erection of school.

ELKHART.—Architect E. Hill Turnock will prepare plans and supervise construction of proposed \$100,000 high school.



Asbestos "Century" Shingle Roof and Sheathing—Residence of W. E. Crawford, Evanston, Cincinnati, O., Fasse & Reed, Cincinnati, Architects; Bryen, Vane & Anderson, Cincinnati, Contractors.

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They cannot rot, rust, chip, flake or split. They literally outlive the building—without painting or repairs.

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with patented adjustable sliding sleeve dampers, storm and dust proof at all times, and never shut out the light with any adjustment of damper.

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Sole Manufacturers of "Burt" Ventilators for Canada.

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BURT COMBINATION SKYLIGHT VENTILATORS

which is good evidence that the ones they bought at first were satisfactory in every way. Burt Ventilators are made of the best material and workmanship obtainable, furnished with metal or glass tops if desired, and provided



Glass Top Burt Ventilators are also made up to and including the 72-inch size. Notice Sliding Sleeve Damper (Patented).

IOWA

ALLISON.—School Board is considering plans for enlarging and modernizing school building.

ATLANTIC.—Erection of Y. M. C. A. building is being considered. J. G. Olmstead, Des Moines, is interested.

CEDAR RAPIDS.—Coe College is considering erection of chapel and girls' dormitory. Cost, \$50,000.

CLINTON.—St. Paul's English Lutheran Church will erect edifice at corner of Third St. and Eighth Ave. in spring. Plans prepared. Rev. J. S. Leamer, Pastor.

DES MOINES.—Anchor Fire Insurance Co. will erect office building at corner of Tenth and Walnut Sts.

KEOKUK.—John Leisy, Leisy Brewing Co., Peoria, Ill., is considering erection of building on Water St.

MARSHALLTOWN.—United Brethren congregation is considering erection of \$10,000 edifice this summer.

MUSCATINE.—Architect Jos. E. Mills, 510 Washington Arcade Bldg., Detroit, Mich., has completed plans for erection of \$40,000 bank building at corner of Iowa and Third Aves. for First National Bank. Bids will be received early in spring. D. M. Hughes, Cashier.

WATERLOO.—Board of Trade is interested in erection of proposed armory.—W. F. Parrott, Chairman, Special Committee.

KANSAS

CHANUTE.—Citizens will vote on \$55,000 bonds for erection of high school.

GARDEN CITY.—Garden City, Gulf & Northern Railroad is considering erection of two-story office building.

NEWTON.—Evangelical Trinity Congregation has decided to erect edifice. Wm. Dreier, chairman, Building Committee.

TOPEKA.—Southwestern Furniture Co. will erect three-story addition to plant at 114 Jackson St.

KENTUCKY

MAYSVILLE.—Knights of St. John will erect three-story building in near future at Third and Casino Sts.

LOUISIANA

ABBEVILLE.—Vermilion Parish is considering erection of \$40,000 central high school.

NEW ORLEANS.—S. J. White, of Fairchild & White, is having plans prepared for erection of home in Richmond Place.

SLIDELL.—Rathbone Lodge No. 103 is receiving bids for erection of Pythian castle. E. F. Hailey, Chairman, Building Committee; Harold Raymond, Hennen Bldg., Architect.

MARYLAND

BALTIMORE.—Hampden-Woodberry Neighborhood Association will ask Council for permission to erect clubhouse in West Park, Hampden. Councilman Samuel West is interested.

Atlantic Broom Co. will erect large factory at corner of Toone and Second Sts., Canton.

BALTIMORE.—Emerson Drug Co. will erect building at corner of Lombard and Eutaw Sts.

BALTIMORE.—Otterbein Memorial Presbyterian Church has asked for bids for erection of edifice at corner of Roland and Fifth Aves.

Architect E. H. Glidden, 16 St. Paul St., has completed plans for erection of residence on Longwood Road, Roland Park, for N. S. Kennedy.

BALTIMORE.—Architect E. L. Palmer, Jr., has completed plans for erection of \$25,000 residence on University Parkway.

Architect W. M. Gieske, Equitable Bldg., has prepared plans for erection of \$6,500 residence in Oak Forest Park, Cantonville.

FREDERICK.—Methodist Episcopal Church has decided to improve edifice at cost of \$18,000.

HAGERSTOWN.—St. Mary's Catholic Church is considering erection of edifice, academy and rectory at total cost of \$100,000.

MASSACHUSETTS

CAMBRIDGE.—Jos. Caunt & Co., Lynn, will have plans prepared for erection of six-story building at corner of Amherst and Carleton Sts.

LAWRENCE.—Plans have been prepared for erection of \$60,000 theater on Common St. for M. W. Morris, Central Bldg.

LOWELL.—Massachusetts Cotton Mills Co. is considering erection of twelve-story storehouse.

MARBLEHEAD.—Committee will soon be selected to select plans for proposed Y. M. C. A. building.

MARION.—Sippican Yacht Club will erect club house on Middle Road. Plans being prepared.

NEW BEDFORD.—Thos. F. Glennon interests will erect mill at south end of city.

NEWBURYPORT.—Plans will be prepared for erection of \$45,000 school in Ward 6.

UXBRIDGE.—Church of Good Shepherd has secured site for erection of rectory. Rev. A. H. Powers, Pastor.

SWAMPSCOTT.—Taratine Tribe of Red Men is considering erection of \$20,000 building on Humphreys St.

MICHIGAN

DETROIT.—S. X. & J. E. Goldberg, 225 Woodward Ave., are considering erection of block of stores at Woodward and Warren Aves. Cost, \$40,000.

Michigan Wire Cloth Co. will erect large addition to plant. Hugh O'Connor, 500 Howard St., General Manager.

Board of Library Commissioners has estimated cost of proposed library building at Warren Ave. and Boulevard at \$26,000. Ralph Phelps, Jr., 17 Butler Bldg., Secretary.

MINNESOTA

DULUTH.—Mrs. M. J. Forbes will erect residence at corner of Twenty-third Ave. E. and Third St.

ST. PAUL.—Dr. H. E. Hunt is having plans prepared for erection of \$6,500 dwelling on Summit Ave.

MISSISSIPPI

BELZONA.—City will let contract about March 1 for erection of \$15,000 school; plans not yet selected.—W. L. Toney, Mayor.

JACKSON.—Citizens have voted \$30,000 bonds to repair school.—A. C. Crowder, Mayor.

LONG BEACH.—Methodist Parsonage will be rebuilt. Rev. L. E. Alford, Pastor.

MAGNOLIA.—Local Masons have decided to erect two-story building in Bay St.

MISSOURI

KANSAS CITY.—Plans have been prepared by F. C. Gunn, Postal Bldg., for erection of building on Wall St. for W. M. Reid.

KANSAS CITY.—G. A. Bond will erect two-story garage at corner of Thirty-fourth and Main Sts. at once.

MONTANA

BUTTE.—Bids will be received until 2 P.M., March 30, by Board of County Commissioners, Silver Bow County, for erection of court house.—Link & Haire, State Savings Bank Bldg., Architects; M. Kerr Beadle, County Clerk.

KALISPELL.—B. J. Boorman, President of Boorman Lumber Co., will erect \$18,000 brick and stone residence. Marion B. Rizzo, Architect.

C. L. Dobner, vice-president of Northwestern Lumber Co., will erect two-story cement stucco residence. Plans have been prepared by Architect Marion B. Rizzo.

WHITEFISH.—Architect Marion B. Rizzo, Kalispell, is preparing plans for \$25,000 two-story bank building for First National Bank.

NEBRASKA

OMAHA.—Hayden Bros., Tenth and Dodge Sts., are considering plans for erection of large warehouse.

NEW JERSEY

BELLEVILLE.—Joint Committee of Town Committee and Board of Education have selected site at Washington Ave. and Academy St. for proposed Carnegie Library.

BURLINGTON.—First Baptist Church is considering erection of edifice.

EAST ORANGE.—Arlington Ave. Presbyterian Church will erect \$25,000 addition to church and Sunday school room. Rev. R. R. Wicks, Pastor.

ELIZABETH.—Board of Freeholders will purchase site on Walnut St. for erection of proposed Armory.

ELIZABETH.—Health Board will recommend \$25,000 expenditure for tuberculosis hospital.

Nelson Morris & Co., Chicago, have had plans prepared by Architect Simmons for erection of \$130,000 building at 1200 East Broad St.

GARWOOD.—Balch & Moatz, Architects, 10 E. Thirty-third St., New York City, are preparing plans for erection of \$550,000 reinforced concrete factory buildings for Æolian Co.



This Range is also made with Elevated Gas Oven instead of end style, shown above, or if gas is not desired, with or without Reservoir on right end.

Cabinet Glenwood

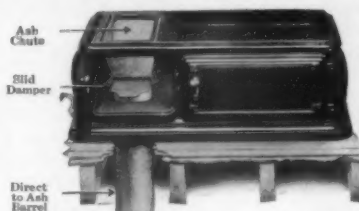
Combination Coal, Wood and Gas Range.

No Fussy Ornamentation or fancy nickel on the Plain Cabinet Glenwood. Just the natural black iron finish. "The Mission Style" applied to a range. A room saver too—like the upright piano. Every essential refined and improved upon.

The Glenwood Ash Chute may be used instead of a pan, when kitchen is on first floor. This wonderful convenience saves lugging ashes, as they are dropped direct to ash barrel in basement without a particle of dust or dirt in kitchen (see illustration).

The Gas Range

attachment, consisting of Oven, Broiler and Three Burner Top is made to bolt neatly to the end of this range when a combination coal and gas range is desired.



Write for handsome booklet of the plain Cabinet Glenwood Combination Coal, Wood and Gas range, mailed free.

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For **School House, College**, or any building on which you want the highest class roof at a very reasonable price specify **Our No. 1 Unfading Mottled Green and Purple** roofing slate.

None are genuine unless shipped direct by ourselves and accompanied by our certificate. We have no jobbers or wholesale agents.

Write for samples which we will gladly send free of cost.

Our prices are standard, always as low as the best quality and workmanship will allow.

Write for any information on all kinds of **Green, Purple, Red** or **Black** slate.

We solicit correspondence.

Address all communications to

RISING & NELSON SLATE CO.

WEST PAWLET, VERMONT

JERSEY CITY.—F. J. Ehrhardt, 364 Jackson Ave., will erect \$7,500 building on Jackson Ave.—E. E. Quaife, Architect.

JERSEY CITY.—Plans have been completed by Architect John A. Resch, 170 Lexington Ave., for two buildings at Mallory and Clendenny Aves. for William Menze, 181 Boyd Ave.

Architect Frederick W. Glanzmann has completed plans for John Pfankoch, 177 Woodlawn Ave., for two-family house on Dwight St.

NEWARK.—Hebrew Benevolent and Orphan Asylum directors have decided to erect additional wing to building on Clinton Ave.

NEWARK.—The Fairchild & Baldwin Co. has had plans drawn by Henry Baechlin, 45 Clinton St., for a six-story loft building to be erected at Halsey and Bleecker Sts. Cost, \$75,000.

TRENTON.—H. E. Stahl, Lambertson St., will erect residence on Bellevue Ave. next fall.

Architect W. B. Thines is preparing plans for two stores and three apartments to be erected at corner of Dewey and Trenton Sts. Bids will be received about Feb. 15.

TRENTON.—Ajax-Grieb Rubber Co. will in near future erect addition to plant on Breunig Ave.

Luzerne Rubber Co. has had plans prepared for erection of two-story addition to plant.

Dr. G. N. J. Sommer, Perry St., is considering erection of residence.

WESTFIELD.—Willard W. C. T. U. has decided to erect \$10,000 building on Prospect St.

WEST HOBOKEN.—Plans are being prepared by Architect Frederick Hensel, of 246 Summit Ave., for \$25,000 brick apartment building on Malone St. for Joseph Murphy.

NEW MEXICO

ARTESIA.—Capt. J. B. Enfield and First Lieut. Chas. Echols are considering plans for erection of \$15,000 armory.

Jno. B. Enfield, Cashier State National Bank, is considering erection of brick block at Third and Main Sts.

LAS CRUCES.—Mesilla Valley Produce Exchange is considering erection of three warehouses.

NEW YORK

BROOKLYN.—Antonio Abbazia, 3929 Utrecht Ave., will erect ten two-story dwellings on Seventy-second St. Cost, \$40,000.

Louis Haerberle, 773 Jefferson Ave., will erect \$5,500 brick garage on Madison St.

BROOKLYN.—S. Guinness, 2117 Dean St., will erect \$15,000 five-story brick factory on St. Mark's Ave.

Church Realty Co., 186 Remsen St., will erect two two-story brick dwellings, cost \$7,000, on E. Thirty-first St.

Four three-story brick stores and dwellings will be erected on Seventh Ave. for Monroe, Stiner & Bros., 4718 Sixth Ave. Cost, \$18,000.

BROOKLYN.—Spade Realty Co., 1326 Forty-second St., will erect four two-story dwellings on E. Eighth St. Cost, \$16,000.

Henry Keiling, 515 Crescent St., will erect \$5,000 dwelling on Milford St.

BROOKLYN.—Pease & Son, Coney Island Ave. and Beverley Road, will erect eleven two-story dwellings, cost \$33,000, on E. Forty-seventh St.

Five three-story brick dwellings will be erected on Senator St. for Frank Lee, Sixty-seventh St. and Fourth Ave.

BROOKLYN.—Six two-story dwellings, cost \$15,000, will be erected on E. Thirty-ninth St. for J. D. De Rosa Co., 1815 Eastern Parkway.

American News Co., 279 Twelfth St., will erect three-story \$15,000 brick office on Debevoise Place.

Codlar Improvement Co., 90 E. Tenth St., New York City, will erect four dwellings on E. Fourteenth St. Cost, \$22,000.

MOUNT VERNON.—Jas. M. Reid will erect two-story brick building at 11 S. Third Ave.

NEW YORK.—Hungarian Hospital Association has decided to erect hospital in this city. Emil Zerkowitz, Royal Hungarian Inspector of Immigration, General Secretary; Professor M. E. Pupin, Columbia University, Vice-President.

St. Philip's P. E. Church is planning to erect \$200,000 edifice on 134th St. near Seventh Ave. Rev. H. C. Bishop, Rector.

Paul J. Eyner Building Co., 1 Madison Ave., will erect three frame dwellings, cost \$16,500, on Creston Ave. B. Ebling, 1136 Walker Ave., Architect.

Williams Printing Co. will erect addition to its building at 602 W. Thirty-seventh St.

NEW YORK.—R. H. Susswein and O. Hermann, 105th St. and

East River, will erect six-story brick lofts on Mott St. Cost, \$35,000. Sommerfeld & Steckler, 19 Union Square, Architects.

H. & E. Oetjen, 258 City Island, will erect \$5,000 dwelling on Fordham Road. J. J. Vreeland, 2019 Jerome Ave., Architect.

Ward Bread Co., Pittsburg, will erect six-story \$300,000 bakery on St. Mary's St. C. B. Comstock, 103 Park Ave., Architect.

NEW YORK.—Plans are being prepared by Architect L. R. Kaufmann, 110 E. Twenty-third St., for erection of twelve-story store and office building at corner of Sixth Ave. and Thirty-second St.

Herbert Lucas, 5 E. Forty-second St., has prepared plans for erection of fourteen-story apartment house at E. Sixty-second St. and Park Ave. Cost, \$1,000,000.

Steinmetz Construction Co., 1416 Glover St., will erect three two-story dwellings on Vyse Ave. Cost, \$19,500. E. G. Steinmetz, 1007 E. 180th St., Architect.

NEW YORK.—Garfield Construction Co., 2239 First Ave., has filed plans for erection of three-story stable at Nos. 422 to 426 East 119th St. Work will commence immediately.

NEW YORK.—City will erect five-story \$339,000 school in 113th St. C. B. J. Snyder, 500 Park Ave., architect.

Timo & Bensole, 235 E. Thirty-second St., will erect \$6,000 dwelling and stable on 131st St. H. D. Symonds, 123 E. Twenty-third St., architect.

B. Schlomowsky, 11 W. 119th St., will erect \$10,000 brick loft and store on East Broadway. M. Muller, 115 Nassau St., architects.

C. B. M. Jackson, Yonkers, will erect \$10,000 factory on Pearl St. W. Higginson, 21 Park Row, Architect.

POUGHKEEPSIE.—Architect N. Serracino, 1170 Broadway, New York City, has completed plans for erection of Church of Our Lady of Mt. Carmel; brick and white marble front; only local contractors will compete for construction.

SCHENECTADY.—Architect L. R. Nichols, 208 S. Center St., has prepared plans for erection of large addition to Wallace Company's building on State St.

SYRACUSE.—Architect R. J. Reidpath, Builders' Exchange, Buffalo, has prepared plans for erection of six-story addition to H. H. Franklin Automobile Works on W. Marcellus St.

SYRACUSE.—Temple Society of Concord will erect synagogue at University Ave. and Madison St. A. T. Taylor, Syracuse Bank Bldg., architect; Henry Danziger, chairman building committee.

WATERTOWN.—Architect D. D. Kieff, 24 Flower Bldg., has prepared plans for erection of \$40,000 home for local Elks.

OHIO

ASHLAND.—Faultless Rubber Co. is considering erection of three-story factory. L. I. Miller, Secretary.

CINCINNATI.—Oakley residents are urging erection of \$75,000 school.

CLEVELAND.—St. Andrew's Benevolent Society will erect three-story club house on Chestnut Ave.

COLUMBUS.—Architect J. U. Gribben, Columbus Savings & Trust Bldg., will prepare plans for erection of \$40,000 edifice for Tenth Avenue Baptist Church. Homer Price, Chairman Building Committee.

TOLEDO.—Commercial Savings Bank & Trust Co. is having plans prepared for erection of building at Second and Main Sts. C. B. Close, cashier.

OKLAHOMA

CLINTON.—Citizens have voted \$25,000 bonds for erection of city hall.

HENNESSEY.—City will soon select architect for erection of proposed city hall and jail. Cost, \$12,000.

MUSKOGEE.—Council has accepted plans for erection of two fire stations. Cost, \$10,000.

NOWATA.—Nowata County has voted \$75,000 bonds for erection of court house.

SOUTH COFFEVILLE.—City is considering \$10,000 bond issue for improvements, including erection of city hall and jail.

OREGON

NEWBERG.—First National Bank will erect two-story building on First St. in Spring.

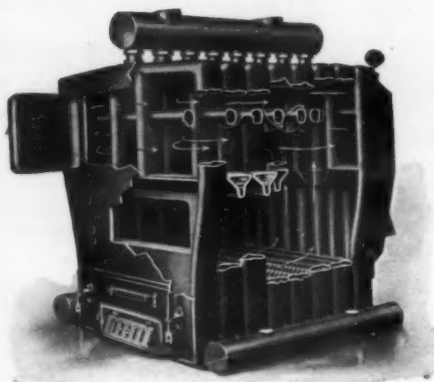
PORTLAND.—Architect R. N. Hockenberry, Washington Bldg., has prepared plans for erection of \$5,000 residence on E. 20th St. R. L. Blossom and A. N. Grussen are having plans prepared for erection of \$15,000 building on E. Fifteenth St.

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THE McCRUM-HOWELL Co.

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Two factories at Uniontown, Pa.
One at Norwich, Conn.
One at Racine, Wis.

PORTLAND.—A. S. Ellis will erect \$80,000 apartment house at corner of King and Washington Sts.

PORTLAND.—Louis J. West, Twenty-third and Alberta Sts., will erect \$20,000 building on corner of E. Nineteenth and Alberta Sts.

PORTLAND.—E. L. Hayson, Merchants' Trust Bldg., will erect twenty cottages in vicinity of Rose City Park.

PENNSYLVANIA

ABINGDON.—Erection of Y. M. C. A. building is being considered.

ALTOONA.—Gately and Fitzgerald will erect three residences at corner of Sixth St. and Seventh Ave.

BEAVER FALLS.—Jones & Laughlin Steel Co. is considering erection of \$250,000 business block.

CHESTER.—Architect E. A. Wilson, Land Title Bldg., Philadelphia, has prepared plans for erection of seventy houses.

CHESTER.—S. J. Hewes, Nineteenth and Hyatt Sts., will erect ten houses on W. Ninth St.

CRESTON.—Borough Council has decided to erect municipal building on Ashcroft Ave.

ELMSWORTH.—Village is considering erection of \$30,000 municipal building.

GREEN RIDGE.—Green Ridge Savings Bank will erect \$20,000 building at Sanderson Ave. and E. Market St.

HARRISBURG.—Wellknit Hosiery Co. will erect three-story factory. W. G. Starry, proprietor.

PHILADELPHIA.—Architect E. A. Wilson, Land Title Bldg., is preparing plans for four-story, \$100,000 apartment house to be erected at Fifty-first and Walnut Sts.

Thomas F. Bennett, Betz Bldg., is planning a four-story apartment house to be erected in West Philadelphia.

W. C. Pritchett, Jr., 420 Walnut St., is planning two 2½ story stone and frame houses to be built in Bala for Howard Neff. Cost, \$10,000 each.

PHILADELPHIA.—Reformed Congregation Keneseth Israel will erect proposed \$100,000 building at 1715 N. Broad St.

Architect E. Allen Wilson, Land Title Bldg., has completed plans for eighty-eight houses at Fifty-seventh and Pine Sts. for Model Building Co.

PHILADELPHIA.—Architects Bailey & Bassett, 421 Chestnut St., are preparing designs for science building for Haverford College.

PHILADELPHIA.—Architect T. F. Bennett, Betz Bldg., is designing \$25,000 theater for Phoenix Company on Frankfort Ave.

PHILADELPHIA.—Friedberger-Aaron Manufacturing Co. has had plans prepared for erection of factory.

Architect Walter Smeadley, Girard Bldg., is preparing plans of erection of \$25,000 store building at 1322 Chestnut St.

Twenty-six apartment houses will be erected at corner of Chestnut and Fifty-fourth Sts. Plans by E. A. Wilson, Land Title Bldg.

PHOENIXVILLE.—Henry L. Reinhold, Jr., Tenth and Sansom Sts., Philadelphia, has been commissioned by Board of Education to prepare plans for an addition to present Mason St. school building.

RHODE ISLAND

HARRISVILLE.—Wm. Tinkham Co. will erect \$75,000 plant at this place.

OLNEYVILLE.—Broadway Baptist Church is planning to erect edifice on Harris Ave. Albert Knight is interested.

PROVIDENCE.—E. F. Albee, Keith's Theater, is interested in erection of Theater on Westminster St.

SOUTH CAROLINA

CHARLESTON.—South Carolina Compress & Warehouse Corporation will shortly start building of five cotton warehouses on Charlotte St.

COLUMBIA.—Waverly School District No. 12 has voted \$20,000 bonds for erection of schools.

SOUTH DAKOTA

IAHOUIOS.—Citizens will vote on bonds for erection of public school building.

STOIX FALLS.—Local Odd Fellows will erect \$20,000 lodge hall. Plans prepared.

STOIX FALLS.—Knights of Columbus are considering erection of home.

TENNESSEE

CHATTANOOGA.—Hamilton Safe & Deposit Co. will erect skyscraper. John Stagmaier, D. P. Montague and others are interested.

CHATTANOOGA.—Colored Y. M. C. A. is considering erection of building on A St. Professor W. H. Singleton is interested.

JACKSON.—Bids will be received until March 11 for extension and remodeling of post office and court house. James K. Taylor, Washington, D. C., supervising architect.

TEXAS

ANSON.—Jones County Commissioners will receive bids until March 1 for three-story and basement brick and stone court house. E. G. Withers, Stamford, Architect; J. P. Stinson, County Judge.

CHILLICOTHE.—Henry Bradford will erect three business houses in this city.

CORPUS CHRISTI.—School Board has adopted plans by Jas. Wahrenberger, San Antonio, for erection of \$75,000 school.

EL PASO.—Architects Trost & Trost are preparing plans for First Church of Christ, Scientist, which will erect \$10,000 church building at corner of Montana and Stanton Sts.

Architect Ed. Kneezell has prepared plans for erection of \$40,000 four-story family hotel on N. Oregon St.

American National Bank will soon call for bids for erection of building block. T. M. Wingo, President.

FORT WORTH.—Stockyards National Bank has had plan prepared for erection of \$125,000 home. J. L. Price, president.

GEORGETOWN.—Bids will be received Feb. 22 for erection of court house for Williamson County. C. H. Page, Austin, architect.

PAMPA.—City is considering plans for erection of \$14,000 school.

SAN ANGELO.—G. M. Cannon will erect four-story \$45,000 store building in spring.

SAN ANTONIO.—Architect James D. Meehan, Hendricks Bldg., Syracuse, N. Y., is preparing plans and specifications for \$50,000 residence to be erected for J. A. Garland.

UTAH

FORT DOUGLAS.—Bids will be received until 10 a. m., March 1, by Kenneth P. Williams, Constr. Q. M., for construction of one double barrack.

VIRGINIA

COVINGTON.—Allegheny County Commissioners are considering issuance of \$40,000 bonds for erection of court house.

LYNCHBURG.—Architects McLaughlin, Pettit & Johnson have completed plans for erection of edifice for Cabell Street Baptist Church. Cost, \$30,000.

WASHINGTON

ABERDEEN.—Warren Gould, American Bank Bldg., Seattle, will prepare plans for erection of \$75,000 block on Heron St. W. B. Mack is interested.

EVERETT.—Jos. Rosseau is considering erection of \$65,000 brick building on California St.

HOQUIAM.—School Board has decided to erect \$40,000 school.

SEATTLE.—G. H. Spillmire will erect \$35,000 apartment house at corner of Eastlake Ave. and Almy St. M. W. Palmer, architect.

SPOKANE.—Court Royal No. 19, Foresters of America, will erect temple at corner of Pacific and Browne Sts. Samuel Crow, Chairman Building Committee.

WEST VIRGINIA

FULTON.—Fulton Bank directors will have plans prepared at once for erection of \$12,000 building. Louis Sax, Chairman Building Committee.

HUNTINGTON.—State Board of Control has decided to erect \$50,000 ward building at West Virginia Asylum. Plans will be prepared by Architect Warne, Charleston.

WISCONSIN

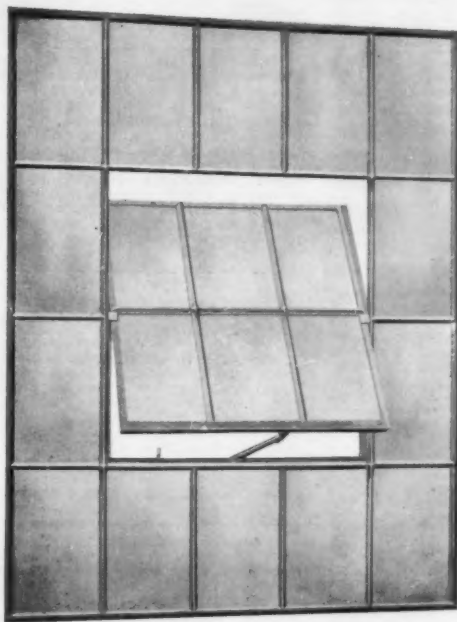
GRAND RAPIDS.—Congregational Church will erect \$30,000 edifice in spring. Rev. Fred Staff, Pastor.

GREEN BAY.—Sisters of St. Joseph have selected Foeller & Schober, Fox Block, to prepare plans for \$50,000 addition which is to be built to academy building.

MILWAUKEE.—Architects Leiser & Holst, Germania Bldg., have prepared plans for \$15,000 store to be erected on Oakland Ave. for Jas. Ford.

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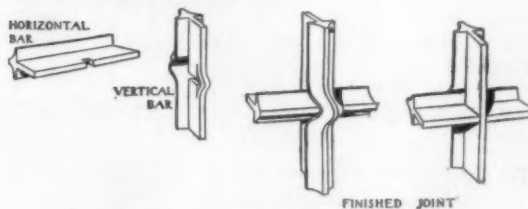
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Proposals shall be accompanied by a certified check in the sum of \$150, and the contractor to whom the award is made will be required to furnish surety company bond in the sum of \$1500 within 30 days after official notice of award of contract, and in accordance with the terms of specification No. 1306A. The right is reserved to reject any and all bids.

Drawings and specifications may be consulted and blank forms of proposals obtained at the N. Y. State Training School for Girls, Hudson, N. Y., and 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. (1780-81)

Treasury Department, Office of the Supervising Architect, Washington, D. C., January 26, 1910.—Sealed proposals will be received at this office until 3 o'clock P. M. on the 24th day of March, 1910, and then opened, for the construction (including plumbing, gas piping, heating apparatus, electric conduits and wiring and standard clock system) of an extension, remodeling, etc., to the U. S. Post Office and Court House at Sacramento, Cal., in accordance with drawings and specification, copies of which may be obtained from the custodian at Sacramento, Cal., or at this office at the discretion of the Supervising Architect.—James Knox Taylor, Supervising Architect. (1780-81)

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Treasury Department, Office of the Supervising Architect, Washington, D. C., January 26, 1910.—Sealed proposals will be received at this office until 3 o'clock P. M. on the 10th day of March, 1910, and then opened, for the painting and decorating of the United States Post Office, Court House and Custom House at Duluth, Minn., in strict accordance with the specification, copies of which may be had from the Custodian at Duluth, Minn., or at this office, at the discretion of the Supervising Architect.—James Knox Taylor, Supervising Architect. (1780-1)

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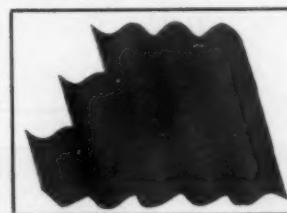
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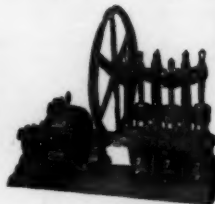
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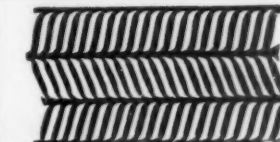


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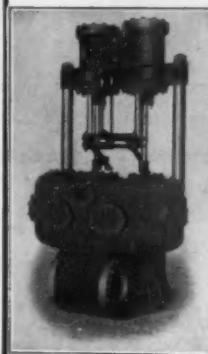
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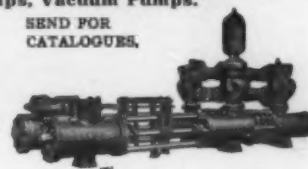
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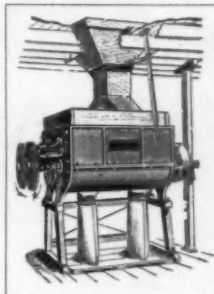


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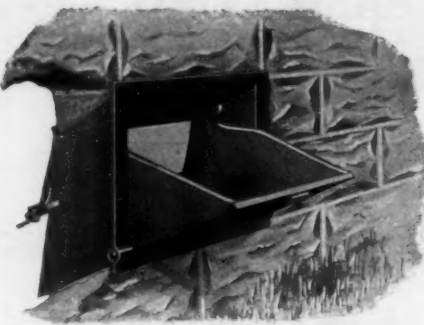
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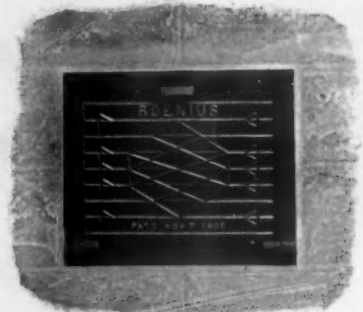
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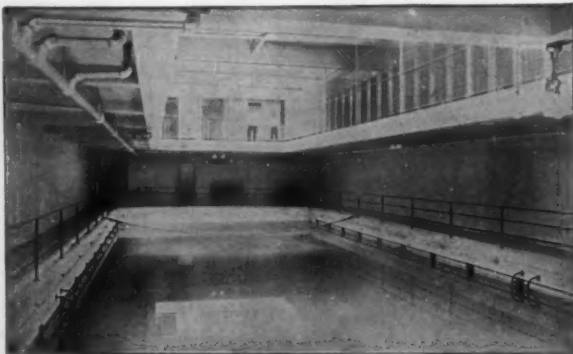
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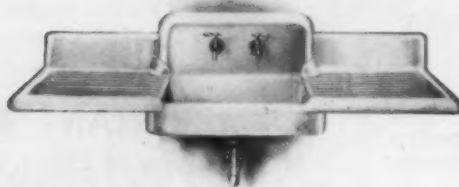
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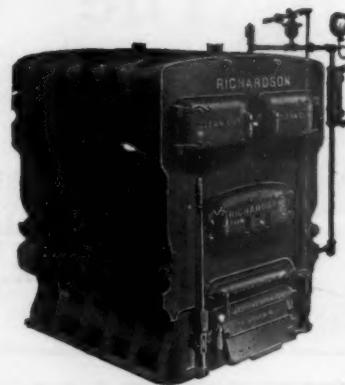
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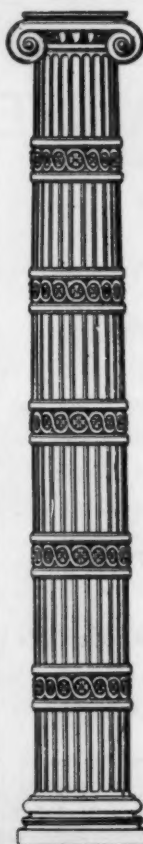
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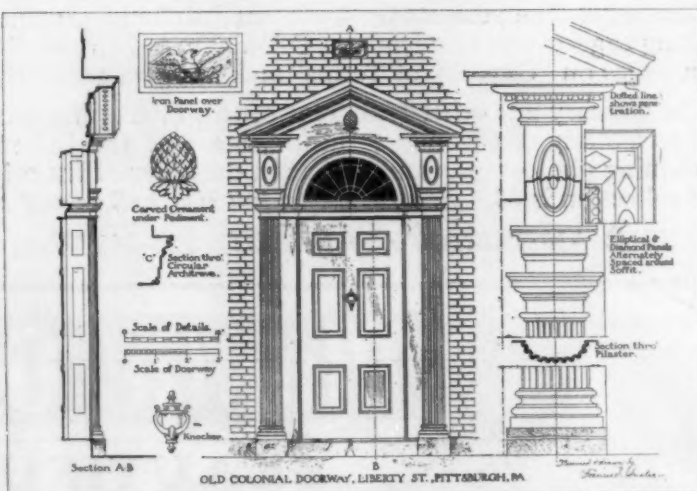
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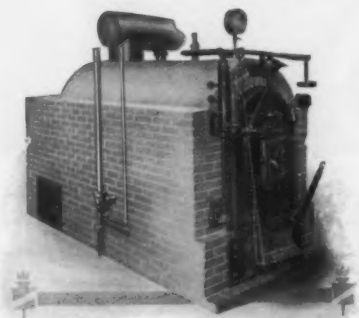
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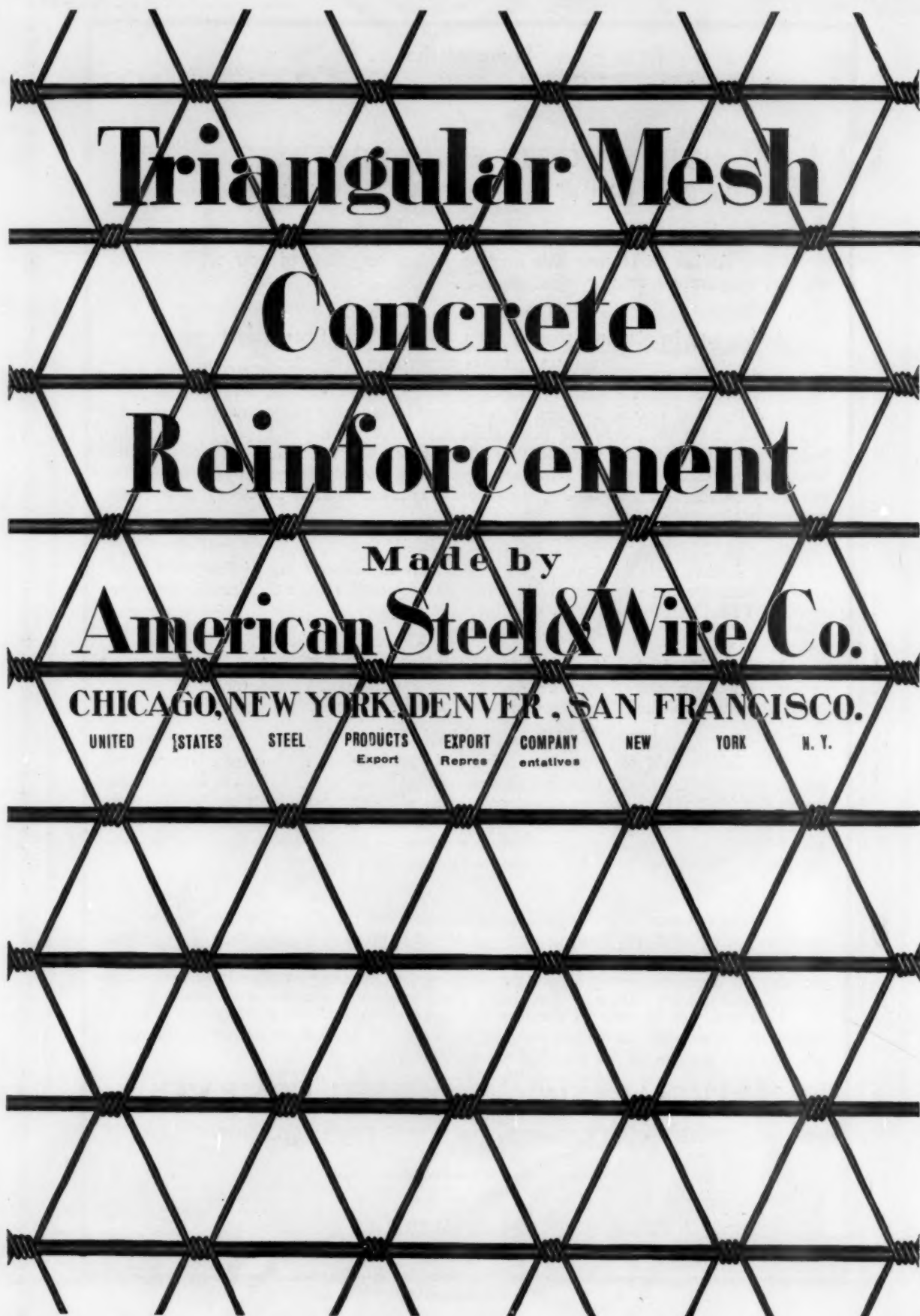
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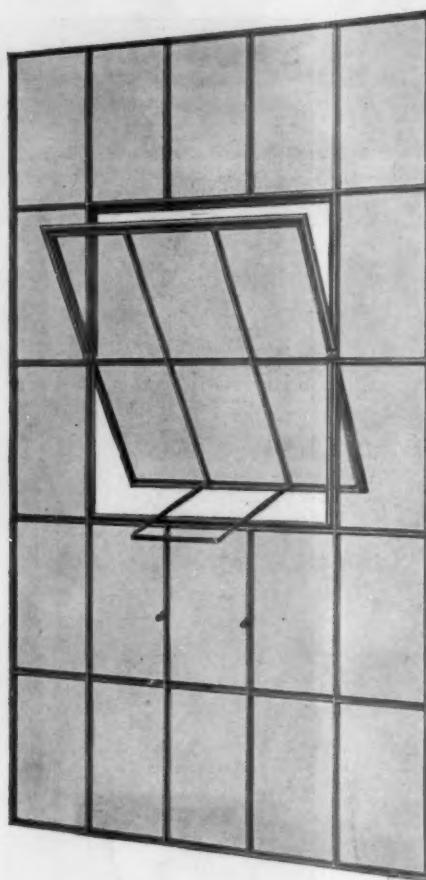
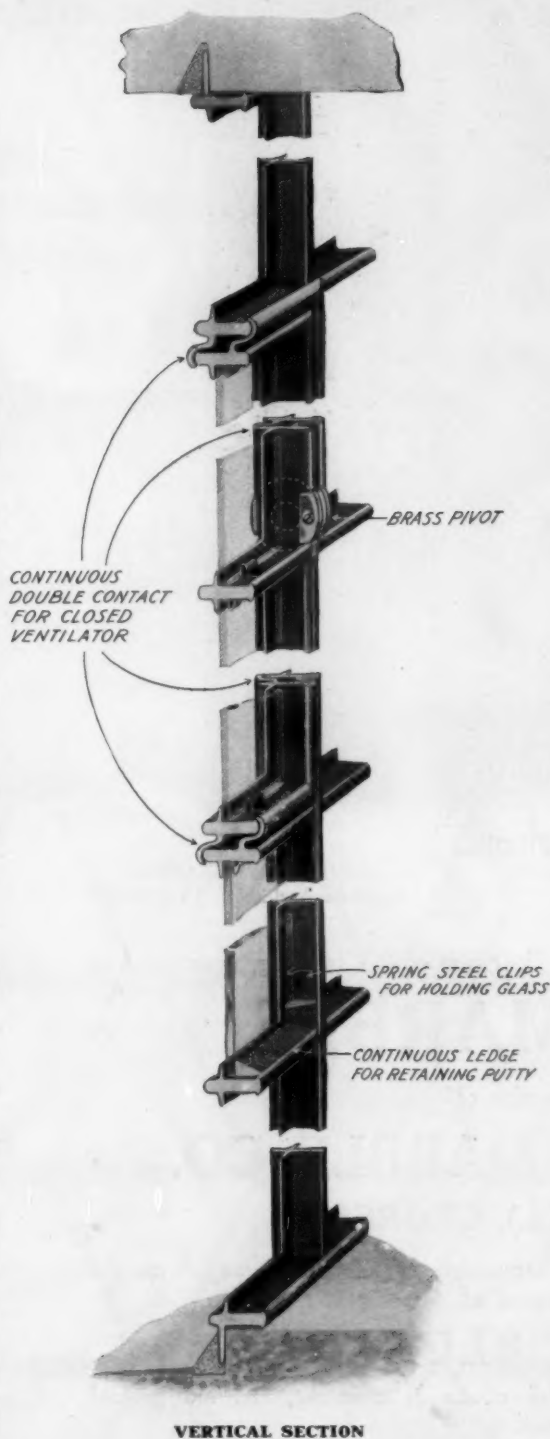
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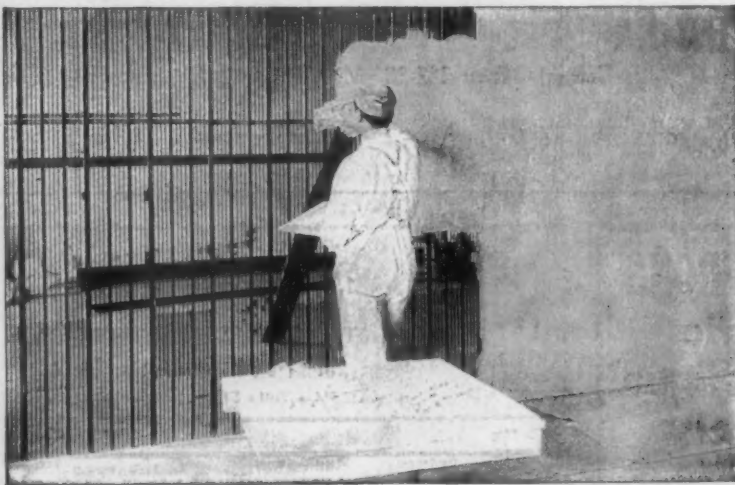
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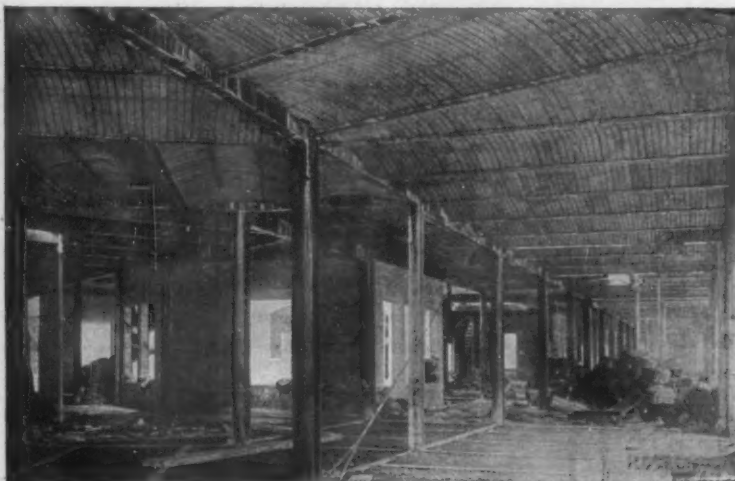
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CURRENT NEWS

SOCIETIES

SOCIETY OF COLUMBIA UNIVERSITY ARCHITECTS

Professor Hamlin has been occupying his half year leave of absence from his duties at Columbia in foreign travel with his family and in doing some important work. Sailing last June, at the close of the term, he expects to return for the beginning of the February term. His principal task has been the study of the future general plan and buildings of Robert College in Constantinople, of which his father, Dr. Cyrus Hamlin, was the virtual founder and first head, Mr. Robert of New York giving the funds. Professor Hamlin was born and passed his youth in Constantinople. The College has played a very important part in the shaping of Turkish thought and in preparing the way for the enlightened reforms of recent times, and it is desirous of enlarging its borders and providing itself with a properly articulated architectural plan, especially in view of the considerable bequest of the late Mr. John S. Kennedy.

In addition to the preparation of such a scheme, the perfecting of which will be a work of time, Professor Hamlin will give a number of lectures on professional subjects in Paris, London and other English cities, and will do considerable traveling, thus enjoying a well-earned rest, the first intermission of school duties which has come to him.

A series of talks by graduates to the students of the School of Architecture during the second term, has been arranged by a committee of the Society in conference with the executive head, as follows: 1. Lloyd Warren, March 1, 1910, subject: "Interior Decoration in France in the Eighteenth Century." 2. Robt. D. Kohn, March 8, 1910, subject: "The Architect as a Reformer." 3. J. Monroe Hewlett, March 15, 1910, subject: "Surface Texture in Architecture and Decoration." 4. H. Hornbostel, March 22, 1910, subject: "Architectural Draftsmanship." 5. Henry B. Herts, March 29, 1910. 6. William A. Boring, April 5, 1910. 7. A. A. Stoughton, April 12, 1910, subject: "Through Three Administrations With the Brooklyn City Hall." 8. Huger Elliot, April 19, 1910. 9. Philip Sawyer, April 26, 1910. The lectures will begin at 4.10 P. M.

PHILADELPHIA CHAPTER, A. I. A.

The Committee on Education and Programme through Professor Warren P. Laird reported a most interesting programme for the February meeting. It was stated that the subject for the evening would be Professional Ethics and that a prominent member of the Bar, a distinguished physician and a well-known New York architect would each speak for their respective professions and the "Ethics" relating thereto. These addresses will be followed by a general discussion.

After other general business the reproduction of the Annual Convention of the Institute was taken up with D. Knickerbacker Boyd presiding. The regular order of

the convention's business was followed, some of the addresses and reports of committees were read, this in many cases being done by the men who served in the same capacity at Washington.

Mr. Frank Miles Day concisely took up all matters presented by and to the Board of Directors; Mr. John Hall Rankin reported for the Committee on the President's address; Mr. Borie, Mr. Crane, Mr. Plack and others of the Chapter delegates and members all gave their impressions of various portions of the convention proceedings, and Mr. Boyd then summed up the results of the three days deliberation and was followed by Professor Laird who spoke to the Report of the Institute Committee on Education and outlined informally certain policies which were being formulated in connection with the School of Architecture at the University of Pennsylvania, after which the meeting adjourned.

SAN FRANCISCO CHAPTER, A. I. A.

The regular quarterly meeting of the San Francisco Chapter of the American Institute of Architects was held on Thursday evening, January 20, 1910.

Reports were received from the Standing and Special Committees, a committee of five on Publicity appointed and resolutions on the death of Mr. Henry Kenitzer, an honorary member of the Chapter, were adopted by a standing vote.

Mr. John Galen Howard, having recently returned from the A. I. A. annual convention at Washington, D. C., gave an interesting account of his trip and the proceedings of the convention, and stated the probability of the next convention being held in San Francisco.

PERSONAL

Mr. E. H. Kinnicutt, of the firm of Fontaine & Kinnicutt, died January 10, 1910, at Woonsocket, R. I., in the thirty-third year of his age.

Mr. Frank D. Hyde, architect, announces that he has opened offices, for the practice of his profession, at 810-12 Campbell Building, Oklahoma City, Okla., where he desires to receive manufacturers' samples and catalogues.

Maynicke & Franke, architects, advise us that they have moved to No. 25 Madison Square, North, New York.

We are advised that Earl N. Dugan, formerly with Russell & Babcock, Tacoma, and Burt A. Lewis, for a number of years with Holabird & Roche, Chicago, have formed a copartnership for the practice of their profession. Their offices are in the Savage-Scofield Building, Tacoma, Washington. They would like to receive samples and catalogues.

INDUSTRIAL

CONVENTION OF INTER-STATE CEMENT TILE MANUFACTURERS' ASSOCIATION

Announcement has been made of another addition to the long list of conventions that will be held in Chicago in conjunction with the third annual cement show, February 18-26. The latest organization to make this decision is the Interstate Cement Tile Manufacturers' Association, which embraces all the leading cement tile makers. The president of the association is Mr. L. L. Bingham, of Estherville, Ia., and the secretary is Mr. Chas. E. Sims, of Worthington, Minn. The convention dates are February 22 and 23.

SUCCESSFUL COMPETITORS IN THE YELLOW PINE ASSOCIATION'S COMPETITION

The Yellow Pine Manufacturers' Association wish to announce the following architects as having won the prizes offered by the association:

Mr. T. P. Reitmeyer, Masonic Temple, Williamsport, Pa. (cities less than 50,000), 105,790 feet 2½ inches E. G. flooring.

Mr. George R. Pyne, 31 Elm street, Springfield, Mass. (cities between 50,000 and 100,000 inhabitants), 25,000 feet 3¼ inches E. G. flooring.

Henry Sierks, 40 Dearborn street, Chicago, Ill. (cities over 100,000 inhabitants), 819,770 feet specially manufactured heavy factory edge grain flooring.

TILES

Aside from its decorative possibilities, tile presents other and perhaps more essential qualities that recommend their use in the modern house. These qualities may be summed up in the order of their importance, as follows: Sanitary, durable, decorative and low cost.

The first, and most important, the sanitary character of tile, would warrant their extensive use, as its non-porous quality makes it an invaluable covering for both floors and walk.

The use of tile offers the architect many opportunities to introduce features of decorative treatment that give the added touch of color and the sense of cleanliness so very desirable.

While the history of tile, like that of brick, dates from the earliest civilization, the possibilities to be achieved in its manufacture have now become realized, and what was one considered a lost art in tile making has been regained and the modern tile is an artistic achievement that entitles it to be placed in the most expensive buildings.

To learn what has been accomplished in the making of tile for specific uses, the architect should send to the Associated Tile Manufacturers, Beaver Falls, Pa., for the series of artistically prepared pamphlets recently issued. These are entitled: Tiles for the Kitchen and Laundry, Tiles for the Front Porch, Tiles for the Bathroom and Tiles for Fireplaces.

HIGH CLASS FITTINGS FOR BATHROOMS

While most architects are familiar with standard equipment for bathrooms, the knowledge of the latest

and most desirable forms of fittings and furnishings is not so general.

With the high grade installation furnished by many manufacturers there has been felt the necessity of a line of furnishings that would add the last touch of refinement to this important room of the house.

To show the skill and care necessary in the production of a line of goods of this character, together with the attention that can be given to the artistic form of even articles of general utility, Department Z of the J. P. Eustis Manufacturing Co., 100 North Street, Boston, Mass., has prepared an illustrated pamphlet (Handbook J), together with other well gotten up literature, for the purpose of showing the full extent of their line, which includes mirrors, towel racks, holders for toilet articles, shelves, paper holders, soap receptacles, and other items of excellent design and workmanship.

Reference to these pamphlets should be of material assistance to the architect who finds it necessary to specify the various fittings and furnishings that go to complete the modern bathroom, and we believe they will be found worth sending for.

PETRIFAX.

Every architect who has planned and built a concrete house has probably felt in viewing the work after completion that a tone different from the blue-gray of the finished exterior walls would enhance the color value of the house as affected by its environment. In addition to this much-to-be-desired change in color, he has found that the moisture that reaches the metal lath and reinforcement, through the porosity of the material, called for some means of exterior waterproofing. If the wood lath has been used, the moisture has probably caused swelling of lath and cracks in the wall surface. To combine in one material a selection of color and a means of waterproofing would solve these two problems and this it is claimed is done by the use of "Petrifax."

Dexter Bros. Co., of 105 Broad St., Boston, Mass., with offices at 542 Fifth Ave., make broad claims for "Petrifax" in addition to the two stated above. They claim, in an interesting illustrated pamphlet which may be had for the asking, that "Petrifax" is an ideal cement coating.

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A use for "Petrifax" that will appeal to the owners of buildings having concrete floors is the application of a tint the same shade as concrete, that prevents the usual dusting and excludes dampness as well.

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Correspondence is desired when full information will be given and other advantages claimed fully explained.



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BUILDING NEWS

To be of value this matter must be printed in the number immediately following its receipt, which makes it impossible for us to verify it all. Our sources of information are believed to be reliable, but we cannot guarantee the correctness of all items. Parties in charge of proposed work are requested to send us information concerning it as early as possible; also corrections of any errors discovered.

ALABAMA

ANNISTON.—Rebuilding of Leighton Ave. school is being considered.

BIRMINGHAM.—Temple Emanuel is considering plans for erection of Temple on Highland Ave.

BOYLES.—Plans have been prepared for erection of proposed car shops for Louisville & Nashville Railroad.

EUTAW.—Alabama Great Southern Railroad has had plans prepared for erection of depot.

ONEONTA.—Oneonta Trust and Banking Co. is considering erection of brick building.

TUSCALOOSA.—Board of Education will soon select sites for erection of grammar and high schools.

ARIZONA

BISBEE.—Plans have been prepared by Trost & Trost, El Paso, Tex., for erection of \$10,000 building for Citizens' Bank and Trust Bldg.

PHOENIX.—Elliott Evans is interested in erection of \$350,000 hotel.

PHOENIX.—Plans by Albright & Creighton, Los Angeles, Cal., and Phoenix, have been accepted for three schools. J. D. Loper, Superintendent of Schools.

ARKANSAS

HEBER.—Bids will be received until noon, March 2, for erection of county jail. F. W. Gibb & Co., Little Rock, Architects. W. C. Watkins, Chairman, Jail Commission.

LITTLE ROCK.—J. M. Whitehead is preparing preliminary plans for \$50,000 building to be used by fire and street departments. W. R. Duley, Mayor.

TEXARKANA.—City is considering erection of \$50,000 Carnegie Library.

CALIFORNIA

AUBURN.—E. B. Beecher is considering erection of large apartment house on Almond Hill.

EXETER.—School Board has accepted plans by Carl Thayer, Visalia, for \$30,000 high school.

LOS ANGELES.—Consolidated Realty Co., Judge D. K. Trast, president, will erect eight-story \$400,000 hotel at corner of Hill and Ninth Sts.

LOS ANGELES.—Broadway Building Co., American Savings Bank building, will erect four-story office building, cost \$100,000, on Hill St.

MODESTO.—City has \$20,000 available for erection of library.

ORLAND.—Plans have been prepared for erection of \$25,000 school. S. M. Chaney, Glenn County school superintendent.

POMONA.—Calvary Baptist Church has accepted plans by Architect Marsh for erection of Sunday School building.

SAN FRANCISCO.—Pacific Union Club will erect building at corner of Stockton and Post Sts; \$525,000 is available.

SAN FRANCISCO.—Plans are being prepared by Architects John and Schmidlin, Monadnock Bldg., for erection of \$100,000 apartment house at corner of Bush St. and Van Ness Ave.

Architect N. W. Sexton, Chronicle Bldg., has prepared plans for erection of \$45,000 building on Fourth St. near Howard.

WILLOWS.—Plans are being prepared for erection of brick annex to Crawford Hotel.

WOODLAND.—Unitarians will erect church on Lincoln Ave.

COLORADO

GREELEY.—Bids will be received until Feb. 23 by Board of Trustees of State Normal School for furnishing material and erecting a training school. Thos. P. Barber, Colorado Springs, architect; A. J. Parks, secretary.

CONNECTICUT

NEW HAVEN.—Scientific School of Yale University will erect \$250,000 laboratory. Professor R. H. Chittenden, Director.

DISTRICT OF COLUMBIA

WASHINGTON.—Jas. K. Jones will erect residence on Wyoming Ave. near Twenty-third St.

Architect Geo. O. Toten, Jr., 808 Seventeenth St. N. W., has prepared plans for immediate erection of residence at Chevy Chase for H. H. Glassie.

Epiphany Episcopal Parish has \$50,000 available for erection of parish hall. Rev. Dr. R. H. McKim, rector.

WASHINGTON.—N. T. Haller Co., Corcoran Building, has completed plans for erection of \$5,000 residence at 1824 Fifteenth St., N. W.

J. I. Moebs will erect six-story apartment house at Calvert St. and Adams Mill Road. Cost, \$150,000.

Lieut. W. H. Santelmann will erect \$25,000 residence on Connecticut Ave.

Architect Chas. Gregg, 1320 New York Ave., N. W., has prepared plans for erection of \$100,000 addition to Fidelity Storage Co.'s building at 1420 U St., N. W.

WASHINGTON.—Architect N. R. Grimm, 625 F St., N. W., has prepared plans for erection of \$20,000 store and apartment house on Otis Ave.

Architect B. S. Simmons, 931 F St., N. W., has prepared plans for erections of \$20,000 four-story store building at Eleventh and H Sts., N. W.

Metropolitan Baptist Church has instructed A. P. Clark, Jr., 605 F St., N. W., to proceed with the final plans for the proposed edifice at Sixth and A Sts., N. E.

FLORIDA

KEY WEST.—E. H. Gato is interested in erection of factory at South Beach.

PENSACOLA.—Richard Swaine is planning to erect residence on West Hill.

Bullock & Caldwell will erect two-story brick building at Wright and Palafox Sts.

TAMPA.—W. T. Boyd will erect \$25,000 brick block at Florida Ave. and Harrison St.

GEORGIA

COLLINS.—City has issued bonds to erect \$7,500 school. H. H. Elders, City Attorney.

ST. GEORGE.—Citizens have voted \$10,000 bonds for erection of school. F. A. Bishop, Candler Bldg., Atlanta, architect.

IDAHO

LEWISTON.—Baptist Church will erect \$15,000 edifice on Normal Hill.

ILLINIOS

CHICAGO.—St. Peter's Episcopal Church will erect \$50,000 parish house at Evanston and Belmont Aves.

M. August Gross is considering erection of large apartment house at Evanston Ave. and Winona St.

Tarrant Foundry Co. will erect \$100,000 foundry building at corner of Seventeenth and Robey Sts.

CHICAGO.—J. L. Kesner will erect \$800,000 building at corner of Fifth Ave. and Madison St.

ELGIN.—Andrew Magnus has had plans prepared for erection of garage.

INDIANA

INDIANAPOLIS.—Big Four Railroad will erect car shops, cost \$1,000,000, at Beech Grove.

IOWA

CRESTON.—Chautauqua auditorium will be rebuilt at once.

DES MOINES.—Citizens will vote March 14 on \$400,000 bonds for erection of school.

DES MOINES.—M. Strauss will erect residence on Thirty-seventh St.

DES MOINES.—Thos. T. Stoner is planning to erect hotel at corner of Ninth and Walnut Sts.

DES MOINES.—State Agricultural Board has decided to erect three large buildings on State Fair Grounds.

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FORT DODGE.—Plans have been prepared for erection of proposed Y. M. C. A. building on First Ave., W., and Sixth St. Liebke, Rasmussen & Nourse, 724 Walnut St., Des Moines, Architects.

MUSCATINE.—St. Matthew's Catholic Church has decided to erect \$40,000 edifice.

SIOUX CITY.—Contract will soon be let for erection of four-story building at corner of Fifth and Wall Sts. for International Harvester Co.

WATERLOO.—Board of Supervisors is considering erection of memorial hall.

KANSAS

ATCHISON.—Erection of Y. M. C. A. building is being considered. B. P. Waggner is interested.

CHANUTE.—Citizens will soon vote on \$55,000 bonds for erection of school.

FORT LEAVENWORTH.—Officers at this post are considering plans for erection of country clubhouse.

INDEPENDENCE.—Citizens' Bank will erect five-story building on present site.

MCPHERSON.—Swedish Lutheran Church will erect edifice.

PARADISE.—Lutherans are considering erection of \$5,000 edifice.

PLAINVILLE.—City will erect \$25,000 school in spring.

MARYLAND

BALTIMORE.—Architect J. F. Henley has completed plans for erection of \$5,000 dwelling on Sherwood Ave.

BALTIMORE.—Builders' Mortgage Security Association will erect number of two-story dwellings at corner of Presstman and Tenth Sts., Walbrook.

Architect T. F. Gerwig, 210 East Lexington St., has prepared plans for erection of eight two-story houses on Rayner Ave.

Dietrich Bros., North and Pleasant Sts., are considering erection of foundry and warehouse at 345 Davis Ave.

BALTIMORE.—Architect J. E. Sperry, Calvert Bldg., has completed plans for erection of branch of Enoch Pratt Library at corner of Beason and Towson Sts.

Falconer Co. is considering erection of warehouse at corner of Gay and Water Sts.

Lakeland Presbyterian Church will erect edifice at Belvedere and Main Aves. Bayard Turnbull, 12 E. Lexington St., architect.

Architect E. H. Glidden, 16 St. Paul St., has prepared plans for erection of \$15,000 residence for N. S. Kennedy.

HAGERSTOWN.—People's Bank, Smithsburg, will erect \$20,000 building in Smithsburg.

PIKESVILLE.—St. Charles Church is having plans prepared for erection of school. Rev. M. J. Riordan, Pastor.

MASSACHUSETTS

BOSTON.—H. L. Rogers, Stone and Webster Corporation, will erect residence on Spooner Road.

CAMBRIDGE.—W. C. Thairwall & Co. will erect factory at Tudor and Emily Sts.

CHICOPEE.—Plans will be prepared by Geo. P. B. Alderman & Bro., Holyoke, for erection of school on West St.

FALL RIVER.—New bids will be asked for erection of proposed school in Ward 3.

NEW BEDFORD.—Rev. Avrosios Paparashos is interested in erection of Greek church.

NEW BEDFORD.—L. E. Destremps, Masonic Bldg., is preparing plans for erection of \$75,000 building on South Water St.

MICHIGAN

DETROIT.—Harrigan & Reed, 70 State St., will erect six-story \$100,000 building at corner of State St. and Park Place.

L. M. Monroe, 313 Hammond Bldg., is considering erection of \$12,000 apartment house at corner of Woodward and Bethune Aves.

FLINT.—Bids will be received by Board of Education until Feb. 28 for erection of proposed Dort School. Cost, \$72,000.

GRAND RAPIDS.—Bids will be received by Board of Education until February 21, noon, for \$150,000 high school bonds. T. D. Perry, secretary.

KALAMAZOO.—Architect R. A. LeRoy will prepare plans for erection of block at corner of South Burdick St. and Exchange Place for G. W. Ritchie.

MINNESOTA

PRESTON.—Architect H. J. Aurlie, Spring Valley, has prepared plans for erection of library building.

MISSISSIPPI

MERIDIAN.—Citizens' National Bank will erect six-story office building at corner of Twenty-second Ave. and Sixth St. Plans being prepared.

M. W. Wagner will also erect six-story store and office building on Twenty-second Ave.

MISSOURI

KANSAS CITY.—Architects Edwards & Sunderland, Sheidley Bldg., will prepare plans for erection of edifice to replace First Church of Christ. Cost, \$75,000.

KANSAS CITY.—O. C. Snider, Kansas City Home Telegraph Co., will erect residence at Fifty-third and Cherry Sts.

Mrs. Emma J. Meyer will erect modern business building at 1112 Grand Ave.

KANSAS CITY.—Dr. H. G. Tureman will erect \$20,000 home on Oak St.

Wm. McLaughlin is planning to erect residence on Oak St. Gilbert Morton will erect colonial brick residence on McGee St.

KANSAS CITY.—Independence Boulevard Christian Church, at Gladstone Boulevard, is planning to erect clubhouse for young men. H. F. Hoit, architect.

Architect E. C. Faris, Shukert Bldg., has prepared plans for erection of \$30,000 city market.

ST. LOUIS.—E. G. Kupferle, 5215 Lindell Boulevard, will erect \$50,000 factory on Wright St. C. T. Richards, Victoria Bldg., architect.

NEBRASKA

FREMONT.—Plans have been prepared for erection of addition to Federal Building. Jas. K. Taylor, Washington, D. C., supervising architect.

MITCHELL.—Architect M. N. Bair, Hastings, has prepared plans for erection of \$16,000 school house. R. W. Hobart, Secretary, Board of Education.

OMAHA.—Burlington Railroad will erect \$1,000,000 freight terminal in this city. Plans prepared. A. B. Smith, assistant general freight agent.

OMAHA.—Drake-Williams-Mount Co. will erect addition to plant at Twenty-second and Hickory Sts.

NEW JERSEY

BAYONNE.—Board of Education has approved plans for erection of No. 11 School on West Twenty-third St.

ELIZABETH.—Board of Trustees have accepted Andrew Carnegie's offer to erect \$75,000 library building.

ELIZABETH.—Hamilton F. Kean has had plans prepared for erection of stone building on Broad St.

HIGH BRIDGE.—Board of Education will call election on \$12,000 bonds for erection of school.

NEWARK.—Plans have been prepared for modern restaurant building for P. Ballantine & Sons, to be erected at Broad St. and Washington Place.

Edward Wurth, 11 Clinton St., has prepared plans for erection of six-story building at 89 Market St. for L. Gross.

NEWARK.—Fairmount Baptist Church is considering erection of addition.

Architect Nathan Myers, 238 Washington St., has prepared plans for three commercial structures to cost \$100,000.

Cohen & Bessman have prepared plans for erection of two-story \$15,000 building at 385 Springfield Ave.

NEWARK.—Committee on Presbyterian Church extension in Presbytery of Newark will erect edifice on Peshine Ave., in Weequahic Section.

OCEAN CITY.—Ocean City Motor Boat Club will erect clubhouse on Fifteenth St. H. D. Le Cato, Audubon, chairman of Building Committee.

PATERSON.—The contract for construction of four-story and basement apartment house to be erected at corner of Clark and Ward Sts. by Mr. Isaac Wrubel, Middletown, Conn., has been placed with Frank B. Gilbreth, Inc., 60 Broadway, New York. William D. Johnson, Inc., Hartford, Conn., architect.

St. Bonaventure's Catholic Club, West Fifteenth St., is considering erection of clubhouse. Plans not yet prepared.

PERTH AMBOY.—Architect Anton Jensen will soon ask bids for erection of four-story brick building at Smith and State Sts.

PLAINFIELD.—Bishop O'Connor, of Newark, has approved plans for a convent to be erected at Liberty and West Sixth Sts. A. M. De Meuron, New York, architect.



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RIVERTON.—Architect H. A. Macomb, 717 Walnut St., Philadelphia, is designing \$20,000 residence for J. F. Dorrance.

TRENTON.—Plans have been accepted by Board of Education for erection of \$70,000 school on Rutherford Ave. Klemann & Fowler, architects.

WEEHAWKEN.—Plans have been completed by Architect C. L. Peden, 103 Park Ave., New York City, for erection of a \$50,000 factory building on Gregory St. for General Motor Company, of 103 Park Ave., New York City.

WEST HOBOKEN.—Plans have been completed by Architect Frederick Hensel, of 246 Summit Ave., for the construction of \$20,000 apartment building on Demott St. and Clinton Ave.

NEW YORK

BATH.—Lackawanna Railroad will at once erect \$30,000 depot. G. H. Parker, local agent.

BROOKLYN.—Calvary Church will rebuild edifice destroyed by fire. Dr. John Williams, 781 Quincy St., Pastor.

Eight two-story dwellings, cost \$28,000, will be erected on East Thirty-second St. for Stanglor Construction Co., 130 Grand St.

J. Grogan, 649 Linwood St., will erect three stores and dwellings on Linwood St. Cost, \$17,000.

J. R. Corbin Co., E. Fifty-sixth St. and Ave. U, will erect three dwellings on E. Fifteenth St. Cost, \$12,000.

Municipal Art Commission has approved plans for erection of \$19,000 addition to Public School No. 19, S. Third and Keap Sts.

BROOKLYN.—E. Huber, Meserole St. and Bushwick Place, will erect \$18,000 hotel on Coney Island Ave.

Six two-story dwellings, cost \$33,000, will be erected on East Fifteenth St. for Codlar Improvement Co., 90 East Tenth St., New York City.

H. B. DeWaltoff, 457 Forty-seventh St., will erect \$16,000 theater on Seventh Ave.

BUFFALO.—Building Commission will soon ask competitive plans from local architects for erection of \$450,000 high school on W. Chippewa St. H. P. Emerson, Superintendent of Education.

MOUNT VERNON.—New York, Westchester & Boston Railway will erect five stations in this city.

NEW ROCHELLE.—Council has decided to issue \$85,000 bonds for erection of school.

NEW YORK.—John N. Golding, 9 Pine St., is considering erection of building on Fortieth St.

Hunt & Hunt, architects, 28 East Twenty-first St., are preparing plans for improving block at Naegle and Hillside Aves. with apartment houses.

NEW YORK.—Dawson Construction Co., 24 E. Twenty-third St., will erect six-story flat on Cathedral Parkway; cost, \$200,000. Bernstein & Bernstein, 24 E. Twenty-third St., Architects.

Wm. Cleary, 2433 St. Raymond Ave., will erect \$5,000 dwelling on St. Raymond Ave. B. Ebeling, 1136 Walker Ave., Architect.

Jerwood Realty Co., 5 Beekman St., will erect eleven dwellings on 235th St.; cost, \$93,000. C. S. Clark, 445 Tremont Ave., Architect.

NEW YORK.—Interborough Rapid Transit Co. will erect \$25,000 brick store building on Cathedral Parkway. F. W. Herter, 186 Remsen St., Brooklyn, Architect.

Gledhill & Keim, 43 W. Ninety-fourth St., will erect \$75,000 factory at 547 W. Thirty-fourth St. W. Higginson, 21 Park Row, Architect.

West 139th Street Realty & Construction Co., 686 Willoughby Ave., Brooklyn, will erect six-story brick store and flat on 150th St. Cost, \$175,000. Gronenberg & Leuchtag, 7 W. Twenty-second St. S., Architects.

NEW YORK.—Interborough Rapid Transit Co., 165 Broadway, will erect \$100,000 car barn on 242d St. G. E. Pegram, 165 Broadway, architect.

Scheer-Ginsburg Construction Co., 198 Broadway, will erect eight-story \$200,000 apartment building on 118th St. G. F. Pelham, 507 Fifth Ave., architect.

Fifth Ave. Baptist Church has accepted plans by Wm. Welles Bosworth, 527 Fifth Ave., for erection of \$500,000 edifice.

NEW YORK.—S. M. Warner, 79 Wall St., will erect twelve-story brick office building on Forty-first St. Israels & Harder, 31 W. Thirty-first St., architects.

W. C. Bergen, 180th St. and Andrews Ave., will erect four frame dwellings on Aqueduct Ave.; cost, \$34,500. J. R. Serviss, 3063 Decatur Ave., architect.

ROCHESTER.—Architects Claude Bragdon, Cutler Bldg., and James Arnold will prepare plans for erection of proposed memorial building at Spring and Washington Sts. for Mechanics Institute.

TROY.—Rensselaer Polytechnic Institute will erect \$150,000 administration building. Designs prepared.

YONKERS.—Smith Carpet Co. will erect another brick factory on Nepperhan Ave.

NORTH CAROLINA

RALEIGH.—Plans have been prepared for erection of agricultural and horticultural building at State fair ground.

OHIO

CLEVELAND.—Architects Dercum & Beer, Schofield Bldg., will prepare plans for erection of two residences.

COLUMBUS.—Architects Julian & Julian, 576 North High St., have prepared plans for three-story business block on East High St.

COLUMBUS.—Architect Otto Darst, Brunson Bldg., is preparing plans for erection of residence on Granville St. for Frank Harvey.

Architect E. H. Rickett, Columbia Bldg., is preparing plans for erection of residence at Waldeck Ave. and Woodruff St.

COSHOCTON.—Architects Howard & Merriam, Capitol Trust Bldg., Columbus, have completed plans for erection of school building.

DEFIANCE.—Plans by Abraham Boegley, Berne, Ind., have been adopted for proposed \$10,000 edifice for Reformed Church.

DELAWARE.—Architects Marriott & Allen, Hayden-Clinton Bank Bldg., Columbus, will prepare plans for proposed high school.

FINDLAY.—Architects Howard & Merriam, Capitol Trust Bldg., Columbus, have been selected to prepare plans for \$25,000 school.

WESTERVILLE.—Architects Richards, McCarty & Bulford, Rugery Bldg., Columbus, have prepared plans for erection of bank building for Bank of Westerville.

OKLAHOMA

EL RENO.—Bids will be at once asked for erection of city hall and fire station; \$80,000 available.

ENID.—School District No. 57 will vote on \$175,000 bonds for erection of high school and \$25,000 for additions to ward schools.

ENID.—Bids will soon be asked for erection of proposed Federal Building. Jas. K. Taylor, Washington, D. C., supervising architect. F. E. Purcell, postmaster.

LAWTON.—Election on \$20,000 bonds for erection of school is being considered.

OKLAHOMA CITY.—Sulzberger & Swartzchild Packing Co. will erect \$3,000,000 packing plant.

OKLAHOMA CITY.—E. L. Lawrence and Andrew Kingkade are planning to erect \$225,000 hotel on Grand Ave.

OREGON

LAKEVIEW.—Citizens will vote Feb. 26 on \$40,000 bonds for erection of school building.

MEDFORD.—Medford Lodge, No. 103, A. F. & A. M., has decided to erect \$50,000 three-story building on E. Main St.

PORTLAND.—Scandinavian-American Bank is considering erection of bank building at Fifth and Morrison Sts.

Roberts Bros. are considering erection of department store on Morrison St.

E. Zimmer, 891 E. Caruthers St., is considering erection of \$20,000 store and apartment building at E. Thirty-seventh St. and Hawthorne Ave.

PORTLAND.—Mrs. Daisy Lotts, Knoxville, Ill., will erect \$30,000 business block on Union Ave. Stiles & Peper, 520 Union Ave. North, local representative.

John Beck, Beck Investment Co., is considering erection of business block at Union Ave. and Russell St.

R. Politzsch, 305 East Sixth St., Albina, will erect \$8,000 residence at Fifteenth and Wasco Sts. Architect not yet selected.

PORTLAND.—Architect J. D. Wrenn, Board of Trade Bldg., will prepare plans for erection of three-story \$30,000 building at Union Ave. and Brown St.

OKLAHOMA

TECUMSEH.—Methodist congregation at Maud will rebuild edifice destroyed by fire.

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PENNSYLVANIA

BUTLER.—Architect William Foster has completed plans for synagogue to be erected by Bnai Abraham congregation.

CHESTER.—Bethany Presbyterian Church will have plans prepared for erection of \$15,000 edifice.

DUNMORE.—First National Bank will erect \$25,000 building on E. Drinker St. Competitive plans are being received.

HARRISBURG.—School Board has purchased site at Sixteenth and Catherine Sts. for school purposes.

MIDDLETOWN.—Middletown Car Co. is preparing plans for extensions to plant. Cost, \$300,000.

MONONGAHELA.—Central Baptist Church will purchase site for erection of edifice.

PHILADELPHIA.—Architects Heacock & Hokanson, Bailey Bldg., are preparing plans for erection of clubhouse at Lansdowne for Twentieth Century Club.

PHILADELPHIA.—W. J. McCahan Sugar Refining Co. will erect \$200,000 addition on Ash St.

Architect H. L. Reinhold, Jr., Tenth and Sansom Sts., is preparing plans for residence at Stone Harbor for E. Kane.

Plans are being prepared for erection of sixteen suburban houses at Germantown. Cost, \$10,000 each. E. A. Wilson, Land Title Bldg., architect.

PHILADELPHIA.—German Evangelical Lutheran Church, Tacony, will erect \$25,000 edifice on Jackson St.

PHILADELPHIA.—Architect John G. Brown is preparing plans for erection of six-story warehouse at 919 Arch St. Cost, \$55,000.

James W. Orr has commissioned Architect E. Allen Wilson, Land Title Bldg., to prepare plans for twenty-nine three-story stores and dwellings at Kensington Ave. and Westmoreland St.

PITTSBURG.—D. C. Marshall, McClintic-Marshall Construction Co., has had plans prepared for erection of residence at Fifth and Shady Aves.

Heppenstall Forge and Knife Co. will expend \$250,000 in improvements to plant near Home and Hatfield Sts. Plans prepared.

SHAMOKIN.—Matthias Croninger has had plans prepared for erection of store and apartment building at corner of Second and Walnut Sts.

SHAMOKIN.—Architect L. M. Bitterman is preparing plans for erection of business building.

SHENANDOAH.—Board of Education is considering plans for erection of four schools in Coal Township. Address Superintendent Yocum.

WILLIAMSPORT.—Country Club has adopted plans for erection of club house. J. B. Emery, Chairman Building Committee.

Geo. Bubb & Sons will erect office and warehouse building on Market St.

St. Luke's congregation will erect \$14,000 chapel at corner of Brandon Ave. and Elmira St., Vallamont.

SOUTH CAROLINA

ROCK HILL.—J. S. Starr, Architect, has completed plans for the Highland Park Methodist Church, to be erected at the Highland Park Mills. He has also completed plans for a ten-room residence for V. B. Blankenship, of Fort Mill.

TENNESSEE

BRISTOL.—Methodist Episcopal congregation is considering erection of \$20,000 edifice. Rev. C. T. Coombs, Pastor.

JOHNSON CITY.—C. G. Mitchell, architect, has completed draft of plans and specifications for \$35,000 Science Hall for Milligan College. Geo. W. Hardin, treasurer, Board of Curators.

KNOXVILLE.—Presbyterian Synod's committee has appropriated \$75,000 for rebuilding churches in State. Dr. Jas. M. Clark, Nashville, Chairman.

TEXAS

BROWNWOOD.—Bids will be received at Bank of Broock Smith until 10 a. m., Feb. 24, for erection of brick hotel. Waller-Shaw & Field, Fort Worth, architects.

DALLAS.—County Commissioners are considering erection of \$10,000 addition to jail.

HARLINGEN.—Harlingen Independent School District will erect \$40,000 school.

MART.—City will rebuild public school. Cost about \$20,000.

MARQUEZ.—Citizens have voted to erect \$7,500 school.

MARSHALL.—St. Joseph's Church is considering erection of edifice. Mgr. L. Granger, Pastor.

PECOS.—Methodist congregation will erect edifice near center of city.

QUANAH.—Methodist Church, South, is considering erection of \$25,000 edifice.

QUANAH.—B. J. Brothers and J. H. Guthrie will erect three-story office and store building at corner of Main and McDonald Sts.

L. Simpton will erect three-story bank and office building on Main St.

STAMFORD.—City will have Baptist sanitarium costing \$100,000. Rev. F. S. Groner, Pastor, First Baptist Church, is interested.

Knights of Pythias, Lodge 297, will erect building.

UTAH

SALT LAKE.—Jensen Creamery & Supply Co. is considering erection of cold storage plant on Fourth West St.

Citizens have voted to expend \$700,000 for school improvements.

SALT LAKE CITY.—J. Howard Garrett, Orpheum Theater, is interested in erection of \$250,000 theater on State St.

VIRGINIA

ABINGDON.—L. P. Summers will erect \$20,000 hotel. Plans have been prepared.

ALEXANDRIA.—Enlargement of Second Presbyterian Church is being considered. Rev. Jos. R. Sevier, Pastor.

CHATHAM.—Plans have been prepared for erection of \$10,000 building at Chatham Training School for Boys.

HARRISONBURG.—J. C. Staples & Co. will erect two dwellings on Mason St.

PETERSBURG.—W. H. Harrison Co. will erect \$26,000 building on Washington St.

PETERSBURG.—Mechanics' Association has decided to erect \$125,000 building at corner of Sycamore and East Tenth Sts.

PORTSMOUTH.—School Board is urging election on \$95,000 bonds for erection of school buildings.

ROANOKE.—C. G. Smith will erect addition to Ponce de Leon Hotel.

WASHINGTON

BELLINGHAM.—Architects Piper & Corder have prepared plans for erection of \$125,000 six-story apartment building.

State National Guard will erect \$75,000 armory at corner of Pine and Elk Sts.

BELLINGHAM.—Plans have been prepared for erection of \$10,000 garage for Union Auto Co. H. J. Crockett, Manager.

EVERETT.—Odd Fellows will erect four-story \$30,000 building.

RITZVILLE.—Citizens will vote on \$27,000 bonds to erect central high school.

SEATTLE.—Architect E. E. Green, Central Bldg., has prepared plans for erection of \$40,000 apartment building at corner of Tenth Ave. and Harrison St.

SEATTLE.—Architect W. W. Noyes, 725 Central Bldg., is preparing plans for erection of \$45,000 building on Ninth Ave.

SEATTLE.—Architects Spalding & Umbrecht, Globe Bldg., will prepare plans for erection of six-story \$150,000 hotel at corner of Maynard Ave. and Jackson St.

SEATTLE.—Architect J. O. Taft, Arcade Building, is preparing plans for erection of apartment house at corner of John St. and Nineteenth Ave. Cost, \$32,500.

SPOKANE.—City will erect two brick schools at cost of \$90,000.

SPOKANE.—C. F. Barth is planning to erect \$40,000 brick apartment house on corner of Third Ave and Ash St.

WISCONSIN

JANESVILLE.—Janesville Machine Co. is planning to erect \$45,000 warehouse in spring at Pleasant and South River Sts.

LA CROSSE.—Governor's Guard Association is planning to lease site for \$50,000 armory.

MILWAUKEE.—Gridley Dairy Co. will erect branch plant at Brady St. and Farwell Ave.

RACINE.—Gold Medal Camp Furniture Co. is considering erection of branch plant in Canada. C. C. Gittings, president.

CANADA

NIAGARA FALLS, ONT.—College Board, C. J. Mackenzie, chairman, is considering erection of \$20,000 convention hall.

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PROPOSALS

Treasury Department, Office of the Supervising Architect, Washington, D. C., February 3, 1910.—Sealed proposals will be received at this office until 3 o'clock P.M. on the 18th day of March, 1910, and then opened, for the extension, remodeling, etc. (including plumbing, gas piping, heating apparatus, electric conduits and wiring), of the U. S. Post Office at Rome, Georgia, in accordance with the drawings and specification, copies of which may be had from the Custodian at Rome, Ga., or at this office at the discretion of the Supervising Architect.—James Knox Taylor, Supervising Architect. (1781-82)

Treasury Department, Office of the Supervising Architect, Washington, D. C., February 1, 1910.—Sealed proposals will be received at this office until 3 o'clock P.M. on the 22d day of March, 1910, and then opened, for the extension, remodeling, etc. (including plumbing, gas piping, heating apparatus, electric wiring and conduits), of the U. S. Post Office at Fremont, Neb., in accordance with drawings and specification, copies of which may be had from the Custodian at Fremont, Neb., or at this office, at the discretion of the Supervising Architect.—James Knox Taylor, Supervising Architect. (1781-82)

Treasury Department, Offices of the Supervising Architect, Washington, D. C., February 2, 1910.—Sealed proposals will be received at this office until 3 o'clock P.M. on the 17th day of March, 1910, and then opened, for the construction of the U. S. Post Office, Court House and Custom House at Richmond, Virginia, in accordance with the drawings and specification, copies of which may be obtained from the Custodian at Richmond, Va., or at this office, at the discretion of the Supervising Architect.—James Knox Taylor, Supervising Architect. (1781-82)

Treasury Department, Office of the Supervising Architect, Washington, D. C., February 2, 1910.—Sealed proposals will be received at this office until 3 o'clock P.M. on the 11th day of March, 1910, and then opened for the extension, remodeling, etc. (including plumbing, gas piping, heating apparatus, electric conduits and wiring, and standard clock system), of the U. S. Post Office and Court House at Jackson, Tenn., in accordance with the drawings and specification, copies of which may be had from the Custodian at Jackson, Tenn., or at this office at the discretion of the Supervising Architect.—James Knox Taylor, Supervising Architect. (1781-82)

Treasury Department, Office of the Supervising Architect, Washington, D. C., February 7, 1910.—Sealed proposals will be received at this office until 3 o'clock P.M. on the 23rd day of March, 1910, and then opened, for the construction (including plumbing, gas piping, heating apparatus, electric conduits and wiring) of the U. S. Post Office at Connersville, Ind., in accordance with drawings and specification, copies of which may be obtained from the Custodian at Connersville, Ind., or at this office at the discretion of the Supervising Architect.—James Knox Taylor, Supervising Architect. (1782-3)

Treasury Department, Office of the Supervising Architect, Washington, D. C., February 10, 1910.—Sealed proposals will be received at this office until 3 o'clock P.M. on the 25th day of March, 1910, and then opened for the extension, remodeling, etc. (including plumbing, gas piping, heating apparatus, electric conduits and wiring) of the United States Post Office at Lexington, Ky., in accordance with drawings and specifications, copies of which may be had from the Custodian at Lexington, Ky., or at this office at the discretion of the Supervising Architect.—James Knox Taylor, Supervising Architect. (1782-3)

Treasury Department, Office of the Supervising Architect, Washington, D. C., February 8, 1910.—Sealed proposals will be received at this office until 3 o'clock P.M. on the 21st day of March, 1910, and then opened, for the construction complete (including plumbing, gas piping, heating apparatus, electric conduits and wiring) of the U. S. Post Office at Lincoln, Illinois, in accordance with the drawings and specification, copies of which may be obtained from the Custodian of site at Lincoln, Ill., or at this office at the discretion of the Supervising Architect.—James Knox Taylor, Supervising Architect. (1782-3)

Treasury Department, Office of the Supervising Architect, Washington, D. C., February 11, 1910.—Sealed proposals will be received at this office until 3 o'clock P.M. on the 28th day of March, 1910, and then opened, for the construction (including plumbing, gas piping, heating apparatus, electric conduits and wiring and standard clock system) of an extension, remodeling, etc., to the U. S. Post Office at Quincy, Ill., in accordance with the drawings and specification, copies of which may be obtained from the Custodian at Quincy, Ill., or at this office at the discretion of the Supervising Architect.—James Knox Taylor, Supervising Architect.

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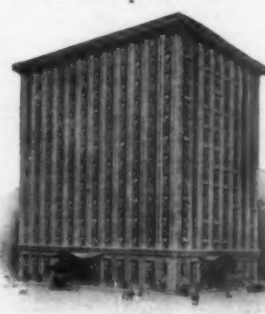
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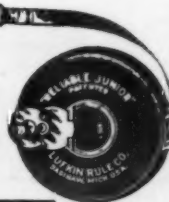
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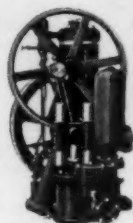
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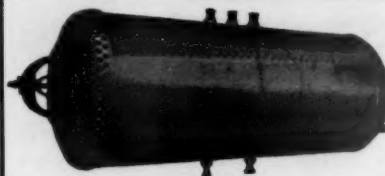


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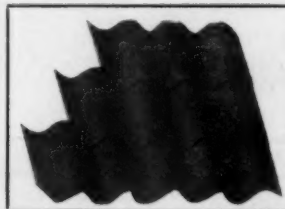
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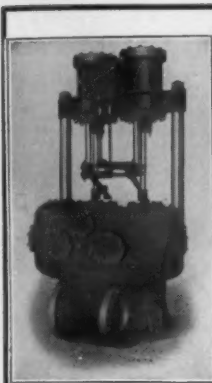
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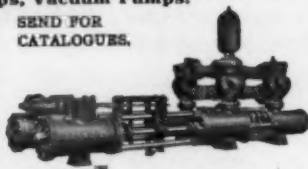
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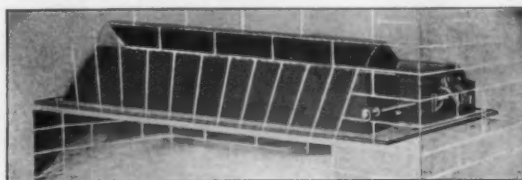
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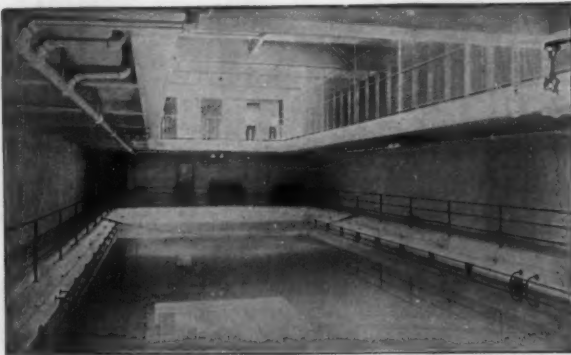
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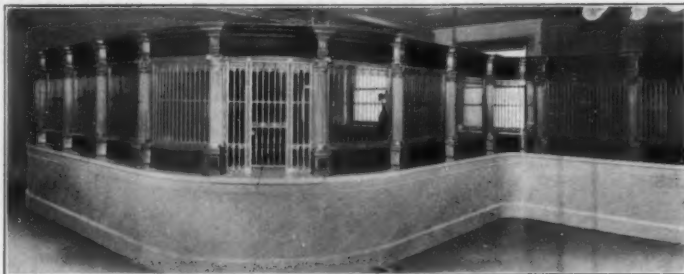
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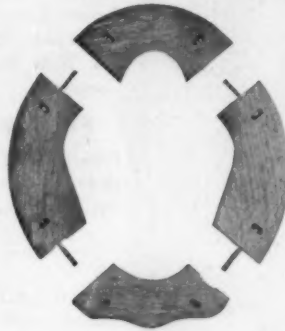
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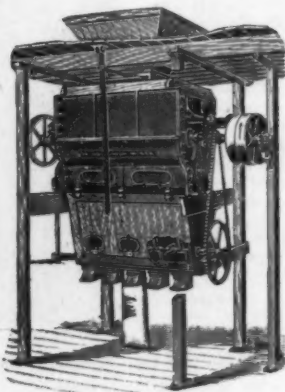
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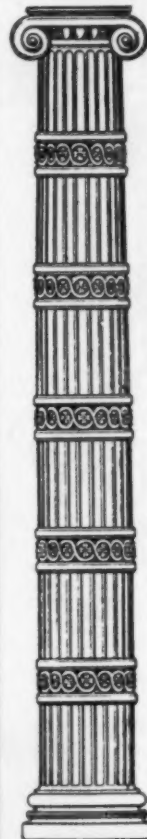
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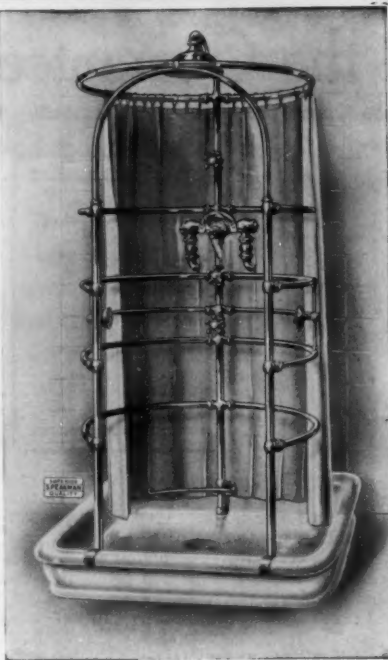


FIGURE 1020

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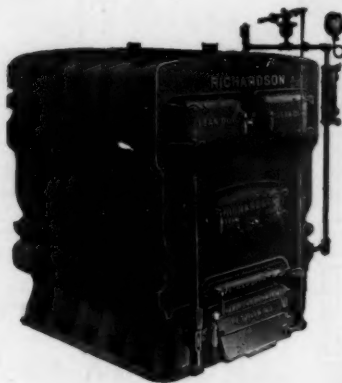
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of a Raymond pile, in place, ready for filling with concrete. Prior to filling it is subjected to a searching inspection as to the exact condition of its interior. Any fault developed during the placing of the shell can be corrected at this stage—before the pile is completed. The completed pile is a perfect, thoroughly-tested concrete pile—a pile that will permanently retain the exact length, diameter, and therefore bearing capacity called for by the specifications—a pile of absolute dependability, made and placed in the light of day.

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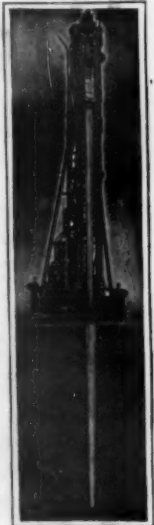
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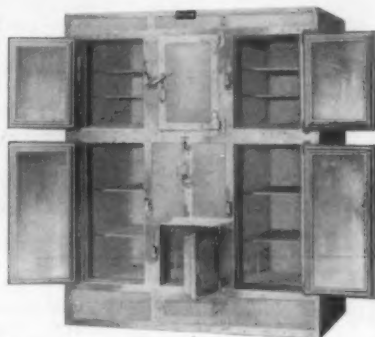
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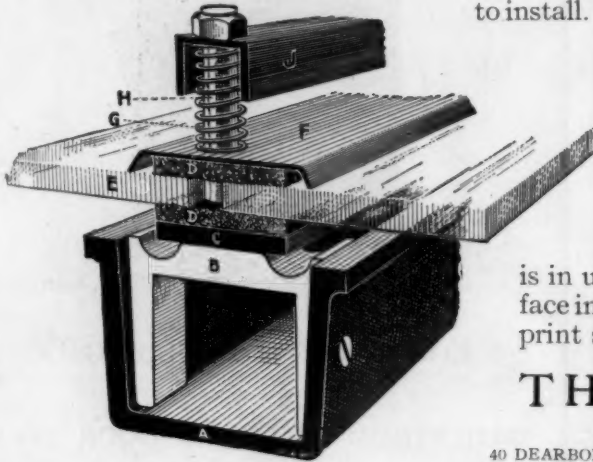
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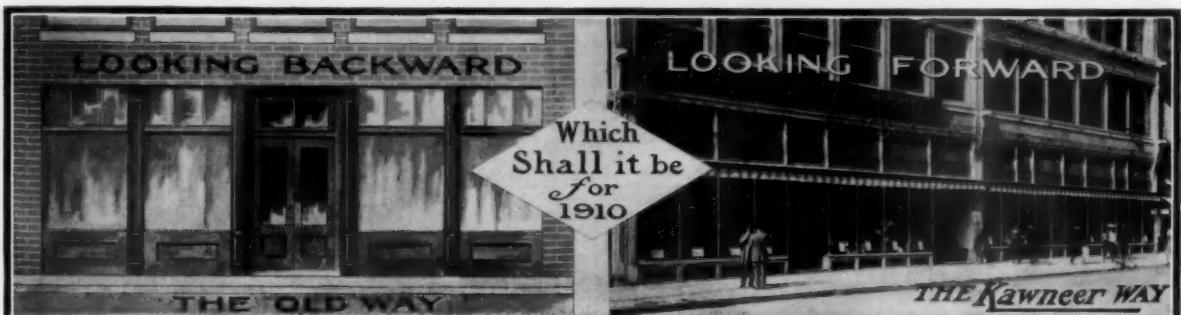
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a record which will attest the merits of Kawneer. If the Government did not protect the principles embodied in all Kawneer products manufacturers everywhere would put them into their materials.

Its distinction as the superior Store Front Construction—the system of quality and efficiency—is due entirely to the continuous Cushion Spring Grip, the Ventilation and Drainage device, the provisions for Expansion and Contraction of plate glass, the quality of materials and workmanship, and the high architectural standards attained in its development.

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Houston
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See Sweet's Index, Pages 650-651.

The conflagration of April 13, 1909, at Rochester, N. Y., spread via the roof line (for views of the ruins in different sections of the city, see pages 433 to 439). Fire-resistive roofs would have prevented this fire from getting a hold on buildings far from where the firemen were trying to extinguish the flames. A roof that will confine a fire to the building in which it starts will also keep out on "exposure" fire. The safety of cities from conflagrations involves the passing and enforcing of laws that prohibit wooden roofs.

Tells How to Prevent Conflagrations

Here is a clipping from Insurance Engineering confirming the opinion of other high authorities—that conflagrations can be prevented by roofing buildings with a fire-resisting roofing, so that incipient fires will not spread by flying embers landing on combustible roofs.

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cannot be set on fire by burning sparks, embers, etc., because it is made of *Asbestos*. It has even withstood the flames of a blow-torch for 50 minutes without being burned or injured. It is a *positive fire protection*.

J-M ASBESTOS ROOFING is also rot-proof, rust-proof, acid-proof, heat-proof and cold-proof. It never needs painting.

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1108

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And they are the ones who use it.

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to execute their designs for the elaborate ornamentation of the interior of the "Blackstone."

The Modelled Cast Plaster Ornaments

AS ALSO THE

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on all the woodwork were manufactured in their new plant at

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PLATE 1078-KH
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Outlet and Wall Flange

without this fixture. ¶ Germicides, disinfectants and deodorizers are unnecessary once the Raised Rear Vent Closet is installed.

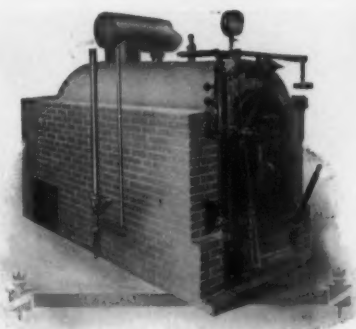
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PLATE 1095-KH
Vitreous China Plain Syphon Jet,
with Large Raised Rear Vent





Cold Weather Tells the Story

whether or not you have to replace the boiler. When you have the mild winters with a day or two where the mercury goes down toward the zero mark, your apparatus is fine, fine except of course those few days when you *couldn't* keep warm; but you are ready and willing to forget that, *if it doesn't keep it up too long*.

But when the thermometer registers down 6, 8, 10 or 16 below and **stays there** day after day and week after week and you can't keep the radiators warm, and it's a case of shovel or freeze (more often shovel and freeze) somebody commences to cuss a boiler in his basement. And it's worse still when the building happens to be a flat and filled with renters. Then somebody *is* in trouble, right up against it, hey? Isn't that pleasant to contemplate? Yet how many do you suppose were in just that fix this winter? Lots of 'em!

The Old Man Behind the Boiler has been listening for reports and the rumble of discontent on the part of the users of certain types of boilers is something fierce. You must have heard it. It's all around. But out of this uproar comes the **shout of joy from the man who has the Kewanee Fire-box boiler in his basement.**

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Ask the Old Man Behind the Boiler; he tells no lies and talks plain English. It's catalogue 54.

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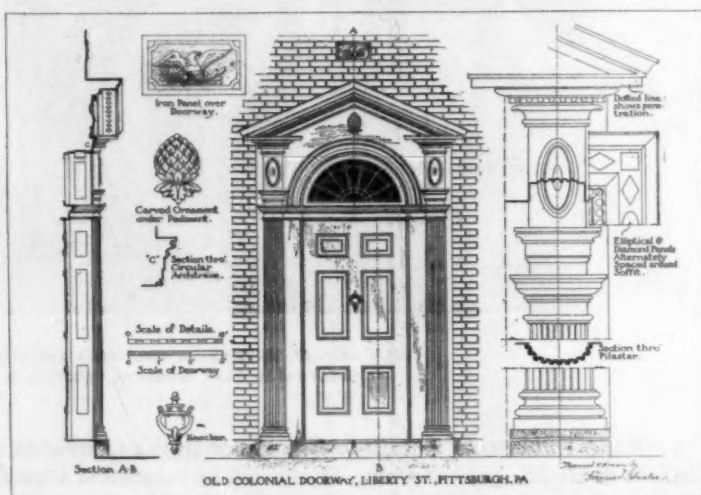
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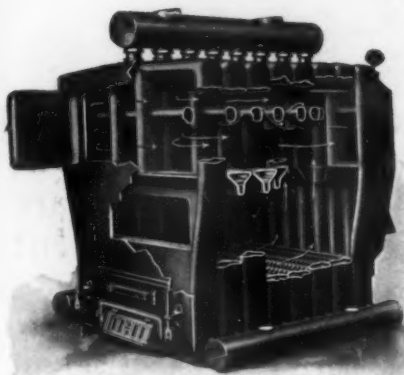


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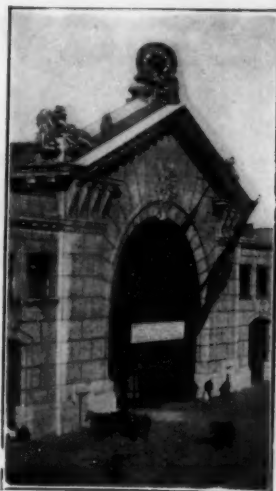
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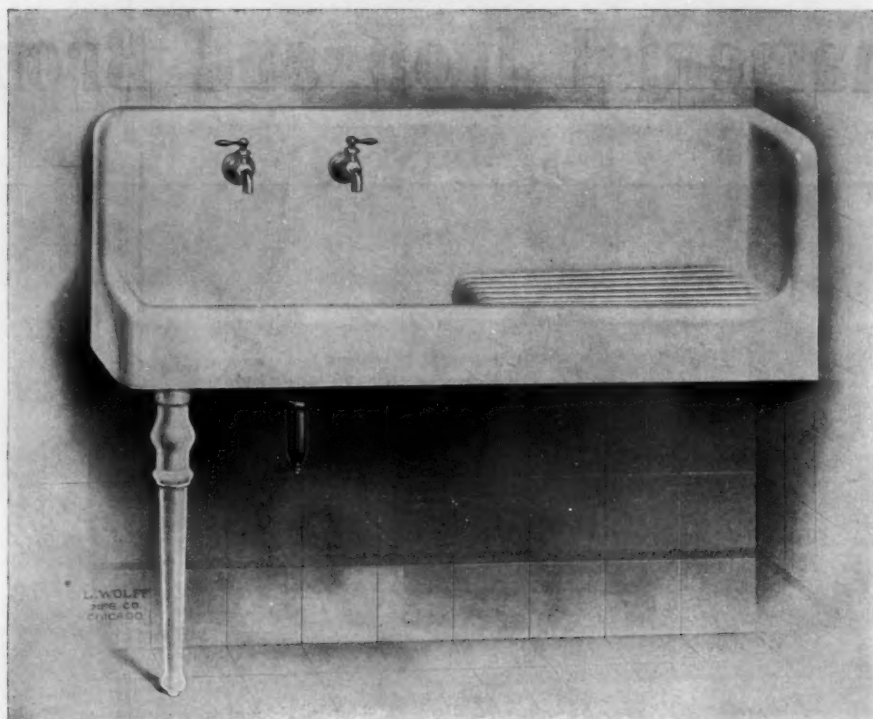
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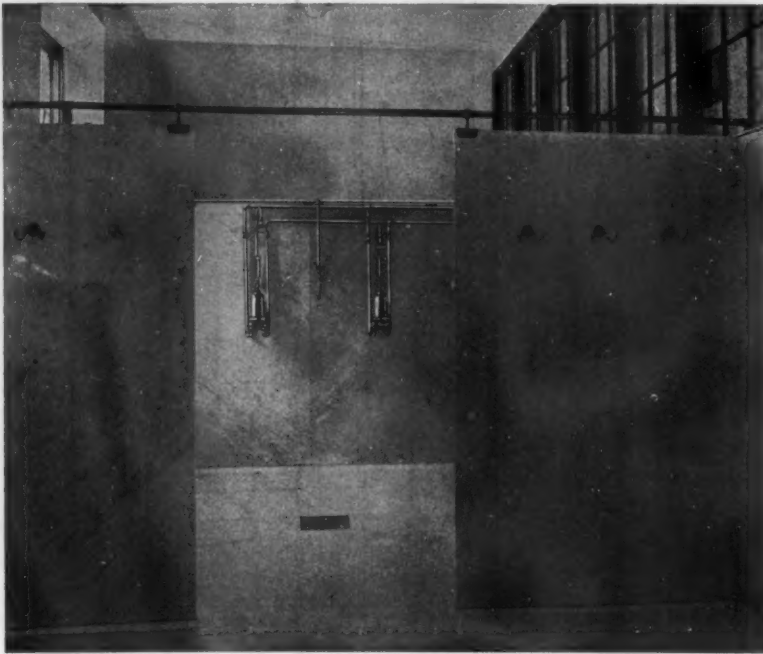
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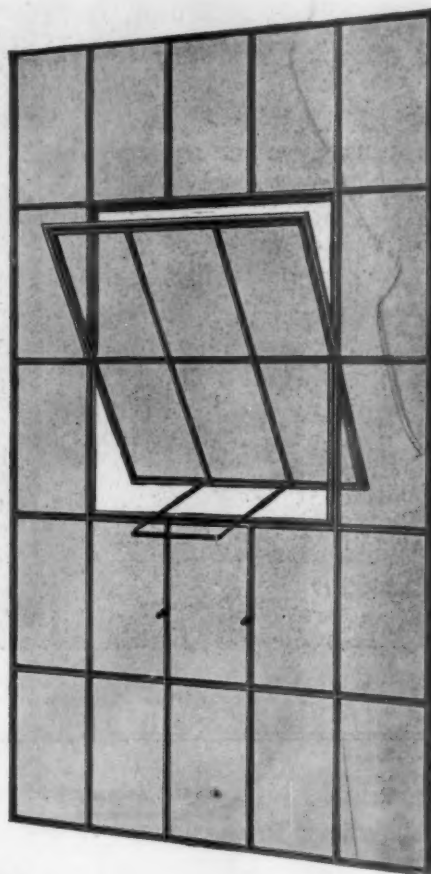
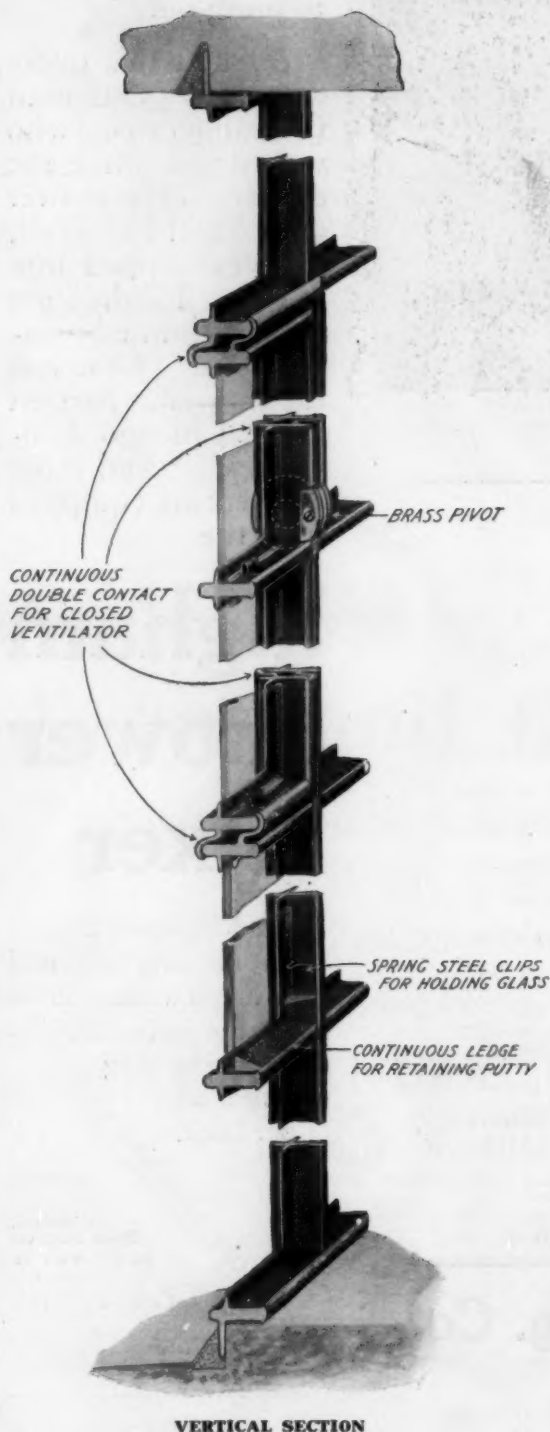
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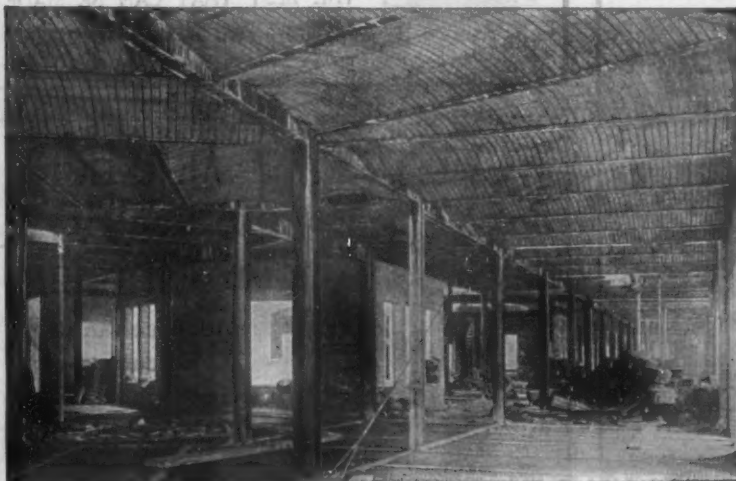
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CURRENT NEWS

THE LOS ANGELES ARCHITECTURAL CLUB

The Los Angeles Architectural Club has just closed a most successful exhibition of architectural work.

Judged by attendance, it may be stated that the laity on the coast have a great appreciation and interest in the work of the architect and what it means in the up-building of the country. We are advised that during the two weeks of this exhibition it was visited by 24,250 people, and that these figures are the result of an actual count and not estimated.

The closing of this successful showing of the architects' work was marked by a banquet which was largely attended. The occasion was marked by much good fellowship and unselfish appreciation of the great results that have been accomplished at Los Angeles, towards making this interesting city the architectural success it is.

A. F. Rosenheim, president of the local club and of the Architectural Club of the Pacific Coast, was toast-master. Before introducing other speakers, he talked enthusiastically of the benefits the exhibit had supplied to the city at large and to architects and draftsmen.

Visiting speakers included C. J. McDonald, of Kansas City; W. C. Kingston, of Portland; J. C. Allison, of Pittsburgh; Frank Baxter, of Detroit, and Douglas Perkins, of Cleveland, who all expressed their admiration for a city that found the creators of all her majestic buildings within her own limits. Local architects who spoke were Octavius Morgan, J. C. Austin, A. R. Kelly, Elmer Gray and A. R. Walker.

Entertainment was furnished by a male quartet and an orchestra.

At the close of the program, M. A. Vinson, manager of the exhibit, was presented with a silver set by the local architects.

RESTORATION EXTRAORDINARY

After seven years' work, the Campanile of St. Mark's, Venice, is now nearing completion, the shaft being finished, and the separate parts of the belfry being ready for placing in position. Excellent progress is also being made with the exceedingly delicate labor of reconstructing the Loggia di Sansovino. This, it will be remembered, was shattered to fragments. If such a thing had happened in this country, the debris would probably by this time have been used up as aggregate for concrete; but in matters of art, at all events, the Italians are a patient and a pious race. The "rubbish" was all carefully taken to the Doge's Palace, where the larger pieces were photographed with a view to reinstatement. The shattered statues by Sansovino—Minerva, Apollo, Mercury and Peace—the bronze gate by Antonio Gai, and Sansovino's gilded terra-cotta group of the Madonna and Child, and his statue of St. John, have been marvellously restored. The group was broken into 1,600 pieces, and these have been put together by Pietro Zei, of the Archæological Museum of

Florence, whose skill in piecing together had been already attested by his restoration of the famous Francoi vase. But, alas; even his sublime patience is unequal to the restoration of the head of St. John, which, with the shoulders, hips and part of one of the arms, had been reduced to absolute powder. Perhaps it is all well worth while; but we feel sure that in this country such a task would never have been undertaken. But then we have here no Sansovino and no Pietro Zei.—*Builders' Journal*.

BOOK NOTES

ARCHITECTURAL LEAGUE OF NEW YORK, YEAR BOOK AND CATALOGUE OF THE TWENTY-FIFTH ANNUAL EXHIBITION. Full cloth, 148 pp., size 8½ by 10¾ inches. Published by the Architectural League, 215 West Fifty-seventh Street, New York. Price, 75 cents.

As a record of architectural progress during the past year, we feel that the present volume does not perhaps meet requirements as fully as some previous issues. Its pages this year are allotted largely to the work of the arts allied to architecture, a fact probably accounted for by the special character of the exhibition it is designed to illustrate.

Its illustrations and technical excellence are, however, fully up to previous issues, and it will be desirable for architects to include it in their season's purchase of books.

THE NATIONAL GALLERY OF ART—Bulletin 70, Smithsonian Institution, Washington.

It is a curious phase of the art history of America that for a period of more than half a century—to be exact, sixty-three years—the fact that a National Gallery of Art had been formally established by act of Congress, should have been ignored and no steps taken to add to it or suitably house the collection already formed.

In an obscure part of the Smithsonian Institution, whatever of an art collection might be worthy of the name, had for all the years lain unnoticed and neglected. It was not until public-spirited men like Charles L. Freer, of Detroit, and William T. Evans, of New York, aroused enthusiasm and drew attention by gifts to the Government of entire collections of pictures, to the existence of this national gallery of art. It is to be hoped that Congress will soon appropriate the necessary funds for a building to house these important pictures and sculptures and that we may soon have a collection that Americans can refer to without apologies for our artistic shortcomings.

To show how dignified in character and how truly representative is the present collection, the Smithsonian Institution has issued Bulletin 70, entitled, The National Gallery of Art, Museum of Fine Arts. This work has been prepared by Mr. Richard Rathbun, who

is assistant secretary of the institute and in charge of the United States National Museum.

The book is a cloth-bound volume of 140 pages, 6 by 9 inches, and is printed on deckle-edge paper. It is profusely illustrated with reproductions of the new and more important canvasses already acquired, and will be found an interesting and instructive volume.

We assume it may be had by application to the Smithsonian Institution.

HISTORY OF SANITATION. By J. J. Cosgrove. Full cloth; illustrated; size $5\frac{1}{4} \times 8\frac{1}{4}$ inches; 124 pp.; price \$3.00. Published by the Standard Sanitary Mfg. Co., Pittsburg, Pa.

Mr. Cosgrove needs no introduction to readers familiar with the subject of sanitation. His many works on this subject have made him known as an authority.

His present volume treats of sanitation from the earliest days to the present time. This subject, usually an ultra technical one, is robbed of its uninteresting character by reason of the practical and thorough way in which it is discussed, and might readily find a place not only in the architect's library, but on his study table at home.

However careful the sanitary engineer may be to surround us with the most approved conditions, they may be very often negated by ignorance of even the simplest principles that control the general health.

We regard the publication of a work of this character as along the lines of public benefactions. Both Mr. Cosgrove and the Standard Sanitary Mfg. Co. are to be commended for inaugurating a campaign of education through the publication of this and similar books.

STANDARD STEEL SASH

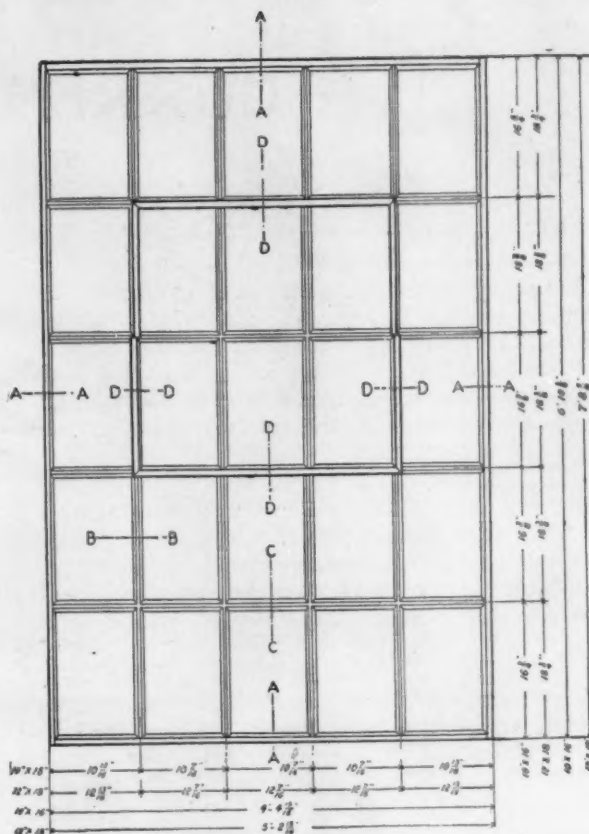
Manufacturers who have realized the necessity of standardizing as far as possible the articles of their manufacture, have relieved the architect to a considerable degree of many of the burdens that beset planning and specifications. Particularly is this true in the designing of commercial structures. In these the requirements of light and ventilation, which are perhaps more insistent than any others, necessitate the largest possible window openings consistent with strength of sash and its manipulation.

In the earlier forms of the wooden sash, the muntins necessary to impart the required structural strength obstructed a large proportion of light, and in a measure defeated the purpose they were intended to serve.

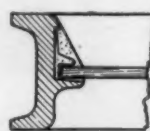
The advent of the steel sash, with its narrow muntins, overcame this, but it is only of recent years that by reason of the inventive skill of manufacturers these steel sash could be procured of the necessary strength and size to make them available in large buildings.

The Trussed Concrete Steel Co., of Detroit, Mich., some time since set themselves the task of solving these important constructive features, and it would seem that with a list of standard sizes, warranted to stand every test of actual use, they have been successful in their efforts.

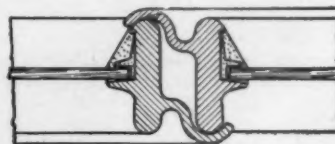
As the features which mark these steel sash and the construction of the various members are difficult to describe in words, we illustrate herewith the different



sections, the location of which can be learned from the larger cut of a standard sash. As will be noted, the angles of these sections facilitate the passage of light



Section AA
($\frac{1}{2}$ size)
Channel frame around outside.



Section DD. ($\frac{1}{2}$ size)
Around ventilator frame. Note double contact for keeping out draft and rain.



Section BB
($\frac{1}{2}$ size)
Vertical ribs of sash



Section CC
($\frac{1}{2}$ size)
Cross ribs

and present a minimum surface consistent with strength and safety. The sections are of steel, as is also the framing, and the Trussed Concrete Steel Co., in an

illustrated pamphlet that may be had on request to Room 718, Trussed Concrete Building, Detroit, claim that these sash are rigid, fireproof, weatherproof, economical and permanent.



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BUILDING NEWS

To be of value this matter must be printed in the number immediately following its receipt, which makes it impossible for us to verify it all. Our sources of information are believed to be reliable, but we cannot guarantee the correctness of all items. Parties in charge of proposed work are requested to send us information concerning it as early as possible; also corrections of any errors discovered.

ALABAMA

BESSEMER.—Bessemer Soil Pipe Co. will erect \$15,000 addition to plant.

BIRMINGHAM.—Board of Education has adopted plans by Architect Helmich for addition to Barker School, corner of Twenty-third street and Thirteenth street, north. Bids will be advertised at once.

BIRMINGHAM.—Board of Education will at once ask bids for erection of proposed East End colored school at corner of Second Ave. and Thirty-fourth St. H. B. Wheelock, Steiner Bldg., Architect.

MONTGOMERY.—Bids will be received until noon, March 21, by the Governor of Alabama for erection of brick building for Alabama Polytechnic Institute, Auburn. N. C. Curtis, Auburn, architect.

MONTGOMERY.—South Perry St. Methodist Church will erect edifice. Rev. W. M. Curtis, pastor. A. G. Davis, chairman Building Committee.

MONTGOMERY.—Farmers Cotton Oil Co. will erect plant in this city. G. N. Hinson, Chattanooga, president.

Methodists' Women's College has decided to erect \$60,000 dormitory. Plans by architects F. Patterson Smith, Boston, and B. B. Smith, city.

UNIVERSITY.—Architect Frank Lockwood, 121 Adams St., Montgomery, will prepare plans for projected improvements to Clark, Manly and Garland halls.

ARKANSAS

ARKANSAS CITY.—Bids will be received until March 1 for erection of two-story school. R. W. Smith, President School Board.

CALIFORNIA

ALAMEDA.—Company G of Alameda National Guard is planning to erect armory on Park St.

AUBURN.—Work will begin in spring on erection of \$30,000 edifice for St. Teresa's Catholic Church. Rev. Richard Vereker, pastor.

LOS ANGELES.—John C. Smith, H. W. Hellman Building, has been commissioned to prepare plans for a \$30,000 two-story school building to be erected for Belvedere School District.

Plans are being prepared by Albert R. Walker, Wright & Callender Bldg., for erection of residence at Harvard and Wilshire Boulevards for Jas. Shultz.

MARTINEZ.—Contra Costa County will erect large hospital. Bids have been called. W. H. Weeks, Cockrane Building, San Francisco, architect.

PALO ALTO.—Peninsula Club is considering plans for erection of club house. Cost, \$6,000. W. S. Pemberton is interested.

SACRAMENTO.—Consumers' Ice & Cold Storage Co. will erect \$40,000 cold storage plant.

SAN FRANCISCO.—J. Gibbs will erect \$22,500 apartment house on Jackson St. W. G. Hind, Humboldt Bank Bldg., architect.

McDougall Bros., architects, Russ Bldg., have completed preliminary plans for erection of apartment house on Sutter St.

Rapp & Sons have had plans prepared for erection of large building at foot of Eleventh St.

SAN FRANCISCO.—Wigwam Theater will erect \$100,000 theater on Mission St., near Twenty-second.

VALLEJO.—Citizens will select site March 8 for proposed branch county jail.

WILLOWS.—Glenn County will vote on \$40,000 bonds for erection of high school.

COLORADO

TRINIDAD.—Hudson Motor Car Co. will erect \$400,000 factory in Fairview. Roy D. Chapin, president.

CONNECTICUT

HARTFORD.—Technical High School Commission will ask Court of Common Council to instruct the Mayor to include in his call for city meeting in April a proposal that city appropriate \$200,000 to acquire land in Broad St. for technical high school.

NEW BRITAIN.—Plans by Architect W. H. Cadwell have been accepted by Building Committee of New Britain Hospital for erection of addition.

NEW HAVEN.—Architect C. E. Joy, 902 Chapel St., is preparing plans for erection of brick block on corner of Chapel and James Sts.

SHARON.—Hospital, costing 25,000, will be erected in this city this summer. R. R. Colgate and T. B. Hidden are interested. Site purchased.

DISTRICT OF COLUMBIA

WASHINGTON.—Chevy Chase Club will spend \$100,000 for erection of new clubhouse or for improvement and enlargement of its present quarters. J. J. Hemphill, President.

Architect Louis Stevens, 238 Fourth Ave., Pittsburg, will receive bids about Apr. 1 for erection of \$200,000 residence at S St. and Phelps Pl. for former Congressman J. S. Sibley.

WASHINGTON.—Gallaudet College will rebuild building destroyed by fire. Edw. Gallaudet, President.

FLORIDA

ST. CLOUD.—Methodist Episcopal Society will erect \$8,000 church.

TAMPA.—G. A. Petteway is considering erection of ten-story brick building on corner of Florida Ave. and Twigg St. Plans being prepared.

GEORGIA

ATLANTA.—Citizens have voted \$600,000 bonds for schools and \$100,000 for hospital.

BRUNSWICK.—West Point Institute, St. Simons, will erect \$50,000 building. Plans prepared. F. D. Aiken, President.

ILLINOIS

CHICAGO.—Chas. M. Hewitt, Hewitt Manufacturing Co., will erect \$100,000 residence in spring at corner of N. State St. and Burton Place.

CHICAGO.—Thos. Collins, 138 Washington St., is planning to erect store and office building at corner of Sixty-third St. and Langley Ave.

Illinois Training School for Nurses is considering erection of building on Honore St.

Architect Alfred S. Alschuler, Fort Dearborn Bldg., has prepared plans for permanent \$2,000,000 exposition building.

DECATUR.—B. N. Moss, secretary Des Moines Bridge & Iron Works, is considering erection of building at corner of Second and Locust Sts.

ELGIN.—Borden's Condensed Milk Co. is considering erection of factory at Mt. Morris.

FREEPORT.—Winneshiek, Freeport and Stephenson Lodges of Oddfellows are considering erection of \$25,000 home.

Second Presbyterian Church has adopted plans for erection of edifice. R. D. Dirksen, Architect.

MOLINE.—East Moline Pressed Steel Co. will erect plant in East Moline. Plans prepared by W. W. Whitsit.

MOLINE.—Swedish Methodist Trustees have purchased site at corner of Twelfth Ave. and Thirteenth St. Edifice will be erected in near future.

Rock Island Plow Co. is considering expending several hundred thousand dollars in improvements.

PEORIA.—National Hotel Co. will spend \$200,000 in improvements. Plans by Architect Frederick J. Klein, Arcade Bldg.



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INDIANA

CONNERSVILLE.—Plans have been prepared by Supervising Architect J. K. Taylor, Washington, D. C., for erection of post office.

EVANSVILLE.—Pullman Auto Co. is considering erection of factory. William O'Connor, York, Pa., is interested.

INDIANAPOLIS.—Indianapolis Union Railway Co. will expend \$75,000 in improvements to Union Station.

MARION.—Local Masons are considering erection of temple at Fifth and Boots St. J. L. McCulloch is interested.

RICHMOND.—Thomas Taggart and Crawford Fairbanks are planning erection of a fourteen-story hotel. Cost, \$1,000,000.

IOWA

CEDAR RAPIDS.—Chicago, Milwaukee & St. Paul Railroad will erect yard office and roundhouse; \$50,000 will be expended.

CEDAR RAPIDS.—Cedar Rapids Lodge No. 141, I. O. O. F., will erect building in this city. Plans prepared.

DAVENPORT.—Plans and specifications have been completed by Architect E. G. Holbrook, suite 51, Whitaker bldg., for erection of residence for G. Decker French at corner of Eleventh and Rock Island Sts.

DAVENPORT.—Dr. B. J. Palmer, 828 Brady St., is considering erection of eight-story \$300,000 building on Brady St.

LYONS.—New Era Camp, No. 3, Woodmen of the World, is considering erection of memorial building. W. B. Farver, Chairman, Special Committee.

SIOUX CITY.—Ben Davidson will erect modern five-story building at corner of Sixth and Pierce Sts.

KANSAS

HERINGTON.—Plans are being prepared for erection of \$15,000 home for local Eagles.

HUTCHINSON.—Nazarene Church will establish State college in this city. \$150,000 building will be erected. C. B. Jernigan, Oklahoma City, District Superintendent.

INDEPENDENCE.—J. L. Jakowsky will erect three-story brick building at corner of Pennsylvania Ave. and Laurel St.

LEAVENWORTH.—Soldiers' Home will erect lodge building and make other improvements.

ROCKDALE.—Citizens will vote Apr. 5 on \$25,000 bonds for erection of two ward schools.

TOPEKA.—State will spend more than \$500,000 in new buildings this year. Plans by State Architect Chandler.

KENTUCKY

CARLISLE.—Nicholas County Board of Control is making plans for building and equipping large tobacco handling plant.

LOUISIANA

LAKE CHARLES.—J. L. White will erect \$30,000 playhouse on Ryan St.

MARYLAND

BALTIMORE.—Building Committee of St. Mary's Industrial School, Bishop O. B. Corrigan, Chairman, has designated Robert C. Ullrich, architect, to draw up plans for \$100,000 building to be erected for the institution.

Architect H. C. Aiken, 213 North Calvert St., is preparing plans for erection of five cottages, cost, \$25,000, on Carlisle Ave. and Vickers Road, Mount Alto.

BALTIMORE.—Architect C. M. Frey has completed plans for erection of two two-story dwellings at corner of Chestnut Ave. and Twelfth St. Cost, \$18,000.

BALTIMORE.—Tyler Bros. will erect brick warehouse at 412 W. German St. P. B. Tuzo, 11 Pleasant St., Architect.

CRISTFIELD.—Pennsylvania Railroad will erect freight station.

FREDERICK.—Erection of school building is being urged; legislative action to enable bond issue will soon be effected.

HYATTSVILLE.—Hyattsville Presbyterian Church has decided to erect \$15,000 edifice at Wine and Johnson Aves. Rev. Jas. K. Argo, pastor.

MASSACHUSETTS

LAWRENCE.—Superintendent Hennessey, of Public Property Committee, has estimated cost of proposed addition to Bruce School at \$12,000.

NEW BEDFORD.—Young Men's Catholic T. A. Society will erect building on South Second St. in spring.

SALEM.—Jos. Julien, 19 Laurel St., is considering erection of \$5,500 apartment building.

MICHIGAN

LANSING.—Architects White & Butterworth, Hollister Building, are preparing plans for \$100,000 hospital building and nurses' home for Lansing Hospital Association. Dr. Towles, president.

MINNESOTA

CROOKSTON.—Committee, J. W. Wheeler, Chairman, has been appointed to take up matter of erecting \$35,000 opera house.

DULUTH.—St. Paul's Episcopal Church is considering erection of edifice at corner of Seventeenth Ave. East and Superior St.

HILL CITY.—Armour & Co., Chicago, will establish large plant in this town.

FARIBAULT.—Bids will be opened Mar. 15 for erection of county jail. Albert Schippel, Mankato, architect.

ST. PAUL.—Plans have been drawn by Architect P. J. Linhoff, National G. A. Bank Bldg., for \$7,000 residence to be erected for L. Pavelick, at Lincoln and Grand Aves.

H. L. Collins Co. will erect \$20,000 warehouse at Wabash Ave. and Myrtle St.

WINONA.—Local Elks have decided to erect \$15,000 home.

MISSISSIPPI

COLUMBUS.—Y. M. C. A. will secure funds for erection of \$50,000 building.

HATTIESBURG.—Citizens will vote in March on \$75,000 bonds for schools.

NEW JERSEY

ATLANTIC CITY.—Richard Bew is having plans drawn for erection of three-story apartment house at corner of Pacific and S. Carolina Aves.

EAST NEWARK.—Architects J. H. & W. C. Ely, 800 Broad St., Newark, have completed plans for building to be erected on Fourth St. for First National Bank.

ELIZABETH.—Board of Education is considering erection of high school.

ELIZABETH.—Architect J. L. Burley, 29 Broadway, New York, has prepared plans for erection of stores and flats on Morris Ave. for Mackey Bros.

JERSEY CITY.—H. I. Darling Improvement Co., Jersey City Trust Co.'s building, will erect two store buildings on Central Ave.

JERSEY CITY.—Plans have been completed by Architect Hyman Rosensohn, 747 Broad St., Newark, for \$40,000 apartment building to be built on Henderson St. for Mrs. Bessie Blumstein, Bayonne.

LINDEN.—Louis Quien, Jr., 251 Elizabeth Ave., Elizabeth, will prepare plans for proposed school.

NEWARK.—H. P. Cook will erect four-story, \$45,000 apartment house on Broad St. Wm. Lehman, architect.

NEWARK.—Newark Purse Frame Manufacturing Co. will erect \$20,000 factory at 548 S. Eleventh St.

Public Service Corporation will erect \$150,000 structure at S. Orange Ave. and Nineteenth St.

PERTH AMBOY.—Architect J. K. Jensen is preparing plans for \$50,000 worth of buildings.

ROCKAWAY.—Borough has purchased site at Main and New Sts. for erection of municipal building.

ROSELLE.—Clio Club will erect home corner of Second Ave. and Walnut St.

TRENTON.—New Jersey Knights of Pythias are considering erection of home for aged Pythians. A. Lewis Drucker, Elizabeth, Grand Chancellor.

TRENTON.—Architect W. A. Poland has prepared plans for proposed home to be erected on North Warren St. for local Elks.

TRENTON.—John G. Brown, Philadelphia, is preparing plans for a four-story concrete addition to plant of Ingersoll Watch Company.

NEW YORK

ALBANY.—Council has passed ordinance for issuance of \$25,000 bonds for purchase of site and erection of proposed Third Precinct police station.

ALBANY.—Cameron & Hawn will erect two three-story residences on Madison Ave. Cost, \$12,000 each.

L. D. Field has had plans prepared for erection of two-story building at 272 Horton Ave.

ALBANY.—Plans are being prepared for erection of \$50,000 building at Central Ave. and Manning Boulevard for House of Good Shepherd.

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THIS PLANT, WHICH IS EXCLUSIVELY USED FOR THE MANUFACTURE OF CUTLER MAIL CHUTES AND MAIL BOXES, is equipped with all necessary machinery, some of it built specially, and all appliances for doing the highest grade of the work required. We carry a large stock of the material used, our organization is complete and is maintained, at large expense, to secure not only the best manufacturing result, but in order that we may meet every reasonable requirement of those with whom we co-operate in all parts of the country in the equipment of the great commercial structures, apartments and hotels.



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AMSTERDAM.—J. K. Stewart & Sons, Market St., are considering erection of warehouse.

BROOKLYN.—Doubleday, Page & Co. will erect large plant at Garden City. Kirkby & Petit, Manhattan, architects.

J. F. Reed, East St. Louis, Ill., has purchased factory site at 89 Bridge St. Leonard Moody Real Estate Co., 187 Montague St., made sale.

CORTLAND.—Site has been purchased at Main St. and Clayton Ave. for erection of post office. \$80,000 has been asked by Congressman J. W. Dwight for building.

JOHNSTOWN.—Board of Education has decided to erect \$15,000 school on Perry St. Architect not yet selected.

MIDDLETOWN.—Council has authorized erection of \$80,000 city hall.

NEW YORK.—Architect Henry I. Cobb, 42 Broadway, will prepare plans for \$8,000,000 hotel to be erected on Broadway for Robt. P. Murphy, Albany Hotel, Forty-first St. and Broadway.

L. & R. Realty Co., 165 Broadway, will erect \$300,000, twelve-story loft building at 225 West Thirty-ninth St. Mulliken & Moeller, 103 Park Ave., architects.

Chas. Brendon & Co., 500 Fifth Ave., will erect five-story, \$40,000 dwelling on Fifty-second St. Plans prepared.

L. Holstein, 33 Bleecker St., will erect two twelve-story loft buildings on Twenty-fifth St. Total cost, \$430,000. W. H. Birkmire, 396 Broadway, architect.

Heywood & Wakefield Building Co., 129 Charlton St., will erect twelve-story, \$500,000 warehouse at 514 West Thirty-fourth St. Lee & Hewitt, 1123 Broadway, architects.

Central Building Improvement & Investment Co., 149 Church St., will erect \$350,000 twelve-story lofts on Hudson St. Rouse & Goldstone, 12 W. Thirty-second St., Architects.

F. A. Elliott, 243 President St., will erect \$30,000 seven-story store and dwelling on Seventy-second St. C. E. Birge, 29 W. Thirty-fourth St., Architect.

NEW YORK.—Rockton Construction Co., St. Nicholas Ave. and 163d St., will erect twelve-story brick lofts and store on Twenty-seventh St. Cost, \$300,000. Steinie & Haskell, Thirty-fourth St. and Broadway, architects.

Mehan, Ehrich & Simon, 815 Hunt's Point Ave., will erect \$100,000 theater on Prospect Ave. E. C. Herne, 1440 Broadway, architect.

NEW YORK.—Brevoort Construction Co., 6 W. Eighteenth St., will erect sixteen-story brick office, store and loft on Forty-fifth St. Cost, \$625,000. Schwartz & Gross, 347 Fifth Ave., architects.

NEW YORK.—Anton Heiss and Elizabeth Gans will erect \$6,800 brick factory on Southern Boulevard. Geo. Hoffman, 236th St. and Barnes Ave., Architect.

Waunecan Realty Co., 35 Nassau St., will erect six-story \$225,000 flat on Ft. Washington Ave. Schwartz & Gross, 347 Fifth Ave., Architects.

Heights Town Construction Co. will erect six-story \$200,000 flat in Audubon Ave. L. F. J. Weiher, 271 W. 125th St., Architect.

UTICA.—Wm. M. Martin, Hotel Martin, is considering erection of \$100,000 addition; architect not yet selected.

SYRACUSE.—Attorney James Bondy will erect residence at 1909 E. Genesee St. A. R. McKim, New York, architect.

SYRACUSE.—Merriam Mfg. Co., Water and Almond Sts., is considering erection of three-story warehouse. Plans not yet adopted.

YONKERS.—Commissioner of Public Safety Fleming has asked for erection of fire house in Glover Ave. district.

NORTH CAROLINA

RALEIGH.—Agricultural and Mechanical College has selected plans by Frank Simpson, city, for erection of \$50,000 engineering and electrical instruction building.

ROCKINGHAM.—Richmond County will secure plans for erection of court house and jail.

NORTH DAKOTA

DEVIL'S LAKE.—Plans for \$75,000 hotel building to be built by North Dakota Improvement Company have been practically completed by Haxby & Gillespie, Fargo, Architects.

OHIO

CINCINNATI.—Kennedy & Atkins, architects, Second National Bank Bldg., will be selected by Council to prepare plans for construction of Second District Police Station at Arch and Broadway.

CLEVELAND.—I. O. O. F. temple, cost about \$20,000, is to be erected on E. 105th St. from plans prepared by Architect E. J. Dethloff.

COLUMBUS.—Architect H. Charles Jones, Desher Block, is preparing plans for erecting double brick residence on Gilbert St. for John Heiser.

Architects Stribbling & Lum, 85 N. High St., are preparing plans for erection of residence on Central Ave. for Dr. Nessley.

Architect W. T. Mills, McCune Building, has been commissioned to draw plans for church building to be erected at Main St. and Fairwood Ave. Rev. R. D. Morgan, pastor.

COLUMBUS.—Builders' & Traders' Exchange is considering proposition for erection of home. J. M. Marriott, Hyden-Clinton Bank Bldg., is interested.

Board of Education has purchased site at West Ninety-third St. and Willard Ave. for erection of West Side Technical High School.

HAMILTON.—Plans have been prepared for erection of proposed Masonic Temple on South Third St.

LIMA.—Gramm-Logan Motor Car Co. will erect \$500,000 plant in this city. A. L. White, city, President.

OTTAWA.—Bids will be received Mar. 1, noon, for issue of \$180,000 court house bonds. B. A. Ruhe, chairman, Putnam County Commissioners.

WOOSTER.—Wooster University is considering erection of gymnasium and dormitory. Dr. L. H. Seeverance, Cleveland, chairman, Special Committee.

OKLAHOMA

OKLAHOMA CITY.—Britton and Rural Telephone Co., of Britton, will erect building on Britton Ave. Dr. B. F. Stewart, President.

SHAWNEE.—Proposed Baptist University will be erected in this city. G. E. McKinnis, Chairman, Locating Committee.

WEATHERFORD.—Council has voted \$10,000 for a city hall.

OREGON

PORTLAND.—Della Hoffman, 129 Macadam St., will erect \$10,000 frame hotel in block 4, Southport.

PORTLAND.—East Side Auto Co. is planning to erect \$20,000 garage at Knott and Rodney Sts.

J. M. Lacey, 559 Gantenbein St., is considering erection of brick store and apartment building at corner of Williams Ave. and McMillan St.

THE DALLAS.—Local Elks will erect three-story \$40,000 temple. E. M. Wingate, Chairman Building Committee.

PENNSYLVANIA

ALTOONA.—I. C. Mishler, Mishler Theater, is considering erection of vaudeville theater this summer.

BEAVER FALLS.—Pennsylvania lines will erect large freight depot in this city. L. G. Townsend, local freight agent.

CHESTER.—St. Luke's U. A. M. E. Church is considering erection of edifice at Eighth St. and Central Av.

HARRISBURG.—President of Common Council Edw. Dickerson is interested in large building operation to be started in First Ward in spring.

McKEESPORT.—Board of Health has asked Council to build municipal hospital.

PHILADELPHIA.—Architects Ballinger & Perrot, 1211 Arch St., have completed plans for a four-story concrete stable for Acme Tea Co. on Bodine St.

Plans have been completed for a \$50,000 two-story ferry house, which will replace the present building of the Gloucester Ferry Co. at the foot of South St.

Henry E. Baton, 1221 Arch St., and F. B. Davis have plans for a church at Westview and Green st., Germantown, for Summit Presbyterian Church.

PHILADELPHIA.—Watson & Huckel, architects, 1211 Walnut St., have prepared plans for erection of garage at corner of Broad and Spring Garden Sts.

Prof. Thomas H. Montgomery, of the University of Pennsylvania's department of zoology, has plans and scope of \$250,000 biological building soon to be erected on campus.

Plans have been prepared for group of church buildings to be erected on site of Episcopal Church of the Holy Comforter, Forty-eighth St. and Haverford Ave. Cost, \$60,000. Work will begin in spring.

Architects McIlvain & Roberts, Land Title Building, are designing \$30,000 residence at St. David's for George L. Justice, and one to cost \$20,000, at Ardmore, for R. E. Morton.

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PHILADELPHIA.—C. E. Schermerhorn and Watson K. Phillips, architects, 430 Walnut St., are preparing plans for rebuilding of Upper Dublin Township School at Oreland.

Architect George T. Pearson, 427 Walnut St., is planning Casino on the grounds of Philadelphia Cricket Club, at Chestnut Hill.

PHILADELPHIA.—Architect R. W. Boyle, 1626 Chestnut St., has about completed plans for erection of \$20,000 parochial school for St. Charles Boeromeo's Church, Burmont.

Erection of high school in Germantown is being urged. G. P. Darrow is chairman of Special Committee.

University of Pennsylvania has plans for erection of \$250,000 architectural school. Dr. Paul Philippe Cret, Professor of Design.

PHILADELPHIA.—Architects Heins & La Farge, 30 E. Twenty-first St., New York, have been commissioned to prepare plans for \$250,000 edifice to replace present St. Patrick's Catholic Church, at corner of Twentieth and Locust Sts.

Architect J. F. Bradley has completed plans for 116 two-story dwellings, cost \$250,000, which David Cram will erect at Fifty-sixth and Pine Sts.

PITTSBURG.—Y. M. C. A. will at once erect four branch buildings. \$300,000 available. R. W. Harbison, President.

READING.—St. Peter's Lutheran congregation has decided to erect church at Twelfth and Windsor Sts.

SCRANTON.—Scranton Lithograph Co., will erect modern plant on Monsey Ave., Geo. Becker, General Manager.

SHAMOKIN.—St. Stephen's Polish congregation will erect edifice on Oak St.

YORK.—Architect Jas. H. McClymont will prepare plans for cigar factory to be erected at George St. and Boundary Ave.

RHODE ISLAND

WOONSOCKET.—Nyawza Mills have been incorporated, and will erect plant in rear of Cold Spring Park. J. W. Farwell, Cohasset, President; E. V. Dunn, city, is interested. for Otto Eisenlohr & Bros.

SOUTH DAKOTA

GREENVILLE.—Y. M. C. A. has secured \$50,000 for erection of home.

TENNESSEE

CLEVELAND.—Methodist Episcopal congregation has decided to erect \$20,000 church. W. L. Humphrey, chairman Building Committee.

JOHNSON CITY.—State Board of Education has decided to erect proposed normal school in Carter addition to this city.

KNOXVILLE.—Plans are being prepared for erection of garage on State St. for Knoxville Auto and Garage Co. H. H. Thrasher is interested.

NASHVILLE.—Plans and specifications for three normal schools will be received by Board of Education up to March 18. Supt. Jones will furnish to all architects who desire to compete all data necessary to preparation of plans. Buildings will cost a total of \$690,000.

OBION.—Citizens will vote in March on \$10,400 school bonds.

TEXAS

AMARILLO.—Independent School District has selected plans by T. Brooks Pearson, Waco, for erection of high school.

AUSTIN.—Gov. Campbell has directed Dr. John Preston, Superintendent of the State Asylum for the Insane, to have plans prepared for construction of \$25,000 building.

DENISON.—City Commission is planning erection of \$75,000 school.

EL PASO.—Major W. J. Fewel will erect eight-story structure on corner of El Paso and San Antonio Sts.

FORT WORTH.—Seventh Ward Club will erect building. Site secured.

JOURDANTON.—Jourdanton Mercantile Co. will at once erect brick building at corner of Simmons Ave. and Main St. E. M. Tom, President.

TEMPLE.—Citizens have voted \$100,000 school bonds.

TRUMBULL.—Local bank will erect building. C. A. Weatherford, President.

UTAH

MURRAY.—Citizens will at once vote on \$35,000 bonds for erection of schools.

SALT LAKE.—Saltair Railroad will erect \$50,000 depot. Site purchased.

VIRGINIA

HARRISONBURG.—B. & O. Railroad will erect \$25,000 depot on W. Market St.

KING GEORGE.—King George County will vote on bonds for erection of court house and clerk's office.

STAUNTON.—Messrs. Walker & Crawford are considering rebuilding of depot and store at Ft. Defiance.

WASHINGTON

EVERETT.—Everett-Seattle interurban line will erect station at corner of Colby and Pacific Aves.

EVERETT.—L. N. Griffin, Bellingham, is considering erection of brick block on Wetmore Ave.

NEWPORT.—Geo. Torreson, Superintendent Fidelity Mill, will erect residence at once. Mill will also erect hotel.

SEATTLE.—Architect F. A. Sexton, Leary Bldg., will at once let contract for erection of \$100,000 hotel at First Ave. South and King Sts.

SEATTLE.—Kingsley & Eastman, Architects, Empire Bldg., are preparing plans for two very modern apartment buildings to be built this spring.

SEATTLE.—Architect William B. Aiken, Central Bldg., has been commissioned by Woman's Board of Home Missions of the Presbyterian Church of New York to prepare plans and specifications for \$100,000 training school to be erected at Sitka, Alaska.

Plans have been completed by P. S. Combs & Co., Trimble Bldg., for \$30,000 three-story and basement apartment house to be erected at corner of Howell St. and Summit Ave. for T. H. Wagner.

SPOKANE.—Rufus Merriam will erect \$25,000 hotel on Eighth Ave.

SPOKANE.—Architect E. J. Baum is preparing plans for erection of \$25,000 apartment house at corner of Fifth Ave. and Cedar St.

Simon Piano Co. will erect \$150,000 six-story building on Riverside Ave.

SPOKANE.—A. E. Grant will erect \$15,000 residence in Manito Park.

WATERVILLE.—Town is considering erection of Y. M. C. A. building.

SEATTLE.—Plans for the store building to be erected at Eighth Ave. S. and King St. for Kong Yick Investment Co. will be completed and ready for figuring about Feb. 17. Thompson & Thompson, Maynard Building, architects.

WEST VIRGINIA

BLUEFIELD.—Bluefield Hardware Co., West End, will erect warehouse at corner of Allen St. and Bluefield Ave. Cost, \$35,000.

CHARLESTON.—Marshall College is considering erection of \$75,000 dormitory. Address Principal Corbly.

CLARKSBURG.—Architect E. E. Pruitt, Columbus, is preparing plans for erection of \$60,000 Masonic Temple.

FAIRMOUNT.—First M. E. Church is considering erection of larger edifice. Rev. H. C. Howard, pastor.

MARTINSBURG.—People's Trust Co. is having plans prepared for erection of eight-story brick banking building.

WISCONSIN

BELOIT.—C. Mattison Machine Co. will erect two-story addition to factory.

FOND DU LAC.—Council is considering \$60,000 appropriation for addition to high school.

LA CROSSE.—Rejecting sketch plans for construction of \$25,000 addition to County Insane Asylum, State Board of Control has recommended that cottage plan be continued in La Crosse County. Architect Wells E. Bennett has been directed by Trustees to draw plans for two cottages. Cost, about \$60,000.

MILWAUKEE.—W. Corbys Zimmerman, Chicago, has presented program for \$250,000 central police station and criminal courts building on Broadway to Council Committee on Police. Prizes offered for plans.

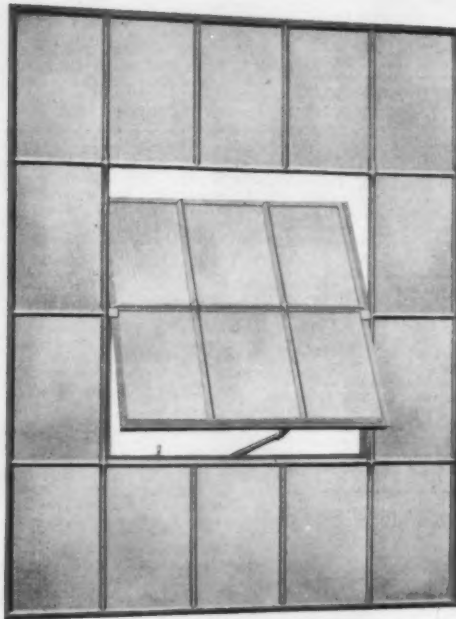
German Evangelical Deaconess Society, Wisconsin district, German Evangelical Synod of North America, is planning to erect \$30,000 hospital for west side.

OSHKOSH.—Wm. Mauthe and Chas. Rueping, Fond du Lac, are considering erection of large apartment store at corner of Main and Otter Sts.

RACINE.—American Seating Co. will expend \$75,000 in improvements to factory.

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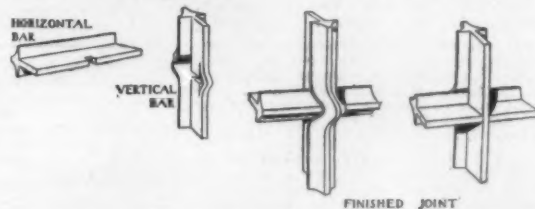
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H. B. Taylor Est., Buffalo, New York.
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Northern Pacific Freight House, St. Paul, Minn.

Rice & Hutchins Shoe Factory, So. Braintree, Mass.
Lehigh University Laboratories, So. Bethlehem, Pa.
Toledo Plate & Window Glass Co., Toledo, O.
Davenport Machine & Foundry Co., Davenport, Ia.
Reinforced Concrete Pipe Co., Detroit, Mich.
Stroh Brewing Co., Detroit, Mich.
Metropolitan Electric Co., Reading, Pa.
Minneapolis Bedding Company, Minneapolis, Minn.
Hennegan Printing Co., Cincinnati, O.
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PROPOSALS

Treasury Department, Office of the Supervising Architect, Washington, D. C., February 7, 1910.—Sealed proposals will be received at this office until 3 o'clock P.M. on the 23rd day of March, 1910, and then opened, for the construction (including plumbing, gas piping, heating apparatus, electric conduits and wiring) of the U. S. Post Office at Connersville, Ind., in accordance with drawings and specification, copies of which may be obtained from the Custodian at Connersville, Ind., or at this office at the discretion of the Supervising Architect.—James Knox Taylor, Supervising Architect. (1782-3)

Treasury Department, Office of the Supervising Architect, Washington, D. C., February 10, 1910.—Sealed proposals will be received at this office until 3 o'clock P.M. on the 25th day of March, 1910, and then opened for the extension, remodeling, etc. (including plumbing, gas piping, heating apparatus, electric conduits and wiring) of the United States Post Office at Lexington, Ky., in accordance with drawings and specifications, copies of which may be had from the Custodian at Lexington, Ky., or at this office at the discretion of the Supervising Architect.—James Knox Taylor, Supervising Architect. (1782-3)

Treasury Department, Office of the Supervising Architect, Washington, D. C., February 8, 1910.—Sealed proposals will be received at this office until 3 o'clock P.M. on the 21st day of March, 1910, and then opened, for the construction complete (including plumbing, gas piping, heating apparatus, electric conduits and wiring) of the U. S. Post Office at Lincoln, Illinois, in

accordance with the drawings and specification, copies of which may be obtained from the Custodian of site at Lincoln, Ill., or at this office at the discretion of the Supervising Architect.—James Knox Taylor, Supervising Architect. (1782-3)

Treasury Department, Office of the Supervising Architect, Washington, D. C., February 11, 1910.—Sealed proposals will be received at this office until 3 o'clock P.M. on the 28th day of March, 1910, and then opened, for the construction (including plumbing, gas piping, heating apparatus, electric conduits and wiring and standard clock system) of an extension, remodeling, etc., to the U. S. Post Office at Quincy, Ill., in accordance with the drawings and specification, copies of which may be obtained from the Custodian at Quincy, Ill., or at this office at the discretion of the Supervising Architect.—James Knox Taylor, Supervising Architect. (1782-3)

Treasury Department, Office of the Supervising Architect, Washington, D. C., February 14, 1910.—Sealed proposals will be received at this office until 3 o'clock P.M. on the 29th day of March, 1910, and then opened, for the construction complete (including plumbing, gas piping, heating apparatus, electric conduits and wiring) of the U. S. Post Office at Estherville, Iowa, in accordance with drawings and specification, copies of which may be obtained from the custodian of site at Estherville, Ia., or at this office at the discretion of the Supervising Architect.—James Knox Taylor, Supervising Architect. (1783-4)

NOTICE TO CONTRACTORS.

Sealed proposals for enlargement of North wing of the State Veterinary College Building, Cornell University, Ithaca, N. Y., including construction, heating, plumbing, and lighting work will be received by E. L. Williams, Treasurer Cornell University, Ithaca, N. Y., until 12:30 o'clock on the 21st day of March, 1910, when they will be opened and read publicly.

Proposals shall be accompanied by a certified check in the sum of \$1,000 and the contractor to whom the award is made will be required to furnish Surety Company bond in the sum of \$10,000, within thirty days after official notice of award of contract in accordance with the terms of specification No. 1319. The right is reserved to reject any and all bids.

Drawings and specifications may be consulted and blank forms of proposal obtained at the State Veterinary College, Cornell University, Ithaca, N. Y., and 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. (1783)

NOTICE TO CONTRACTORS.

Sealed proposals for repairs and alterations in Library Building; changes to entrance porch of Training School Building at the State Normal School, Brockport, N. Y., will be received by Dr. Andrew S. Draper, Commissioner of Education, Capitol, Albany, N. Y., up to twelve o'clock noon on the 8th day of March, 1910, when they will be opened and read publicly.

Proposals shall be accompanied by a certified check in the sum of \$350 for Proposal No. 1, and \$75 for Proposal No. 2, and the contractor to whom the award is made will be required to furnish Surety Company bond in the sum of \$3500 for Proposal No. 1, and \$750 for Proposal No. 2, within thirty days after notice of award of contract, and in accordance with the terms of specification No. 1321. The right is reserved to reject any and all bids.

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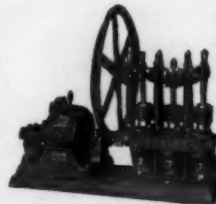
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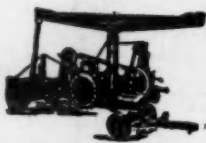
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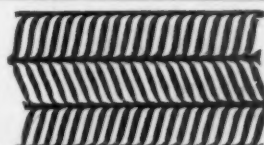


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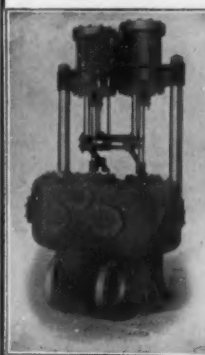
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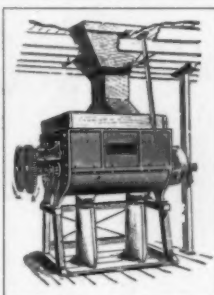
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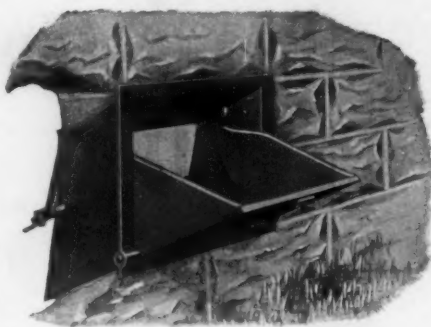
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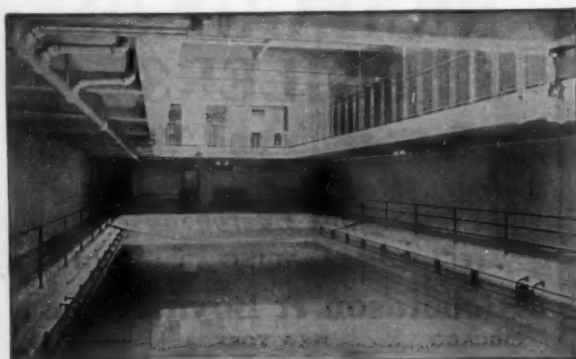
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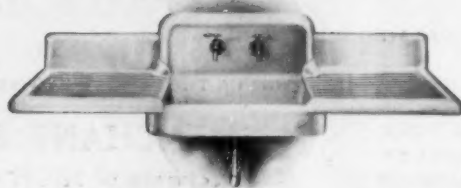
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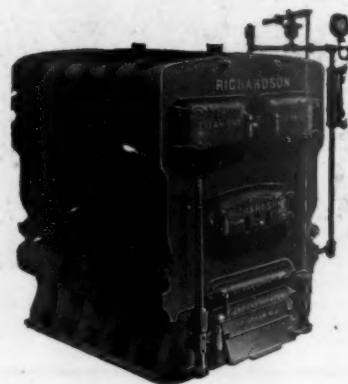
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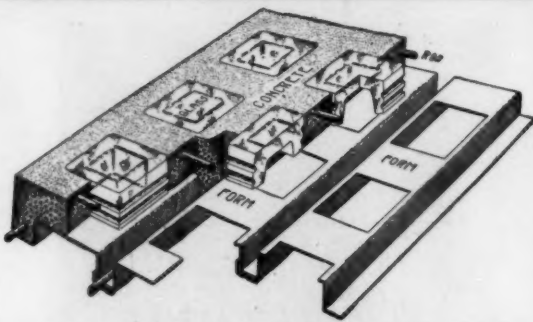
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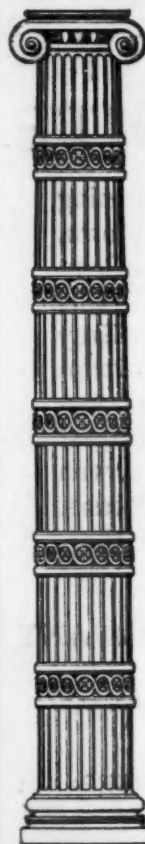
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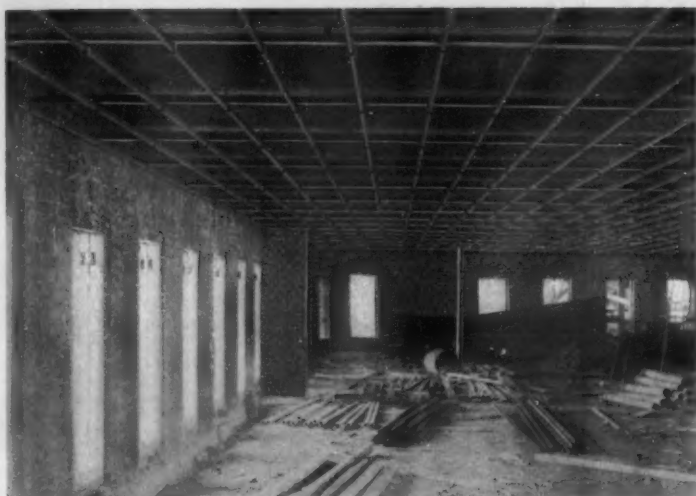
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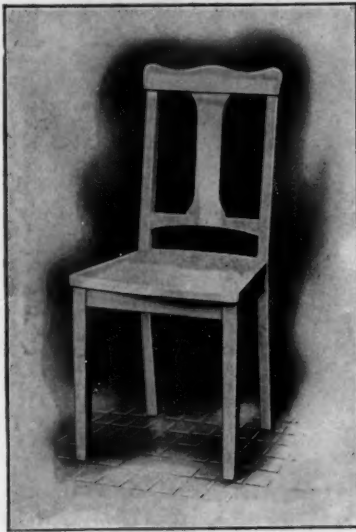
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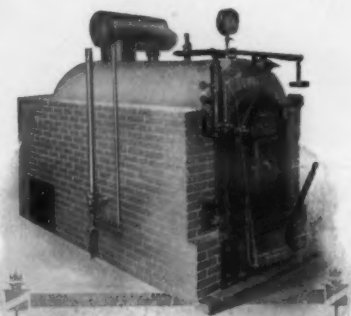
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In the Kewanee System, there is no attic or elevated tank to leak, freeze, overflow or collapse, or to mar the beauty of the scenery. Instead, a Kewanee Pneumatic Tank is placed in the **cellar** or buried in the **ground**. Water is pumped into this tank from any source of supply, with any good pumping power; and it is delivered to the fixtures by **air pressure**.

The Kewanee System is not an experiment—there are over 10,000 of our plants in successful operation. Every Kewanee System is thoroughly guaranteed—we take all the risk and responsibility.



Residence of Gen. H. O. Corbin. D. H. Burnham Co., Architects.

Mr. R. J. Bagby, whose residence is illustrated on this page, wrote: "The Kewanee System works perfectly and is satisfactory in every respect."

Rev. J. Wilbur Chapman, whose place is shown below says: "We are perfectly delighted with the Kewanee System which supplies our country house with water, and I wish again to thank you for sending me so fine an outfit."

Mr. B. M. Hord's compliment is this: "My Kewanee System is absolutely perfect."

Gen. H. O. Corbin said: "The Kewanee System works better than I thought possible—all like it very much."

Let us show you what we can do for **you**. We make no charge for our specifications and estimates. Our engineering department is at your service; and our broad practical experience will be of value to you.

Our illustrated catalogue will give you full information regarding the Kewanee System. It is free. Please mention this magazine when you write.

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1212 Marquette Building, Chicago, Illinois.

305 Diamond Bank Building, Pittsburg, Pa.



H. N. Edwards, San Jose, Cal.



Rev. Dr. J. Wilbur Chapman, Winona Lake, Ind.



B. M. Hord, Nashville, Tenn.

Three Bungalows supplied with water by Kewanee Systems

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Like These Because We Own The Basic Patent

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Never-Split Seats

These seats are intelligently designed and built. They are made up of four clean grained wood sections; the grain running the long way; these sections are held together by strong steel bolts, with broad flat heads that afford an absolute resistance to any tendency to pull apart at the joints, the joints are glued, the bolts are drawn tight. A pin or rod or a dowel will never hold against a warp, twist or shrink. The Never-Split is a seat that is to all intents

solid. There can never be any chance for a lurking place, for contagion, there will never be any checking of the wood. They are guaranteed against failure for five years and they'll last until the building falls down, and withal, they cost no more than those whose only claim is price. Get a catalog. Get wise.

We have a special proposition to make to Architects and Builders it is well worth knowing about suppose you ask about it.

The seats are not necessarily for the highest class of building alone; they are for all services and are particularly adapted to service where they receive rough usage.



For Specification Requirements See Page 8, Catalog "C"

Never-Split Seat Company
Evansville, Indiana

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TERRA COTTA HOLLOW TILE
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Arches may be plastered the day after they are laid, if necessary to rush work.

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Tile Arches assist the wind bracing of the structure because they fill the total depth of the steel beams, and act as horizontal bracing for the entire structure. In comparison with this, concrete floor slabs rest only upon the upper third of the beams, are usually one-third as deep as Tile Arches, can not efficiently transmit the horizontal stresses caused by wind pressure in high buildings, and, by reducing the efficiency of the floors as braces, increase the amount of steel necessary to provide against horizontal stresses.

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Tile Arches weigh less per square foot than any other form of fire proof floor construction of equal strength, and, consequently, greatly reduce the dead load on the structural steel and foundations.

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Hollow Tile Arches have usually from two to four cells and are therefore excellent non-conductors of sound. An extremely important consideration in hotels, hospitals, office buildings and structures of similar occupancy.

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The false work, or centering, required in setting Tile Arches may be removed within twenty-four hours after arches are laid. Centering for concrete floors must, under the most favorable conditions, remain in place at least ninety-six hours, and, in event of constant rain or low temperature weather, must frequently be kept standing two weeks or more, necessitating great delay in completing building, as contractors for other work can not proceed while centering remains in place.

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The cement mortar joints in Tile Arches dry out rapidly, permitting of the immediate laying of finish flooring and wood trim without risk of damage by moisture. Concrete floors are set in a wet, plastic condition, dry slowly, and the moisture remaining in them frequently causes the warping and buckling of floor finish and trim.

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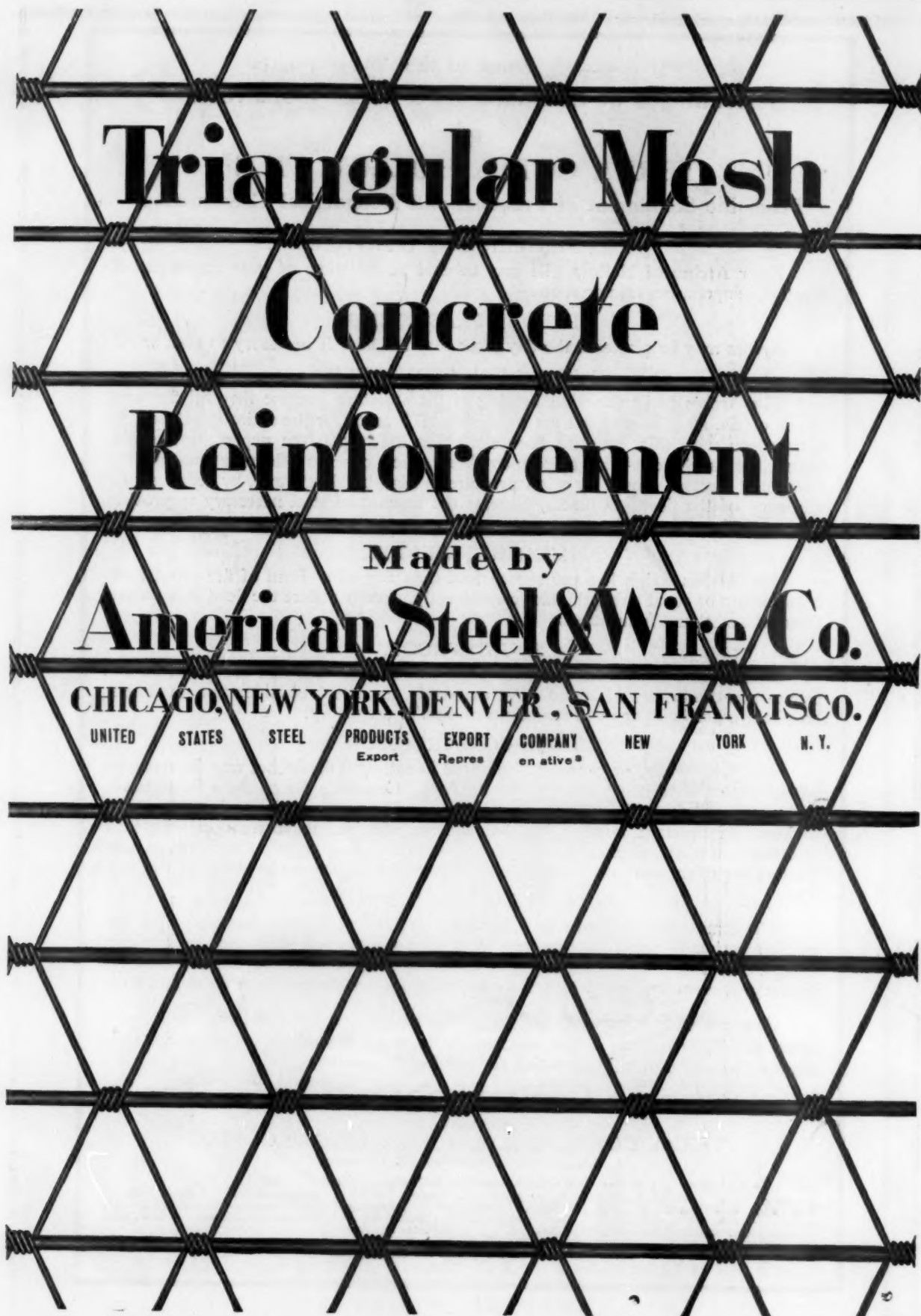
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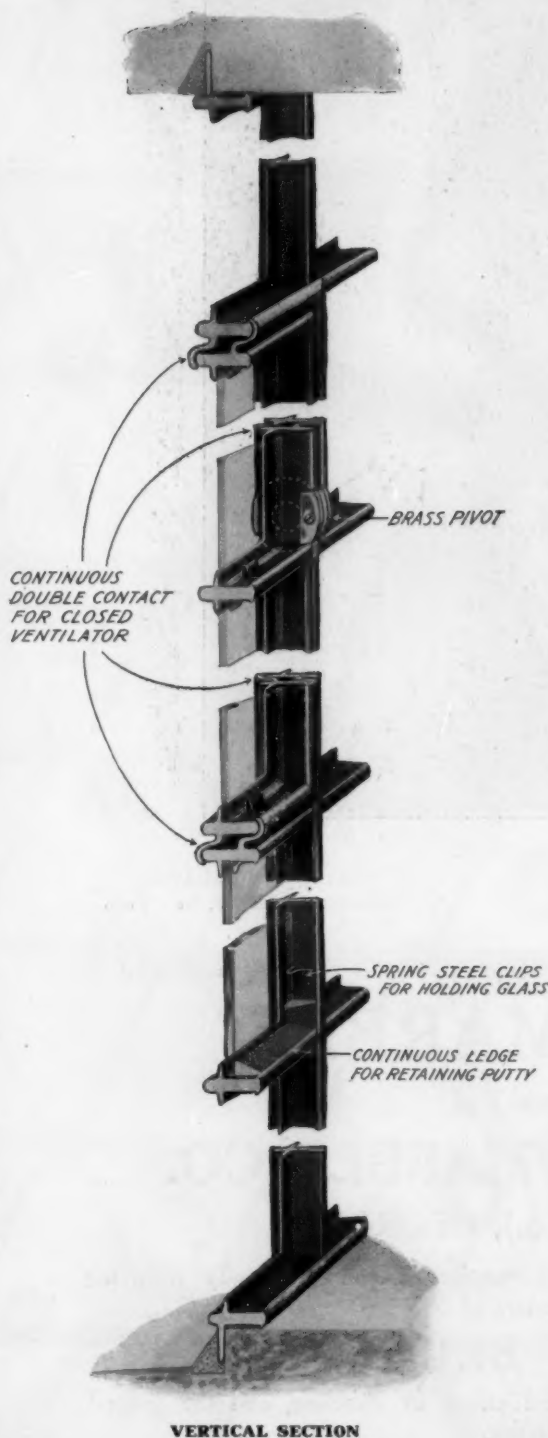
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The warm blue graytones of this marble harmonize in an artistic way with the brick and stone used in construction. The texture of

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CURRENT NEWS

THE AMERICAN ACADEMY IN ROME

The American Academy in Rome announces competitions for the prizes of Rome in architecture, subject to the following conditions:

REGULATIONS FOR THE COMPETITION IN ARCHITECTURE

First. The competition is open to citizens of the United States.

Second. Applicants for admission to the competition are required to be, first, graduates of one of the architectural schools in the subjoined list or, second, graduates of a college of high standing who hold certificates of at least two years' study in one of the following architectural schools: Harvard University, Columbia University, Massachusetts Institute of Technology, University of Pennsylvania, George Washington University at Washington, Cornell University, University of California, Washington University, St. Louis, University of Illinois, Champaign, Illinois, Syracuse University, University of Michigan, Carnegie Technical Schools, Pittsburgh, or, (3) Americans who are pupils of the first class of the School of Fine Arts at Paris, and who have obtained at least three values in that class; or (4) Such candidates as shall be nominated by the committee on the recommendation of practising architects in good standing, who can certify to their attainments.

Third. Persons wishing to take part in the competition must make written application to the Secretary of the Academy, Francis D. Millet, 6 East 23d street, New York City, not later than April 15, 1910. This application must include a concise statement of the course of study which the applicants have pursued. All applicants in architecture whose credentials are found satisfactory are admitted to the preliminary competition.

Fourth. The preliminary competition may be undertaken in any of the above-named schools, but the competitor must state in his application the school in which he wishes to work. Competitors are required to make a sketch for a work of architecture within a period of fourteen consecutive hours upon a program uniform for all. The sketch must be finished in ink, and the competitor is required to preserve a tracing of it for his own use.

Fifth. The committee selects, by examination of the work executed in the preliminary competition, not more than four competitors for the final competition, which is held without delay after this selection is made.

Sixth. Those admitted to the final competition are required to make a set of drawings in color, which must be accompanied by a memorandum explanatory of the solution of the problem. The design must conform to the sketch submitted in the preliminary competition, and must be entirely the work of the competitor. The competitor may, however, have assistance in drawing or rendering repeated motifs, one of which he has himself fully completed, but no drawings or tracings may be taken into workroom, unless at a different scale from the final drawings and upon a different kind of

paper. Any advice or assistance from other persons renders the competitor liable to dismissal from the competition. The drawings must be executed in six weeks from the date of the opening of the final competition, at a specified place, under the supervision of the secretary of the committee, or some other accredited representative of the Board of Trustees, in whose custody the works remain until they are examined by the committee and the successful competitor selected.

Seventh. The works executed in competition are placed on public exhibition during the period of one week immediately following the award.

Eighth. The successful competitor is required to present himself at the Academy in Rome on the first day of October following the competition. The Board of Trustees will provide him with a certificate qualifying him to become a student in the Academy.

Ninth. The three unsuccessful candidates in the final competition will receive each the sum of one hundred (100) dollars.

NETS FOR SKYSCRAPERS

MINNESOTA LABOR COMMISSIONER PROPOSES PROTECTION FOR WORKMEN

Wire nets similar to those used by high-wire acrobats is what State Labor Commissioner W. E. McEwen of Minnesota proposes to compel builders of skyscrapers to use to catch falling workmen and save them from being mangled by falling a dozen stories to the ground.

McEwen had advocated putting in temporary floors to prevent accidents when high steel-frame buildings are being erected. The item of cost is very large and contractors are not all willing to comply with his suggestion. McEwen saw the wire nets in use in Toronto, where he attended the meeting of the American Federation of Labor. A timber frame was put up at each opening and wire netting stretched over each. The netting used was similar to chicken fence, only stronger, and he considered it safer than plank flooring, as workmen falling 10 or 20 feet on the netting would bounce up unhurt. Mr. McEwen believes that he can require contractors to put in this kind of protection under the general safety appliance sections of the labor laws.—*Boston Herald.*

SOCIETIES

NEW JERSEY ARCHITECTURAL CLUB

On February 16 the newly formed New Jersey Architectural Club opened its quarters at 847 Broad street.

The idea of forming a club in Newark for architectural draughtsmen and others in the allied arts was originated by the New Jersey Chapter of the American Institute of Architects.

The club has been organized along similar lines to those of the architectural clubs of Boston, Chicago, Pittsburg and Washington, and the T-Square Club of Philadelphia. The main object is study, to encourage

self-advancement among members in their profession.

The club has secured the services of Mr. Jordan Green, a member of the Royal Institute of British Architects, and formerly of the firm of Betts & Green, of New York. Mr. Green will instruct in design, and the first classes formed will be under his instructions.

PERSONAL

Mr. Edward Crosby Doughty, architect, of 366 Fifth avenue, New York City, advises us that he has been made a partner of the architectural firm of John Scott & Co., with offices 1603-6 Ford Building, Detroit, Mich.

Mr. C. Howard Crane, architect, announces his withdrawal from the firm of Watt & Crane, Detroit, and states that he has opened offices in the Ford Building, Detroit, Mich. He desires to receive manufacturers' samples and catalogues.

INDUSTRIAL

The General Fireproofing Co., with main office at Youngstown, Ohio, advise us that they have opened new offices and showrooms at 396-398 Broadway, New York. They will show a full line of "Allsteel" furniture manufactured by them.

USES OF MINERAL OIL MIXED CONCRETE

Under the above title, the Vulcanite Portland Cement Company have issued pamphlet No. 9, written by Mr. Albert Moyer.

In common with the preceding pamphlets issued by this company, relating to the practical handling of concrete, it presents in a concise and readable way much information of great value to the cement worker and is worth sending for.

The campaign of education undertaken by the cement industries throughout the country affords a technical education that is cyclopedic in character and its publication and has done much towards the better understanding of the nature and handling of this popular building material.

"TARTEX"

The Barrett Mfg. Company, New York, with offices in principal cities, have perfected a reinforced waterproofing felt, which they have named "Tartex."

This fabric, they claim, possesses many advantages of efficiency and economy as well as others that would warrant its use where waterproofing is desired or necessary.

In order to bring this felt to the notice of the architect and builder, they solicit correspondence and will send on application sample and full descriptive pamphlet.

VENTILATING MACHINERY

The American Blower Co., of Detroit, Mich., publishes a great many pamphlets, each one intended to explain some special feature of ventilating machinery

and instruct the user as to its proper installation and operation. Among recent issues which should be of interest to architects and builders are: No. 263, "A B C" Steel Plate Fans; No. 264, "A B C" Cone Fans; No. 265, Dry Kilns for Timber Products; No. 267, "Detroit" Steam Traps; No. 271, "A B C" Cast-iron Exhaust Fans; No. 272, "Dixie" Exhaust Fans.

These pamphlets may be had on application.

PLASTIC ORNAMENT

The judicious use of applied ornament has always been an essential part of architecture. One has but to carefully scan the various exhibits on the walls of the galleries of an Architectural Exhibition to become impressed with the fact that many of the examples shown depend almost as much on the use of ornament as they do on major lines and form to produce the desired result.

In the interiors it will be seen that the use of plastic ornament is undergoing a renaissance, and its use is only limited by the ability of the architect to secure ornament of an artistic quality that will meet his approval.

From the various handsomely illustrated catalogues, which are a triumph of photographic work, so well is each example shown that have been issued by the Decorators' Supply Company, Archer Avenue and Leo Street, Chicago, it would appear that the architect will find valuable co-operation in placing at his prompt disposal every form of plaster ornament, from the simplest moulding to the most elaborate ceiling.

The two books referred to are substantially bound in cloth, more than 200 pages, 9 by 12 inches, and printed on an unusually good quality of paper. One is entitled "Plastic Ornaments, Cast in Plaster for Interiors, and Cement for Exteriors"; the other, "Composition Capitals and Brackets."

We believe the architect will find in these two books many suggestions of value, aside from the satisfaction of knowing he can quickly obtain any of the various styles illustrated.

ROUND CHINA TANKS

It seems worth while to occasionally pause and note our progress. For example, contrast the modern bath room, with its refinements, both sanitary and artistic, with what was considered the best obtainable no later than twenty years ago. Each item of its equipment has received at the hands of manufacturers the most thoughtful care and skill.

The Eljer Company, of Cameron, West Virginia, have contributed conspicuously to this refinement, and inspection of their catalogues and trade literature will show many desirable features.

Among these are a round china flush tank, and a series of vitreous china lavatories, both with pedestals and backs and the usual wall bracket types. All these are designed to furnish a fitting that will present no corners or crevices to provide lurking places for disease germs or the emanation of bad odors.

The Eljer Company claim many unusual advantages for their line of goods, and desire to correspond with architects who specify high-grade fixtures.



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are graphite and silica—both are inert and practically indestructible. The vehicle is first grade double boiled linseed oil. It's the best paint it is possible to make with the best record ever made. Write for 1909 edition of "Colors and Specifications."

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Protection against short life, corrosion, other dissatisfaction—
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Scott's Extra Coated Roofing Tin



"Scott's" is made under the *Old Welsh Process*. The *Open Hearth* method frees it from Sulphur and Phosphorous excess. Then "SCOTT'S EXTRA COATED" is hammered, hammered, HAMMERED till not a defect or blowhole remains.

Our booklet "J" sent on request.

FOLLANSBEE BROTHERS COMPANY, PITTSBURG, PA.

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BUILDING NEWS

To be of value this matter must be printed in the number immediately following its receipt, which makes it impossible for us to verify it all. Our sources of information are believed to be reliable, but we cannot guarantee the correctness of all items. Parties in charge of proposed work are requested to send us information concerning it as early as possible; also corrections of any errors discovered.

ALABAMA

BIRMINGHAM.—Board of Education has recommended purchase of site at Twentieth St. and Ave. G, and erection of high school.

Wilbur Wright will erect proposed experimental plant in this city. E. H. Hyman, secretary Commercial Club, is interested.

BIRMINGHAM.—School Board has adopted plans by D. O. Whildin for proposed school at East Birmingham. J. L. Parker, President.

BIRMINGHAM.—Davis Piano and Player Co. has been incorporated and will erect fireproof factory.

GADSDEN.—Citizens have voted \$50,000 bonds for school improvement.

ARIZONA

MEZA.—School Trustees have decided to erect \$50,000 school.

PHOENIX.—J. C. Adams will erect \$80,000 extension to Hotel Adams. J. I. Brooks will superintend work of construction.

CALIFORNIA

AUBURN.—E. B. Beecher will erect apartment house on Almond Hill in spring.

BAKERSFIELD.—Train & Williams, 254 S. Broadway, Los Angeles, are preparing plans for erection of \$15,000 edifice for First Presbyterian congregation.

BARSTOW.—Santa Fe Railroad will erect depot and Harvey hotel, cost \$250,000, at this place.

CORONA.—Plans are being prepared by Architect F. L. Stiff, 723 Grosse Bldg., Los Angeles, for erection of three-story office building for S. B. Hampton.

HAYWARD.—Court Hayward, Foresters of America, is planning to erect \$20,000 hall.

HOLLYWOOD.—A. C. Blair will erect residence. Hunt, Eager and Burns, Laughlin Bldg., Los Angeles, architects.

LOS ANGELES.—Water Board is considering erection of \$150,000 building at Fifth and Olive Streets. Plans prepared.

LOS ANGELES.—Plans have been prepared by Architects Train & Williams, 254 S. Broadway, for erection of colonial residence on Oxford Heights.

LOS ANGELES.—Architect A. R. Walker is preparing plans for erection of two-story residence at Harvard Boulevard and Fifth Ave., for J. E. Robertson.

OAKLAND.—Oakland Lodge of Elks is considering erection of club house.

OAKLAND.—H. C. Capwell will erect six-story \$400,000 Class A building at corner of Fourteenth and Clay Sts.

ORLAND.—Town will vote on \$27,000 bonds for erection of grammar school.

SAN FRANCISCO.—Architect Nathaniel Blaisdell, 225 California St., has prepared plans for erection of three-story \$75,000 building on Pacific Ave.

YREKA.—Local masons will erect \$25,000 temple at Miner and Oregon Sts.

COLORADO

CANON CITY.—Board of Education has decided to erect school building at East Canon.

PUEBLO.—Council is considering erection of fire station at Pine and Willow Sts.

CONNECTICUT

BRISTOL.—C. G. Garrigus Machine Co. will erect another factory building.

THOMASTON.—Baird Machine Co., Oatville, will erect plant at this place. C. L. Warner, secretary.

WATERBURY.—Plans have been drawn by Architect Joseph A. Jackson, 1123 Broadway, New York City, for erection of a four-story block at corner of Bishop and Hawkins Streets for Mrs. Ellen Sayles.

WESTVILLE.—Residents are considering erection of school. H. A. Leonard is interested.

DISTRICT OF COLUMBIA

WASHINGTON.—Fidelity Storage Company will erect \$100,000 storage building at 1420 U Street, N. W. Charles Gregg, 1320 New York Avenue, N. W., has drawn the plans.

Plans for an addition to and remodeling of Riggs House are being submitted to Col. O. G. Staples, owner, by local architects.

WASHINGTON.—Addition, cost \$60,000, will be erected to Congress Hall hotel on New Jersey Ave. Harding and Upman, 729 Fifteenth St., N. W., architects.

National Amusement Co., Baltimore, will erect vaudeville theatre at Florida Ave., T and Sixth Sts. Cost \$75,000. Carroll Beale, architect.

Metropolitan Baptist Church will erect \$50,000 edifice.

FLORIDA

PENSACOLA.—J. M. Mulden will erect business building at corner of Baylen and Garden Sts.

GEORGIA

ALTO.—Plans have been prepared for erection of proposed State Tuberculosis Sanitarium to be erected at this place. Plans can be seen at office of Nisbet Wingfield, City Engineer, Augusta.

ILLINOIS

CHICAGO.—Plans have been completed by Frost and Granger, 181 La Salle St., for erection of \$100,000 home for old men at corner of Garfield Boulevard and South Park Ave.

Plans have been prepared for erection of building at 140 Monroe St. for Harris Trust and Savings Bank. Cost \$3,000,000. Shepley, Rutan & Coolidge, 206 La Salle St., architects.

EVANSTON.—Evanston Woman's Club is considering erection of \$50,000 clubhouse.

FREEMONT.—Embury Methodist Church will erect \$41,000 edifice at corner of South Galena Ave. and Pleasant St. Rev. R. C. Harker, pastor.

MOLINE.—Moline Lamp Co. will erect factory next year. J. D. Massey, Construction Engineer.

QUINCY.—Architect G. P. Behrensmeier, 530 N. Main St., has completed plans for erection of \$5,000 garage on Maine St.

INDIANA

ANDERSON.—Trinity Episcopal Church has fund available for erection of church.

ELWOOD.—Indiana Union Traction Co. is considering erection of station at Main and Sixteenth Sts.

FRANKFORT.—Clover Leaf Co. will expend \$250,000 in enlarging shops and erecting buildings.

HAZLETON.—Hazleton Lodge No. 389, I. O. O. F., will receive bids until noon, March 15, for erection of two-story business house and lodge room. Frank Duncan, Princeton, Architect.

INDIANAPOLIS.—S. E. Rauh will erect \$10,000 automobile garage on North Alabama St. at once. Plans prepared.

MARION.—Council is considering erection of engine house.

NEW LISBON.—Albert and Charles Raffensbarger will erect number of buildings in this city.

RUSHVILLE.—Rushville National Bank will erect three-story brick building at Main and Second Sts.

VINCENNES.—Indiana Handle Co. is considering rebuilding of plant on Terre Haute St.

IOWA

SIoux CITY.—Grace Reformed Church will erect \$10,000 edifice. Plans being prepared. Rev. J. F. Kern, pastor.

SIoux CITY.—J. M. McDonald is considering erection of building at Sixth and Douglas Sts.

SIoux CITY.—Iron Co. will erect building at corner of Third and Court Sts. H. A. Sadler, Secretary.

WASHINGTON.—School board is considering \$15,000 bond issue for manual training school.

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KANSAS

KANSAS CITY.—Architects Rose & Peterson, Kansas City, Mo., are preparing plans for erection of \$100,000 building for Bethany Hospital.

LEAVENWORTH.—Local Elks have decided to erect \$10,000 building. J. W. Sexton, chairman committee.

MANHATTAN.—Board of Education has not as yet selected plans for proposed \$30,000 school. I. S. Smith is interested.

PLAINVILLE.—Worley Mercantile Company will erect large building.

SALINA.—Bids will be received until March 12 by the Board of County Commissioners for erecting court house. Wilmarth & Zerbe, Watson Bldg., Architects.

KENTUCKY

LEXINGTON.—Plans have been prepared by Supervising Architect Jas. K. Taylor for erection of addition to post office.

LOUISIANA

FRANKLIN.—Plans have been prepared for erection of \$40,000 edifice for Church of the Assumption. Rev. J. J. Trainor, Pastor.

LAKE CHARLES.—Duncan Ladder Manufacturing Co., Ltd., will erect plant at Elton. C. S. Bloom, President.

MARYLAND

BALTIMORE.—Owners Realty Co., J. J. Hurst, president, will erect \$8,000 apartment building at corner of Charles St. and North Ave. Plans being prepared.

BALTIMORE.—International Trust Co. of Maryland will expend about \$100,000 in improvements to home on Baltimore St.

BALTIMORE.—M. Fillmore Carter will erect 76 semi-detached dwellings on Pressman St. Cost \$200,000. Stanislaus Russell, architect.

Hochschild, Kohn & Co. will erect department store at corner of Howard and Lexington Sts. J. E. Sperry, Calvert Bldg., architect.

Sisters of Notre-Dame will erect \$200,000 building on Charles St. T. C. Kennedy, 211 N. Calvert St., architect.

Church Home and Infirmary trustees will erect home for nurses. G. R. Morris, Equitable Bldg., architect.

BALTIMORE.—A. C. Mylander & Bro. will build three dwellings, cost \$6,000, on Carrollton Ave. J. F. Gerwig, 210 E. Lexington St., Architect.

BALTIMORE.—Architects A. C. Leach and E. H. Glidden, 16 St. Paul Street, have been commissioned to prepare plans for erection of two schools. Cost, \$230,000.

Frank Novak will erect 24 houses on Patuxent Street. Cost, \$42,000. Jos. F. Hirt, architect.

HAGERSTOWN.—Cold Store Door Co. will erect modern plant at once. Site purchased.

MASSACHUSETTS

BEVERLY.—Y. M. C. A. Building Committee has engaged Walter R. Atherton, 13 Exchange Street, Boston, to draw plans for \$100,000 building to be erected next spring at Cabot and Essex Streets.

NEWBURYPORT.—Board of Aldermen has voted to issue \$50,000 bonds for erection of school building in Ward 6.

MINNESOTA

DULUTH.—Bray & Nystrom, Palladio Bldg., are preparing plans for erection of \$20,000 residence on Fifth St., for W. A. Eaton.

DULUTH.—Board of Fire Commissioners will consider plans for another fire hall.

DULUTH.—Austin Terryberry, Palladeo Building, has prepared plans for erection of \$5,000 store and dwelling on East Fourth Street for N. Mueller.

ST. PAUL.—Plans have been prepared for erection of three university hospital buildings, cost \$575,000, on campus.

Architect C. A. Pear is preparing plans for \$25,000 brick building to be erected at corner of Sixth and Exchange Streets for J. C. Fulton.

Eisenmenger Meat Company will erect \$10,000 building on Smith Avenue. Plans by Architect Mark Fitzpatrick.

ST. PAUL.—Architect Mark Fitzpatrick, 17 W. Ninth St., is preparing plans for three buildings.

West Side Club has decided to erect larger home at Concord and Congress Sts.

MISSISSIPPI

DALEVILLE.—Daleville Institute will rebuild girl's dormitory destroyed by fire. Cost \$7,000.

LAUREL.—St. John's Church has had plans prepared for erection of edifice. G. S. Gardner, Chairman Committee.

Main St. Methodist Church will erect \$20,000 edifice. P. H. Saunders is interested.

MISSOURI

CHILLICOTHE.—M. V. Piper will erect three-story building at corner of Locust and Clay Sts.

KANSAS CITY.—Kawmo Wholesale Grocery Company will erect five-story building on Walnut Street.

KANSAS CITY.—First Church of Christ will erect edifice at corner of Forest Ave. and Ninth St. Edwards & Sunderland, Sheidley Bldg., Architects.

MEXICO.—Local Elks have decided to erect \$40,000 opera house.

ST. JOSEPH.—Knights of Columbus are planning to erect \$50,000 home.

MONTANA

BUTTE.—Bids will be received until 2 p. m., March 30, for erection of court house. Link and Haire, State Savings Bank Building, architects. J. H. Cronin, chairman Board of County Commissioners.

NEBRASKA

CHAPPELL.—Commercial Bank will erect one-story bank building. Plans not yet selected.

OMAHA.—Architect Lloyd Willis has completed plans for erection of \$25,000 apartment house at corner of Poppleton and Park Aves. Committee on Buildings, Board of Education, has recommended \$750,000 bond issue to relieve congested condition of schools.

OMAHA.—Union Pacific Railroad will enlarge freight terminals.

OMAHA.—American Hand-Sewed Shoe Co. will erect six-story addition to plant at Twelfth and Harney Streets.

NEW JERSEY

BRIDGETON.—Board of Education has appointed committee to secure plans for erection of \$60,000 high school.

BRIDGETON.—First Baptist Church has decided to erect parsonage. E. P. Bacon, Chairman, Building Committee.

CAMDEN.—House has passed bill for erection of \$10,000 armory for Battery B.

Stewart & Lewis have plans drawn for erection of forge works at Everett and German Sts.

ELIZABETH.—Westminster Hope Chapel has adopted plans for erection of chapel building. C. G. Poggi, 2 Julian Place, architect.

HARRISON.—Citizens will vote Mar. 15 on erection of additional school building.

LAMBERTVILLE.—Erection of new high school is being urged.

MILBURN.—Bids will be received until 8:30 P. M., Mar. 17, for erection of School No. 3, on Myrtle Ave. R. C. Hutchinson, 126 Liberty St., New York, Architect. F. M. Schmidt, District Clerk.

NEWARK.—Architect W. E. Lehman, 738 Broad St., has prepared plans for erection of \$8,000 factory building at 229 New Jersey Railroad Avenue.

Architect W. J. Aschenbach, 349 Plane Street, has prepared plans for erection of \$8,000 frame dwelling at 776 Bergen Street.

NEWARK.—Architect Arthur Connelly, 92 Market St. has prepared plans for erection of \$12,000 dwelling at Second and Warren Sts., for J. L. Pfeiffer.

Cohen and Bessman have prepared plans for erection of three dwellings on Peshine Ave. Cost \$17,400.

RED BANK.—First Presbyterian Church is considering erection of edifice.

TRENTON.—Japanese Silk Garment Co. will erect \$30,000 factory on Donnelly Alley. Isaac Goldberg, proprietor.

TRENTON.—Architect W. W. Slack is preparing plans for erection of a three-story apartment house on North Warren St., for Mrs. Thomas Carney. Cost \$15,000.

WHITEHOUSE.—Citizens of Readington Township are urging erection of \$25,000 school.

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NEW MEXICO

ROSWELL.—Citizens will vote March 15 on bonds for erection of high school.

TUCUMCARI.—Methodist Episcopal Church South, has decided to erect \$10,000 edifice.

NEW YORK

BINGHAMTON.—A. O. H. Society is raising funds for erection or purchase of club house.

BUFFALO.—Webster-Citizens' Ice Co. will erect plant on Essex St.

BUFFALO.—E. D. Klopp will erect stores and flats on corner of Lafayette Ave. and Grant St.

Edward Brisk will erect \$12,000 store and bowling alley at 2432 Seneca St.

DRYDEN.—Erection of \$20,000 school building is being considered.

FULTON.—Fulton Savings Bank will erect \$25,000 building at South First and Rochester Sts.

MT. VERNON.—Plant of Mt. Vernon Bridge Co., destroyed by fire, will be rebuilt. Jas. Israel, secretary.

NEW ROCHELLE.—F. P. Pagen, 57 Lawson St., is preparing plans for erection of \$15,000 residence for W. H. Matthews on Overlook Circle, Beechmont.

Plans have been prepared by Barnard & Wilder for erection of two cottages, cost \$12,000, in Bon Air, for W. R. Seibrecht.

NEW YORK.—New York Post-Graduate Medical School, Twentieth St. and Second Ave., has purchased all land needed for erection of large annex.

Architect T. W. Lamb, 224 Fifth Ave., has filed plans for erection of three-story \$60,000 theatre at Eighth Ave. and 145th St., for Henry Morgenthau.

NEW YORK.—Henry Weaver, 91 Carroll St., City Island, will erect two two-story frame dwellings on Billar Place. S. H. Booth & Sons, City Island, Architects.

Architect Frederick C. Brown, 143 W. 125th St., has prepared plans for erection of eighteen-story office and store building at corner of Twenty-sixth St. and Fifth Ave.

Architects Buchanan & Fox, 11 E. Fifty-ninth St., will prepare plans for erection of twelve-story loft building on Twenty-third St. for Robert Burns Realty Co. Cost, \$700,000.

Architect Wm. Wells Bosworth, 527 Fifth Ave., has prepared plans for erection of proposed Fifth Ave. Baptist Church. Cost, \$500,000.

NEW YORK.—Waunegan Realty Co., 35 Nassau St., will erect a six-story flat on Fort Washington Ave. Cost \$225,000. Schwartz, Gross and Marcus, 347 Fifth Ave., architects.

M. Regan, Webster Ave. and 193d Sts., will erect two dwellings at Webster Ave. and 193d St. Cost \$7,500. Wm. Kenny, 3600 Decatur St., architect.

Architect Louis Korn, 353 Fifth Ave., is preparing plans for erection of a sixteen-story store and loft buildings at 20 West Twenty-second St. Cost \$1,500,000.

NEW YORK.—City will erect five-story \$300,000 school on Hester St. C. B. J. Snyder, 500 Park Ave., Architect.

New Netherland Theatre Co., 50 Central Park West, will erect \$170,000 theatre on Forty-eighth St. C. A. Rich, 320 Fifth Ave., Architect.

Forty and Forty-six East Sixty-second St. Co. will erect eight-story \$200,000 apartment house at 40 East Sixty-second St. A. J. Bodker, 25 West Thirty-second St., Architect.

NEW YORK.—Clinton Amusement Company will erect \$60,000 brick theatre at 58 Clinton Street. T. W. Lamb, 224 Fifth Avenue, architect.

Cberlin Realty Company, 143 W. 125th Street, will erect \$80,000 eight-story flat on 11th Street. Browne and Almiroty, 3 W. 29th Street, architects.

M. Marx, 128 Broadway, will erect \$40,000 three-story garage on 181st Street. A. L. Kehoe, 1 Beekman Street, architect.

PALMYRA.—Rochester, Syracuse and Eastern Railway Company will erect passenger and freight station in this city.

SYRACUSE.—T. O. Hickok has purchased site at corner of South Salina and Adams Sts. for business purposes.

NORTH CAROLINA

GREENSBORO.—Board of Aldermen is considering election on \$35,000 bonds for school purposes.

OHIO

CINCINNATI.—Judge Wm. Littleford will erect several residences on Ritchie Ave., Hyde Park.

Sig Wise will erect two residences, cost \$24,000, on South Crescent Ave.

CINCINNATI.—O. A. Klinkenberg has had plans prepared for erection of store and flat building on Reading Road.

CLEVELAND.—Architect D. A. Reamer is preparing plans for erection of \$30,000 business block at corner of Euclid and Woodlawn Avenues.

COLUMBUS.—Architects Dawson and Holbrook, Outlook Building, are preparing plans for erection of two-story brick business block on N. High Street.

Architect O. C. Darst, Brunson Building, is preparing plans for erection of concrete building at corner of Spring and Front Streets.

Columbus Terminal Warehouse Company has not as yet selected architect for proposed eight-story building.

FREMONT.—Lauth Juerggens Motor Car Co., Chicago, will establish plant in this city.

LANCASTER.—Architect G. E. Overton, 26 S. Third Street, Columbus, has prepared plans for building for Elks.

NORWALK.—Citizens will vote on \$90,000 bonds to erect high school. Plans will be prepared by Architect Vernon Redding, Mansfield.

OXFORD.—Committee on Finance, Ohio Senate, will recommend \$75,000 appropriation for erection of girls' dormitory at Miami University.

TOLEDO.—Cincinnati, Hamilton & Dayton Railroad Co. will erect modern \$250,000 freight depot in this city. Wm. Cotter, President.

TOLEDO.—Congregation B'nai Israel will erect proposed \$50,000 synagogue at Woodruff and North Twelfth Sts. S. E. Aftel, Ohio Bldg., architect.

YOUNGSTOWN.—S. D. Currier, 115 E. Federal St., will erect four-story brick building. Plans being prepared.

Mahoning Valley Railroad will erect large addition to car barn on West Federal St.

Company, capital \$100,000, will erect apartment house on Ridge Ave. Ed. J. Jones is interested.

OKLAHOMA

CUSTER CITY.—School District has voted \$25,000 bonds for school building.

GUTHRIE.—Governor Haskell has recommended appropriations for the girls' school at Chickasha, University Preparatory to Claremore, Normals at Ada and Durant, Deaf and Dumb School at Sulphur, Orphans' Home at Pryor Creek, and Reform school at Paul's Valley.

MUSKOGEE.—Ashby, Radford & Niemann have completed plans for erection of \$230,000 hotel at corner of Main St. and Broadway.

Hooker-Hendrix Hardware Co. will erect eight-story building at corner of Broadway and Cherokee Sts.

NASHVILLE.—Citizens have voted \$12,000 bonds for school building.

OREGON

PORTLAND.—Architects Kroner and Henn, Portland, will prepare plans for \$10,000 building to be erected at East Fourteenth and Salmon Sts.

Alberta St. Improvement Association is urging erection of engine house.

PORTLAND.—G. W. Dickson, Forty-fifth and Belmont Sts., is having plans prepared for erection of \$7,000 building at Forty-fifth and Belmont Sts.

W. P. Tillman and Dr. J. A. Pettit, Sunnyside, will erect business block at Thirty-fourth and Belmont Sts.

M. Barde & Sons will erect four-story apartment building at corner of Twentieth and Lovejoy Sts.

PENNSYLVANIA

ALLENTOWN.—Muhlenberg College has secured site for erection of \$100,000 preparatory school.

BETHLEHEM.—Moravian congregation will erect building on North Main St. J. M. Leibert, Secretary.

CRESSON.—Dr. Samuel G. Dixon has had surveys completed for a group of buildings for the State Sanitarium for the Treatment of Tuberculosis.

EDGE HILL.—Carmel Presbyterian Church will spend \$10,000 in improvements.

UNDERFEED

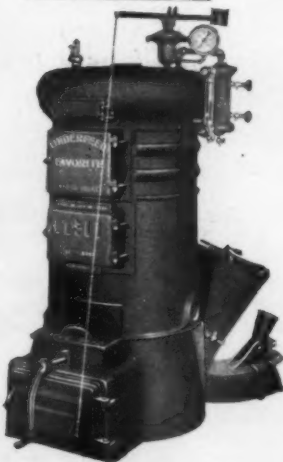
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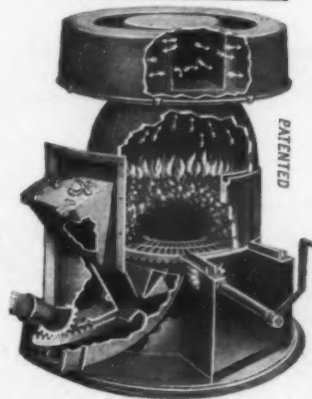
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ERIE.—Ashby Printing Co. will erect plant at Fifth and State Sts.

HARRISBURG.—School Board will issue \$309,000 bonds for school purposes.

HARRISBURG.—Messiah Lutheran Church will erect edifice at Sixth and Forster Sts.

NORTH SCRANTON.—W. R. Simms will erect vaudeville theatre at 17 Market St.

PHILADELPHIA.—Architect Peter Kuhn, 3058 North Eighth St., is preparing plans for four-story warehouse, for Keppler-Fox Foundry, at corner of York and East Thompson Sts., cost \$20,000.

The Philadelphia Roll Milling and Machine Co., is having plans prepared for a rolling mill and machine shop at Twenty-third St. and Washington Ave. Cost \$12,000.

Sax & Abbott are preparing plans for a two-story \$25,000 file shop, at Disston Saw Works, Tacony.

PHILADELPHIA.—Architect A. E. Westover, Keith Theatre Building, is preparing plans for erection of a \$200,000 hall building and theatre at 5215 Market Street for S. F. Nirdlinger.

PHILADELPHIA.—Trustees of T. W. Evans Museum and Institute Society will erect building at 4013 Spruce St.

PHILADELPHIA.—Architect C. S. Harris, 1137 South Fifth St., is designing a two-story parish house, cost \$20,000, for Calvary P. E. Church, at Manheim St. and Pulaski Ave., Germantown.

Plans for erection of one-story and gallery stone church, with tower at corner of Westview and Greene Sts., for the Summit Presbyterian Church, have been prepared by Duhring, Okie & Ziegler, Bailey Bldg.

Albert Kelsey has finished plans for erection of residence in St. Martin's for W. H. Dilks.

Henry Phipps has purchased a site at Lombard and Seventh Sts. for proposed hospital for treatment of tuberculosis.

City has purchased a site at Walnut and Forty-seventh Sts. for erection of proposed West Philadelphia high school.

PITTSBURG.—Architect H. E. Mills has plans for residence to be erected at Fairmount Ave. and Breedshill St., for D. L. Aaron.

Harry H. Green has had plans drawn by Architect R. M. Trimble, Ferguson Bldg., for residence to be erected at Kentucky and Denniston Aves.

YORK.—York Trust Co. proposes to erect bank building on East Market St.

TENNESSEE

CHATTANOOGA.—Anti-Tuberculosis Society will erect proposed sanitarium near Altamede.

CUMBERLAND GAP.—L. O. Waters, architect, Pickle & Turner Bldg., Knoxville, will have plans prepared Mar. 15 for erection of \$60,000 building at Lincoln Memorial Hospital.

Architects G. F. Barber & Co., French and Roberts Bldg., are preparing plans for residence to be erected on Kingston Pike for P. J. Briscoe, Jr.

KNOXVILLE.—Local Aerie, F. O. E. No. 1009, will erect home at corner of Church Ave. and State St.

TEXAS

DALLAS.—Elmer L. Scott is considering erection of warehouse in block between Lowar, Austin and Bellevue Sts.

ENNIS.—Milford School District has voted \$20,000 bonds to erect school.

FORT WORTH.—First Christian Church is considering erection of \$75,000 edifice.

Elks' Lodge has accepted plans for erection of building at corner of Lamar and Seventh Sts.

SHERMAN.—Tom Bean School District has voted \$5,000 bonds to erect school.

WACO.—Citizens have voted \$140,000 bonds for purchase of site and erection of high school.

UTAH

MURRAY.—Citizens have voted \$35,000 bonds for erection of two schools.

MURRAY.—Utah Produce Co. will erect canning factory in near future. U. G. Miller, General Manager.

OGDEN.—Thos. D. Dee Memorial Hospital Association will erect \$75,000 memorial hospital in this city. Mrs. Thos. D. Dee, president.

SALT LAKE CITY.—First Church of Christ, Scientist, will erect \$40,000 edifice at 568 Brigham St.

City will soon construct \$500,000 high school on East Side. D. H. Christensen, school superintendent.

VERMONT

BENNINGTON.—Temple Chapter, Royal Arch Masons, has secured site for erection of \$20,000 temple.

VIRGINIA

CLARENDON.—Citizens' Association is considering erection of home.

DISPUTANA.—Prince George County school authorities are considering erection of \$8,000 high school.

HAMPTON.—Poquoson District, York County, has voted \$8,000 bonds for erection of school houses.

NORFOLK.—Committee, Rev. L. L. Smith, chairman, will purchase site for erection of church.

WASHINGTON

CENTRALIA.—Northern Pacific Railroad has selected site for proposed \$50,000 depot.

ELLENSBURG.—First Methodist Church will erect edifice at Third and Ruby Sts. J. J. Putman, Chairman Building Committee.

IONE.—Congregational Church will erect edifice in near future. Rev. H. E. Anderson, District Missionary.

SEATTLE.—Plans have been prepared by Graham & Myers, architects, Lowman Bldg., for a large store and warehouse building to be erected on corner of Seneca St. and Western Ave. for John B. Agen and associates.

Plans have been completed by Architect W. W. Noyes, 725 Central Bldg., for erection of \$50,000 apartment house at 1509 Ninth Ave.

L. A. Mason, 1011 Lowman Bldg., will erect apartment house on Cherry St. J. E. Seaquist, architect.

SPOKANE.—Bids will be received by Building Committee of St. Paul's M. E. Church until 5 p.m., March 15, on entire structure or separate trades. A. Robertson, 1204 Sharp Ave., Building Superintendent.

Conrad Wolfe will erect \$20,000 apartment house on Sixth Avenue.

TACOMA.—Bids will be advertised for erection of \$5,000 fire station on Tideland.

WEST VIRGINIA

CHARLESTON.—Architect Wilbur T. Mills, McCune Building, Columbus, O., has completed plans and specifications for residence for Mrs. Nannie Cotton, to be erected on Kanawha Street.

CLARKSBURG.—Board of Education will ask for \$200,000 bond issue for building new ward schools and high school.

FAIRMOUNT.—Palatine Lodge No. 84, I. O. O. F., will erect lodge hall in First Ward.

HUNTINGTON.—Plans have been prepared for erection of \$75,000 dormitory for Marshall College.

HUNTINGTON.—St. Paul's Lutheran Church will erect edifice at corner of Sixth Avenue and Sixth Street. Rev. C. J. Hines, pastor.

LYNCHBURG.—McWane Foundry Company will erect \$25,000 warehouse.

WISCONSIN

DEFERE.—Oneida Knitting Company will build two-story addition to its factory.

EAU CLAIRE.—Girnau Manufacturing Co. will erect plant in near future.

FOND DU LAC.—Sketches and plans for new addition to high school and remodeling present building must be filed with City Clerk not later than March 11. Cost, \$60,000. Robert Haentze, chairman School Board Committee on Buildings.

HARTFORD.—Church Hill Dairy Company of Town of Herman, will erect factory.

MERRILL.—Claude & Starck, Madison, will prepare plans for new Carnegie building.

MILWAUKEE.—Kilbourn Estate is considering replacing of building destroyed by fire. F. M. Hoyt, attorney.

WATERTOWN.—The Lutherans of Johnson Creek will erect church, and O. C. Riebe, of this city, is preparing the plans. Cost, about \$13,000.

WEST ALLIS.—Council has ordered plans for \$25,000 eight-room school building.

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NOTICE TO CONTRACTORS.

Sealed proposals for enlargement of North wing of the State Veterinary College Building, Cornell University, Ithaca, N. Y., including construction, heating, plumbing, and lighting work will be received by E. L. Williams, Treasurer Cornell University, Ithaca, N. Y., until 12:30 o'clock on the 21st day of March, 1910, when they will be opened and read publicly.

Proposals shall be accompanied by a cer-

tified check in the sum of \$1,000 and the contractor to whom the award is made will be required to furnish Surety Company bond in the sum of \$10,000, within thirty days after official notice of award of contract in accordance with the terms of specification No. 1319. The right is reserved to reject any and all bids.

Drawings and specifications may be consulted and blank forms of proposal obtained at the State Veterinary College, Cornell University, Ithaca, N. Y., and 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. (1783-4)

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Sealed proposals for repairs and alterations in Library Building; changes to entrance porch of Training School Building at the State Normal School, Brockport, N. Y., will be received by Dr. Andrew S. Draper, Commissioner of Education, Capitol, Albany, N. Y., up to twelve o'clock noon on the 8th day of March, 1910, when they will be opened and read publicly.

Proposals shall be accompanied by a certified check in the sum of \$350 for Proposal No. 1, and \$75 for Proposal No. 2, and the contractor to whom the award is made will be required to furnish Surety Company bond in the sum of \$3500 for Proposal No. 1, and \$750 for Proposal No. 2, within thirty days after notice of award of contract, and in accordance with the terms of specification No. 1321. The right is reserved to reject any and all bids.

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Treasury Department, Office of the Supervising Architect, Washington, D. C., February 18, 1910.—Sealed proposals will be received at this office until 3 o'clock P. M. on the 30th day of March 1910, and then opened, for the construction complete (including plumbing, gas piping, heating apparatus, electric conduits and wiring), of the U. S. Post Office at Peru, Indiana, in accordance with drawings and specifications, copies of which may be obtained from the Custodian of site at Peru, Ind., or at this office at the discretion of the Supervising Architect.—James Knox Taylor, Supervising Architect. (1784-5)

Treasury Department, Office of the Supervising Architect, Washington, D. C., February 21, 1910.—Sealed proposals will be received in this office until 3 o'clock P. M. on the 31st day of March, 1910, and then opened, for the construction complete (including plumbing, gas piping, heating apparatus, electric conduits and wiring), of the U. S. Post Office at Brainerd, Minnesota, in accordance with drawings and specifications, copies of which may be obtained from the custodian of site, Brainerd, Minn., or at this office, at the discretion of the Supervising Architect.—James Knox Taylor, Supervising Architect. (1784-5)

Treasury Department, Office of the Supervising Architect, Washington, D. C., February 25, 1910.—Sealed proposals will be received at this office until 3 o'clock P. M. on the 4th day of April, 1910, and then opened, for the construction (including plumbing, gas piping, heating apparatus, electric conduits and wiring) of the U. S. Post Office at Hattiesburg, Mississippi, in accordance with drawings and specifications, copies of which may be had from the custodian of site, Hattiesburg, Miss., or at this office, at the discretion of the Supervising Architect.—James Knox Taylor, Supervising Architect. (1784-5)

Treasury Department, Office of the Supervising Architect, Washington, D. C., February 26, 1910.—Sealed proposals will be received at this office until 3 o'clock P. M. on the 5th day of April, 1910, and then opened, for the construction, complete (including plumbing, gas piping, heating apparatus, electric conduits and wiring), of the U. S. Post Office at Independence, Mo., in accordance with drawings and specification, copies of which may be obtained from the custodian of site at Independence, Mo., or at this office at the discretion of the Supervising Architect.—James Knox Taylor, Supervising Architect. (1784-5)

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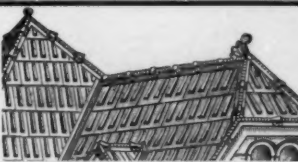


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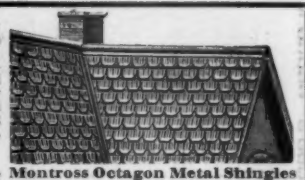


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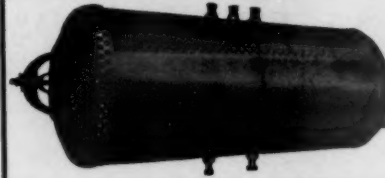
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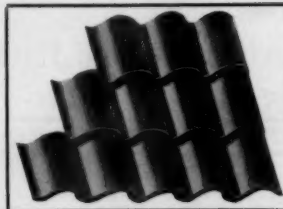
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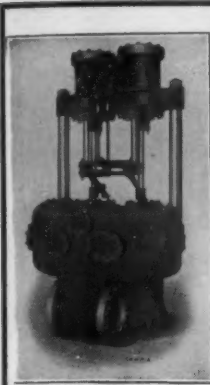
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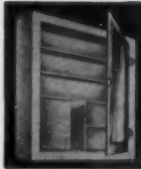
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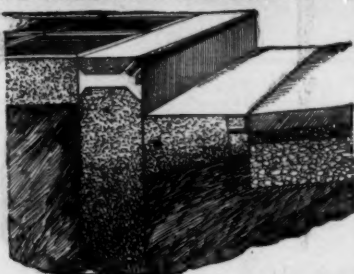
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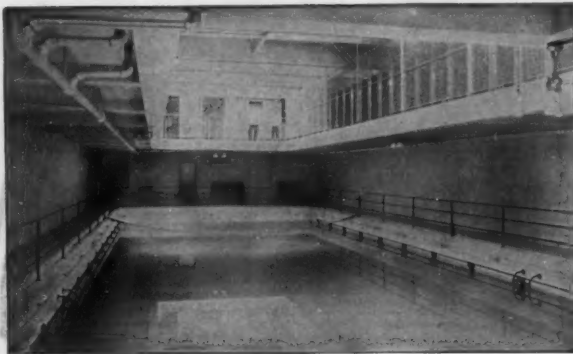
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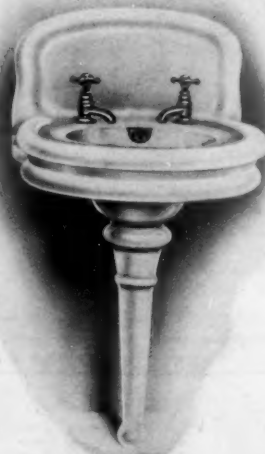


Plate F-104

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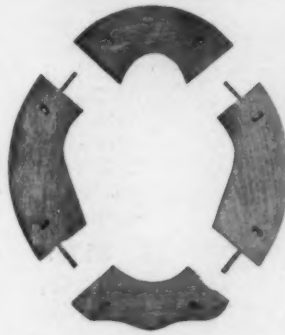
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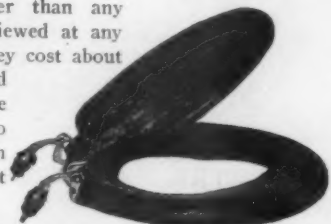


**This is the
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before it
is finished**

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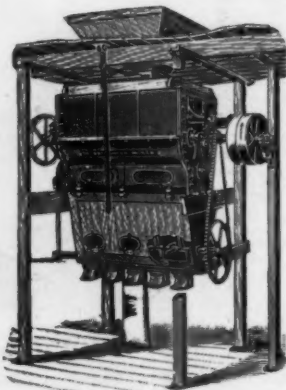
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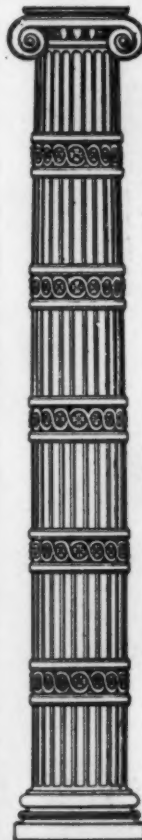
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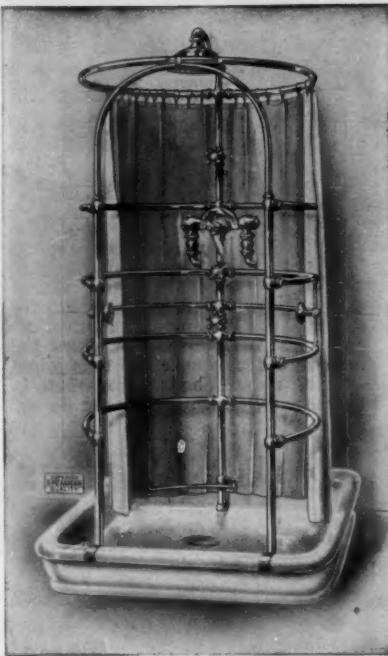


FIGURE 1020

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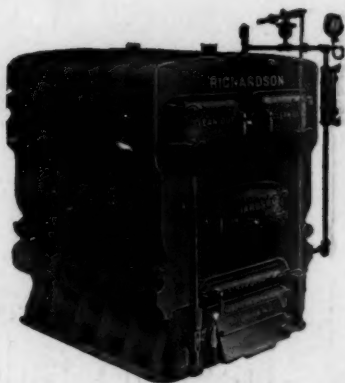
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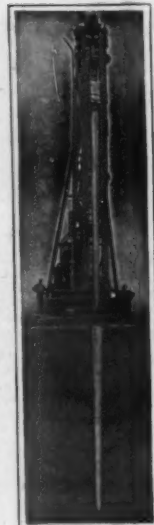
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Pittsburg, Union Bank Bldg.

St. Louis, 620 Chestnut St.

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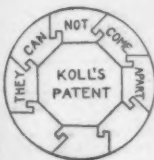
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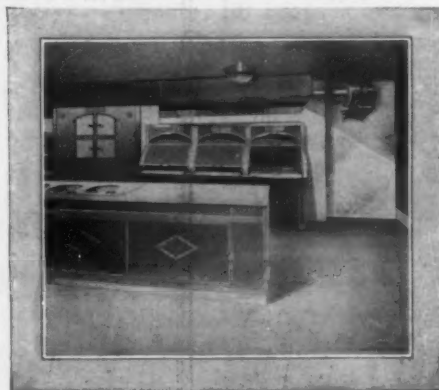
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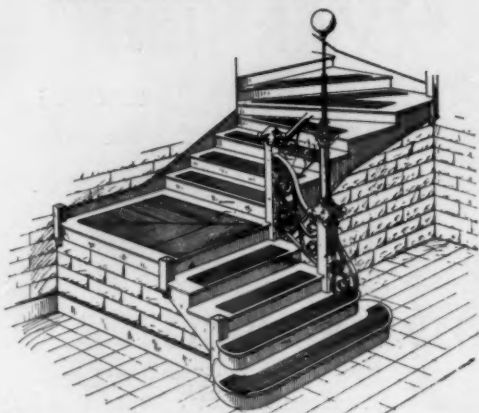
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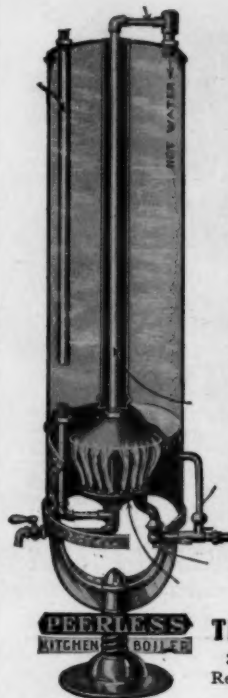
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Republic Mfg. Co., New Catalog, page 398.
Wolf Catalog H, pages 150-151.



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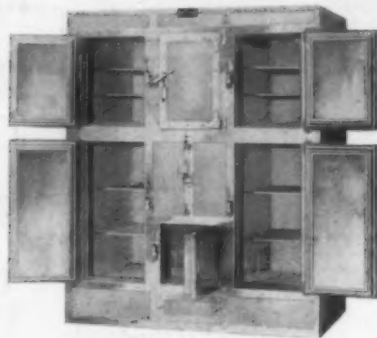
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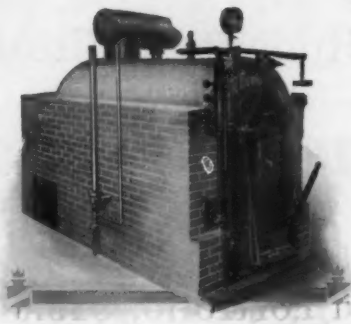
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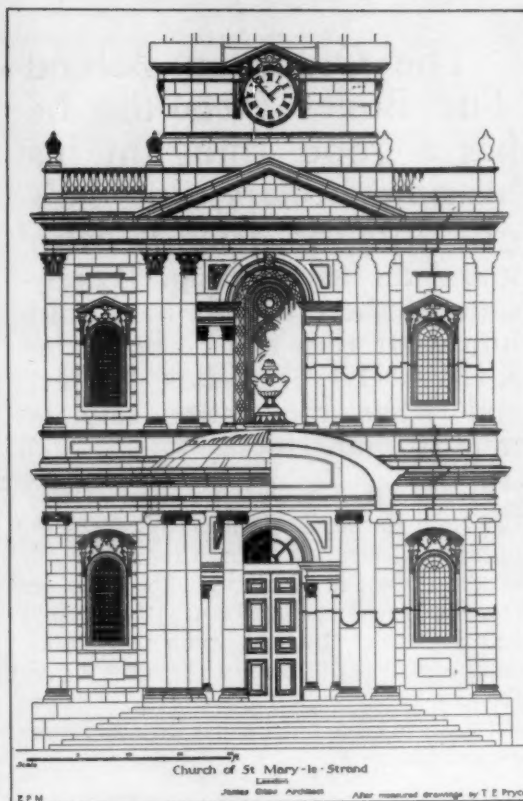
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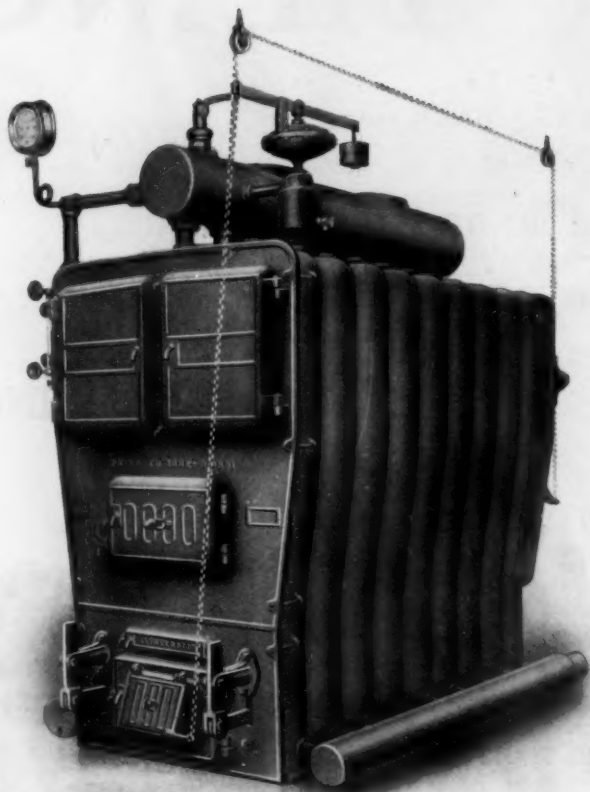


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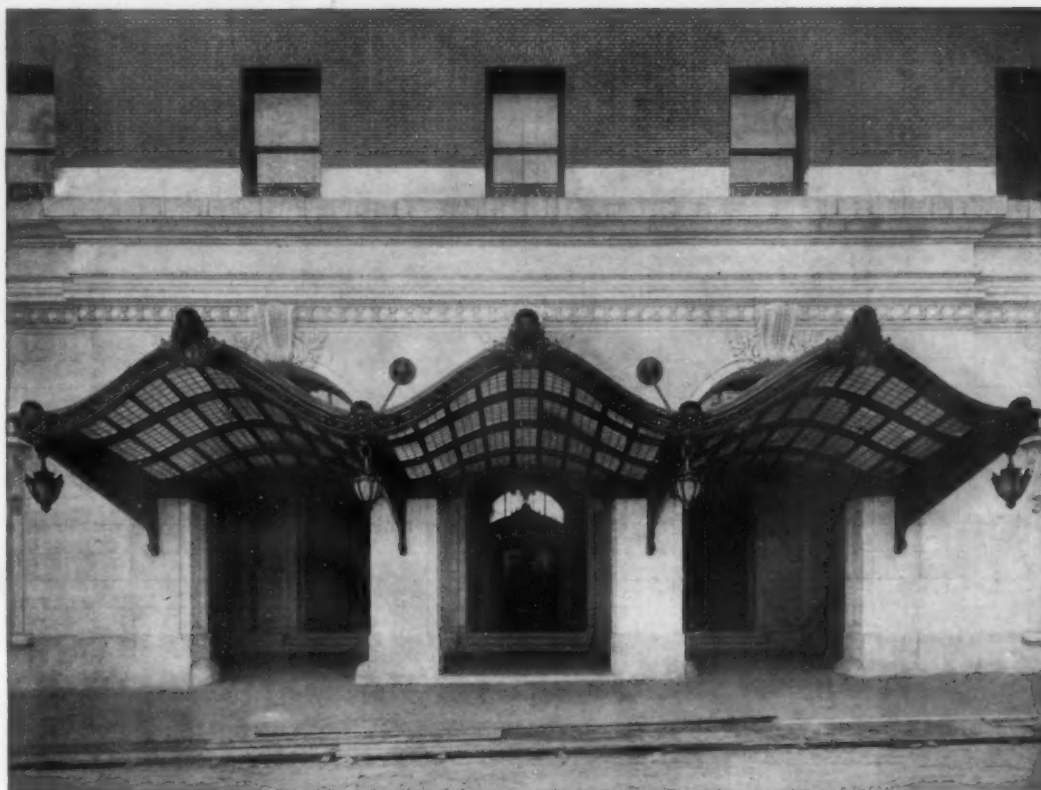
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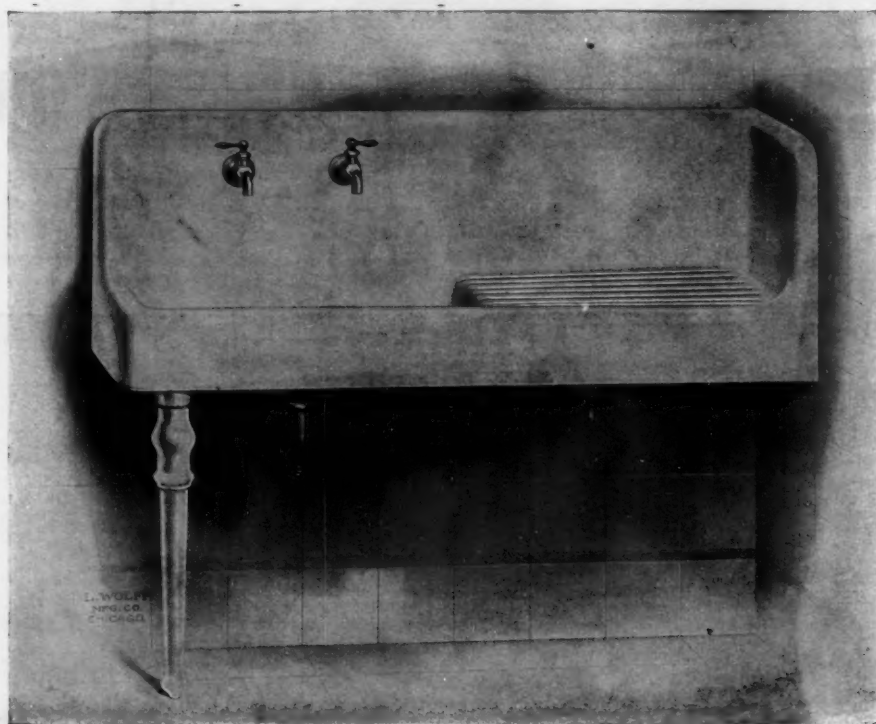
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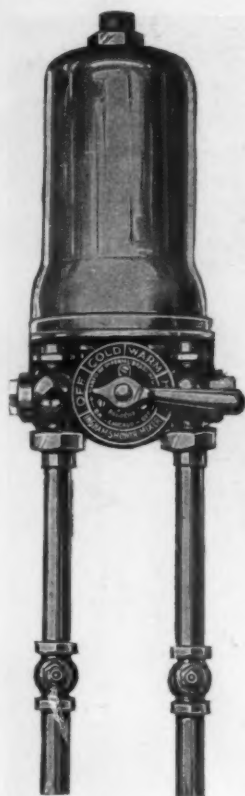
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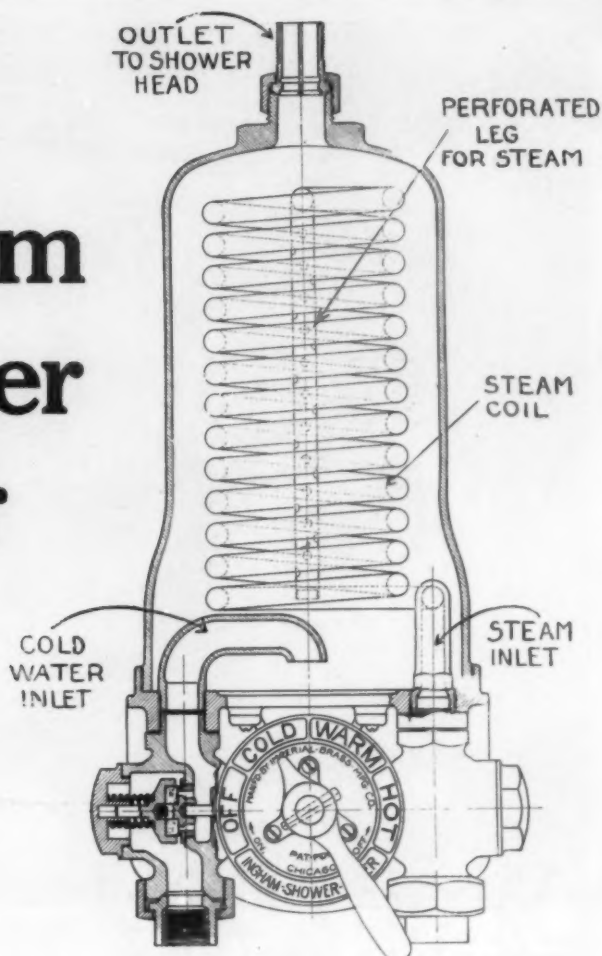
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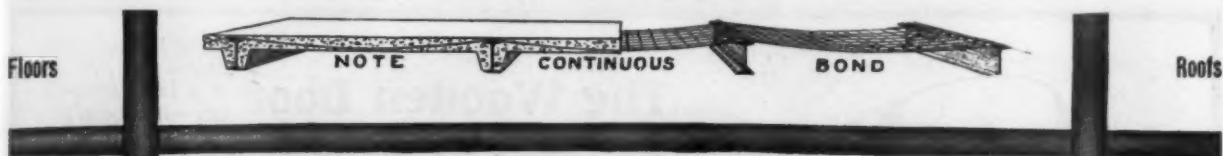
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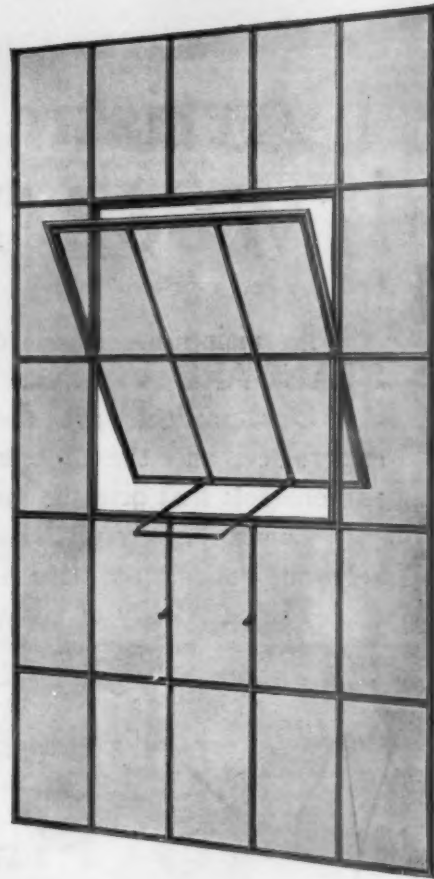
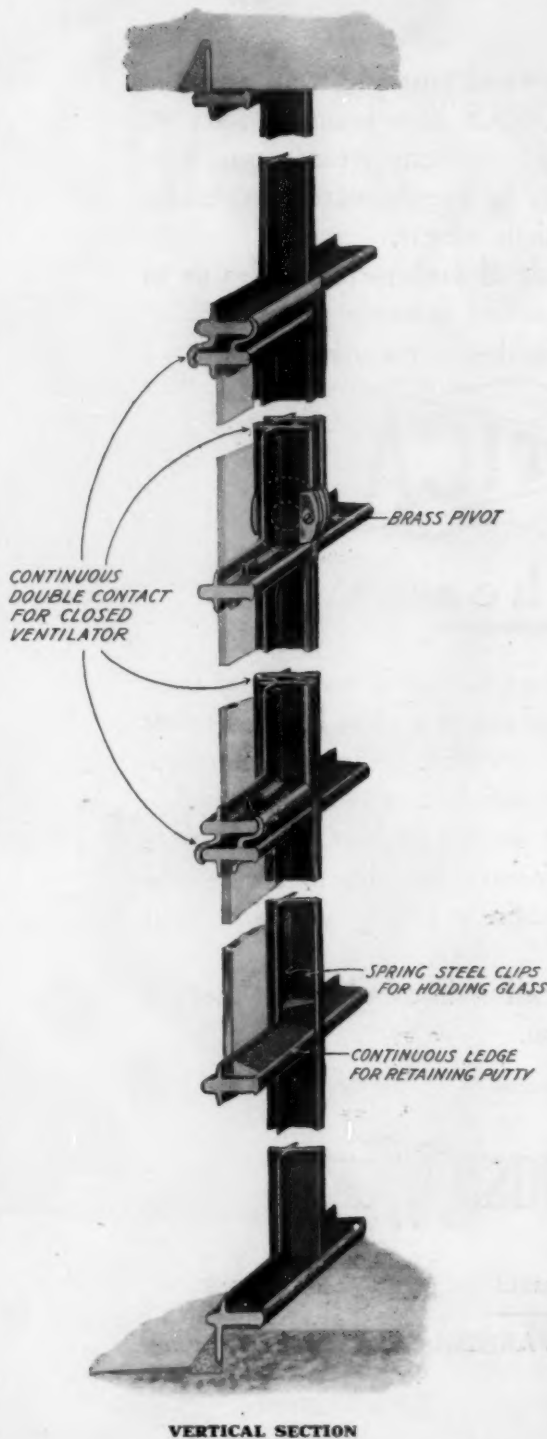
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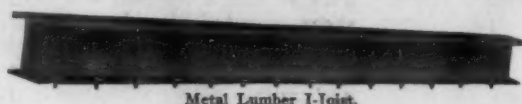
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- ARCHITECT'S PROPER SPHERE OF ACTIVITY, THE. 2 pages. By W. R. Ware. *The Architectural Record*, February, 1910.
- ARCHITECTURAL ABERRATIONS, LESSONS FROM. By John Beverly Robinson. Nine pages, illustrated. *The Architectural Record*, February, 1910.
- AUTOMOBILE CLUB, LONDON, THE NEW CLUB HOUSE OF THE ROYAL. Five pages, illustrated with drawings by Francis S. Swales. *The Architectural Record*, February, 1910.
- CHICAGO, UTILITARIAN ARCHITECTURE AT. By Peter B. Wight. Ten pages, illustrated. *The Architectural Record*, February, 1910.
- CHURCH FOR A SMALL CONGREGATION, BUILDING A. Twelve and one-half pages, illustrated, by Herbert Wheaton Congdon. *The Architectural Record*, February, 1910.
- COLLEGES, ARCHITECTURE OF AMERICAN, III, Princeton. By Montgomery Schuyler. Thirty-two pages, illustrated, with photographs and plans. *The Architectural Record*, February, 1910.
- COTTAGES AND THEIR GARDENS, COUNTRY. By C. E. Mallows. Seven and one-half pages, illustrated, with drawings. *The International Studio*, February, 1910.
- HAMPSTEAD GARDEN SUBURB, THE. By R. Randal Phillips. Three pages, illustrated, with half-tones and plans. *The Brickbuilder*, January, 1910.
- NEW THEATRE, ENGINEERING FEATURES OF THE. By Owen Brainard, C. E. Two and one-half pages, illustrated. *The New York Architect*, November, 1909.
- PLASTER CONSTRUCTION, EXTERIOR, V. By Frank Chouteau Brown. Five pages, illustrated with plans and photographs. *The Architectural Review*, October, 1909.
- STATE FAIR BUILDINGS AT SYRACUSE, N. Y., THE. Eight pages, illustrated with photographs and drawings. *The Brickbuilder*, January, 1910.
- TERMINAL STATIONS. By J. Vipond Davies & J. Hollis Wells. Four pages, illustrated. *The Western Architect*, February, 1910.

ILLUSTRATIONS

- Architects. One page exterior photograph. *The Western Architect*, February, 1910.
- HOTEL BELVEDERE, Baltimore, Md., Tap Room, Parker, Thomas & Rice, Architects. One page interior photographs. *The Brickbuilder*, January, 1910.
- HOUSE OF CHARLES FARNARD, Lake Forest, Ill., Howard Van Doren Shaw, Architect. Three exterior photographs. *The Western Architect*, February, 1910.
- HOTEL ROCHESTER, Rochester, N. Y., Esenwein & Johnson, Architects. One exterior photograph. *The Western Architect*, February, 1910.
- LE FURGY RESIDENCE, Winetka, Ill., Perkins & Hamilton, Architects. One exterior photograph. *The Western Architect*, February, 1910.
- LEICESTER, ENGLAND, HOUSE NEAR, Stockdale Harrison & Sons, Architects. Two pages exterior photographs and plans. *The Brickbuilder*, January, 1910.
- LUCKLEY, Wokingham, Berkshire, England, Ernest Newton, Architect. The Hall and the Dining Room. Two pages. *The Architectural Review*, October, 1909.
- MONTGOMERY, ALA., CHURCH OF THE ASCENSION. Cram, Goodhue & Ferguson, Architects. One page perspective drawing. *The Architectural Review*, October, 1909.
- NEW THEATRE, THE, New York, N. Y., Carrere & Hastings, Architects. Twenty-two exterior and interior photographs and plans. *The New York Architect*, November, 1909.
- NEW YORK STATE NORMAL COLLEGE, Albany, N. Y., Albert R. Ross, Architect; George L. Heins and Franklin B. Ware, State Architects. Two pages exterior photographs, one page plans. *The Brickbuilder*, January, 1910.
- NORFOLK Y. M. C. A., Norfolk, Va., Wood, Donn & Deming, R. E. Mitchell, Associate Architects. Two pages drawings. *The Architectural Review*, October, 1909.
- OLD NATIONAL BANK, Spokane, Wash., D. H. Burnham & Co., Architects. One page perspective drawing. *The Western Architect*, February, 1910.
- PUBLIC SCHOOL No. 10, Mt. Vernon, N. Y., Albro & Linderberg, Architects, Thomas R. Johnson, Associate. One page drawings. *The Architectural Review*, October, 1909.
- RESIDENCE OF C. H. HUTCHINS, Chicago, Ill., Horatio R. Wilson & Co., Architects. Two pages exterior photographs and plans. *The Western Architect*, February, 1910.
- RESIDENCE OF ELLIOT NORTON, Chicago, Ill., Howard Van Doren Shaw, Architect. Two pages exterior and interior photographs. *The Western Architect*, February, 1910.
- RESIDENCE ON HAVELOCK STREET, Toronto, Ontario, Burke, Horwood & White, Architects. One exterior photograph. *The Western Architect*, February, 1910.
- RESIDENCE OF JAMES MCLENAGHEN, Toronto, Ontario, Wickson & Green, Architects. One exterior photograph. *The Western Architect*, February, 1910.
- RESIDENCE OF F. E. WEBSTER, Hinsdale, Ill., Perkins & Hamilton, Architects. One exterior photograph. *The Western Architect*, February, 1910.
- RICHMOND, VA., RESIDENCE AT, Neff & Thompson, Architects. One page drawings. *The Architectural Review*, October 1909.
- RIVERSIDE, ILL., HOUSE AT, Tallmadge & Watson, Architects. One page exterior and interior photographs and plans. *The Brickbuilder*, January, 1910.
- SCHENLEY FARMS, PITTSBURG, PA., HOUSE AT; Janssen & Abbt, Architects. Two pages exterior photographs and plans. *The Brickbuilder*, January, 1910.
- SCHOOL, William R. Plunkett, Pittsfield, Mass.; Harding & Seaver, Architects. One page exterior photograph and plans. *The Brickbuilder*, January, 1910.
- ST. GEORGE, STATEN ISLAND, N. Y., HOUSE AT, Harry S. Waterbury, Architect. One page exterior photographs and plans. *The Brickbuilder*, January, 1910.
- WORCESTER COUNTY INSTITUTION FOR SAVINGS, Worcester, Mass., Winslow & Biglow, Architects. One double-page exterior photograph and plans and details. *The Western Architect*, February, 1910.
- BOERNE, TEXAS, PARISH CHURCH OF ST. HELENA, Cram, Goodhue & Ferguson, Architects. One page perspective, one page plans. *The Architectural Review*, October, 1909.
- BOSTON OPERA HOUSE, Boston, Mass., Wheelwright & Haven, Architects. One page interior photographs. *The Brickbuilder*, January, 1910.
- BROOKLINE, MASS., HOUSE AT, Frank Chouteau Brown, Architect. One page exterior photographs and three pages plans. *The Architectural Review*, October, 1909.
- BROOKLYN, N. Y., HOUSE AT, Herts & Tallant, Architects. Two pages exterior photographs and plans. *The Brickbuilder*, January, 1910.
- BUILDING FOR Y. M. C. A., Charlotte, N. C., Hook & Rogers, Architects. One page exterior photograph and plans. *The Western Architect*, February, 1910.
- FORD BUILDING, Detroit, Mich., D. H. Burnham & Co., Architects. One page exterior photograph and details. *The Brickbuilder*, January, 1910.
- HAMPSTEAD GARDEN SUBURB, ENGLAND, HOUSES. By Michael Bunney and C. C. Makins, M. H. Baillie Scott, Geoffrey Lucas, Arnold Mitchell, Herbert A. Welch and E. L. Lutyens, Architects. Two pages exterior photographs. *The Brickbuilder*, January, 1910.
- HIGH SCHOOL AT SOUTH ORANGE, N. J., Kitchell & Bartlett,

COMPETITIONS

While no definite award has yet been made, it is reasonably certain that Messrs. Rutan & Russell, the winners of the original competition, will be selected as architects of the new high school to be erected at Pittsburgh, Pa.

Professor Warren P. Laird, the adviser of the Board, is said to have re-examined the various plans submitted in the competition and renewed his recommendation that those of Rutan & Russell be accepted.

CORNELL UNIVERSITY OFFERS A PRIZE OF \$200 FOR BEST DESIGN FOR A NEW EMBLEM

The authorities of Cornell University invite competitive designs for a university emblem, and offer a prize of two hundred dollars for the most satisfactory. The competition is open to all, the 1st of June being named as the latest date for the submission of designs. These may be addressed to the chairman of the committee, Professor George L. Burr, who will be glad to answer any inquiries relative to the matter.

The University does not pledge itself to adopt the design which receives the prize, and it reserves the right to modify this design at its pleasure, or to borrow suggestion from any of the others. That the designs should be heraldic in character (i.e., should take the form of a shield, or escutcheon) is neither deprecated nor required; but no heraldic design will be adopted without submission to the criticism and correction of those expert in heraldry.

SOCIETIES

NEXT CONVENTION OF AMERICAN INSTITUTE OF ARCHITECTS TO BE HELD IN SAN FRANCISCO

At the recent meeting of the Executive Committee of the A. I. A., held at the Octagon, in Washington, it was, in pursuance of the direction of the last convention that the next meeting be held on the Pacific Coast, voted to hold the forty-fourth convention in San Francisco.

No date for the meeting has as yet been decided on, as the question as to the best time of year will first have to be settled.

It may be stated, however, that the next convention will probably be held either in November of this year or in January, 1911.

PITTSBURGH ARCHITECTURAL CLUB AWARDS PRIZES

A jury of architects has awarded the prizes in the Pittsburgh Architectural Club contest as follows:

The sum of \$500 donated by the Universal Portland Cement Company was distributed among six winners selected from the 36 contestants. They are: George R. Klinkhardt, of Brooklyn, first prize, \$250; Andrew H. Hepburn, of Boston, second prize, \$100; William G. Holford, of Brooklyn, third prize, \$50; Edward S. Campbell, of Pittsburgh, fourth prize, \$50; H. W. Peebles, of Pittsburgh, fifth prize, \$25, and Harry D. and Frederick B. O'Connell, of Pittsburgh, sixth prize,

\$25. John England, Jr., and Edward J. Hergenroeder, Pittsburgh, received honorable mention.

The judges were Edward Stotz, Henry Hornbostel, Henry McGoodwin, A. Beatty Orth and D. J. Allison.

PERSONAL

Mr. Lester Kintzing advises us that he has opened offices at No. 7 W. 42d Street, New York, for the general practice of architecture.

We are informed that Mr. N. A. Leech has been elected school architect for the City of Vancouver, B. C. Mr. Leech desires to receive catalogues and samples from the trade, and may be addressed in care of the Board of School Trustees, Vancouver.

Mr. Edward F. Stevens, formerly of Kendall, Taylor & Stevens, architects, Boston, Mass., announces that he has moved his offices from 93 Federal Street to No. 9 Park Street.

"TUNGSTELETS"

The above title is that of an ingenious device now being manufactured by the Tungstelet Company, 101 Walker Street, New York.

The great popularity that met the introduction of the Tungsten lamp has in a measure been halted, owing to the liability of the filament to become broken by vibration and sudden jar.

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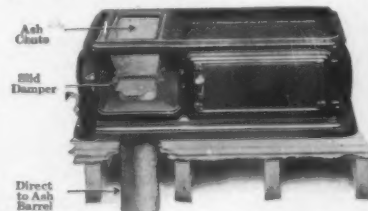
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BUILDING NEWS

To be of value this matter must be printed in the number immediately following its receipt, which makes it impossible for us to verify it all. Our sources of information are believed to be reliable, but we cannot guarantee the correctness of all items. Parties in charge of proposed work are requested to send us information concerning it as early as possible; also corrections of any errors discovered.

ALABAMA

BIRMINGHAM.—Shades Valley Country Club is planning to erect clubhouse. Plans being prepared. E. M. Tutwiler is interested.

Roebuck Springs Automobile-Golf Club will erect clubhouse at East Lake. A. T. Fulenwider, Ross C. Smith and others are interested.

Temple Emmanuel Congregation is planning to erect temple at Fifth Ave. and Seventeenth St.

GADSDEN.—Southern Iron & Steel Co. will erect eighty houses at Crudup mine.

GADSDEN.—Plans are being prepared for proposed school buildings to be erected at cost of \$50,000.

MOBILE.—University of Alabama is considering improvement of three halls. J. H. Johnson, Chairman Building Committee.

MOBILE.—Architects will submit plans to council for remodeling and repairing municipal building.

ARIZONA

GLOBE.—Gila County is considering erection of \$75,000 high school. F. F. Towle, Chamber of Commerce, is interested.

CALIFORNIA

LINCOLN.—High School Trustees have decided to call election on \$20,000 bonds for high school.

LOS ANGELES.—Morgan & Walls, 232 N. Main St., are preparing plans for erection of six-story building at corner of Los Angeles and Second Sts.

OAKLAND.—Security Bank and Trust Co. will at once erect building at corner of Eleventh Ave. and Broadway. Plans prepared.

OAKLAND.—City is considering bond election for erection of fire houses in annexed district.

PASADENA.—Pasadena Polo Association is having plans prepared for erection of clubhouse. F. G. Hogan, President.

SAN FRANCISCO.—Architects H. Geilfuss & Son, 150 Fulton St., have completed plans for immediate erection of \$60,000 apartment house on Leavenworth St.

SAN LEANDRO.—Architect W. H. Weeks, Cochrane Bldg., San Francisco, has completed plans for erection of \$40,000 building at Estudillo and Hayward Aves.

SANTA ANA.—Board of Education has purchased a site at Ross and Seventeenth Sts. for erection of grammar school.

SANTA MONICA.—F. C. Feinkle will erect \$7,000 apartment house at Grand Ave. and Ocean Front.

STANFORD.—Stanford students will erect \$50,000 Stanford Union Club House. J. E. Shelton, President Student Body.

VALLEJO.—Labor Temple will be erected in this city. George Cassidy, Chairman, Building Committee.

COLORADO

CANON CITY.—Local Elks are considering erection of \$50,000 home. W. H. Trout, Chairman, Building Committee.

GRAND JUNCTION.—Local Elks are considering plans by Jos. M. Sampliner for erection of \$110,000 theater and store building at Main and Sixth Sts.

TRINIDAD.—Colorado and Southern Railroad will erect depot in this city.

CONNECTICUT

NEW BRITAIN.—Architects W. H. Caldwell and W. P. Crabtree will prepare plans for additions to two schools.

NEW HAVEN.—Geometric Tool Co. will erect large addition to plant in Westville.

WILLIMANTIC.—Willimantic Machine Co. will erect large factory on Milk St.

DELAWARE

DELAWARE CITY.—Residents are urging erection of school house.

WILMINGTON.—Catholic Societies of city have accepted plans

for erection of cottage at Hope Farm Sanitarium. Bids will be asked at once. J. and M. Kennedy, architects.

DISTRICT OF COLUMBIA

WASHINGTON.—Imperial Theater Co. will erect \$60,000 theater on Ninth St. F. H. Kramer, President.

FLORIDA

PENSACOLA.—A. M. Avery will erect store and warehouse on West Garden St.

GEORGIA

ATHENS.—Southern Railway will at once construct proposed passenger and freight station. \$75,000 will be expended.

MACON.—Architect Frank Hopp has prepared plans for immediate erection of eight-story hotel at corner of Cherry and Fourth Sts.

SHELLMAN.—Citizens have voted \$5,000 bonds to erect school.

IDAHO

LEWISTON.—Bids will be received early in summer for erection of proposed federal building. Address Postmaster McEachron.

ILLINOIS

CAIRO.—Halliday Estate is considering erection of building on Eighth St. Architect Kusener is preparing preliminary sketches.

CHICAGO.—Plans for a four-story theater, store and office building, to be erected at corner of West Chicago and Forty-eighth Aves., have been completed by William C. Miller, Architect, 69 S. Forty-first Ave., for Morris Greenspahn. Cost, about \$80,000.

Continental Bolt & Iron Co., Twenty-second and Union Sts., has purchased site on Forty-fifth St. for erection of plant.

CHICAGO.—Sisters of Mercy will erect high school building at corner of Central Ave. and Washington Boulevard, Austin. Cost, \$100,000.

Architects Northman and Steinbach have completed plans for erection of \$100,000 building in Norwood Park for St. Hedwig's Polish Roman Catholic Asylum.

Bohemian Benedictine Order of Chicago will erect several buildings in Cicero.

FREEPORT.—Local Odd Fellows will erect \$40,000 temple.

MAPLEVILLE.—School District No. 72 is considering erection of high school.

INDIANA

BLOOMINGTON.—Ellettsville school board is considering erection of \$22,000 school building.

BROOKVILLE.—Franklin County Commissioners, with the County Council, have adopted plans by Elmer Dunlap for remodeling and extending courthouse.

ELKHART.—Elkhart Motor Co. is planning to erect addition to plant.

EVANSVILLE.—Schroeder Headlight Co. has had plans prepared for erection of two-story factory at Morgan Ave. and Read St.

INDIANAPOLIS.—Safety Board is considering erection of \$40,000 engine house at New Jersey and South Sts.

LOGANSPORT.—Fort Wayne & Wabash Valley Traction Co. has decided to erect passenger and freight station.

MISHAWAKA.—Kenyon W. Mix, Sales Promotion Co., will erect \$6,000 residence on Edgewater Drive.

SOUTH BEND.—Plans have been completed by Freyermuth & Maurer, Warner Bldg., for erection of school on Dubail Ave.

IOWA

CEDAR RAPIDS.—Olivet Presbyterian Church will erect edifice at corner of Second Ave. and Sixth St.

CEDAR RAPIDS.—Cedar Rapids Lodge No. 141 will erect building at Second Ave. and First St.



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DES MOINES.—Seventh Day Adventists are planning erection of \$60,000 hospital.

DES MOINES.—Iowa Lutheran Conference has decided to erect \$100,000 hospital in this city.

DES MOINES.—Erection of Masonic temple, to be the home of Pioneer and Capital Lodge, A. F. & A. M.; Corinthian Chapter, R. A. M.; Temple Commandery, K. T., and the Des Moines Consistory, is recommended in report of trustees of five bodies. Cost, \$215,000.

STORM LAKE.—Citizens will vote on \$36,000 bonds for erection of high school.

WATERLOO.—Nauman Co. will erect factory on Bluff St.

KANSAS

FORT SCOTT.—Fort Scott Wholesale Grocery Co. will erect large brick addition to warehouse on Wall St.

HUTCHINSON.—Plans have been prepared for erection of edifice for Congregational church.

INDEPENDENCE.—Specifications have been completed by Supervising Architect Jas. K. Taylor, Washington, D. C., for erection of postoffice.

KENTUCKY

LATONIA.—Trinity M. E. Church will erect \$15,000 edifice. Estimates taken in about eight days. Bausmith and Drainie, 901 Gerke Bldg., Architects.

LOUISVILLE.—Bernheim Distilling Co. will erect number of additions. Cost, \$20,000. Arthur Loomis, Todd Bldg., Architect.

LOUISVILLE.—W. M. Reeser will erect \$24,000 apartment house in Auditorium division of city.

John Klein, Fourth Ave., will erect five-story building at 456 S. Fourth Ave. Arthur Loomis, Todd Bldg., architect.

LOUISIANA

NEW ORLEANS.—City is considering purchase of site at Antoine and Laurel Sts. and erection of school house.

SHREVEPORT.—Commercial National Bank will erect \$300,000 ten-story building at Market and Texas Sts. Plans now being prepared. E. K. Smith, vice-president.

MARYLAND

BALTIMORE.—H. H. Wagner will erect large warehouse at corner of Pratt and Fremont Sts.

John A. Graham will erect five two-story dwellings, cost \$11,000, on Harford Ave. Geo. A. Gebb, Architect.

BALTIMORE.—Crescent Candy Co. will spend about \$25,000 on erection of factory at 17 and 19 S. Howard St.

Architect A. Lowther Forrest, 417 St. Paul St., is preparing plans for erection of \$100,000 theater at 206 Park Ave. for C. E. Whitehurst.

BALTIMORE.—Architect Edward L. Palmer has prepared plans for erection of \$12,000 residence for Arthur Thompson.

Architect C. N. Fritz, 11 East Pleasant St., has prepared plans for erection of two residences in Walbrook for T. E. Biddison. Cost, \$18,000.

Country School for Boys has accepted plans by Parker, Thomas & Rice for erection of school at Roland and Belvedere Aves.

James T. Whitehurst will erect \$22,000 residence on Mount Royal Terrace. Mottau & White, Professional Bldg., Architects.

BALTIMORE.—City & Suburban Savings & Loan Association will erect bank building at Patterson Park Ave. and Preston St. Albert Baker, President.

BALTIMORE.—Maurice Smerdlin will erect eleven two-story dwellings on Sixteenth St. Cost \$30,000. John Freund, Jr., 210 E. Lexington St., architect.

Architect C. M. Fritz, 11 E. Pleasant St., has completed plans for erection of three dwellings, cost \$7,500, on Frederick Ave.

MASSACHUSETTS

GLOUCESTER.—Architect Ezra L. Phillips has prepared plans for erection of addition to City Home.

NEW BEDFORD.—City is considering erection of school building in southwestern part of city. Cost, \$145,000.

MICHIGAN

DETROIT.—Anderson Forge & Machine Co. will at once erect \$750,000 plant on Jefferson Ave. Plans prepared. W. R. Anderson, General Manager.

MINNESOTA

ST. PAUL.—Architect J. W. Stevens, New York Life Bldg., has prepared plans for erection of \$30,000 building on Jackson St. for R. L. Gould & Co.

J. J. Corneveaux will erect \$10,000 residence on Summit Ave.

ST. PAUL.—Plans have been completed by Alban & Fisher, Architects, for erection of edifice at Eleventh and Minnesota Sts. for German Evangelical Church.

MISSISSIPPI

HATTIESBURG.—Bids will soon be received by Jas. Knox Taylor, Supervising Architect, Washington, D. C., for erection of proposed federal building.

MISSOURI

HERMANN.—Citizens have voted \$30,000 bonds for school improvements.

PLATTE CITY.—Citizens have voted to erect \$22,000 school.

ST. LOUIS.—Bell Oil Co. will erect four-story warehouse on Ferry St. F. C. Bretsnyder, 53 Ferry St., President.

Walter Medart, 3539 Sidney St., is considering erection of \$15,000 residence on Longfellow Boulevard.

NEBRASKA

OMAHA.—A. V. Drescher is considering erection of two more garages on Farnam St.

YORK.—Bids will be received until 2 p. m. Mar. 24, for erection of Odd Fellows Home. A. H. Dyer, Fremont, architect.

NEW JERSEY

BAYONNE.—Board of School Estimate will at once construct proposed \$170,000 school on W. Tenth St. Plans prepared. W. J. Tomlin, secretary.

DUNELLEN.—St. John's Catholic Church will erect large edifice. Father Dunphy, pastor.

HIGHTSTOWN.—Erection of public school building is being urged.

JERSEY CITY.—Hill & Stout, 1123 Broadway, New York City, have completed plans for erection of \$60,000 moving picture theater at Monticello and Harrison Sts.

Frost Veneer Seating Co. will rebuild plant destroyed by fire. A. H. Frost, President.

MONTCLAIR.—Local Lodge of Elks is considering erection of club house.

MORRISTOWN.—Y. M. C. A. is planning to erect \$100,000 building. W. W. Cutler is interested.

NEWARK.—Bids will be received until 3:30 p. m. March 22 for erecting Montgomery school. R. D. Argue, Secretary Board of Education.

Schloss, Held & Schloss, Ave. D and Astor St., will erect buildings at cost of \$35,000.

Architect A. H. Thompson, 222 Market St., has prepared plans for erection of number of buildings.

NEWARK.—Board of Education will receive bids March 22 for erection of proposed Montgomery St. school. Cost, \$155,800.

ORANGE.—Robert Wright has had plans prepared for erection of large garage on Cleveland St.

Orange Methodist Church has had plans prepared for erection of parsonage.

TEANECK.—John B. Carroll, of Fiss, Doerr & Carroll, has planned construction of \$100,000 bungalow.

TRENTON.—Plans are being prepared for erection of addition to plant of American Cigar Co. at Division and College Sts.

WAVERLY.—Turner Construction Co., 11 Broadway, New York City, has been awarded general contract for erection of five-story factory for S. Jones & Co., London, Eng. Howes and Morse, architects. Work will commence at once.

WESTFIELD.—Local Methodists are considering erection of \$60,000 edifice. Jackson & Rosencrans, 1328 Broadway, New York City, Architects.

NEW MEXICO

ANTHONY.—Berino-Anthony Farmer's Association will erect 1,000 ton warehouse. Plans being prepared.

SANTA FÉ.—De Vargas Hotel Co. will erect \$300,000 hotel. Site purchased.

TUCUMCARI.—Local Elks will erect home on East Main St.

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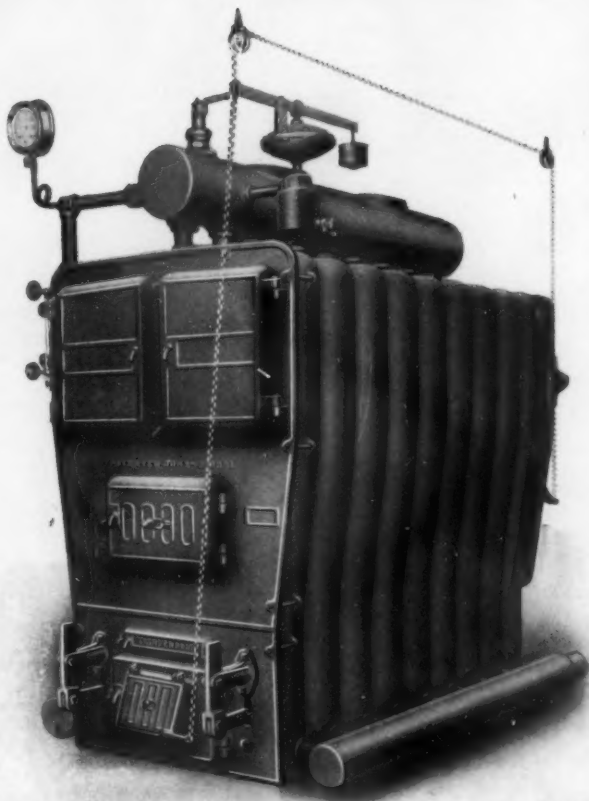


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NEW YORK

BINGHAMTON.—Bids will soon be opened for two-story parochial school of SS. Cyril and Methodius Church. Fr. Porubsky is interested.

BROOKLYN.—Turner Construction Co., 11 Broadway, New York City, has been awarded general contract for six-story and basement concrete factory building to be built for Gretsch Corporation at 104 Fourth St. Benjamin Finkensieper, Architect.

BROOKLYN.—Canarsie Council No. 4 Jr. O. U. A. M., is considering erection of home.

St. John's Church, Rt. Rev. Bishop G. W. Mundelein, rector, will erect parish hall, school and chapel at Lafayette and Vanderbilt Aves. Cost \$100,000.

HUDSON.—Fire Commissioners are considering erection of fire house on Academy Hill.

HUDSON.—Colonel C. S. Rogers has had plans prepared for erection of home at corner of State and Green Sts.

NEWBURGH.—Wm. Crabtree & Sons will erect factory on South William St.

NEW YORK.—E. Halligan, 120 W. 103d St., will erect six-story \$75,000 warehouse on Nineteenth St. W. H. Hallock, Jr., 343 Willis Ave., architect.

Edward Hezsnay, 522 W. 152d St., will erect \$5,000 dwelling on 238th St. Eli Benedict, 1947 Broadway, architect.

NEW YORK.—Architects Gronenberg and Leuchtag have prepared plans for erection of \$120,000 apartment house on Terth Ave. for Charles Hensle, 3210 Broadway.

NEW YORK.—J. J. Healy, Fourteenth St. and Broadway, will erect ten-story brick loft on Irving Place. Cost, \$70,000. Sommekfeld & Steckler, 19 Union Square, Architects.

Howard Construction Co., 641 Washington St., will erect two dwellings, cost \$17,000, on 235th St. T. H. Vought, 109 Lexington Ave., Architect.

NEW YORK.—Concetma Rapuso, 308 E. 102d St., will erect two two-story frame dwellings, cost \$7,000, on 215th St. Andrea Piptone, Vernon Ave., Long Island City, Architect.

Fleischman Bros. Co., 507 Fifth Ave., will erect twelve-story store and loft building at 126 W. Twenty-second St.

NEW YORK.—H. Cohen, 341 Fifth Ave., will erect twelve-story brick lofts at 74 Fifth Ave. Cost, \$400,000. Maynicke & Franke, 25 Madison Square, Architects.

Barnard Realty Co., 1947 Broadway, will erect six-story brick store and flat on Broadway. Cost, \$225,000. A. B. Kight, 1947 Broadway, Architect.

C. P. Bliss, 225 Fifth Ave., will erect \$13,500 dwelling on Andrews Ave. Squires & Wynkoop, 44 Courtland Ave., Architect.

W. C. Bergen, 180th St. and Andrews Ave., will erect \$10,000 dwelling on Aqueduct Ave. Serviss & Glew, 3063 Decatur St., Architects.

NIAGARA FALLS.—Turner Construction Co., 11 Broadway, New York City, has been awarded contract for erection of factory for Aluminum Co. of America. Private plans. Work will begin at once.

ONEONTA.—De Forest Keyes and M. G. Keenan will erect three-story building at once. Plans prepared.

PORT CHESTER.—Port Chester Lodge No. 863, B. P. O. Elks, will erect home. Jas. S. Merritt, Chairman Special Committee.

PORT JERVIS.—Architect H. F. Weaver, Honesdale, Pa., has prepared plans for erection of theater.

POUGHKEEPSIE.—General Contract has been awarded to the O'Donnell Construction Co., 19 North St., for erection and completion of Church of Our Lady of Mt. Carmel, Rev. N. Pavone, Rector, 95 Mill St. Architect N. Serracino, 1170 Broadway, New York City, will superintend work.

ROCHESTER.—T. J. Northway will erect \$20,000 brick garage on Exchange St.

SCHENECTADY.—Erection of annex to high school on Nott Terrace and need of another school is being urged.

NORTH DAKOTA

BERWICK.—Erection of school building is being considered.

FARGO.—A. N. McKellips will erect storage plant in this city.

FORBES.—Bids will be received until March 24, 10 a. m., for erection of school in Loraine District. Edwins & Eichefeld, Minneapolis, Architects.

FORMAN.—Sargent County will vote on erection of \$50,000 court house.

RUGBY.—Citizens will vote in near future on erection of court house.

OHIO

BUCYRUS.—Judge C. F. Schaber and Henry Volk have had plans prepared for erection of business block on N. Sandusky Ave.

CINCINNATI.—M. M. Robertson is considering erection of skyscraper on Seventh St.

COLUMBUS.—St. Philip's Episcopal Church, colored, will erect \$16,000 parish house. Plans prepared.

COLUMBUS.—Architect H. A. Linthwaite, Union National Bank Bldg., is preparing plans for erection of residence on E. Broad St. for John Foley, 2323 W. Broad St.

Architect E. E. Pruitt, Y. M. C. A. Bldg., has been retained by Glenwood Ave congregation to draw plans for erection of edifice on Highland Ave.

COLUMBUS.—Franklin County Commissioners have authority to erect \$90,000 tuberculosis sanitarium.

CLEVELAND.—Architect F. D. Skeel, Lennox Bldg., will prepare plans for erection of \$12,000 residence at Ashbury Ave. and 107th St. for W. C. Fisher.

DAYTON.—Knights of Pythias will erect temple on South Jefferson St.

DELPHOS.—Delphos School District has voted \$100,000 bonds for erection of two school houses.

EAST CLEVELAND.—Board of Education will ask for proposals about April 1 for the new school buildings. Architects Searles, Hirsch & Gavin are preparing plans.

FAIRPORT.—Architect Franz Warner, Citizens' Bldg., Cleveland, will prepare plans for proposed \$60,000 school.

LIMA.—Trinity Church has \$50,000 available for erection of edifice.

MANSFIELD.—Baxter and New Method Stove Companies will rebuild plants destroyed by fire.

MIDDLETOWN.—Architect A. Pretzinger, Reibold Bldg., Dayton, will prepare plans for erection of three schools. \$70,000 bonds will be voted.

MT. HEALTHY.—Citizens have voted \$50,000 bonds for construction of school house.

NEWPORT.—John J. Ryan, Kentucky Highlands, will erect \$75,000 theater at corner of Sixth and Monmouth Sts.

OTTAWA.—Architect Frank Packard, Hayden Bldg, Columbus, has nearly completed plans for erection of \$200,000 court house.

OKLAHOMA

ALTUS.—Jackson County has voted \$100,000 bonds for erection of court house.

ARDMORE.—Carter County will let contract March 30 for erection of \$100,000 court house.

ENID.—Citizens have voted \$200,000 bonds for erection of high school and \$5,000 for erection of jail.

MUSKOGEE.—Crane Co. will erect \$75,000 building at once at Commercial and Third Sts.

NORMAN.—Christian Church will erect \$25,000 edifice. E. B. Johnson, Chairman Special Committee.

OKLAHOMA CITY.—Carroll-Brough and Robinson will erect large wholesale house at once.

John E. Carson will erect five-story building at corner of California Ave. and Robinson St.

PENNSYLVANIA

ALTOONA.—Columbus Council No. 121, Young Men's Institute, is planning erection of home.

ASHLAND.—William A. Fink, Architect, 426 Franklin St., Reading, has completed plans and specifications for the rectory of St. Martius Church. Rev. A. Mistili, Rector.

BEAVER.—Ramsey Men's Club interested in erection of club-house.

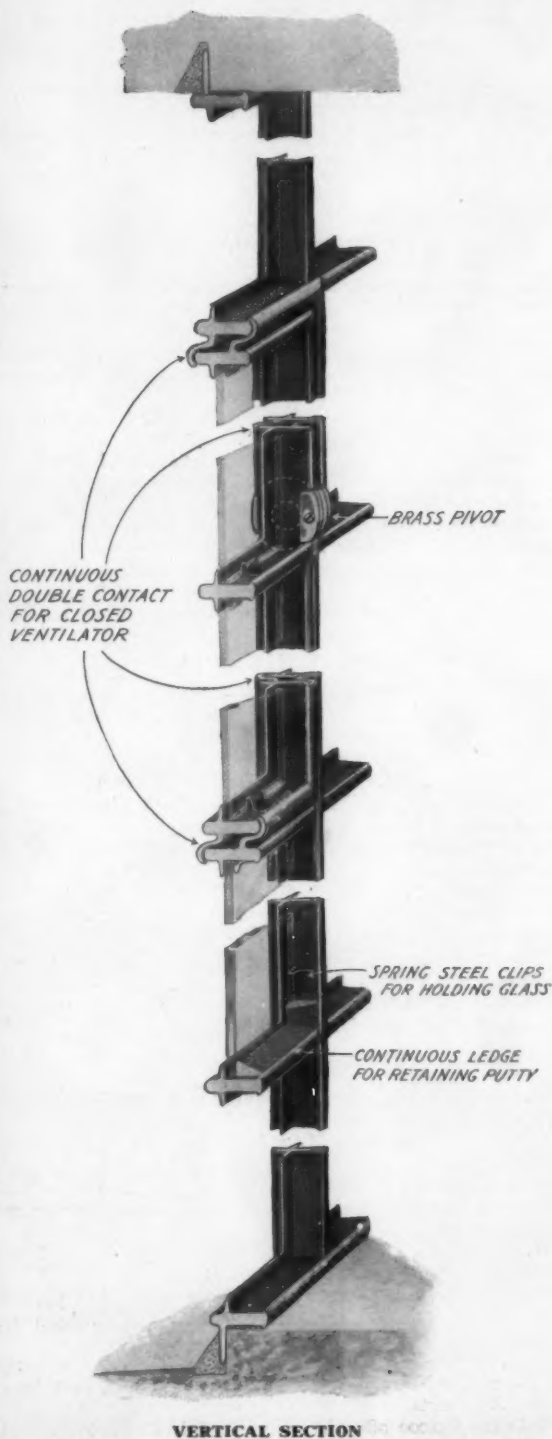
EAST GREENVILLE.—Town will erect public school and fire house.

GERMANTOWN.—Architect Charles M. Wells has completed plans for four-story brick apartment house to be erected at Newhall and Queen Sts. for Harry Wetherstine. Same architect is working on plans for three store buildings to be built at Main St. and School Lane.

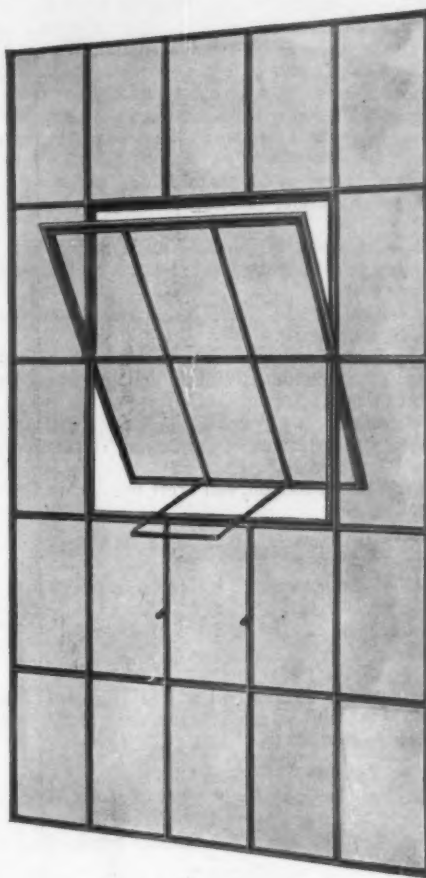
JENKINTOWN.—Architect Horace Trumbauer, Land Title Bldg., Philadelphia, has prepared plans for enlargement of clubhouse of Huntingdon Valley Country Club. Cost \$20,000.

OLD FORGE.—Bids will be received until 7 p. m., March 21 for erection of \$32,000 high school. J. A. Duckworth, 406 Coal Exchange Bldg., Scranton, Architect; T. J. Stewart, Secretary, School Board.

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PHILADELPHIA.—Architect Charles Barton Keen, 1220 Chestnut St., is designing three-story stone mansion and a garage, cost \$50,000, on Darby Road, Radnor, for John Sinnott.

Duhring, Okie & Ziegler, Bailey Bldg., are preparing plans for completion of buildings for Howard Hospital, at Broad and Catharine Sts.

Congregation of Summit Presbyterian Church, Germantown, has decided to erect \$35,000 stone structure at Greene St. and Westview Ave. John D. McIlhenny, Chairman of Building Committee.

PHILADELPHIA.—City Architect Powell, has prepared plans for erection of police station, fire house and patrol garage at 319 Race St.

PHILADELPHIA.—Architect Tilson R. Ker is taking bids for nineteen three-story houses, to be built in pairs, at Fifty-eighth St. and Baltimore Ave.

PHOENIXVILLE.—First Baptist Church will erect \$30,000 edifice. Rev. Dr. R. M. Green, Pastor.

READING.—Wm. Dietrich, Seventh and Chestnut Sts., is having plans prepared for erection of four-story apartment house at Third and Washington Sts.

SHAMOKIN.—Architects Jury, Kessler and Lee, will prepare plans for erection of residence at corner of Commerce and Orange Sts. for Mrs. Catharine Cardwell.

WINBER.—Rinard Bros., Saxton, will erect building at Graham Ave. and Nineteenth Sts.

SOUTH DAKOTA

PIERRE.—Board of Education will erect \$40,000 high school. **VERMILLION.**—State Board of Regents has adopted plans for erection of Carnegie library at State University.

TENNESSEE

CONCORD.—Presbyterian Church will erect edifice on Olive St. **ERWIN.**—E. N. Harrison will erect about twenty cottages outside of city limits.

TEXAS

ALVIN.—Santa Fe Company will erect \$30,000 depot on Gorden St.

ABBOTT.—School District has voted \$12,000 bonds for erection of school.

BEEVILLE.—Citizens will vote May 2 on \$75,000 bonds for erection of court house.

BRADY.—Brady National Bank will erect bank building at corner of public square.

BRADY.—Citizens have voted bonds for erection of brick school building.

EL PASO.—Architects Trost & Trost are planning erection of \$12,000 residence at corner of Upson Ave and Santa Fe St.

Jas. A. Dick Co. is considering erection of building on San Francisco St.

FORT WORTH.—Local Elks have accepted plans by Sanguinet & Staats for erection of \$60,000 building. Contract to be let at once.

FORT WORTH.—First Christian congregation has decided to erect \$100,000 church. Jas. Harrison, Chairman Site Committee.

GEORGETOWN.—Alumni Association and Board of Trustees of Southwestern University are planning to erect \$250,000 building. Plans being prepared.

GOLIAD.—Chas. Black, jeweler, will erect brick store at early date.

MARLIN.—Citizens have voted \$15,000 bonds for school improvements.

PLAINVIEW.—Pecos Valley Railroad will erect passenger depot at this place.

QUANAH.—McDonald Street Methodist Church will soon let contract for erection of \$25,000 edifice. Rev. Mr. Henson, Pastor.

SANDERSON.—Commissioners' Court has decided to erect \$25,000 school house.

SAN ANTONIO.—Unity Lodge No. 36, K. of P., is considering erection of \$800,000 castle. G. E. Hadley, Chairman Committee.

Plans have been prepared for erection of \$50,000 home for Hermann Sons, of this city.

SAN ANTONIO.—International Club is considering erection of \$500,000 home. Dr. Russell Caffery is member, Board of Directors.

WACO.—Two local branches of Masonic fraternity will erect \$40,000 temple at South Eighth and Washington Sts.

VIRGINIA

HAMPTON.—Poquoson District, York County, has voted \$8,000 for erection of school houses.

ROANOKE.—Plans are being prepared for erection of additions and improvements to State Sanatorium for Consumptives. Cost, \$40,000. Dr. E. G. Williams, President State Board of Health.

PETERSBURG.—T. Marshall Bellamy will erect country home on outskirts of this city. Neff & Thompson, Seaboard Bank Bldg., Norfolk, Architects.

PORTSMOUTH.—Norfolk County will erect \$40,000 school at Prentiss Park.

WASHINGTON

FREMONT.—Washington Interior Finishing Co. will erect factory. Bresemann & Durfee, Central Bldg., Seattle, Architects.

HILLYARD.—Frank G. Eames is considering erection of apartment house at corner of Wall St. and North Place.

KENTON.—Architect C. Spies is preparing plans for erection of \$50,000 building at corner of Derby and Kilpatrick Sts.

NORTH YAKIMA.—J. M. Perry is planning erection of two-story warehouse.

SEATTLE.—T. J. Nestor is having plans prepared for erection of \$50,000 store and hotel building at Sixth Ave. and Westlake Boulevard.

SEATTLE.—Sullivan and Considine will erect \$300,000 theatre at Third and Madison Aves. Wm. Kingsley, Empire Bldg., architect.

Architect V. M. Voorhees, Eltel Bldg., will let contracts about April 1 for erection of \$250,000 apartment house at corner of Roy St. and Bellevue Ave.

Architects Blackwell & Baker, Mutual Life Bldg., have completed plans for residence for W. W. Chapin.

SEATTLE.—Architect T. Carrigan, Oriental Bldg., will have plans prepared May 15 for erection of eight-story \$130,000 building at Fourth Ave. and Spring St.

School Board will erect \$20,000 school at W. Myrtle St. and California Ave. E. Blair, Architect.

Jos. R. Robertson is interested in rebuilding of block at corner of Sprague Ave. and Howard St. Cost, \$30,000.

SPOKANE.—Smith & Co. will erect business block on Riverside Ave.

WEST VIRGINIA

BLUEFIELD.—Architects Pedico & Gary have prepared plans for erection of \$35,000 building at Bluefield Ave. and Allen St. for Bluefield Hardware Co.

ELKINS.—Board of Control and State Humane Society has decided to erect State Home for Orphan Children in this city.

FULTON.—Board of Directors of the Fulton Bank have accepted plans of Giesey & Faris, Architects, Wheeling, for erection of \$10,000 banking building at corner of Fifth St. and National Road.

WELLSBURG.—Cross Creek School Board of Brook County and Beuter Township of Hancock County will erect \$8,000 brick school at Holliday's Cove.

WHEELING.—County Commissioners have decided to erect sanitarium at County Infirmary.

WHEELING.—Wheeling Mold & Foundry Co. will erect addition to plant. \$225,000 bonds will be issued.

WISCONSIN

APPLETON.—North Western Railroad is planning to erect depot.

BELOIT.—Morning Star Masonic Lodge, No. 10, will erect temple in this city.

MILWAUKEE.—O. C. Hansen Mfg. Co., 365 E. Water St., is considering erection of eight-story building at Milwaukee and Detroit Sts.

Architect C. H. Tharinger, 2324 State St., has prepared plans for erection of \$6,000 dwelling at 163 Martin St.

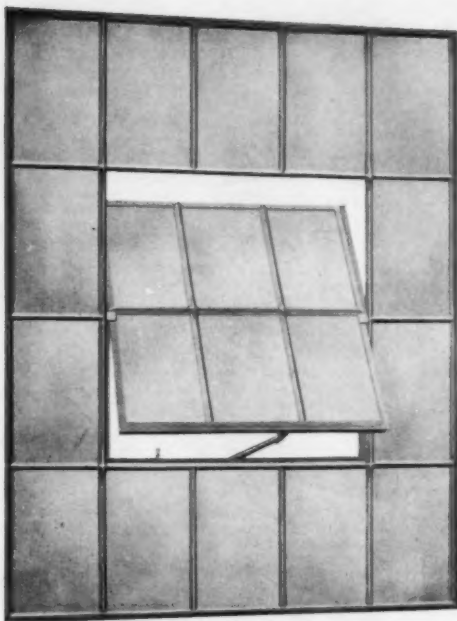
Architect Herman J. Esser, 82 Wisconsin St., has prepared plans for erection of eight-story building at Jackson and Michigan Sts.

MILWAUKEE.—Edw. Schuster & Co. will erect three-story building at Twelfth and Vliet Sts. Brust & Philip, 82 Wisconsin St., Architects.

Plans for \$30,000 office building for Adam Gettelman, to be erected on West Water and Second Sts., are being prepared by Architects Schnetzky & Son, 1318 Cedar St.

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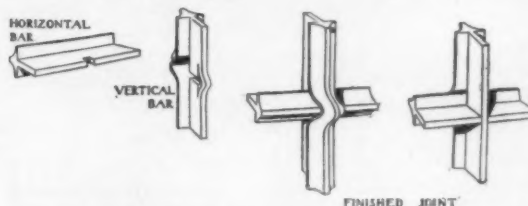
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Northern Pacific Freight House, St. Paul, Minn.

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Lehigh University Laboratories, So. Bethlehem, Pa.
Toledo Plate & Window Glass Co., Toledo, O.
Davenport Machine & Foundry Co., Davenport, Ia.
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Stroh Brewing Co., Detroit, Mich.
Metropolitan Electric Co., Reading, Pa.
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WANTED—A good draftsman, able in design and detailing; references required. Address Thomas G. Holyoke, 649 Endicott Bldg., St. Paul, Minn.

WANTED—First-class general draftsman, in Central Pennsylvania, speed and ability will be considered, rendering not required; state salary, experience and offices worked in recently. Address 85D, care American Architect. (1785-6)

WANTED—An experienced and competent architectural draughtsman, able to make complete working drawings from pencil sketches. Specifications, writing or perspective rendering not required. Send samples of work together with statement of experience, salary required, age, etc. C. Emlen Urban, Architect, Woolworth Building, Lancaster, Pa. (1785-T.F.)

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PROPOSALS

Treasury Department, Office of the Supervising Architect, Washington, D. C., February 18, 1910.—Sealed proposals will be received at this office until 3 o'clock P. M., on the 30th day of March 1910, and then opened for the construction, complete (including plumbing, gas piping, heating apparatus, electric conduits and wiring), of the U. S. Post Office at Peru, Indiana, in accordance with drawings and specifications, copies of which may be obtained from the Custodian of site at Peru, Ind., or at this office at the discretion of the Supervising Architect.—James Knox Taylor, Supervising Architect. (1784-5)

Treasury Department, Office of the Supervising Architect, Washington, D. C., February 21, 1910. Sealed proposals will be received in this office until 3 o'clock P. M. on the 31st day of March, 1910, and then

opened, for the construction complete (including plumbing, gas piping, heating apparatus, electric conduits and wiring) of the U. S. Post Office at Brainerd, Minnesota, in accordance with drawings and specifications, copies of which may be obtained from the custodian of site, Brainerd, Minn., or at this office, at the discretion of the Supervising Architect.—James Knox Taylor, Supervising Architect. (1784-5)

Treasury Department, Office of the Supervising Architect, Washington, D. C., February 25, 1910.—Sealed proposals will be received at this office until 3 o'clock P. M., on the 4th day of April, 1910, and then opened, for the construction (including plumbing, gas piping, heating apparatus, electric conduits and wiring) of the U. S. Post Office at Hattiesburg, Mississippi, in accordance with drawings and specifications, copies of which may be had from the custodian of site, Hattiesburg, Miss., or at this office, at the discretion of the Supervising Architect.—James Knox Taylor, Supervising Architect. (1784-5)

Treasury Department, Office of the Supervising Architect, Washington, D. C., February 26, 1910.—Sealed proposals will be received at this office until 3 o'clock P. M. on the 5th day of April, 1910, and then opened, for the construction, complete (including plumbing, gas piping, heating apparatus, electric conduits and wiring), of the U. S. Post Office at Independence, Mo., in accordance with drawings and specification, copies of which may be obtained from the custodian of site at Independence, Mo., or at this office at the discretion of the Supervising Architect.—James Knox Taylor, Supervising Architect. (1784-5)

Treasury Department, Office of the Supervising Architect, Washington, D. C., March 2, 1910.—Sealed proposals will be received at this office until 3 o'clock P. M. on the 11th day of April, 1910, and then opened, for the construction complete (including plumbing, gas piping, heating apparatus, electric conduits and wiring), of the U. S. Post Office at Ashtabula, Ohio, in accordance with drawings and specification, copies of which may be obtained from the custodian of site at Ashtabula, Ohio, or at this office at the discretion of the Supervising Architect. James Knox Taylor, Supervising Architect. (1785-6)

Treasury Department, Office of the Supervising Architect, Washington, D. C., March 5, 1910.—Sealed proposals will be received at this office until 3 o'clock P. M., on the 14th day of April, 1910, and then opened, for the construction complete (including plumbing, gas piping, heating apparatus, electric conduits and wiring), of the United States Post Office at Columbus, Nebraska, in accordance with the drawings and specifications, copies of which may be obtained from the Custodian of site at Columbus, Neb., or at this office at the discretion of the Supervising Architect.—James Knox Taylor, Supervising Architect. (1785-6)

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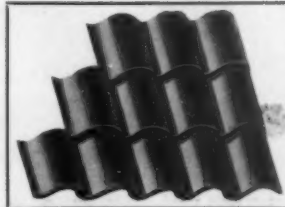
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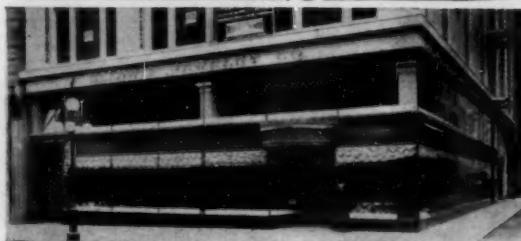
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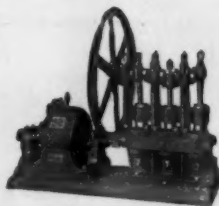
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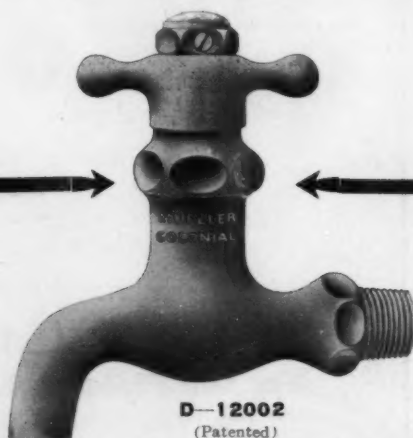
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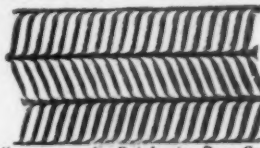
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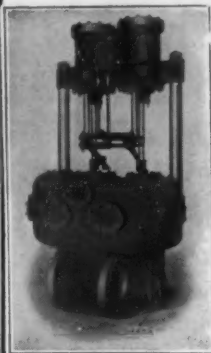
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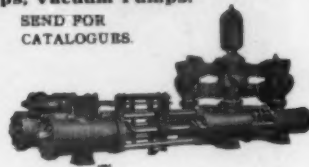
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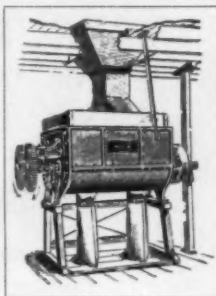
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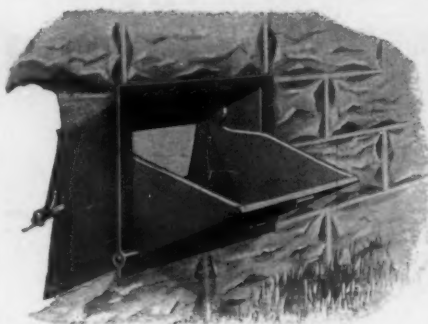
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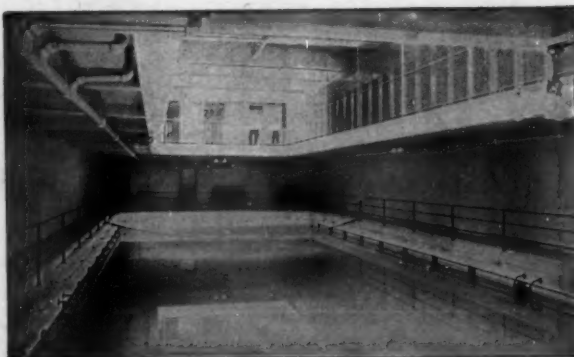
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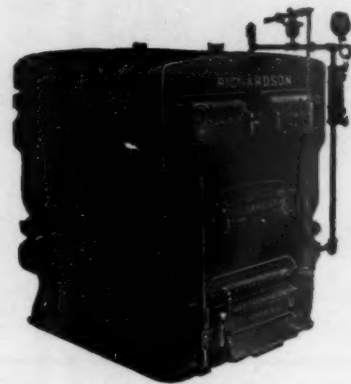
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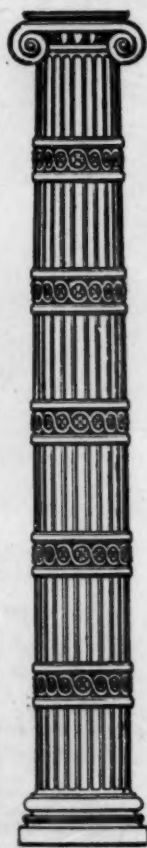
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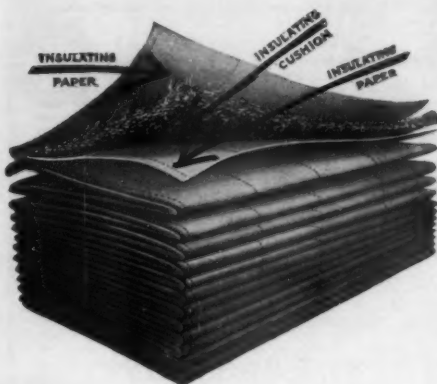
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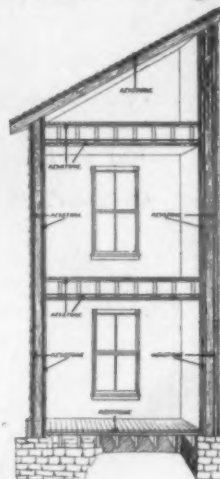
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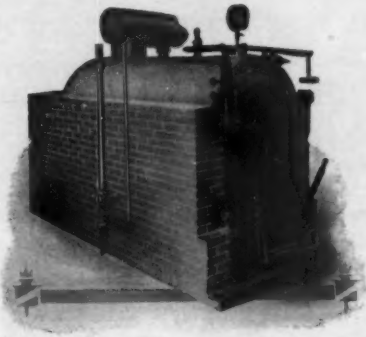
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In the Kewanee System, there is no attic or elevated tank to leak, freeze, overflow or collapse, or to mar the beauty of the scenery. Instead, a Kewanee Pneumatic Tank is placed in the **cellar** or buried in the **ground**. Water is pumped into this tank from any source of supply, with any good pumping power; and it is delivered to the fixtures by **air pressure**.

The Kewanee System is not an experiment—there are over 10,000 of our plants in successful operation. Every Kewanee System is thoroughly guaranteed—we take all the risk and responsibility.



Residence of Gen. H. O. Corbin. D. H. Burnham Co., Architects.

Mr. R. J. Bagby, whose residence is illustrated on this page, wrote: "The Kewanee System works perfectly and is satisfactory in every respect."

Rev. J. Wilbur Chapman, whose place is shown below says: "We are perfectly delighted with the Kewanee System which supplies our country house with water, and I wish again to thank you for sending me so fine an outfit."

Mr. B. M. Hord's compliment is this: "My Kewanee System is absolutely perfect."

Gen. H. O. Corbin said: "The Kewanee System works better than I thought possible—all like it very much."

Let us show you what we can do for **you**. We make no charge for our specifications and estimates. Our engineering department is at your service; and our broad practical experience will be of value to you.

Our illustrated catalogue will give you full information regarding the Kewanee System. It is free. Please mention this magazine when you write.

Kewanee Water Supply Company, Kewanee, Illinois.

1566 Hudson-Terminal Building, 50 Church Street, New York City.

1212 Marquette Building, Chicago, Illinois.

305 Diamond Bank Building, Pittsburg, Pa.



H. N. Edwards, San Jose, Cal.



Rev. Dr. J. Wilbur Chapman, Winona Lake, Ind.



B. M. Hord, Nashville, Tenn.

Three Bungalows supplied with water by Kewanee Systems

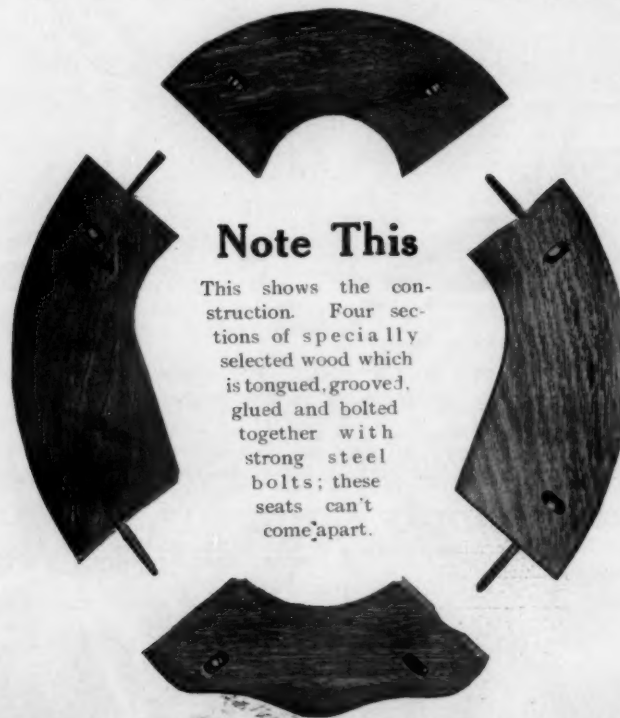
Give your clients what they should have—The Best There Is

Take, for instance, closet seats; suppose you specify just the ordinary seats; suppose these seats check, shrink, come apart at the joints and all that sort of thing—which the average seat is more than likely to do—what is there to it for you, anything but kicks, grouches and loss? Don't do it, as you value your good reputation as an architect or builder of responsibility. Specify the

Never Split Closet Seats

These seats are wholly and distinctly better than any other seats made by anyone anywhere. There are proofs and reasons without end that this is so and you are asked to take no chances in the use of them. Not only do

we say to you that these seats won't split, crack, come open at the joints or sliver, but we back it with a guarantee that runs for five years, a real guarantee that guarantees.



For Specification requirements see page 8 of our Catalogue "C"

NEVER-SPLIT SEAT COMPANY

EVANSVILLE, INDIANA

Some of the
Advantages of Standard Fire Proof Construction
of
TERRA COTTA HOLLOW TILE
From the Standpoint of Practical and Economical Construction.

INDEPENDENCE OF WEATHER.

Floor Arches of Hollow Tile may be laid at any time of year regardless of weather temperature, rain or snow.

SPEED IN PLASTERING.

Arches may be plastered the day after they are laid, if necessary to rush work.

BRACING FOR STRUCTURE.

Tile Arches assist the wind bracing of the structure because they fill the total depth of the steel beams, and act as horizontal bracing for the entire structure. In comparison with this, concrete floor slabs rest only upon the upper third of the beams, are usually one-third as deep as Tile Arches, can not efficiently transmit the horizontal stresses caused by wind pressure in high buildings, and, by reducing the efficiency of the floors as braces, increase the amount of steel necessary to provide against horizontal stresses.

MINIMUM WEIGHT.

Tile Arches weigh less per square foot than any other form of fire proof floor construction of equal strength, and, consequently, greatly reduce the dead load on the structural steel and foundations.

SOUND PROOF.

Hollow Tile Arches have usually from two to four cells and are therefore excellent non-conductors of sound. An extremely important consideration in hotels, hospitals, office buildings and structures of similar occupancy.

RAPID CONSTRUCTION.

The false work, or centering, required in setting Tile Arches may be removed within twenty-four hours after arches are laid. Centering for concrete floors must, under the most favorable conditions, remain in place at least ninety-six hours, and, in event of constant rain or low temperature weather, must frequently be kept standing two weeks or more, necessitating great delay in completing building, as contractors for other work can not proceed while centering remains in place.

ELIMINATION OF MOISTURE.

The cement mortar joints in Tile Arches dry out rapidly, permitting of the immediate laying of finish flooring and wood trim without risk of damage by moisture. Concrete floors are set in a wet, plastic condition, dry slowly, and the moisture remaining in them frequently causes the warping and buckling of floor finish and trim.

How can you be *sure* of the best and most economical fire-proofing—or either—unless you figure with the largest company in the world devoted exclusively to the manufacture and erection of *fire proofing for buildings?*

NATIONAL FIRE PROOFING COMPANY

Manufacturers of

TERRA COTTA HOLLOW TILE FIRE PROOFING

Contractors for Fire Proof Construction

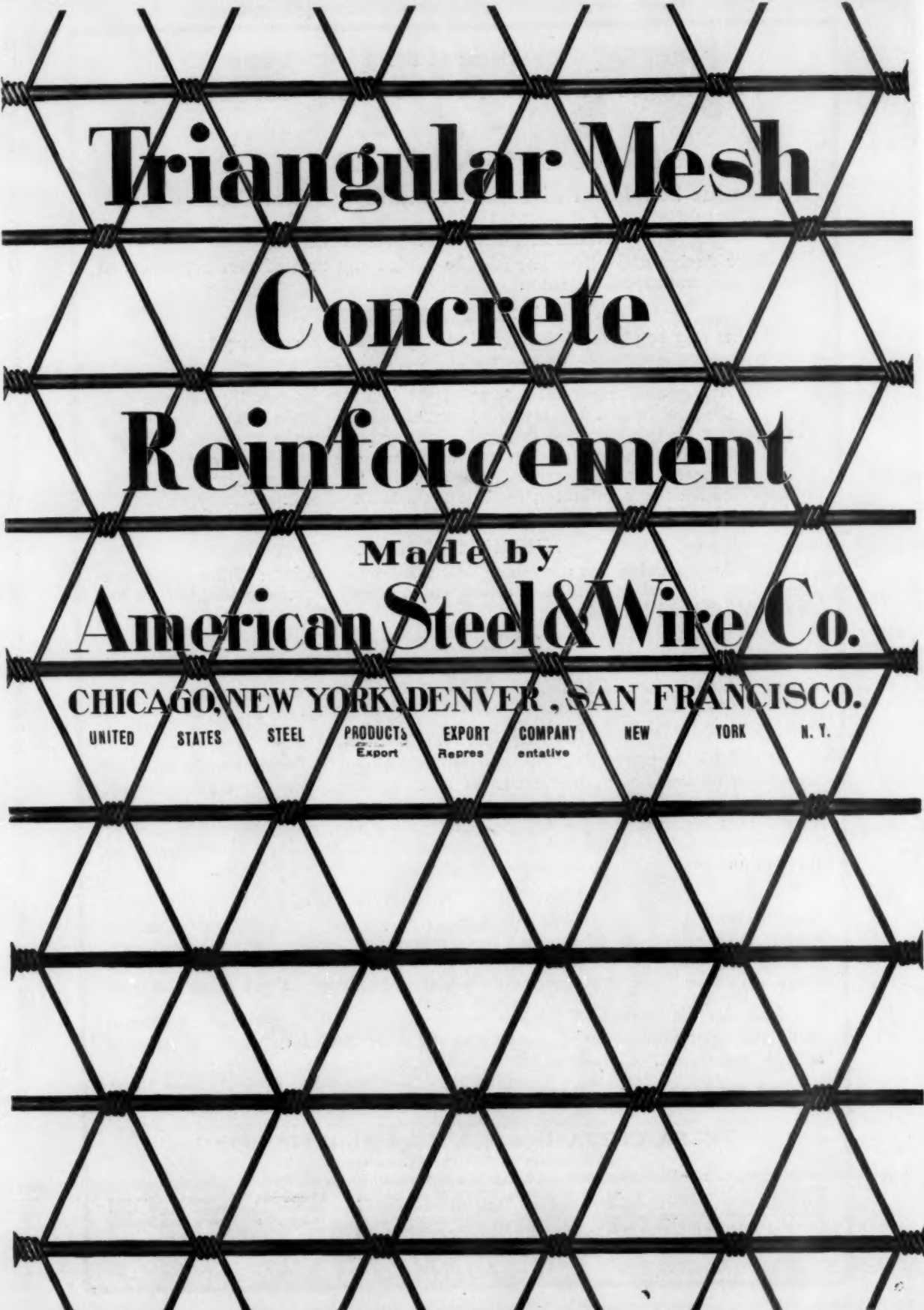
Capital Twelve and One-Half Million Dollars

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 Chicago, - - - Commercial Nat'l Bank Bldg.
 Philadelphia, - - - Land Title Building

Washington, - - - Colorado Building
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GOODRICH BUILDING
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Associate Architects, New York

The illustration shows one of the two entrance doorways of this building, constructed of

CREOLE MARBLE

From the Quarries of

THE GEORGIA MARBLE CO.

TATE, (Pickens Co.), GEORGIA

The warm blue graytones of this marble harmonize in an artistic way with the brick and stone used in construction. The texture of

CREOLE BLUE

as will be seen, permits of the most successful effects in chiseling, and the general result is attractive.

Barrett Specification Roofs



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Publishing Co.,
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Insist that the Specification be Followed!

FOR certainty of results, specify that your building shall be roofed *according to The Barrett Specification*. Don't specify in general terms.

Don't say "a Gravel roof," or "a Pitch and Gravel roof," or "a Slag roof" or "a Tar roof,"—that is inviting trouble. Say "according to The Barrett Specification." Insist that the full specification be followed.

That means you are ordering something *definite*. It makes slipshod workmanship easy to detect. It requires the use of the proper weight of felt and the proper grade and amount of pitch.

A Barrett Specification roof is certain to last 20 years and more. We know of many cases where such roofs have lasted over 30 years *without costing a cent for maintenance*.

The Barrett Specification prescribes with precision the way such a roof should be laid to give *maximum service*. It is a practical specification and to-day is used and endorsed by the leading architects and engineers. It is not based on academic theory, but on the best practice of the day.

Every engineer, architect and owner of buildings, should have The Barrett Specification on file. Copies of it will be sent free on request. Address our nearest office.

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KAHN TRUSSED BAR

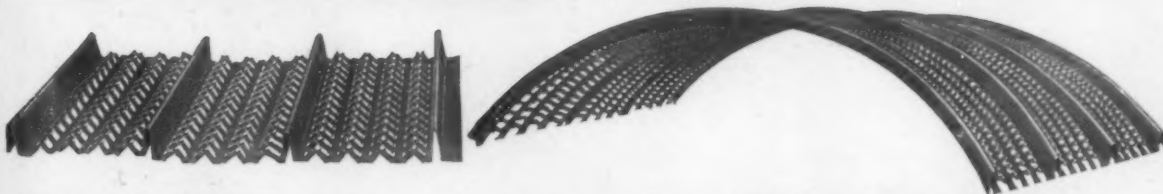
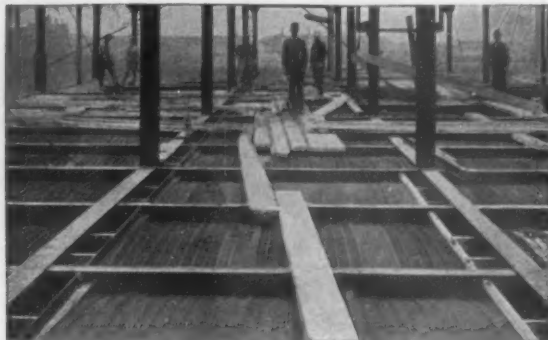
The Weakest Link

determines the strength of the chain—the weakest connection limits the safety of your concrete beam. That point is at the connection of the shear reinforcement to the horizontal bar.



NOTE
RIGID
CONNECTION

Insist on the **rigid connection of shear members**. Do not rely upon loose stirrups which depend on the questionable adhesion of concrete. Make the connection as strong as the shear members themselves. Insist on **Kahn Trussed Bars** and be sure of your results.



Hy-Rib Roofs and Arched Hy-Rib Floors

Hy-Rib sheets reach the job straight or curved as ordered. Merely set the Hy-Rib sheets in place—apply the concrete—the slab is complete. No centering or falsework is necessary.

Use Hy-Rib also in **Partitions, Walls, Siding, Ceilings and Furring**. Does away entirely with studs and centering.

Hy-Rib means permanent, fireproof construction. Saves insurance, repairs, and painting. Cannot rot or rust. More economical than wood sheathing or corrugated iron.

Write for free Hy-Rib Catalogue.

Other Kahn System Products include **Rib Metal**, a series of bars handled as one piece for slabs and walls—**Spiral Hooping** and **Cup-Bars** for columns—**Rib-Lath** and **Rib-Studs** for plaster and stucco work—**Trus-Con Products** for waterproofing and finishing concrete.

Catalogues and detailed suggestions free. Write us about your building.

Trussed Concrete Steel Company

618 Trussed Concrete Building

Detroit, Mich.

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Radiator Distinction

The fine dignity of a spacious home bespeaks the broad and well-ordered mind of the architect. His discriminating taste, his limber skill in touching in "a grace beyond the reach of art" are reflected no more surely than in his choice of the heating appliances.



Wisely selected radiation unifies the utilities of home making with the grace of architectural refinement.

The symmetry and grace of American Radiators add a final note to the carefully designed room. The elegance or the simplicity of the decorative scheme is sustained with the fine distinction which marks the skillful combining of art and utility.

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Electric
Elevator Signal

and Mechanical
Indicators
for Passenger Elevators
**ELEVATOR SUPPLY
and REPAIR CO.**

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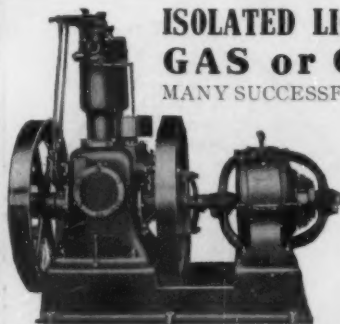
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Manufacturers of FAIENCE TILE for
FLOORS, WALLS, and FIRE-PLACES
CORRESPONDENCE SOLICITED



**ISOLATED LIGHTING PLANTS
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MANY SUCCESSFUL INSTALLATIONS.

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FURNISHED.
LET US FIGURE
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Reinforced Concrete
Structures Completed

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SOCIETIES

BROOKLYN, N. Y., CHAPTER, A. I. A.

The annual dinner of the Brooklyn Chapter, A. I. A., was held on the evening of February 28, at the Hamilton Club.

The evening was a very stormy one, but, in spite of the inclement weather a large number of the Chapter members and their invited guests assembled. The main topic discussed at this dinner was that of civic improvement with special reference to the plan submitted by a committee of the Chapter for a civic center in which is incorporated a bridge approach at Brooklyn. This plan received the endorsement of every one present. The members received with many evidences of approval the remarks of Park Commissioner Stover, who characterized the plan submitted as the only proper and logical one, and one that was the best solution of the complex problems submitted.

Much has been suggested by different local organizations of the Institute for civic betterments. These suggestions are the result of study and hard work on the part of the profession and represent valuable time. Unfortunately, these matters have in many instances progressed no further along towards practical adaptation, and owing to apathy and in some cases political expediency have been allowed to lapse into the realm of forgotten things.

In the present instance, however, the representative character of the body making the suggestion, the very practical nature of it, and the timeliness—before the cost of its accomplishment makes it prohibitive—leads to the belief that this valuable suggestion of the Chapter may become a reality and that Brooklyn will reap the benefit of a civic center and bridge approach that will command universal approval.

President Carrel and his associates in the Chapter have placed the matter squarely before the authorities, and with their endorsement and the general approval that has been given the plan, we look for its early start on the road to realization.

In addition to the remarks of Mr. Stover, above referred to, speeches were made by Mr. Irving K. Pond, president of the Institute; C. Grant La Forge, J. S. Barney, President Atkinson and Commissioner Bassett.

Like the annual dinners that have preceded it, this dinner of the Brooklyn Chapter was a social success, and served to accent the value of gatherings of this nature, and to promote that fraternal spirit without which an organization of artists cannot hope to prosper.

THE T-SQUARE CLUB, PHILADELPHIA

The Sixteenth Annual Architectural Exhibition of the T-Square Club, Philadelphia, Pa., will be from April 9 to May 8, both inclusive.

Following is in part a copy of a circular issued by the T-Square Club, outlining the plan of the exhibition:

The T-Square Club of Philadelphia, although fully appreciating the beneficial effect upon architects of frequent exchange of ideas, such as architectural exhibitions afford, feel that for this season their exhibition should be made of greater interest and benefit to the general public. Hitherto, it has been

the custom, in arranging architectural exhibitions, to include a large amount of material in which the laity had little or no interest, although it was, undoubtedly, of value in professional eyes. The coming exhibition will, instead, be one of domestic architecture only, as there are but few people to whom the subject of houses does not make a very potent appeal, this being perhaps especially true of country and suburban homes.

Our aim is to have the exhibition thoroughly representative of the best in American domestic architecture, and, to make a success of our project, the hearty co-operation of architects who have made a special study of the various problems involved is, of course, essential. In order that we may be assured of *your* interest and assistance, we trust that *our* idea may impress you favorably.

In connection with the exhibition, a year book and catalogue will be issued, in the form of an illustrated book on domestic architecture, the scope of which will be by no means limited, as our intention is to represent as far as possible each section of the United States.

Further descriptive matter as to exhibits, together with application form, may be had by addressing Lawrence Visscher Boyd, Chairman Exhibition and Catalogue Committee, 1215 Harrison Building, Philadelphia, Pa.

SOCIÉTÉ DES ARCHITECTES DIPLOMES

At the annual meeting of the American Group of the Société des Architectes Diplomes par le Gouvernement Français, the following officers were elected:

Joseph H. Freedlander, President; Cary S. Rodman, Vice-President; Francis A. Nelson, Secretary; Julian Clarence Levi, Treasurer. Executive Committee: Joseph H. Freedlander, Lloyd Warren, Donn Barber, Francis A. Nelson, Hugh McLellan. Delegate: Charles Butler.

The American Group of the Société des Architectes Diplomes par le Gouvernement decided at its annual meeting to hold during the coming year an international exhibition of architectural drawings, representative of the modern work being done abroad and in the United States. It was thought that an exhibition of this kind would be of interest to the profession and the public in general.

A committee was likewise appointed to take up the matter of competitions, constituting itself a "Bureau of Competitions." Its purpose was to co-operate with the American Institute of Architects, and particularly to take cognizance of the competitions being held abroad.

A delegate to the parent society was elected with instructions to acquaint the latter with the architectural movement in this country, and to keep in touch with the general trend of art matters abroad.

It was decided to continue the meetings of the Group in the form of monthly luncheons as heretofore.

ARCHITECTURAL CLUB EXHIBITION

The Seattle Architectural Club is planning to hold the exhibition of the Architectural League of the Pacific Coast in Seattle April 16-30.

The gallery of the Washington State Art Association in the Public Library Building and a good portion of the second floor of the library itself will be used to house the large collection of drawings. These represent the work of over seventy-five architects in the Eastern and Pacific Coast cities. Of course, the largest part of the exhibition will be the work of the local offices.

This is the third of the four annual exhibitions

planned by the league. The first was held in San Francisco in October, the second in Los Angeles the end of January, and the fourth will be in Portland early in June.

INDUSTRIAL

KAHN SYSTEM POCKET SCALE

Mr. S. M. Fechheimer, of the Trussed Concrete Steel Co., 618 Trussed Concrete Bldg., Detroit, Mich., has perfected a compact and accurate computing scale for reinforced concrete slabs and beams. The user of one of these scales is enabled to tell at a glance the exact thickness and reinforcement for practically every condition of span and loading.

This pocket scale is made of two superimposed discs of white celluloid, $2\frac{7}{8}$ inches in diameter, and can be carried in the pocket for ready reference. It constitutes an exceedingly ingenious device, and one a designer in concrete would do well to have at hand.

JOHNS-MANVILLE CO. CHANGE LOCATION IN CHICAGO AND BALTIMORE

Both the Chicago and Baltimore branches of the H. W. Johns-Manville Co., we are advised, have outgrown their present quarters, and about March 1 both will move to new locations.

The Chicago branch, now on Randolph street, will move to Nos. 27-29 Michigan avenue. A full stock of J-M products will be carried, thus assuring prompt shipments.

The Baltimore office, store and warehouse will be located at No. 30 Light street. Here the company will also keep on hand a large stock of J-M products.

ART BRONZES

To meet a demand for bronzes for decorative purposes, both on the exterior and in the interior of buildings, the Architects Standard Bronze Co., Metropolitan Building, No. 1 Madison Square, New York, are manufacturing a series of well-designed ornaments and figures. These are of pure copper bronze, cast hollow and filled with a composition. The color and finish is the same as the solid bronze.

This process makes it possible to produce these figures and ornaments at a greatly reduced cost without in any way, it is claimed, impairing the artistic effect. An illustrated pamphlet prepared by the Architects Standard Bronze Co. shows many examples of well-modeled ornaments and figures that offer suggestions for their use, and, which we are advised, can be had on application.

WATERPROOF BRICK STAIN

A man with an enquiring mind will find in the most unexpected places things that interest him and cause others to wonder why they never knew or noticed what now seems so well demonstrated.

For example, studying the absorptive quality of brick, and the ability of certain varieties to take up water to the extent of a pint to each brick, the statistical man will figure that a pint of water weighs a pound, and this added to the weight of the brick equals the added and

unnecessary load placed on the foundation. To obviate this and also to make a dry wall and thus avert the peril always present where there is dampness, a waterproofing compound—one that will exclude all dampness by preventing or overcoming the absorptive quality usually present in brick,—some waterproofing compound or application is necessary.

Samuel Cabot, Inc., of Boston, is a house well known for its many products. Among these is a brick preservative, specially prepared for waterproofing for which many advantages are claimed. This preservative is the basis of the waterproof brick stain—not paint—made by this company. Among the many advantages urged by the Samuel Cabot Co., Inc., for this stain are that it forms no skin or coating, does not therefore crack, peel or become chalky, that the stain sinks into the pores of the brick and thus imparts depth and richness of tone, and at the same time preserves the texture of the brick without either extreme of gloss or dullness.

An interesting pamphlet showing some of the most used shades of this stain can be had on application.

SPECIFICATIONS FOR REINFORCED CONCRETE

We believe every architect will appreciate the certainty and time-saving features of a set of specifications which he knows has been prepared by men whose experience and knowledge enable them to write authoritatively.

The specifications for reinforced concrete, prepared and published by the Trussed Concrete Steel Co., 618 Trussed Concrete Bldg., Detroit, Michigan, present in every essential feature all the knowledge gained through every form of modern cement practice, and should therefore be reliable.

These specifications have but recently been published, and, while the edition lasts, may be had on application.

REFRIGERATORS

The earlier idea in refrigeration, viz., that it was essential to have an airtight box, filled with ice, has given place to the scientifically constructed refrigerator. No longer are our senses of taste and smell offended by the food that has been "preserved" (?), only to become tainted with the odors of the varying contents of the "ice box."

A modern refrigerator, built on scientific principles of refrigeration and sanitation, such as is claimed for those made under the Bohn Syphon System, would seem to provide every desired feature.

The White Enamel Refrigerator Co., of St. Paul, Minn., has issued an attractive pamphlet which illustrates and describes the many different styles, adapted to different requirements, of refrigerators made by them. It demonstrates the possibility of giving refinement of line and form to articles of utility, and will be found to contain much information of interest on the subject of refrigeration.

A CORRECTION

In a recent issue in which was reviewed the "History of Sanitation," published by the Standard Sanitary Mfg. Co., Pittsburg, Pa., the price of this book was stated as \$3.00. This was an error—the price is \$1.50.



Delano & Aldrich, Arch'ts, N. Y.

Another Musical Conservatory sound-proofed by **Cabot's Deafening "Quilt"**

This is Margaret Olivia Hall, Northfield, Mass., (Russell Sage Fund) and the architects say: "Cabot's Quilt used in this building for deafening purposes has proved entirely satisfactory." Quilt is the only deadener that has the power of breaking up and absorbing sound-waves. It is scientific, sanitary and fire-retarding.

Full information on request

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Cabot's Shingle Stains, Waterproof Cement
and Brick Stains, Conserve Wood Preservative



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are heavy and strong. They give good satisfaction to the user. They are easily kept tight, and as all parts are renewable, they are practically indestructible. Do not merely ask for "Jenkins" Valves, but insist on having JENKINS BROS.; they alone bear our Trade Mark, and are guaranteed. May we send you our catalog? 3

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pleasantly, economically and effectively. Over 25,000 Churches have installed our reflectors and fixtures. Particulars on request. Write us.

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of Public Buildings, Hospitals, Warehouses, Stables, Cellars, etc., laid with

VAL de TRAVERS ROCK ASPHALT

Durable, Fireproof and Impervious. For estimates and list of works executed, apply to

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The Pigments in Dixon's Silica-Graphite Paint

are graphite and silica—both are inert and practically indestructible. The vehicle is first grade double boiled linseed oil. It's the best paint it is possible to make with the best record ever made. Write for 1909 edition of "Colors and Specifications."

JOSEPH DIXON CRUCIBLE COMPANY, Jersey City, N. J.

Contractors Sure To "Make Good"

Sure if they build roofs of Tin—*Absolutely Sure* if they use Scott's Extra Coated Tin Roofing.

Why Scott's? Because it's the only Tin Roofing manufactured in America with Hammered Open Hearth Base.

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REGISTERED
HAMMERED
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SCOTT'S EXTRA COATED ROOFING TIN

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OPEN HEARTH

ranks highest and best with America's foremost architects and builders because they know it will last as long as the building.

The Open Hearth Process removes surplus phosphorus and Sulphur so that the Tin can't readily corrode. And the terrific Hammering drives out every blow-hole, impurity and defect. That gives you Scott's Tin—the kind with the heavy, rich coating. Booklet "J" free on request.

FOLLANSBEE BROTHERS COMPANY

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ONLY AMERICAN MANUFACTURERS HAMMERED OPEN HEARTH ROOFING TIN

BUILDING NEWS

To be of value this matter must be printed in the number immediately following its receipt, which makes it impossible for us to verify it all. Our sources of information are believed to be reliable, but we cannot guarantee the correctness of all items. Parties in charge of proposed work are requested to send us information concerning it as early as possible; also corrections of any errors discovered.

ALABAMA

BAY MINETTE.—Bay Minette Land Company will erect homes for 50 families.

BIRMINGHAM.—City has purchased two sites for erection of schools. Plans for construction will be taken up at once.

DECATUR.—Citizens will vote April 18 on \$25,000 bonds for erection of fire house.

GADSDEN.—Atlanta & Gulf Portland Cement Co., Ragland, will erect large warehouse in this city. W. T. Brown, Ragland, is interested.

J. B. Wadsworth, C. S. Ward and S. S. Caldwell will erect business building at once at Broad and Third Sts. Beardon & Foreman, Chattanooga, architects.

MONTGOMERY.—Grand Lodge K. of P. will erect \$75,000 temple on Dexter Ave. T. D. Samford, Opelika, is interested.

TROY.—Erection of \$25,000 dormitory for girls at State Normal school is being urged.

TUSCALOOSA.—Council has chosen sites for proposed school buildings.

ARKANSAS

ELDORA.—City is considering erection of school.

FORT SMITH.—Bids will be received April 5 for erection of \$65,000 addition to high school. J. W. Kuykendall, Superintendent.

CALIFORNIA

CLAREMONT.—Citizens are considering erection of high school building.

LOS ANGELES.—Three-story, \$35,000 addition will be erected to J. R. Newberry Company's warehouse at First and Vignes Sts.

LOS ANGELES.—Broadway Investment Co. will erect \$350,000 office building at Broadway and Second Sts.

LOS ANGELES.—Plans have been prepared by Architect F. M. Meyer for erection of large residence at San Marino St. and Westmoreland Ave. for J. J. Hill.

LOS ANGELES.—R. T. Brodrick will erect \$25,000 three-story building at Main and Fifteenth Sts.

LOS ANGELES.—Six-story \$60,000 hotel and store building will be erected at corner of Flower and Sixth Sts. for F. C. Finkle. H. M. Patterson, Johnson Bldg., Architect.

OAKLAND.—Dr. John Snook, Berkeley, will erect \$8,000 home on Ocean View Drive. McDougall Bros., Russ Bldg., San Francisco, architects.

OAKLAND.—Board of Education will ask for \$2,800,000 for school needs.

Chamber of Commerce is considering erection of \$500,000 convention auditorium.

PASADENA.—Plans have been completed for \$1,000,000 Nazarene Church University to be established in northeast part of city.

POMONA.—Norman F. Marsh, 206 Broadwell Central Bldg., Los Angeles, is preparing plans for a \$50,000 church building to be erected by First Baptist Congregation.

SAN FRANCISCO.—Architect Sylvain Schnaittacher, 787 Market St., has prepared plans for erection of building at Kearny and Bush Sts.

Architects O'Brien & Werner, 68 Post St., have completed plans for erection of \$50,000 bath house on Forty-ninth Ave. for J. C. F. Mitchell.

COLORADO

GRAND JUNCTION.—Architect F. E. Edbrooke, 510 Opera House Block, Denver, is preparing plans for erection of \$100,000 building in this city.

DELAWARE

WILMINGTON.—Local Elks are considering erection of club house. P. J. Ford is interested.

Wilmington Yacht Club is planning erection of home. Enoch Moore, Jr., is interested.

DISTRICT OF COLUMBIA

WASHINGTON.—Army and Navy Preparatory School will erect \$30,000 building on Upton St. Prof. E. Swavely, principal.

W. C. Allard, 608 Seventh St. N. W., will prepare plans for erection of twenty houses on Florida Ave. N. W. for J. M. Henderson.

WASHINGTON.—As soon as site is secured, Municipal Architect Ashford will prepare plans for proposed home for Southeast Washington & Randle Highland Chemical Co.

Architect F. H. Brooke, Hibbs Bldg., has completed plans for erection of \$50,000 five-story brick dwelling on K St., N. W., for Ward Thoron.

WASHINGTON.—Senate has passed bill appropriating \$12,000,000 for erection in Washington of buildings for departments of State, Justice and Commerce and Labor.

FLORIDA

ARCADIA.—Citizens will vote on \$30,000 bonds to erect schools.

JACKSONVILLE.—J. P. Middlegras will at once erect ten-story hotel on West Bay St. Plans prepared.

MIAMI.—City considering election on \$75,000 bonds for erection of school building.

TARPON SPRINGS.—Sponge Exchange Bank will open bids April 1 for erection of two-story bank and office building. Bonniwell & Son, St. Petersburg, Architects.

GEORGIA

COMMERCE.—Presbyterian Church has decided to erect \$10,000 edifice.

GRIFFIN.—Bids will be received by Public Buildings Committee, Douglass Boyd, chairman, until Apr. 4, for erection of city hall. Harralson Bleckley, Empire Bldg., Atlanta, architects.

ILLINOIS

CHICAGO.—Northwestern Trust & Savings Bank, J. F. Smulski, president, is planning erection of business home at corner of Milwaukee Ave. and Division St.

Thos. E. Wilson, vice-president of Morris & Co., will erect \$50,000 dwelling on Woodlawn Ave.

CHICAGO.—Graham & Sons have announced completion of plans for \$150,000 bank building at 659 West Madison St., to be completed July 1.

CHICAGO.—St. Mel's Church will erect \$130,000 edifice at Forty-third Ave. and Washington Boulevard. Rev. P. J. McDonnell, Pastor.

St. Bernard's congregation will erect edifice at Stewart Ave. and Sixty-sixth St.

Architect L. M. Mitchell, 145 La Salle St., has prepared plans for erection of three-story \$150,000 building on Calumet Ave.

DANVILLE.—Palmer National Bank is considering erection of bank and office building. J. W. Wolford, 2 Main St., Architect.

EAST ST. LOUIS.—A. J. Nulson Realty Co. is having plans prepared for erection of \$200,000 building on Collinsville Ave.

EAST ST. LOUIS.—Scottish Rite Temple Association will erect \$25,000 auditorium at corner of Fourteenth St. and College Ave.

INDIANA

BLUFFTON.—Lancaster Township Advisory Board has adopted plans for new brick school building.

CANNELTON.—St. Mark's R. C. Church will erect \$8,000 school in Anderson Township.

DUNKIRK.—United Brethren Church will remodel present edifice and erect parsonage. Rev. W. H. Shepherd, pastor.

FORT WAYNE.—Griffith & Fair, Bass Block, will prepare plans for erection of \$15,000 home at corner of Wayne St. and Fairfield Ave. for C. F. Pfeiffer.

GOSHEN.—Lake Shore Railway Co. will erect \$24,000 freight station in this city.

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LAPORTE.—Local Elks are considering erection of \$25,000 home.

NEW ALBANY.—School Trustees are considering issuance of \$50,000 bonds for erection of additions to two schools.

PERU.—Bids will be opened early in April by Jas. Knox Taylor, supervising architect, Washington, D. C., for erection of proposed federal building.

IOWA

CEDAR RAPIDS.—Bids will be received until 10 a. m., Mar. 25, for erection of caretaker's house in Ellis Park. L. J. Storey, city clerk.

IOWA CITY.—State University will open bids March 16 for erection of \$215,000 physics building. Plans are under way for erection of \$75,000 wing to university hospital.

MUSCATINE.—Methodists will erect large edifice.

KANSAS

MCPHERSON.—Citizens will vote on \$40,000 bonds for erection of school building.

LAWRENCE.—Board of County Commissioners is considering plans for \$30,000 building for poor farm. A. L. Selig, Poor Commissioner.

WICHITA.—Bids will be received March 23, noon, for erection of \$150,000 auditorium for city. Richards, McCarty & Bulford, Ruggery Bldg., Columbus, Architects.

LOUISIANA

ALEXANDRIA.—Sixth Ward, Rapides Parish, has voted bonds for erection of schools at Lone Star, Big Hammock and Center Hammock.

NEW ORLEANS.—St. Bernard's Parish is considering erection of schools in two wards.

MARYLAND

BALTIMORE.—Stanislaus Russell will prepare plans for erection of garage on North Ave., for Walter Scott.

Architect Theodore W. Pietsch, 1001 American Bldg., will prepare plans for erection of seven-story apartment house at Eutaw Place and Laurens St. for Myer Rosenbush.

BALTIMORE.—E. Allen Sauerwein is having plans prepared by R. T. Sauerwein, architect, for a building to be erected at 232 and 234 North Howard St.

Louis Levi, 610 American Bldg., architect, will receive bids until Mar. 16 for new clothing factory to be erected for L. Grief & Bro., at corner of Ashland and Milton Aves.

Col. L. B. McCabe will erect four semidetached residences on York Road, at Govans. Cost, about \$12,000. C. H. Anderson, architect.

Architect H. C. Aiken, 213 North Calvert St., has completed plans for erection of two dwellings, cost, \$5,000, for Forest Park Co.

BALTIMORE.—Plans have been drawn by James R. Forsythe, architect, 232 S. Paul St., for a four-story \$30,000 brick store and flat building to be erected at 228 and 230 N. Howard St. for H. R. Eisenbrandt & Son, Charles and Lexington Sts.

Revised plans for \$25,000 Enoch Pratt Branch Library No. 14 have been completed by Ellicott & Emmart, architects, 1101 Union Trust Bldg., and bids will be received at once.

BALTIMORE.—Lenox Country Club is considering erection of \$20,000 club house. I. Sommerfeld, President.

Theodore W. Pietsch has completed plans for erection of large residence at Cleveland Ave. and Dorchester Road for M. F. Barre.

MASSACHUSETTS

CAMBRIDGE.—Trustees of Andover Theological Seminary have adopted plans of Allen & Collins for the new seminary buildings, which are to be erected between Francis St. and Divinity Place.

HOLYOKE.—Local Masons will erect \$125,000 temple at Maple and Appleton Sts.

HOLYOKE.—Special Committee will recommend erection of \$55,000 school building in Ward 4. N. P. Avery, mayor.

LYNN.—A. F. and A. G. Foster will erect business block at 223 Union St.

LOWELL.—Geo. R. Dana will erect modern garage at East Merrimack and Stackpole Sts.

LOWELL.—Dr. G. J. Constantineau will erect four-story apartment house at corner of Pawtucket and Mt. Washington Sts.

MARBLEHEAD.—New England Telephone & Telegraph Co. will erect office building on Pleasant St.

NORTH BROOKFIELD.—Oxford Linen Mills will erect two factory buildings at cost of \$500,000.

SPRINGFIELD.—Springfield Boys' Club is considering plans for erection of \$36,000 building at Chestnut and Ferry Sts.

TISBURY.—Town has voted to erect \$27,000 school building.

MICHIGAN

DETROIT.—Winton Motor Carriage Co. has purchased site on Woodward Ave and will erect a first-class garage. Thos. W. Henderson, 736-740 Woodward Ave., manager.

Clayton-Lambert Mfg. Co., Beaubien St. and Trombley Ave., will erect large addition to its plant. Malcomson & Higginbotham, 404 and 405 Moffat Bldg., architects.

SAGINAW.—Arthur Hill high school trustees have \$100,000 available for erection of trade school.

MINNESOTA

BRainerd.—Supervising Architect Jas. K. Taylor, Washington, D. C., has prepared plans for erection of proposed post office.

MINNEAPOLIS.—Council has purchased site in Twenty-seventh Ave., N. E., for erection of fire house.

ST. PAUL.—Plans are being drawn by Architect E. J. Donohue, 58 Gilfillan Block, for the erection of \$60,000 three-story fireproof building on corner of St. Peter St. and College Ave. for R. A. Donohue Estate.

Plans for erection of a Swedish home for the aged are being considered by Board of Directors of Lyngblomst Society.

TWO HARBORS.—Architect Austin Terryberry, 714 Palladio Bldg., Duluth, is preparing plans for \$25,000 store building for Shreiner Bros. & Moulton.

MISSISSIPPI

McCOMB CITY.—Greenlaw Lumber Co., Ramsey, La., will erect factory in East McComb. Site purchased.

MERIDIAN.—Mississippi Medical Association has decided to build \$50,000 college with hospital attached.

TUSCUMBIA.—G. B. Parker, Cullman, is considering erection of six-story office building at Main and Fourth Sts.

MISSOURI

KANSAS CITY.—J. H. Van Closter will erect five-story hotel on Wyandotte St.

KANSAS CITY.—A. Armenia will erect four-story, \$75,000 apartment building at corner of Linwood Boulevard and Highland Ave.

MOBERLY.—Bids will be received after March 15 for erection of \$65,000 edifice for St. John's R. C. Church. Rev. R. J. Carney, Pastor; Barnett, Haynes & Barnett, Century Bldg., St. Louis, Architects.

ST. JOSEPH.—Architect Walter Boschen, 22 Com. Bk. Bldg., has completed plans for erection of \$160,000 apartment house at Eleventh and Charles Sts.

WALNUT GROVE.—Green County Commissioners are considering erection of \$25,000 school, election on bonds will be held.

NEBRASKA

FREMONT.—S. S. Van Horne is considering erection of three modern houses on W. Tenth St.

HASTINGS.—Catholic Congregation is considering erection of \$50,000 edifice.

HOLLEDGE.—Burlington Railroad will erect depot in this city.

LEXINGTON.—Dawson County is considering erection of court house; \$100,000 bonds will be voted.

NORFOLK.—Union Pacific Railway will erect modern passenger station in this city. Address General Manager Mohler.

OMAHA.—Creighton University is having plans prepared for erection of \$50,000 gymnasium.

NEW HAMPSHIRE

CENTER STRAFFORD.—Bids will be received until 10 a. m., Mar. 23, for erection of girls' dormitory for Cate Academy. Edward Richardson, Dover, architect. C. F. Hill, secretary, Trustees.

MANCHESTER.—Wm. Corey will erect apartment house this spring on Maple St. Plans by Wm. M. Butterfield Co.

NEW JERSEY

BLOOMFIELD.—Plans have been completed for dormitory and lecture-room building which is to be erected as adjunct to the German Theological Seminary. J. F. Capen, 45 Clinton St., architect.

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ELIZABETH.—Architects Oakley & Son, 1201 East Broad St., have prepared plans for erection of stores and flats on Morris Ave. for Mackey Bros. (This item appeared in issue of Feb. 23 with Architect J. L. Burley, 29 Broadway, New York, listed as architect.)

ELIZABETH.—Peter G. Veitch will erect 16 residences on Stiles St. Plans not yet prepared.

ELIZABETH.—Committees representing Central Labor Union, of this city, are interesting union bodies throughout county in erection of labor temple.

Architect J. L. Burley, 29 Broadway, New York, is preparing plans for erection of four-story office building on Morris Ave.

Baptists are planning either to build a new edifice or enlarge present First Baptist Church in Elm St.

GLASSBORO.—Joint committee of local firemen and Township Committee has decided to purchase site for erection of fire house.

HOBOKEN.—Plans have been completed by Architect Franklin M. Small, of 265 Broadway, Manhattan, for construction of \$25,000 factory building for American Lead Pencil Company on Willow Ave.

IRVINGTON.—Bids will be received March 24 for erection of additions to two schools. Jos. B. Allen, Architect.

JERSEY CITY.—From plans prepared by Architect William A. Tilton, 76 Montgomery St., two apartment houses will shortly be erected on Tonnele and Van Reipen Aves. by the Central Storage & Realty Company of 15 Exchange Place. Cost, \$40,000.

Board of Education will soon ask for bids for erection of Schools No. 11 and 12.

From plans as prepared by Architect William H. Bogart, 712 Bergen Ave., four new buildings will be erected on Beach St. for Albert Higson, of 279 Grove St.

NEWARK.—Architect W. E. Lehman, 738 Broad St., has prepared plans for erection of \$20,000 apartment building at 23 Franklin St.

NEW BRUNSWICK.—Council has finally passed ordinance providing for issuance of \$90,000 for purchase of sites and erection of schools in First and Sixth Wards.

TRENTON.—Central Baptist Church is planning to erect edifice.

NEW YORK

BROOKLYN.—Robert Gair Co. will erect eight-story addition to plant on Front St. near Washington St.

Designs for new public school building, to be erected at cost of \$275,000 at Schenectady Ave., Eastern Parkway and Lincoln Place, have been approved by Municipal Art Commission.

BUFFALO.—Riverside M. E. Church will erect \$35,000 edifice at Baynes St. and Potomac Ave. Rev. Dr. McGurk, pastor.

NEW YORK.—Schwartzschild & Sulzberger Co. will erect \$250,000 warehouse on First Ave. L. Levy, First Ave. and Forty-sixth St., architect.

Cliff Construction Co., 605 West Seventeenth St., will erect two five-story flat houses on 170th St., Cost, \$90,000. Euell & Euell, 1 Madison Ave., architects.

NEW YORK.—Flemish Realty Co., 128 Broadway, will erect twelve-story brick store and lofts on Twenty-second St. Cost, \$400,000. Rouse & Goldstone, 12 W. Thirty-second St., Architects.

Irving Fichel Construction Co., 61 Park Row, will erect twelve-story brick store and loft on Twenty-third St. Cost, \$215,000. Schwartz & Gross, 347 Fifth Ave., Architects.

L. Brand, 28 W. Twelfth St., will erect six-story \$40,000 flat on Eighty-second St. Bernstein & Bernstein, 24 E. Twenty-third St., Architects.

NEW YORK.—Martin Pletcher, 908 Bryant Ave., will erect four dwellings, cost \$24,000, on Gleason Ave. Henry Nordheim, Tremont Ave. and Bronx St., architect.

Savoy Improvement Co., 586 Morris Ave., will erect \$6,000 dwelling on Paulding Ave.; also five dwellings, cost \$31,500, on 217th St. M. W. Del Gaudid, Tremont and Webster Aves., architect.

Messrs. Shubert are planning to erect theater at 113 W. Forty-third St.

NEW YORK.—W. Maas, 32 W. Eighty-fifth St., will erect five-story brick factory on First Ave. Cost, \$40,000. Kafka & Lindenmyer, 37 E. Twenty-eighth St., architects.

H. Corn, 341 Fifth Ave., will erect twelve-story brick loft building, cost \$400,000, on Nineteenth St. Maynicke & Francke, 25 Madison Square, North, architects.

NEW YORK.—Iona Construction Co., 110 East Twenty-third St., will erect six-story, \$150,000 flat on Convent Ave. F. A. Wright, 110 East Twenty-third St., architect.

Regan & Collender, 115 Broadway, will erect two-story, \$25,000 store, dwelling and hotel at Tenth Ave. and 207th St. J. C. Cocker, architect.

Greenwich Investing Co., 69 West 138th St., will erect eight-story, \$135,000 warehouse on Washington St. W. H. Dewar, Jr., Belleville, N. J., architect.

Architect Eli Benedict, 1947 Broadway, has prepared plans for alteration to building at 335 West Thirty-eighth St. Cost, \$2,000. Estimates will be taken about Apr. 1, also plans for erection of \$6,000, two-family houses at 238th St. and Grey-stone Ave. Estimates are being taken.

Wm. Ruhl, Starling and Glebe Aves., will erect two brick dwellings, cost, \$13,000, on Starling Ave. Henry Nordheim, Tremont Ave. and Bronx St., architect.

Architect H. G. Knapp, 5 East Forty-second St., has prepared plans for group of studios to be known as Henry Clews Art Colony. Cost, \$100,000.

Trustees of Columbia University will erect \$350,000 building for Department of Philosophy.

SCHENECTADY.—Board of Education will ask for \$290,000 for new schools.

OHIO

DAYTON.—Rike-Kumler Co. will erect six-story building at corner of Second and Main Sts. Plans prepared.

State Board of Charities has recommended enlargement of State Hospital in this city.

HAMILTON.—Masonic Temple Company has accepted plans for the proposed \$60,000 Masonic Temple to be erected on S. Third St. George W. Barkman, Reilly Bldg., and Frederic Mueller, Rentschler Bldg., architects.

MANSFIELD.—A. L. Wilkinson, Ohio Brass Co., has had plans prepared for erection of home on W. Third St.

Bell Telephone Co. will erect home on N. Mulberry St. in spring.

YOUNGSTOWN.—Y. W. C. A. will raise \$150,000 for erection of home.

OKLAHOMA

CLINTON.—Catholic Church will be erected in this city. Father Douenbourg, Hydro, is interested.

DURANT.—Citizens will vote on \$10,000 bonds to erect school building.

ENID.—Board of Education will receive proposals for architectural service on new high school building until 8 p. m., Mar. 23. W. M. Randells, president.

OKLAHOMA CITY.—English Lutheran Church will erect edifice at Third and Harvey Sts.

School Board has asked for issuance of \$300,000 bonds for school improvements.

TULSA.—Palace Clothing Co. is considering erection of \$60,000 store and office building.

OREGON

BANDON.—F. W. Lambert will erect 60-room summer hotel in this city.

KLAMATH FALLS.—Odd Fellows are planning erection of \$35,000 hall.

PORTLAND.—Oregon Railroad & Navigation Co. will soon begin erection of \$30,000 freight depot on First St.

PORTLAND.—Plans are being prepared by Lazarus, Whitehouse & Foulhoux, Lumberman Bldg., for a five-story \$55,000 brick apartment house to be constructed by J. L. Wickersham at corner of Eighteenth and Flander Sts.

PENNSYLVANIA

AMBLER.—Agawan Tribe, Improved Order of Red Men, will erect a lodge building on Spring Garden St.

CATASAUQUA.—School Directors have decided to erect modern high school.

CHESTER.—Bids have been rejected for remodeling post office.

DU BOIS.—Du Bois Country Club will erect club house in spring. John E. Du Bois, chairman, Building Committee.

DUNMORE.—Architect P. J. Morris, Amsden Bldg., is preparing plans for erection of building for First National Bank.

ERIE.—Plans have been completed by Architect Jos. Lee for erection of building at Fifth and State Sts. for Ashby Printing Co.

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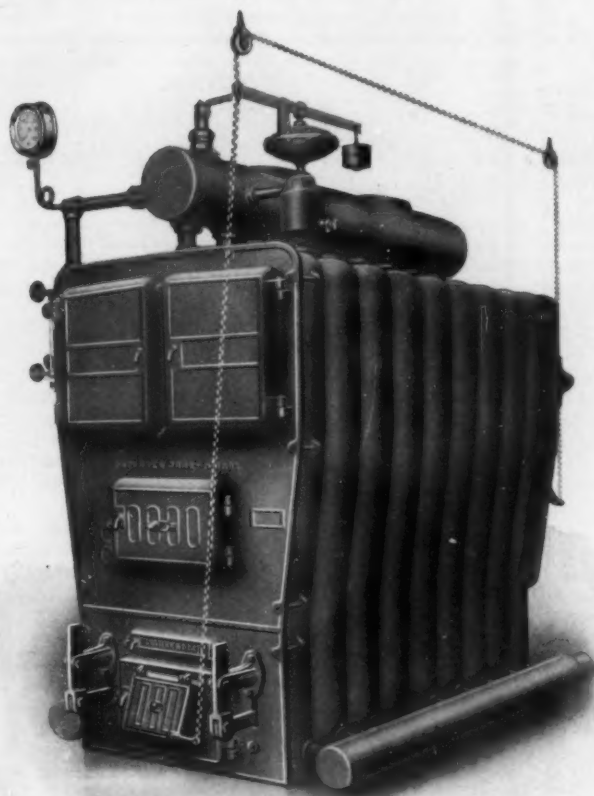


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HARRISBURG.—Green St. Church of God, Green and Calder Sts., is considering erection of edifice. Rev. C. H. Grove, pastor.

HAZLETON.—Haze Township will issue \$50,000 bonds for erection of high school.

JOHNSTOWN.—J. W. Reese, Seventeenth Ward, will erect large double house on Linden Ave.

LERANON.—J. Riley Gordon, of New York City, and Abner A. Ritcher, have been named by County Commissioners to be architects of new court house to be built at Eighth and Cumberland Sts.

MONACA.—American Glass Specialty Co. will rebuild portion of plant destroyed by fire.

PHILADELPHIA.—Architects De Armond & Ashmead, 618 Chestnut St., are designing brick residence at Wynnewood for W. Ellwood Jones.

PHILADELPHIA.—Philadelphia Warehousing & Cold Storage Co. will shortly have plans prepared for erection of \$200,000 storage building at Front and Noble Sts.

Architect E. Allen Wilson, Land Title Bldg., has completed plans for 80 two-story dwellings to be erected in West Philadelphia for Harry P. Havens.

PHILADELPHIA.—Architect E. A. Wilson, Land Title Bldg., is preparing plans for a 26-suite flat building, to cost \$100,000, for Oliver P. Fisher, at Fifty-fourth and Sansom Sts. Same architect is designing two three-story flat buildings at Sixty-first and Market Sts. for William C. Smith, and for three-story residence at corner of Forty-sixth and Spruce Sts. for John Greenwall; cost, \$25,000.

Chas. W. Young & Co., 1251 N. Twenty-sixth St., will erect large addition to plant.

PHILADELPHIA.—Halton Dyeing & Finishing Co. is having plans prepared for erection of four-story addition to plant at D and Ontario Sts.

PHILADELPHIA.—W. J. Gruhler, 219 E. High St., Germantown, will erect four three-story houses on Wayne Ave. Cost, \$24,000.

PITTSBURG.—Building Committee of the Central Board of Education has approved high school plan of Architects Rutan & Russell, 812 Magee Bldg., city, and recommended their election as architects for building of new high school on Forbes St.

Architect E. J. Schellentrager, 431 Fifth Ave., will build two fine residences on Linden Ave.

Architect E. J. Hodgdon, 810 Penn Bldg., has plans finished of \$15,000 house to be built on Tenth St., Tarentum, for George W. Smith.

POTTSTOWN.—Architect Jos. M. Huston, Witherspoon Bldg., Philadelphia, will design proposed Fifth Street Methodist Church.

SCRANTON.—Holy Name Slovak Congregation will erect \$100,000 edifice at Gibson St. and North Washington Ave. in near future. Rev. J. J. Marovskii, pastor.

SHARPSBURG.—St. Mary's R. C. Church is raising \$100,000 to erect edifice. Rev. John Otten, Pastor.

SOUTH BETHLEHEM.—Moravian Congregation will erect \$25,000 edifice.

TENNESSEE

CHATTANOOGA.—School Committee has selected plans as follows for proposed schools: by Architect C. E. Bearden, 56 Chamberlain Bldg., for First and Second District buildings; by Adams & Alsup, James Bldg., for Third District building, and by Huntington & Sears, News Bldg., for Fourth District.

ERWIN.—Dr. C. P. Edwards is interested in erection of hospital in this city.

N. T. Tucker has received plans for erection of store building on Main St.

KNOXVILLE.—Plans have been prepared for erection of three-story \$45,000 annex to main building of Eastern Hospital for Insane at Lyons View.

MEMPHIS.—Greek Catholic Church will erect \$70,000 edifice. Father Mitchel Mondeles, Atlanta, Ga., has matter in hand.

TEXAS

BAIRD.—City will at once erect \$20,000 school house. Council is planning to build city hall.

CANYON CITY.—Citizens have voted \$10,000 bonds for erection of addition to high school.

GALVESTON.—War Department has decided to erect \$75,000 armory at Fort Crockett for coast artillery companies of Texas Guard.

ORANGE.—School Board will ask Council to call election March 21 on bonds for erection of larger school building.

PLAINVIEW.—Citizens will vote March 26 on \$20,000 bonds for erection of school.

UTAH

MT. PLEASANT.—Citizens will organize company to erect opera house and gymnasium.

SALT LAKE CITY.—Griffin Wheel Co., 138 Jackson Blvd., Chicago, Ill., will erect large plant at Fifth and Worth Sts.

SALT LAKE CITY.—Knights of Pythias are considering erection of home.

VERMONT

MANCHESTER.—School Board has asked for \$20,000 appropriation for erection of \$20,000 addition to Kimmon school house.

VIRGINIA

FREDERICKSBURG.—Geo. W. Shepherd is arranging to erect \$10,000 residence on Washington Ave.

LYNCHBURG.—Government will enlarge Federal building at cost of \$15,000.

LYNCHBURG.—Lynchburg Boat Club will erect club house at once. Mayor A. B. Percy, chairman, Special Committee.

PETERSBURG.—Plans have been prepared for erection of Methodist Church at corner of Main and Taylor Sts., Blanford.

RICHMOND.—Benedictine Order will erect military college in this city. Bishop Van de Vyver is interested.

WASHINGTON

CHEHALIS.—C. Lewis Watson & Co., architects, Melhorn Bldg., Seattle, have commenced work on plans for erection of two-story \$25,000 brick school building.

EVERETT.—Joint committee from Everett Lodge No. 122 and Pilgrim Lodge No. 187 of Order of Odd Fellows have been appointed to secure plans for proposed \$50,000, three-story building. Phil. G. Warnock, president.

SEATTLE.—McCoy & Spear, architects, Arcade Bldg., are working on plans for four large hotel buildings to be erected in Denny Hill district. Total cost, \$300,000.

Architect F. H. Perkins, Lumber Exchange Bldg., is preparing plans for erection of business block at Third Ave. and Pine St.

SEDBRO-WOOLEY.—Architect T. F. Doan, Sunset Bldg., Bellingham, will prepare plans for proposed high school.

SPOKANE.—F. S. Harmon Co. will erect \$85,000 addition to warehouse on Adams Ave.

SPOKANE.—Trustee Committee, appointed by Masons, Knights of Pythias and Odd Fellows of negro race, will erect three-story temple.

J. L. Drumheller and A. A. Barnett will erect four-story addition to Pioneer Building, Front Ave. and Howard St. Cost, \$30,000.

WALLA WALLA.—Plans for \$150,000 hospital to be erected by Sisters of Providence in this city have just been prepared by Architects Berndt & Tegen, Portland.

WEST VIRGINIA

FAIRMONT.—I. O. O. F. lodge has accepted plans by Architect A. C. Lyons for erection of building on Merchant St.

HUNTINGTON.—Citizens will vote on \$80,000 bonds for erection of city building.

HUNTINGTON.—Hon. Jas. A. Hughes is considering erection of \$135,000 apartment house at Fifth Ave. and Twelfth St.

KITTANNING.—Residents of this place and Oakmont will erect church for use of Methodists and United Brethren.

WHEELING.—Board of Education has adopted plans of Architect C. W. Bates for proposed library building.

WISCONSIN

EAU CLAIRE.—First M. E. Church is considering erection of edifice. Rev. M. Benson, Pastor.

FOND DU LAC.—Church Furnishing Co. will at once rebuild plant destroyed by fire.

MADISON.—Local Masons are considering erection of six-story temple.

MILWAUKEE.—Herman Fehr and Frank Trottman will erect vaudeville theater on North Ave.

OSHKOSH.—Paragon Oil & Supply Co. will erect building on Light St.

RACINE.—Danish Brotherhood Society of this city has accepted plans of Guilbert & Funston for their proposed \$25,000 hall.

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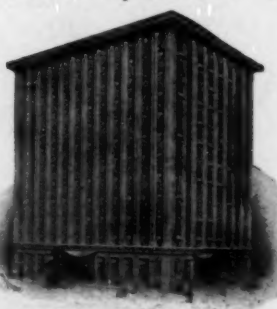
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Treasury Department, Office of the Supervising Architect, Washington, D. C., March 5, 1910.—Sealed proposals will be received at this office until 3 o'clock P. M., on the 27th day of April, 1910, and then opened, for the construction complete (including plumbing, gas piping, heating apparatus, electric conduits and wiring), of the United States Post Office and Court House at Enid, Okla., in accordance with the drawings and specification, copies of which may be obtained from the Custodian of site at Enid, Okla., or at this office at the discretion of the Supervising Architect.—James Knox Taylor, Supervising Architect. (1785-6)

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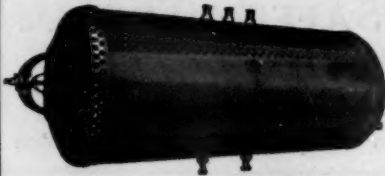
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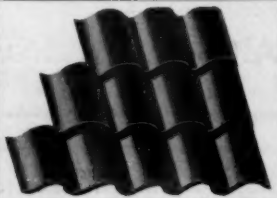
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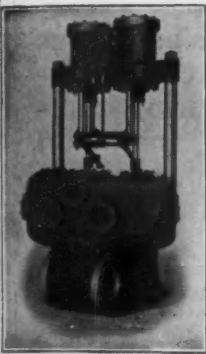
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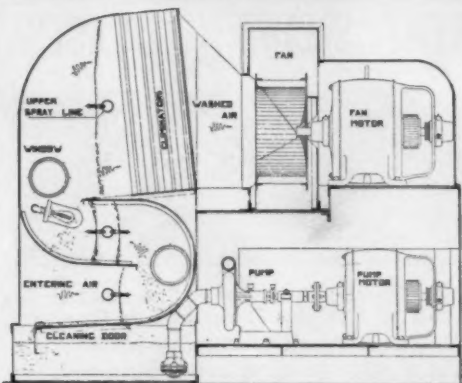
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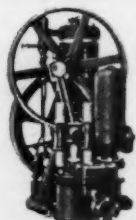
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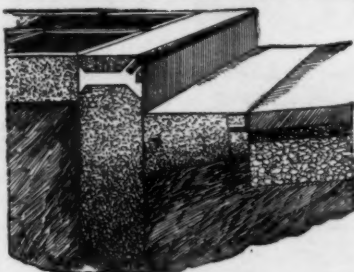
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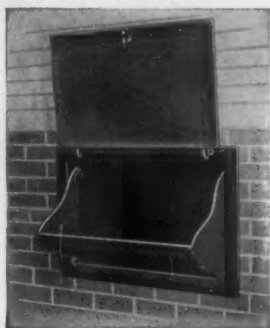
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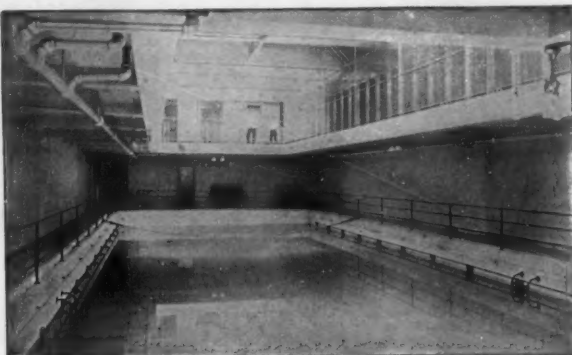
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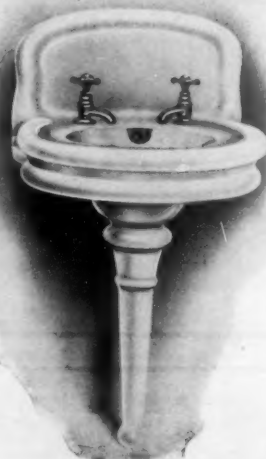


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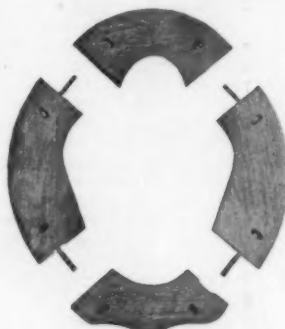


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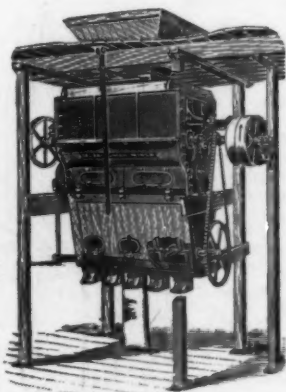
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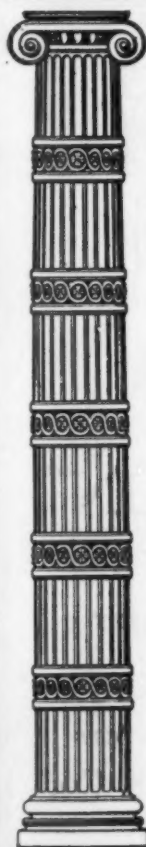


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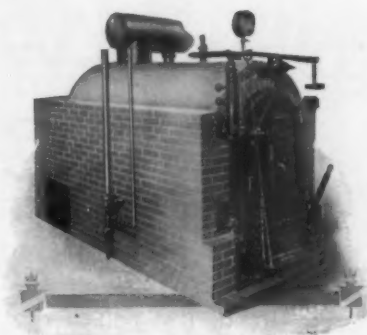
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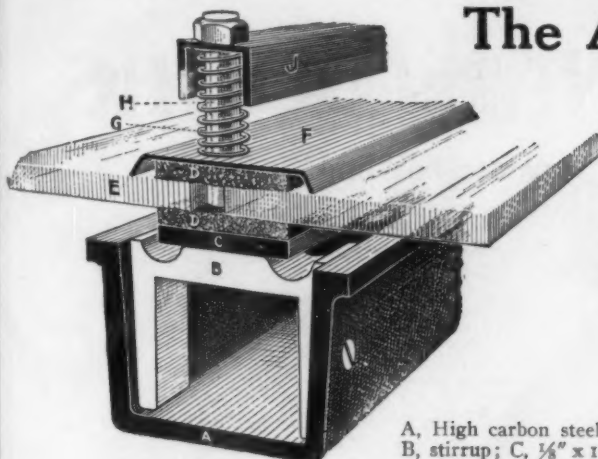
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BRIDGE ENGINEERING—ROOF TRUSSES. By Frank O. Dufour, C. E., Assistant Professor of Structural Engineering, University of Illinois. 384 pp., 340 illus. Half Morocco binding. A manual of practical instruction in the calculation and design of structural steel truss and girder bridges for railroads and highways; including also the analysis and design of roof trusses and other details of mill building construction. Price.....\$3.00

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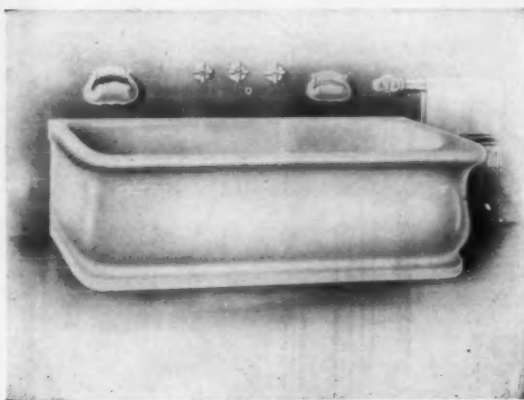


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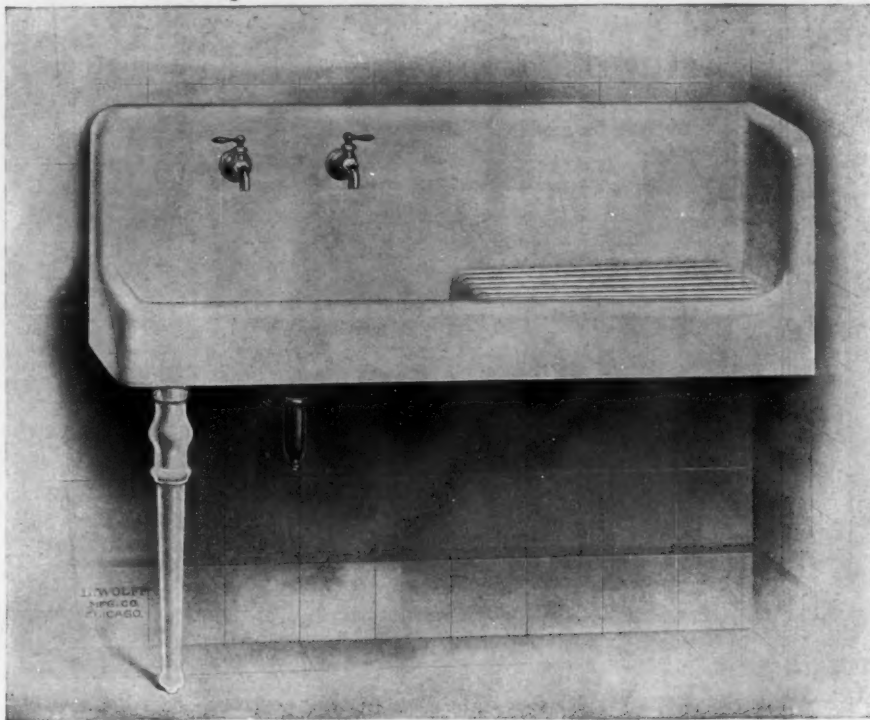
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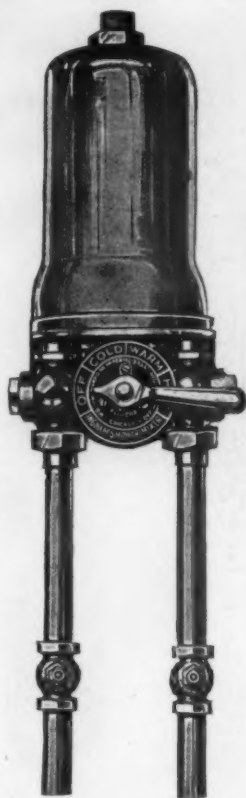
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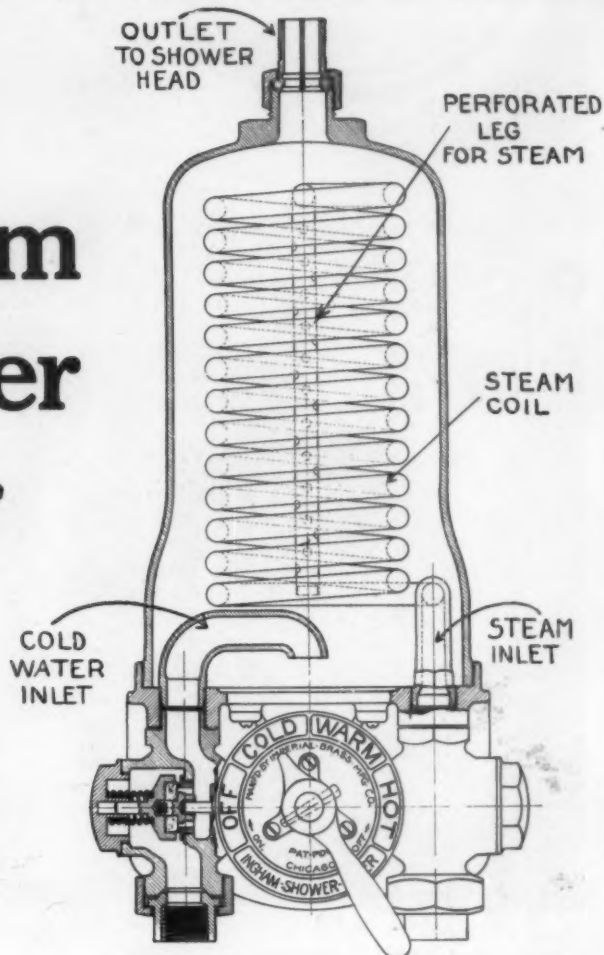
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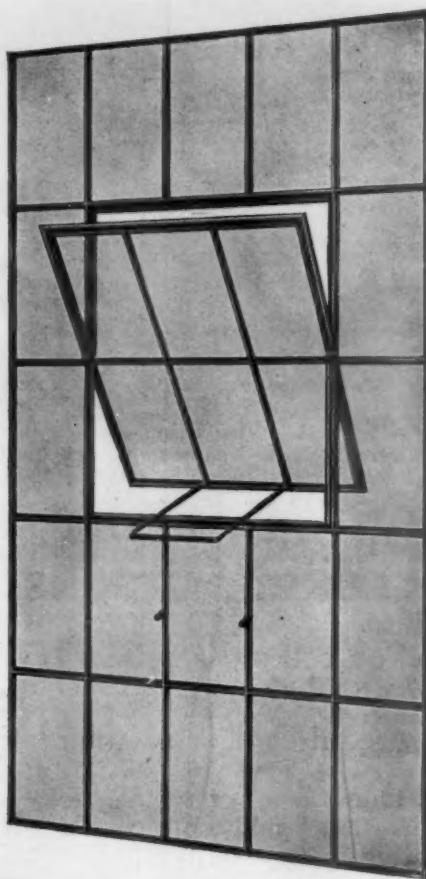
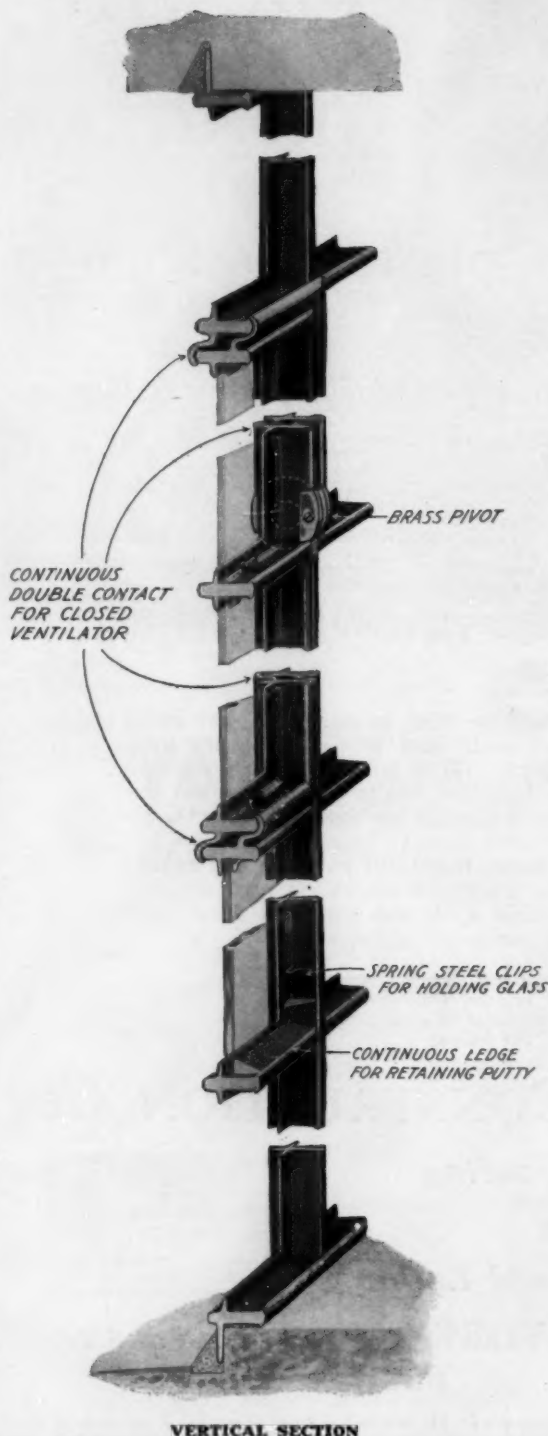
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*Metal furring and lathing is an important part of our business of concrete fireproofing. The construction details of the former have never received much attention in architects' specifications. We consider them so important that we are systematically advocating certain methods that practice has shown us to be the best.

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CURRENT NEWS

LOW SIDE WINDOWS IN CHURCHES

We have received a very interesting paper on the much-vexed archaeological question of the object of what are called "low side windows" (though they are not in all cases low) in mediæval churches, read before the Northamptonshire Architectural Society by Mr. Christopher A. Markham, F.S.A., Honorary Secretary to the society. The paper deals especially with numerous examples in Northamptonshire, of which illustrations are given. Mr. Markham goes through all the suggestions, fourteen in number, which have been made and upheld as to the intent and purpose of these openings, and we agree with him in regarding the majority of them, at all events, as untenable and not explaining the facts. He upholds the explanation numbered third on his list, that they were for the hearing of confession from persons who, for some reason of church discipline, were not allowed within the church. This is a reasonable explanation for which a good deal might be said; but it does not explain the large number of cases in which the jambs of the windows are planned to afford a view in one special direction. From the Northamptonshire examples, it may seem that this is less often the case in that county than elsewhere; but there are many cases in which the placing and planning of these windows has obviously some relation to a sight-line in a special direction, and the confessional theory would not account for this. The author condemns restoring architects for glazing these openings, which were originally closed only by a shutter, and thereby destroying their character; but where a church is in use for modern worship this could hardly be avoided. Mediæval congregations may have been indifferent to draughts; modern congregations are more sensitive.—*The Builder*.

SOCIETIES

The Atlanta Chapter of the A. I. A., and the Architectural Arts League of Atlanta will jointly hold a first annual exhibition at Atlanta, Ga., from May 2 to 11, inclusive.

The exhibition committee, of which Mr. A. Ten Eyck Brown is chairman, is anxious to make this exhibition as broad and as representative as possible.

Entry blanks and full particulars as to exhibits may be had by addressing H. W. Tarbrough, 2½ Auburn avenue, Atlanta, Ga.

The preliminary notice of this exhibition states:

In an endeavor to awaken in the public greater interest in good architecture, our first Exhibition is being held for that purpose. Exhibits of photographs of interiors and exteriors, models and drawings of executed or proposed work will be eligible, including landscape architecture and executed work in the applied arts pertaining to the above subject.

Perspectives, elevations and photographs should be accompanied by rendered plans wherever possible. Groups of drawings, models and cartoons, illustrating in combination the architectural, sculptural and decorative scheme of a single work are solicited.

Photographs are desired at once for publication in the Catalogue, to be 8 x 10 inches, if possible, to simplify reproduction.

MR. A. TEN EYCK BROWN, CHAIRMAN OF THE EXHIBITION COMMITTEE, ATLANTA, GA., CHAPTER OF THE A.I.A., ASKS CO-OPERATION IN MAKING THEIR FIRST ANNUAL EXHIBITION A SUCCESS.

TO THE PROFESSION AT LARGE:—

As you have noticed from the circulars recently sent you, the newly organized Architectural Arts League of this city and the local chapter of the American Institute of Architects have planned an exhibition of architecture and the allied arts, from May 2 to May 11, to be held in Atlanta, and we have sent out notices to this effect to 500 or 600 architects throughout the country, and we are each of us writing to the prominent men that we know in the large cities to make a personal appeal to them to make a special effort to send us some of their work and to assist us in making this, our first, exhibit a success.

As it is the first time that such a thing has been attempted in the South on such a large scale, we will greatly appreciate your interest in the matter.

We have secured a large hall in a new auditorium building, and will spare no effort or expense to make this exhibition as high class as possible, and we are hoping that the profession at large will see their way to assist us in elevating the standard of the profession throughout the South and making other efforts to raise the dignity of architecture and the allied arts as a whole in a section of the country which is really lacking in appreciation of these things from a lack of similar efforts to this end on the part of the profession in the past.

Trusting that I can count upon you for some exhibits, and assuring you that they will be well taken care of and given a good position, and that I will hear from you immediately in answer to this, so that we can make our plans accordingly and put at least a part of what you might send in the catalog, I beg to remain,

Yours very truly,

A. TEN EYCK BROWN,
Chairman of Exhibition Committee.

PERSONAL

Mr. Leon Wilde Crawford, architect, informs us that he has opened offices for the practice of his profession at Elsmere, Delaware, and also at 919 Market street, Wilmington, Delaware.

He desires to receive manufactures' catalogues and samples.

Ellis F. Lawrence, formerly of MacNaughton, Raymond & Lawrence, architects and engineers, has opened offices at 613-615 Lewis Building, Portland, Ore., where he will continue the practice of architecture. He will also maintain an office in the Ransom Building, Walla Walla, Wash., and has associated with himself in that office, Mr. J. J. Burling. Manufacturers' samples and catalogues are desired.

It is stated in the local press that Normand W. Mohr has been appointed chief of the Bureau of Architecture, San Francisco, Cal., to succeed Emil de Neuf, who resumes his former position of chief draughtsman.

Mr. William R. Watterson, Cleveland, O., informs us that the partnership heretofore existing under the firm name of Watterson & Schneider, has been dissolved. Mr. Watterson will continue in practice with offices in the New England Building, Cleveland, O., as heretofore.

We are informed that Mr. D. N. B. Sturgis, of New York; Mr. John Lyman Faxon, of Boston, and Mr. Norman McGlashan, of New York, architects, have formed a copartnership for the practice of their profession. They will have offices at 114 East 28th street, New York, and 3 Hamilton place, Boston, Mass.

BOOK NOTES

THEORY OF SOLID AND BRACED ELASTIC ARCHES. By William Cain. Second edition, revised and enlarged; paper boards; 100 pp.; size $3\frac{3}{4} \times 6$ inches. Price, 50 cents. New York: D. Van Nostrand Co.

This is No. 48 of the Van Nostrand Science Series, and one of a collection of books on technical subjects that in its entirety presents a veritable library on practical topics, reduced to pocket size. Its revision and enlargement in the present edition brings the work down to the latest methods of practice and, like other books by Prof. Cain to be found in this series, is an authoritative treatment of the subject.

THE ESSENTIALS OF LETTERING. A Manual for Students and Designers. By Thomas E. French and Robert Meiklejohn. Second edition. Full cloth; 72 pp.; size 6×9 inches. Columbus, Ohio: Varsity Supply Co.

This book, now in its second edition, presents the subject of lettering in a more dignified and scholarly manner than is usual among the many works that have been published. It is particularly helpful to the student and architectural draughtsman, since it gives, as its title indicates, the essentials of form and construction, and leaves to the student a full field to employ his artistic conceptions.

INDUSTRIAL

TO STANDARDIZE TRADE CATALOGUES

At the meeting of the Technical Publicity Association held in this city on February 10th, the question of adopting standard sizes for catalogues and commercial literature was considered at some length. A number of those present expressed their views, and a paper of unusual interest was presented by Mr. Martin P. Rice, chief of the publication bureau of the General Electric Company. It appeared to be the consensus of opinion that anything tending toward the standardization of trade and technical publications would be of benefit to both manufacturers and users. It has been one of the problems of an architect's office to file and arrange catalogues and trade literature in a manner that will render it easy of

access without its occupying a great amount of valuable space. The complexity of this problem has been generally due to the fact that there is no uniformity either in size of binding of the various catalogues and trade publications that come to the office. We believe the subject is of very considerable importance, and are glad to note the serious thought being given it by this association, among whose members are found the representatives of the leading manufacturers of the country.

A VALUABLE TRADE MAGAZINE

While primarily issued to exploit the product of the Standard Sanitary Mfg. Co., of Pittsburg, *Modern Sanitation* is a monthly publication that may be read with considerable interest.

Its artistic "make up" presents the best of typography and illustrations, while its contributed articles on live topics are non-technical and of present-day interest.

The February issue contains articles on a Hindoo religious bathing festival, well illustrated; Woman's Power Through Bathing, by Lucy Cleveland, together with articles by Mr. J. J. Cosgrove, a sanitary expert, whose writings are regarded as authoritative statements.

This magazine may be had by subscription at any one of the many branches of the Standard Sanitary Mfg. Co., or by direct address to the publishing department at Pittsburg.

SPECIALTIES IN VENTILATING MACHINERY

The McCreery Engineering Co., of Detroit, Mich., are designers and manufacturers of ventilating machinery and apparatus.

Where possible, each installation is designed to meet the special requirements of the building, thus insuring a maximum of efficiency with the lowest consistent cost.

Naturally, as the space set aside for their location varies with each building, the standardization of air-cleaning apparatus is not possible. It, therefore, becomes necessary to avail of the services of makers whose experience is based on extensive practice, and this experience the McCreery Engineering Co. claim to have had.

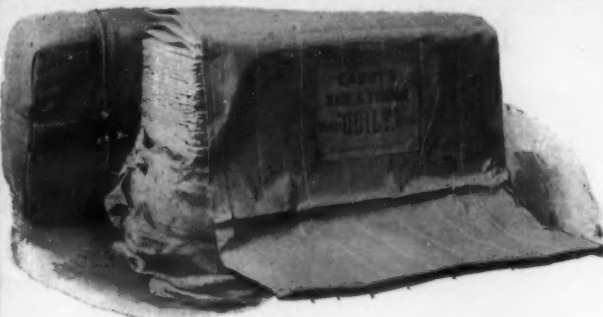
They have printed for circulation a series of instructive articles, among which is one on the treatment of ventilating air for shops and schools. The architect will find that this article contains much useful information and that it will repay sending for.

A CEMENT COATING

C. L. Burns, of 156 Fifth avenue, New York, is manufacturer of a cement coating for which he claims many advantages. This coating is an oil paint but contains no white lead, and hence, it is stated, will retain its white surface without turning yellow under the fumes of acid or gas.

It can be used on brick, cement concrete, plaster and stucco work on bath exterior and interior and on iron and wood for interior use.

The standard color is white, but it can be manufactured under order in any desired color. Sample color cards and small cans of paint can be had by architects on application.



Cabot's Shingle Stains, Waterproof Cement Stains, Waterproof Brick Stains, Conservo Wood Preservative.

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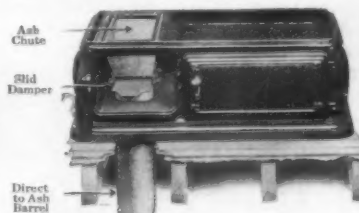
Combination Coal, Wood and Gas Range.

No Fussy Ornamentation or fancy nickel on the Plain Cabinet Glenwood. Just the natural black iron finish. "The Mission Style" applied to a range. A room saver too—like the upright piano. Every essential refined and improved upon.

The Glenwood Ash Chute may be used instead of a pan, when kitchen is on first floor. This wonderful convenience saves lugging ashes, as they are dropped direct to ash barrel in basement without a particle of dust or dirt in kitchen (see illustration).

The Gas Range

attachment, consisting of Oven, Broiler and Three Burner Top is made to bolt neatly to the end of this range when a combination coal and gas range is desired.



Write for handsome booklet of the plain Cabinet Glenwood Combination Coal, Wood and Gas range, mailed free.

WEIR STOVE CO., TAUNTON, MASS.

Manufacturers of high grade Ranges, Parlor Stoves, Furnaces, Water and Steam Boilers.

This Range is also made with Elevated Gas Oven instead of end style, shown above, or if gas is not desired, with or without Reservoir on right end.

BUILDING NEWS

To be of value this matter must be printed in the number immediately following its receipt, which makes it impossible for us to verify it all. Our sources of information are believed to be reliable, but we cannot guarantee the correctness of all items. Parties in charge of proposed work are requested to send us information concerning it as early as possible; also corrections of any errors discovered.

ALABAMA

ATTALLA.—Plans are being prepared for erection of \$12,000 school.

GADSDEN.—E. T. Schuler will at once erect business house on Broad St.

GUNTERSVILLE.—Erection of \$25,000 school house is being considered.

HUNTSVILLE.—Architect E. L. Love will prepare plans for erection of proposed Y. M. C. A. building.

MOBILE.—County Board of School Commissioners is considering calling for competitive plans for building an auditorium at Laura Craighead school. Dr. Sledge, President.

TALLADEGA.—Local Masons have purchased site for erection of building.

WEST BLOCKTON.—Local Elks are considering erection of house. J. H. Lawrence, Exalted Ruler.

ARKANSAS

FT. SMITH.—The Board School Directors will receive bids April 7 for erecting a Manual Training and Science School. A. Klingensmith, architect. J. W. Morton, secretary.

CALIFORNIA

ALTURAS.—N. C. O. Railroad will erect three-story \$30,000 hotel.

LOS ANGELES.—Plans have been prepared by B. Cooper Corbett, Story Bldg., for erection of \$25,000 residence on Walshire Boulevard for Jas. P. Burns.

Pilgrim Congregation will erect frame edifice at Forty-sixth and Normandie Sts. L. S. Moore, Grant Bldg., architect.

A. C. Curtis will erect two-story store and flat building on Western Ave. J. C. Smith, 106 W. Third St., architect.

LOS ANGELES.—L. B. Lesperance will erect \$10,000 residence at Mariposa and Fourth Sts. Frederick Noonan, Architect.

OROVILLE.—Methodist Church has purchased site at Lincoln and Robinson Sts. for erection of edifice.

OAKLAND.—First Hebrew Congregation will erect temple on Telegraph Ave.

ORLAND.—Odd Fellows' Committee has commissioned Architect Jas. T. Narbett, Chico, to prepare plans for \$12,000 reinforced concrete lodge building.

PASADENA.—Architect W. B. Edwards has completed plans for erection of building on North Broadway for H. H. Goodrich.

POMONA.—First Baptist Church is considering plans for erection of \$50,000 edifice. Rev. Dr. W. F. Harper, Pastor.

REDONDO.—Architect L. S. Moore, Grant Bldg., Los Angeles, is preparing plans for erection of two-story brick building for Mrs. M. A. Murphy.

SAN FRANCISCO.—Albert Meyer & Co. will erect business building on East St.

SAN FRANCISCO.—Architect Albert Pissis, Flood Bldg., is preparing plans for erection of \$220,000 auditorium at Twelfth and Market Sts.

WATSONVILLE.—Citizens will vote April 5 on \$15,000 bonds to erect auditorium.

CONNECTICUT

BRIDGEPORT.—Leonard Asheim has been selected as architect for North Main St., and C. T. Beardsley for Stillman St. schools.

Plans have been completed by Architect J. W. Northrup, Court Exchange Bldg., for erection of residence for J. G. Ludlum.

NEW BRITAIN.—School Board will ask \$110,000 for new buildings and equipment.

NEW HAVEN.—Board of Education will ask for \$119,333 appropriation for purchase of sites, erection and repair of schools.

STRATFORD.—Board of Education is considering plans for an eight-room school.

WALLINGFORD.—Foote & Townsend have been commissioned

to prepare plans for the proposed group of buildings to be erected by Holy Trinity R. C. Parish. Rev. John Carroll, Pastor.

FLORIDA

BONIFAY.—Citizens have voted \$14,000 bonds to erect school house.

ST. PETERSBURG.—Peter Tonnelier, Benton Harbor, Mich., will erect three-story arcade building on Central Ave.

ILLINOIS

CHICAGO.—Carl A. Stonehill, Chicago Mercantile Co., will erect \$300,000 building on Michigan Ave.

CHICAGO.—Chicago Hospital Day Association has approved plans for erection of \$2,000,000 emergency hospital. Mrs. P. J. O'Keeffe is interested.

CHICAGO.—F. W. Moeller, 928 Milwaukee Ave., will erect \$75,000 building at corner of Lincoln Ave. and Perry St. Meyer & Co. are considering erection of concrete building on W. Adams St.

DECATUR.—Morehouse & Wells Co. will erect six-story building on East Main St.

DECATUR.—Bids will at once be asked for erection of proposed \$20,000 Oglesby school on Main St.

MOBILE.—Swedish Methodist Official Board is discussing plans for church; also recommended erection of parsonage.

MOBILE.—Citizens will vote April 5 on \$100,000 bonds for erection of city hall.

Directors of Manufacturers' Hotel are considering erection of \$500,000 six-story hotel at Fifth Ave. and Fourteenth Sts.

ROCKFORD.—South Park Lutheran Church will erect \$30,000 edifice. Architect not yet selected. J. A. Benader, 1105 Fourteenth Ave., Pastor.

INDIANA

BLUFFTON.—Architect Chas. Houck will prepare plans for erection of proposed central school.

EVANSVILLE.—Grote Manufacturing Co. will erect \$100,000 plant on Outer Washington Ave. Ferdinand Grote, President.

GOSHEN.—R. R. Judkins and Haines Egbert will erect two-story business block during summer.

LOGANSPOUT.—Fort Wayne & Wabash Valley Traction Co. will erect \$40,000 station. D. D. Fickle, Mayor.

NEW CASTLE.—L. E. & W. is considering erection of passenger and freight depots in this city. Address, Division Superintendent O'Brien.

SOUTH BEND.—Architects Freyermuth & Maurer, Warner Bldg., have completed plans for erection of proposed edifice at East Indiana and Witwer Ave. for Indiana Avenue Christian congregation.

SOUTH BEND.—Bids will be received until 2 p. m. April 2 for erection of proposed Lincoln School. Freyermuth & Maurer, Architects. J. C. Paxson, President, School Board.

VINCENNES.—John Merchant is considering erection of warehouse at First and Shelby Sts.

IOWA

CEDAR RAPIDS.—Citizens have voted to erect \$55,000 school on Washington Ave.; vocational high school will be erected on west side.

COUNCIL BLUFFS.—Completed plan of \$40,000 addition to the John G. Woodward & Co.'s factory has been made by Architect J. Chris Jensen.

DES MOINES.—Citizens have voted \$400,000 bonds for high school.

Five-story, fireproof hotel, cost \$125,000, will be erected at corner of E. Fourth and Walnut Sts. Plans and specifications are being drawn by Proudfoot, Bird & Rawson, Plyn Bldg.

MARSHALLTOWN.—City is contemplating erection of two-story fire hall. Wm. Steiner, City Engineer.

MASON CITY.—Citizens have voted \$38,000 bonds to purchase land and erect school.



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Notice Sliding Sleeve Damper. Patented.

KANSAS

MCPHERSON.—Swedish Lutheran congregation has not as yet selected plans for proposed edifice. Rev. N. J. W. Nelson, Pastor.

SALINA.—R. H. Graham, Belle Spring Creamery Co., has had plans prepared for erection of residence at corner of Oakdale and Ash Sts.

KENTUCKY

LOUISVILLE.—Attorney Philip A. Gaertner will erect modern \$75,000 store building on Jefferson St.

PADUCAH.—Bids will be received by the First National Bank of Paducah until 2 p. m., April 4, for erection of a one-story fireproof stone bank building. Wm. L. Brainerd, Architect.

MARYLAND

BALTIMORE.—W. G. Albrecht is having plans prepared for a four-story brick warehouse to be erected at Sharp and Dover Sts. Cost, about \$24,000. Callis & Callis, architects.

The Fifth Regiment Veteran Corps will build \$10,000 two-story brick armory and drill hall at 1112 Madison Ave. D. M. Hite will have charge of improvements.

George Klein will build 12 two-story brick dwellings on Lorman St. Cost, about \$32,000. Jacob F. Gerwig, 210 E. Lexington St., architect.

The Consolidated Gas, Electric Light & Power Co. will expend about \$15,000 on a new fireproof office building at 508 and 510 E. Monument St. Plans are being prepared.

BALTIMORE.—James Keelty will build eighteen houses on First St. Cost, about \$26,000. Jacob F. Gerwig, 210 E. Lexington St., Architect.

George C. Goldman will build nine houses on Calverton Road. Cost, about \$14,000. William Hildebrand, Architect.

BALTIMORE.—American Agricultural Chemical Co. will erect office building at South and Water Sts. Owens & Sisco., Continental Bldg., Architects.

Beaufort Realty Co. is planning erection of eleven-story apartment house on Belvidere Ave. Cost \$300,000.

Pocomoke City Electric & Ice Manufacturing Co. will erect large plant. T. W. Pietsch, 1001 American Bldg., Architect.

CUMBERLAND.—City will ask State for permission to issue \$100,000 bonds for immediate erection of city hall.

FREDERICK.—Baltimore & Ohio Railroad will erect larger depot.

HAGERSTOWN.—Cumberland Valley Railroad Co. will erect station in this city. Plans being prepared. M. C. Kennedy, Vice-President.

HAGERSTOWN.—Western Maryland Railroad will erect \$60,000 depot in this city. Alexander Robertson, Superintendent.

TOWSON.—Work will soon begin improving Baltimore County court house. Cost, \$14,000. Balwin & Pennington, Architects.

MASSACHUSETTS

ATTLEBORO.—Finance Committee has recommended erection of \$15,000 fire house in southern part of city.

BOSTON.—Architect J. A. Hasty, 46 Cornhill, has prepared plans for proposed erection of Home for Destitute Children.

CHICOFEE.—Plans by Geo. P. B. Alderman & Bro., Holyoke, have been accepted for proposed school building.

HOLYOKE.—Ellsworth & Howes, 365 Dwight St., will prepare plans for proposed contagious diseases hospital.

LAWRENCE.—Plans have been prepared by Architect Jas. Flanagan for erection of parochial school on Oak St. for St. Mary's Church. Rev. Jas. T. O'Reilly, Pastor.

LYNN.—Plans have been prepared by Architect E. W. Maynard, 1226 Tremont St., Boston, for erection of proposed Central Square Theater.

SPRINGFIELD.—Sacred Heart Church will construct parochial school. Rev. Noel Rainville, Pastor.

SPRINGFIELD.—Town has voted extra appropriation of \$37,500 to complete fire buildings.

WATERTOWN.—Town has voted to erect \$140,000 school building. Plans by Chas. Brigham.

MICHIGAN

BAY CITY.—Architects Pratt & Koeppé are preparing plans for erection of school for St. Stanislaus Church.

Bay City Country Club is planning erection of \$25,000 clubhouse.

DETROIT.—Harper General Hospital Association will erect hospital on Hamilton Blvd. Architects Stratton & Baldwin,

1103 Union Trust Bldg., have been commissioned to prepare plans.

J. Hock, 612 Hastings St., will erect \$10,000 residence on Rowena St.

MINNESOTA

BRAINERD.—Bids will be opened March 31 by Jas. K. Taylor, Washington, D. C., Supervising Architect, for erection of post office.

CHISHOLM.—Erection of twenty-room school building is being considered. J. P. Vaughan, Superintendent.

NEW ROCKFORD.—H. G. Hudson, J. W. Roger, Bucklin & Co., Donald Niven, C. J. Maddeux and H. Peoples are planning to rebuild buildings destroyed by fire.

ST. PAUL.—Fire Chief Strapp has recommended erection of three fire stations.

MISSOURI

KANSAS CITY.—Fred Eysell, druggist, will erect three-story building at 1109 Broadway.

KANSAS CITY.—Ridenour-Baker Grocery Co., 933 Mulberry St., is to build a seven-story addition to its present building. J. W. McKecknie, New York Life Bldg., Architect, is drawing plans.

J. R. Kelley, First St. and Shawnee Ave., will erect three-story building on Westport Ave., Westport. J. W. McKecknie, New York Life Bldg., Architect.

NEBRASKA

FULLERTON.—Citizens have voted \$33,000 bonds for erection of school house.

OMAHA.—U. S. National Bank is planning to erect twelve-story building at corner of Sixteenth and Farnum Sts.

OMAHA.—Fred Hamilton, cashier of the Merchants' National Bank, has had plans completed for \$18,000 home to be erected at Thirty-seventh and Jackson Sts.

Architect Lloyd Willis is preparing plans for erection of two apartment houses.

NEW JERSEY

ATLANTIC CITY.—Plans are being considered by Arts and Crafts Department of the Woman's Research Club for building of a club house for Department. Mrs. J. P. Hall is interested.

BAYONNE.—Engineer James E. Brooks, of 45 Broadway, Manhattan, has completed plans for Nucoa Butter Company, Soho, for two factory buildings on Avenue C. Cost, \$75,000.

BRIDGETON.—Senate has passed bill appropriating \$25,000 for erection of armory of Company K.

CAMDEN.—Architect Otto C. Wolf, 1025 Arch St., Phila., is preparing plans for a \$100,000 addition to the Camden City Brewery, at Sixth and Filmore Sts.

EAST ORANGE.—Construction of \$160,000 addition to East Orange high school is being considered.

JERSEY CITY.—Jersey City branch of the Salvation Army is planning to build \$65,000 industrial home at Erie and Fourteenth Sts.

From plans prepared by Architect Walter Hankin, Clinton Ave., six two-family dwellings will be erected on Montgomery St. for Hudson Home Building Company, of 15 Exchange Place. Cost, \$36,000.

HOPWELL.—E. R. Whitehead will erect two-story factory in this town.

NEWARK.—M. Straus & Sons will erect \$11,000 brick factory at 440-460 Frelinghuysen Ave., after plans by Wm. E. Lehman, 738 Broad St.

The Aetna Realty Co. will erect \$16,000 brick apartment house at 23 Franklin St. Wm. E. Lehman, 738 Broad St., Architect.

Architect E. V. Warren, 22 Clinton St., has prepared plans for erection of eight dwellings on Edgar St. Cost \$36,000.

NEWARK.—Marcus Buchner will erect \$14,000 building at 26 S. Orange Ave. M. B. Silberstein, 63 Market St., Architect.

Architects W. K. Schoenig & Son, 418 Springfield Ave., have completed plans for \$6,000 building to be erected at corner of Ninth St. and Sixteenth Ave.

PAULSBORO.—John Hoffman will erect \$10,000 ice plant.

PITMAN.—Architects Druckenmiller, Stackhouse & Williams, Philadelphia, are preparing plans for a \$12,000 National Bank building.

TRENTON.—Branch No. 90 of Workmen's Circle is considering erection of \$10,000 labor lyceum.

TRENTON.—Fleischman Yeast Co. will at once erect building at 145 W. Hanover St.

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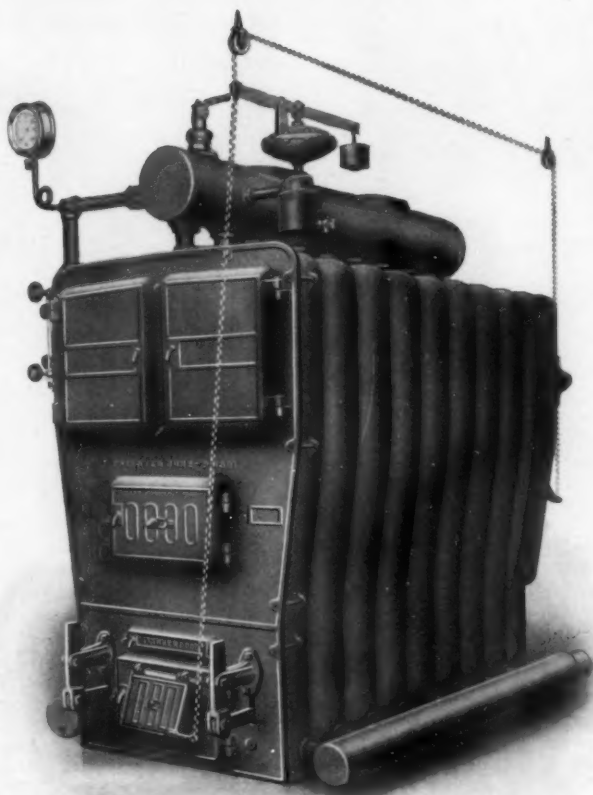


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Architects Klemann & Fowler, First National Bank Bldg., have completed plans for erection of office building and three residences.

TRENTON.—Mary M. Snyder will erect residence on Parkway Ave.

WESTFIELD.—Citizens have voted to raise \$30,000 for school purposes.

WEST NEW YORK.—From plans prepared by Architect Emil Guhl, of 19 Charles St., Jersey City, \$20,000 store and apartment building will be erected on corner of Bergen Ave. and Twelfth St. for Frederick Ottersley, of 136 Thirty-fourth St., Woodcliff, North Bergen.

WOODBIDGE.—Plans have been completed for erection of proposed \$70,000 high school.

NEW YORK

BROOKLYN.—Alderman A. S. Drescher, Brownsville District, is urging erection of municipal bath house at Coney Island.

ELMIRA.—Edward Mozart, General Manager of the Mozart Circuit, and R. V. Alexander, of Lancaster, Pa., are formulating plans for proposed Mozart Hippodrome, which will be erected this Spring at corner of Baldwin and Market Sts.

FLANDERS, L. I.—Architects Hopkins, McEntee & Speers, 217 Havemeyer St., Brooklyn, are preparing plans for proposed club house for Flanders Yacht Club. Address Committee, care of Architects.

NEW YORK.—M. R. L. Building Co., 312 W. Ninety-ninth St., will erect eight-story brick apartments on Ninety-ninth St. Cost, \$40,000. G. F. Pelham, 507 Fifth Ave., Architect.

Architect G. F. Pelham, 507 Fifth Ave., is preparing plans for erection of six-story hotel at 147 W. Forty-third St. for Geo. Considine.

NEW YORK.—B. Crystal, 21 W. Thirty-fourth St., will erect two eleven-story brick flats on Claremont Ave. Cost \$500,000. G. Adello, 1 W. Thirty-fourth St., Architect.

Second Manhattan Office Building Co., 43 Cedar St., will erect twelve-story store and lofts at 114 E. Sixteenth St. Cost \$260,000. Squire & Wynkoop, 44 Cortlandt St., Architects.

M. Solomon, 105 Ellery St., Brooklyn, will erect twelve-story brick store and lofts, cost \$350,000, at 118 W. Twenty-second St. F. C. Zobel, 118 E. Twenty-eighth St., Architect.

L. Schunmacher, First Ave. and Twenty-sixth St., will erect \$12,000 stable on Fifty-fourth St. E. F. Cojean, Rockaway Beach, L. I., Architect.

W. B. Thom, 17 Washington Place, will erect \$15,000 brick garage at 209 W. Ninety-ninth St. H. J. Lefler, 302 W. Ninety-ninth St., Architect.

A. T. Mack, 1136 Walker Ave., will erect two-story dwellings, cost \$10,000, on Sterling Ave. B. Ebeling, 1136 Walker Ave., Architect.

NEW YORK.—Germania Life Insurance Co., 20 Nassau St., will erect twenty-story office building at 50 Union Square. Cost, \$1,000,000. D'Oench & Yost, 289 Fourth Ave., Architects.

Mutual Apartment Co., 110 E. Twenty-third St., will erect six-story brick flat on Wadsworth Ave. Cost, \$250,000. F. A. Wright, 110 E. Twenty-third St., Architect.

Building & Engineering Co., 1138 Broadway, will erect twelve-story loft building, cost \$400,000, on Twenty-first St. W. H. Birkmire, 396 Broadway, Architect.

Marmac Construction Co., 316 W. Thirtieth St., will erect twelve-story brick loft building, with stores, at 150 W. Twenty-second St. Cost, \$225,000. Browne & Almiroty, 3 W. Twenty-ninth St., Architects.

Architects C. Kreymborg, 908 Jennings St., has filed plans for erection of six-story \$100,000 flat on 181st St. for J. M. Luick Construction Co., 1047 Trinity Ave.

Pennsylvania Tunnel & Terminal Railroad Co., 10 Bridge St., will erect two blower houses, cost \$108,000, on First Ave. Jas. Swing, architect.

Congregation B'nai-Jeshurun will sell present edifice at Madison Ave. and Sixty-fifth St. and purchase new site on West Side.

NEW YORK.—A. Warren Construction Co., 2328 Morris Ave., will erect four three-story brick dwellings, cost \$24,000, on Morris Ave. J. J. Vreeland, 2019 Jerome Ave., Architect.

Brunswick Realty Co., 118 E. Twenty-eighth St., will erect twelve-story building at 241 Fourth Ave.

Goodwin, Starrett & Van Vleck, architects, 47 E. Seventeenth St., have filed plans for fourteen-story fireproof dry goods warehouse to be erected for Mills & Gibb at corner of Fourth Ave. and Twenty-third St.

F. W. Woolworth, 280 Broadway, will erect twenty-story building at corner of Broadway and Park Place.

ODGENSBURG.—Plans are being prepared for erection of terminal building near Riverside Park. Business Men's Association is interested.

ROCHESTER.—G. E. Merchant, 231 Culver Road, has had plans upprepared by Architects Foote and Headley, Cutler Bldg., for erection of three-story apartment house on Park Ave.

SCHENECTADY.—Council has passed ordinance for issuance of \$300,000 bonds for erection of additions to school.

SCHENECTADY.—School District No. 5 of Niskayuna has voted to erect \$12,000 school.

SYRACUSE.—Merritt C. Conway has prepared plans for two-family \$8,000 house to be erected at No. 924 Irving Ave. for M. J. Kendrick.

SYRACUSE.—Frank Magore will erect a store and apartment building in Division St. near North Salina this Spring.

SYRACUSE.—Geo. C. Cook has had plans prepared for erection of building at 218 W. Onondaga St.

OHIO

CLEVELAND.—Ohio Blower Co. will erect factory on East Side. D. K. Swartwout, President.

COLLINWOOD.—Lake Shore Railroad will erect passenger station and freight depot in this city.

COLUMBUS.—State has purchased site on E. Broad St. for erection of State office building.

COLUMBUS.—Local architects have been asked to submit bids by April 15 for erection of \$300,000 machinery hall. Dr. J. F. Jones, Chairman General Committee.

Architect F. S. Rusk is preparing plans for erection of number of buildings.

GROVE CITY.—Architect E. E. Pruitt, Y. M. C. A. Bldg., Columbus, is preparing plans for erection of \$15,000 school house.

KENTON.—Immaculate Conception Parish will erect \$75,000 edifice.

UTICA.—Architect C. L. Incho, Brunson Bldg., Columbus, is planning erection of three-story business block for S. C. Wright & Co.

OKLAHOMA

DURANT.—Citizens will vote on \$10,000 bonds for erecting school building.

DURANT.—Prof. M. E. Moore will erect colonial residence on Elm St. Jewell Hicks & Co., Architects.

OKLAHOMA CITY.—First Methodist Church will expend \$100,000 in erecting four churches.

Packtown State Bank will erect building. J. M. Browning, Mill Creek, President.

OREGON

KLAMATH FALLS.—Mrs. Livermore & Sons, Livermore Hotel, will at once erect \$75,000 hotel on Pine St.

LAKE VIEW.—Citizens have voted to erect \$40,000 high school.

PORTLAND.—J. & A. B. Leve will erect two apartment houses on Corbett St. Cost \$20,000.

SELLWOOD.—Plans and specifications have been completed for \$16,000 Sellwood branch Y. M. C. A. building to be erected on Fifteenth and Spokane Sts. Contract will be let some time in April.

THE DALLES.—Architect R. N. Hockenberry, Washington Bldg., Portland, has been commissioned to prepare plans and specifications for a Masonic Temple to be built on corner of Court and Third Sts.

PENNSYLVANIA

ALTOONA.—Third Presbyterian Church will erect edifice. T. S. Davis, Chairman Building Committee.

AMBLER.—C. E. Schermerhorn and Watson K. Phillips, Associate Architects, 430 Walnut St., Philadelphia, have been awarded competition for bank building for the First National Bank.

HARRISBURG.—Local Elks have adopted plans for \$35,000 home. C. H. Kain, Architect.

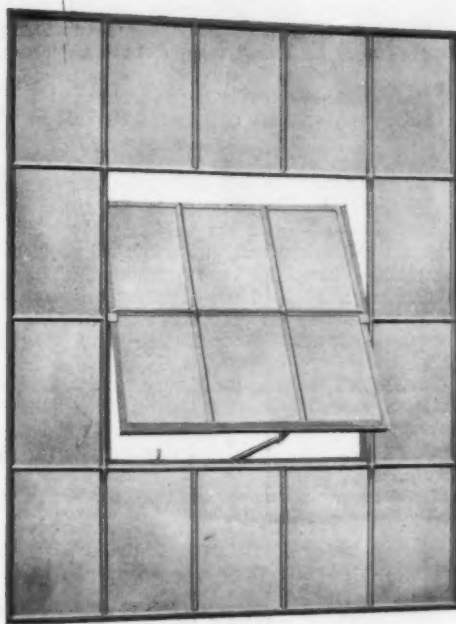
Bids are being received for erection of parsonage at Sixth and Granite Sts. for Fifth St. Methodist Church. M. I. Kast, 204 Market St., Architect.

LANGHORNE.—Architect Rowland W. Boyle, 1626 Chestnut St., Phila., has completed plans for \$12,000 Catholic Church. Rev. Miles A. Keegan, Rector.

LEBANON.—United Brethren Church, Annville, will erect edifice. Rev. M. B. Spayd, Pastor.

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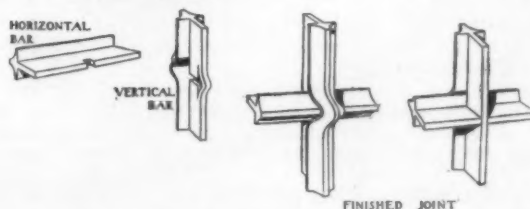
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Brossy Dye Works, Detroit, Mich.
Dodge Mfg. Co., Mishawaka, Ind.
Frederick Stearns & Co., Detroit, Mich.
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New York Central & Hudson River Shops, West Albany, N. Y.
Nelson Building, Chicago, Ill.
Detroit United Railway, Detroit, Mich.
Detroit Edison Co., Detroit, Mich.
F. P. Beaver Power Bldg., Dayton, O.
M. A. Bradley Co., Cleveland, O.
Gemmer Mfg. Co., Detroit, Mich.
Turkey Creek Pumping Station, Kansas City, Mo.
Carnegie Steel Co., Bellaire, O.

Syracuse, L. S. & No. Ry., Syracuse, N. Y.
Jenks & Muir Mfg. Co., Detroit, Mich.
Carpenter Steel Co., Reading, Pa.
American Optical Company, Southbridge, Mass.
Alfred James Garage, Bala, Pa.
Western Motor Co., Marion, Ind.
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U. S. Steel Corporation, Gary, Ind.
Parker-Blake Bldg., New Orleans.
Bath Iron Works, Bath, Me.
Hecla Iron Works, New York.
F. C. Sauer Building, Pittsburg, Pa.
Little Wheel Co., Quincy, Ill.
H. B. Taylor Est., Buffalo, New York.
North Adams Gas Light Co., North Adams, Mass.
Northern Pacific Freight House, St. Paul, Minn.

Rice & Hutchins Shoe Factory, So. Braintree, Mass.
Lehigh University Laboratories, So. Bethlehem, Pa.
Toledo Plate & Window Glass Co., Toledo, O.
Davenport Machine & Foundry Co., Davenport, Ia.
Reinforced Concrete Pipe Co., Detroit, Mich.
Stroh Brewing Co., Detroit, Mich.
Metropolitan Electric Co., Reading, Pa.
Minneapolis Bedding Company, Minneapolis, Minn.
Hennegan Printing Co., Cincinnati, O.
National Malleable Castings Co., Sharon, Pa.
J. M. Kohler Sons, Sheboygan, Wis.
Nelson Valve Co., Philadelphia, Pa.
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NEW ORLEANS—American Sheet Metal Works, P. O. Box 576.
SAN FRANCISCO—J. E. Dwan & Co., 151 Tehama St.

BUFFALO—Jas. P. Hunt, 14 Builders Exchange
HOUSTON—Louis G. Hester, 317 1-2 Main St.
GRAND RAPIDS—Frederick H. McDonald, 619 The Gilbert
WASHINGTON, D. C.—Robert S. Bishop, The Evans Building.

DETROIT STEEL PRODUCTS COMPANY, Manufacturers
DETROIT, MICHIGAN, U. S. A.

PHILADELPHIA.—Attorney Samuel Clement, Jr., will erect large residence at Towanda St. and Springfield Ave., Chestnut Hill.

PHILADELPHIA.—Architect E. Allen Wilson, Land Title Bldg., is making plans for \$60,000 apartment house in Germantown.

PHILADELPHIA.—La Mott A. M. E. Church will erect \$10,000 edifice at Church Lane and city line. C. H. Wilson, architect.

White & Wolfe have finished plans for erection of operation of thirty-one houses for Overbrook Construction Co. at Sixty-second St. and Lansdowne Ave.

PHILADELPHIA.—Bell Telephone Co. will erect \$25,000 factory building at Seventeenth St. and Allegheny Ave.

Frank Seeburger is designing a \$30,000 residence to be erected at Merion for the Highland Avenue Improvement Co.

John J. Connor is having plans prepared by Architect E. Allen Wilson, Land Title Bldg., for erection of two large flat buildings, to cost \$100,000, at Fifty-second and Regent Sts.

PHILADELPHIA.—Architects Duhring, Okie & Ziegler, Bailey Bldg., have completed plans for \$35,000 colonial residence which Liarry W. Harrison will erect at Devon.

Crain Pump & Lumber Co. will erect factory on Tacony St., Frankford.

PITTSBURG.—Syria Temple will erect \$250,000 temple on Schenley Farms. Plans not yet adopted.

A. Goldberg will have three-story brick store and apartment building erected on Carson St., South Side, from plans by W. A. Thomas, Park Bldg., architect.

PRICEBURG.—Architect Lewis Hancock, Jr., Coal Ex. Bldg., Scranton, will prepare plans for \$50,000 edifice for congregation of St. Mary of the Visitation. Rev. Jos. Dudkiewicz, Pastor.

SHAMOKIN.—Plans will be completed in about five weeks for erection of proposed federal building. Jas. Knox Taylor, Supervising Architect.

SHAMOKIN.—H. Steward has engaged Architects Jury, Kesler & Lee to draw plans for double frame home to be erected at corner of Liberty and Dewart Sts. E. M. Leader has engaged the same firm to draw plans for a fireproof garage on Dewart St.

WILKES-BARRE.—Apartment house, cost \$25,000, is soon to be erected on South Main St. Plans have been prepared by Welsh, Sturdevant & Poggi, Coal Exchange Bldg.

YORK.—Architect C. A. Keyworth is preparing specifications for new Central National Bank building, corner of North George and Philadelphia Sts., and also for addition proposed for Ridge Ave. public school building.

Assistant Secretary of the Treasury Hillies has approved sketch plans prepared by Supervising Architect Taylor for proposed \$265,000 public building.

YORK.—Ridge Avenue Episcopal Congregation is considering erection of edifice. Rev. S. S. Carnell, Pastor.

RHODE ISLAND

LINCOLN.—Erection of town hall is being considered.

PAWTUCKET.—Church of Our Father will rebuild edifice at cost of \$30,000. J. A. Arnold, Chairman, Building Committee.

TENNESSEE

CHATTANOOGA.—Architect J. G. Barnwell has prepared plans for erection of apartment house on corner of Walnut and Third Sts. for R. D. Twinan.

KNOXVILLE.—Local Eagles have purchased site at State St. and Church Ave. for proposed home.

Knox County Industrial School will rebuild dormitory destroyed by fire.

TEXAS

BROWNSVILLE.—A. Dittman will erect opera house. Site purchased.

BURKBURNETT.—Citizens have voted \$16,000 bonds for erection of modern school building.

DALLAS.—Southland Life Insurance Co. will at once erect twelve-story \$250,000 building at Commerce and Ray Sts. G. W. Riddle, Chairman Building Committee.

EL PASO.—Mrs. Mary H. Allen is having plans prepared for erection of apartment house at Missouri and Oregon Sts.

FORT WORTH.—Bids will soon be asked for erection of fire house in Glenwood.

HOUSTON.—Gally Amusement Company, of New York, has drawn up plans for \$40,000 theater and roof garden to be constructed in central part of city.

JACKSBORO.—Citizens have voted to erect \$35,000 school.

LOCKHART.—Citizens will vote April 11 on \$15,000 bonds for erection of fire station and city hall.

LOCKNEY.—Citizens have voted \$13,500 for erection of school.

KINGSVILLE.—Plans are being prepared for Kleberg Bank Bldg., which will cost about \$80,000 when completed.

SAN ANGELO.—Local Elks will erect \$20,000 club house. C. A. Broome, Chairman Special Committee.

SAN ANGELO.—Council is considering plans for erection of \$15,000 fire station.

SAN ANTONIO.—Maverick-Clark Lithographing Co. will erect plant at 404 Soledad St.

SAN ANTONIO.—Rev. A. W. S. Garden, Tenth St. and Avenue C, has purchased land in Highland Park as a site for new school.

WICHITA FALLS.—Fort Worth & Denver and Wichita Falls & Northwestern Railroads will erect union depot.

VIRGINIA

BASIC.—School building will be erected this summer. F. M. Somerville, Superintendent of County Schools.

COLONIAL BEACH.—Town has voted \$10,000 bonds for erection of town hall and school, and for street improvements.

LYNCHBURG.—Plans have been prepared by Messrs. Reed & Stem, architects, 7 E. Forty-second St., New York, for \$15,000 brick residence for Mr. F. S. Kirkpatrick.

LYNCHBURG.—Council is considering plans for \$30,000 city hospital.

NORFOLK.—Reed & Stem, 601 Endicott Bldg., St. Paul, Minn., have been appointed architects for proposed \$2,000,000 union depot.

NORTON.—Citizens have voted \$15,000 bonds for erection of town hall.

PORTSMOUTH.—Erection of addition to King's Daughters' Hospital is being considered.

WASHINGTON

ABERDEEN.—Methodist Church has had plans prepared for immediate erection of \$35,000 church.

ELLENSBURG.—A. M. Wright is planning to erect \$10,000 garage at corner of Fourth and Water Sts.

MONROE.—Citizens have voted \$60,000 bonds to erect high school.

SEATTLE.—Architect V. M. Voorhees, Eitel Bldg., is preparing sketches for \$30,000 frame or brick veneer apartment house to be erected at Belmont Ave. and John St.

Citizens have voted \$325,000 for purchase of city hall site and \$821,000 for other improvements.

SEATTLE.—Howells & Stokes, Architects, White Bldg., are preparing plans for \$150,000 building to be erected on corner of Sixth Ave. and Union St.

SEATTLE.—Kingsley & Eastman, architects, Empire Building, are preparing plans for immediate erection of four-story store and apartment building on corner of Seventh Ave. and Westlake Boulevard for A. L. Spotts.

SPOKANE.—C. F. Lucas will erect three-story \$50,000 building at corner of Third Ave. and Post St.

John King will erect \$12,000 house on Boone Ave. Plans by the Ballard Plannery.

WISCONSIN

JUNCTION CITY.—State Bank will erect home this Spring.

LA CROSSE.—Adams Patent Wheel Co., Cassville, will establish branch plant in this city.

MELLON.—Plans are being prepared for immediate erection of \$50,000 high school.

MILWAUKEE.—John A. Butler is considering erection of twelve-story \$400,000 building at Grand Ave. and Third St.

MILWAUKEE.—Architects Schnetzky & Son have prepared plans for proposed \$50,000 Lutheran Altenheim to be erected at Wauwatosa and North Aves., Wauwatosa.

OSHKOSH.—Oshkosh Lodge No. 292, Benevolent and Protective Order of Elks, has decided to erect a clubhouse.

PORTAGE.—County Board will erect \$25,000 teachers' training school in Lewis Park.

SHEBOYGAN.—Goodrich Transit Co. will erect office building.

STEVENS POINT.—Plans will be commenced this spring by Supervising Architect J. K. Taylor, Washington, D. C., for erection of federal building.

WEST ALLIS.—Kearney & Trecker will erect \$25,000 addition to plant.

WAUSAU.—Wausau Sulphite & Fiber Co. will erect \$250,000 plant. F. P. Stone, G. D. Jones and others are interested.



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PROPOSALS

Treasury Department, Office of the Supervising Architect, Washington, D. C., March 3, 1910.—Sealed proposals will be received at this office until 3 o'clock P. M., on the 27th day of April, 1910, and then

opened, for the construction complete (including plumbing, gas piping, heating apparatus, electric conduits and wiring), of the United States Post Office and Court House at Enid, Okla., in accordance with the drawings and specification, copies of which may be obtained from the Custodian of site at Enid, Okla., or at this office at the discretion of the Supervising Architect.—James Knox Taylor, Supervising Architect. (1786-7)

Treasury Department, Office of the Supervising Architect, Washington, D. C., March 16, 1910.—Sealed proposals will be received at this office until 3 o'clock P. M. on the 25th day of April, 1910, and then opened, for the extension, etc., except elevator (including plumbing, gas piping, heating apparatus, electric conduits and wiring) of the United States Post Office at Kansas City, Kan., in strict accordance with drawings and specifications, copies of which may be obtained from the Custodian at Kansas City, Kan., or at this office at the discretion of the Supervising Architect.—James Knox Taylor, Supervising Architect. (1787-8)

Treasury Department, Office of the Supervising Architect, Washington, D. C., March 14, 1910.—Sealed proposals will be received at this office until 3 o'clock P. M. on the 19th day of April, 1910, and then opened, for the construction (including plumbing, heating apparatus, electric conduits and wiring), of the U. S. Post Office at Concord, N. C., in accordance with drawings and specifications, copies of which may be had from the Custodian of site at Concord, N. C., or at this office at the discretion of the Supervising Architect.—James Knox Taylor, Supervising Architect. (1787-8)

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Treasury Department, Office of the Supervising Architect, Washington, D. C., March 15, 1910.—Sealed proposals will be received at this office until 3 o'clock P. M., on the 20th day of April, 1910, and then opened, for the construction (including plumbing, gas piping, heating apparatus, electric conduits and wiring) of the United States Post Office at Greencastle, Ind., in accordance with the drawings and specification, copies of which may be obtained from the Custodian of site at Greencastle, Ind., or at this office at the discretion of the Supervising Architect.—James Knox Taylor, Supervising Architect. (1787-8)

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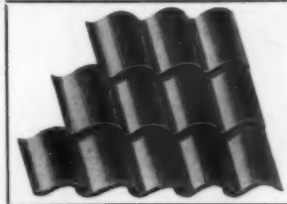
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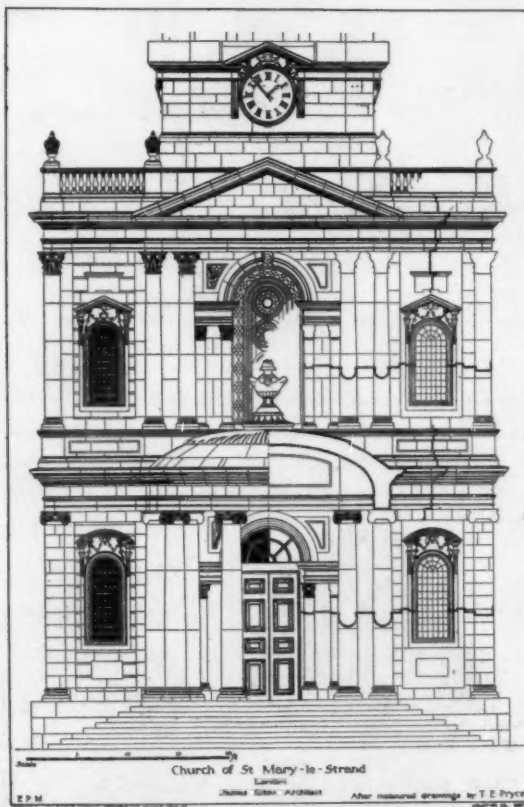
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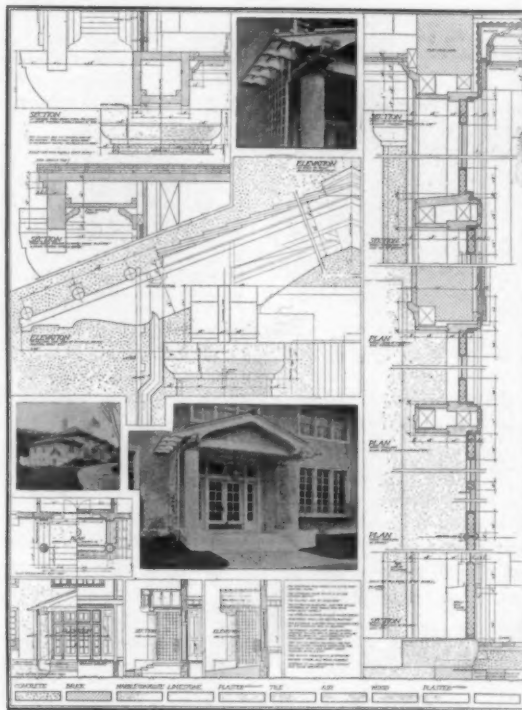
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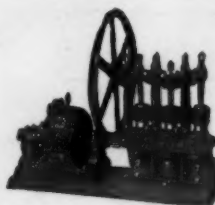
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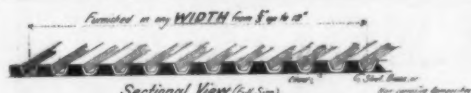
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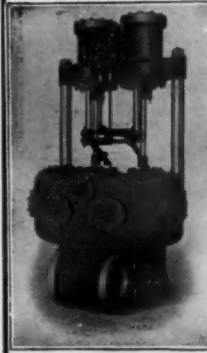
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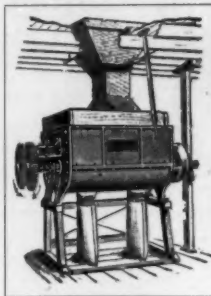
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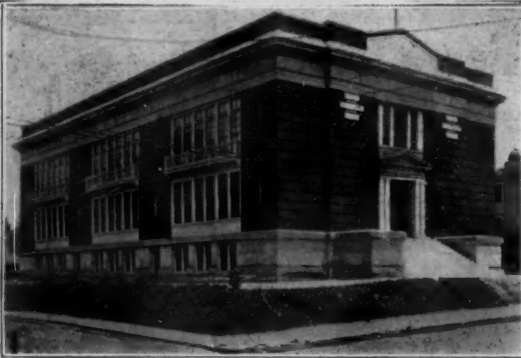
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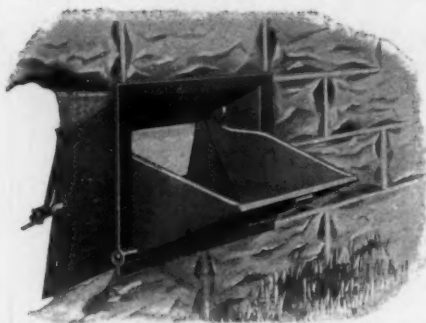
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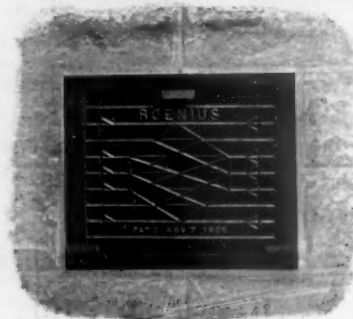
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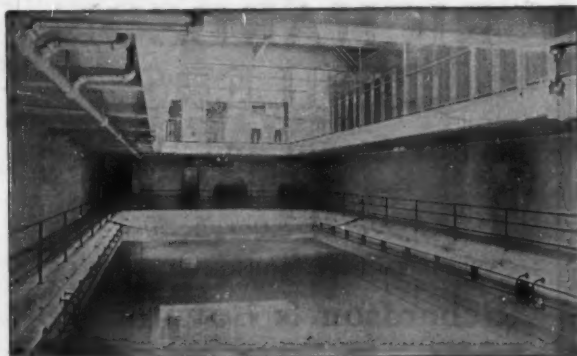
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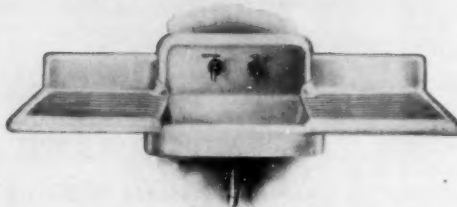
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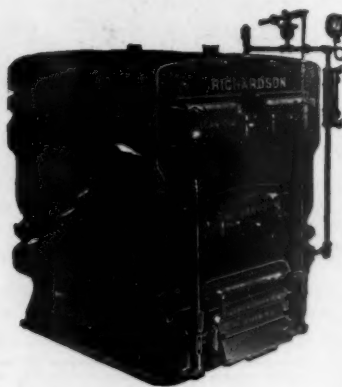
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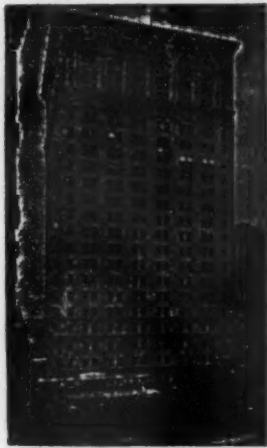
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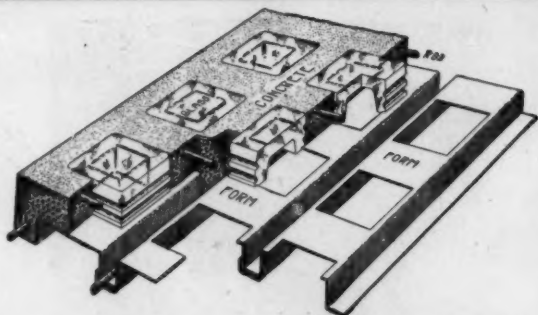
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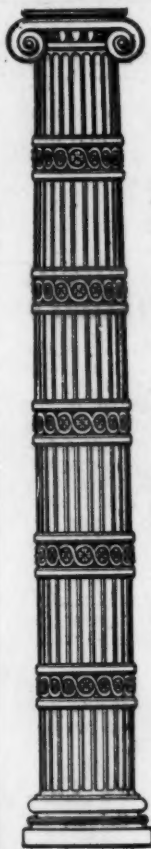
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ROOFING SLATE in America*

WEST PAWLET - VERMONT

Residence of Mrs. E. M. Johnson
Covered with Rising and Nelson Slate Co.'s Sea Green Slate
Crosby & Henkel, Architects
New Orleans, La.
Jordy Bros. Slate Co., Roofers

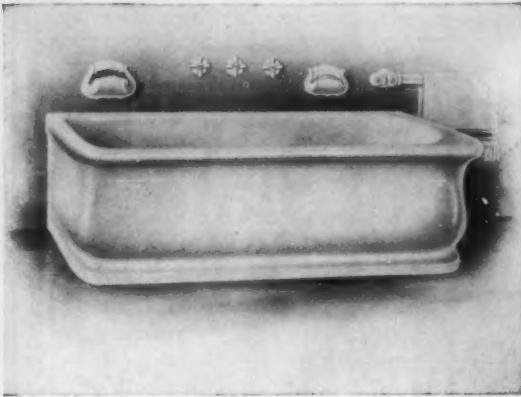


PLATE 3KH
A New Feature in the Bath
Our "Ideal" Porcelain "Columbia"
Bathtub on Base

No exposed nickel to become tarnished and therefore polished. The supplies are all china knobbed and the outlet is through the back at center of tub.

Tiled in a wall, making easy cleaning and no danger of dirt collecting behind tub.

A space saver for the small bathroom, closet may be placed on one side and lavatory on the other.

The Selection of the Bath is of equal importance with the choice of your building material

WHILE the great qualification of a bathroom is absolute cleanliness, it must be borne in mind to obtain this the fixtures installed must be those of the most durable materials and which will withstand the regular uses to which a bathroom is subjected.

"Ideal" Solid Porcelain Ware and "Impervio" Vitreous China are acknowledged to be the very best fixtures obtainable, being made of solid clay throughout and further strengthened by the glazed surface.

Largest manufacturer of Sanitary Pottery, the makers of greatest variety and best quality wares.

*The Trenton
Potteries Company*
Trenton, N. J., U. S. A.

Hardwood Floors

A pleasing thought to any owner, but thousands with whom every dollar counts have an idea that the cost is prohibitive. For that reason, it is up to architects to call their attention to the results that can be obtained with



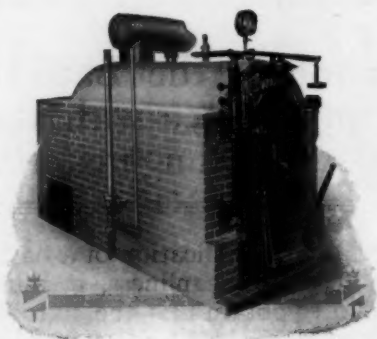
Gymnasium, Georgetown University, Washington, D. C.
Ewing & Chappell, Architects

Yellow Pine Edge Grain Flooring

Their clients **expect** them to do everything they can which will give them the best results for the money expended. **YELLOW PINE EDGE GRAIN FLOORING** in narrow widths (obtained from any first class lumber dealer) is more economical and more durable than any other hardwood, and in appearance it will stand comparison with quartered oak when treated properly.

Specifications for finishing will be sent upon application. Correspondence is solicited.

Yellow Pine Manufacturers' Association
Suite 707 Wright Building St. Louis, Mo.



KEWANEE BOILERS WIN PLAUDITS

Testimonials are the oldest form of advertising—sometimes the best. The world has a willing ear and is always ready to hear what the other fellow has to say. If the testimonials are on the square *you can't beat it*. It makes you *think*. We have more testimonials for the Kewanee Fire-box Boiler than there are Hints on Practical House Keeping. We'll serve 'em in small doses just as an ante-antidote against Fretful Boilers and Fitful Heating methods. Our dope never fails to cure.

Our testimonials are from serious minded men who are the owners and managers of the finest renting properties in the big cities of the Union, and these men state unequivocally that the Kewanee Boiler has made their buildings steadily desirable.

Regelin, Jenson & Company of Chicago, have this to say: "In the ten years we have managed apartment buildings where Kewanee Fire-box Boilers are installed we have found them to be the best we have ever used." This from McKey & Poague of Chicago: "The Kewanee Boilers have given very good satisfaction in every instance. So far as we know there is no better boiler on the market than yours." Cochran & McCluer say: "Our experience with Kewanee Fire-box Boilers has been very satisfactory indeed and we have no hesitancy in recommending them." We've got a lot more of them from all over the country.

Send to the Old Man Behind
the Boiler for No. 54 catalogue.
It describes the Fire-box Boiler.

KEWANEE BOILER COMPANY
KEWANEE, ILLINOIS

"Out of the Ordinary" Roof Slates

We furnish roof slate of an especial high quality for those who require slate better than the "ordinary stock kind," and in unfading colors.

Blue Black Slate
Red Slate

Our quarries are situated in different parts of the country, each location furnishing a special color or grade of unvarying quality.

Purple Slate
Green Slate

This slate is furnished in thicknesses varying from $\frac{3}{4}$ " fine to $1\frac{1}{4}$ " fine in regular dressed edges. Sawed edges when specified.

Bring your slating problems to us; our experience is at your command. Let us advise you on your "out of the ordinary requirements."

Variegated Green
and Purple Slate

**Unfading Mot-
tled Purple and
Green Slate**

*To avoid unsatisfactory results
specify "The E. J. Johnson
Co. production"*

E. J. JOHNSON

Special Roofing
Slate Producers

38 PARK ROW, NEW YORK
626 PARK BUILDING
PITTSBURGH, PA.

Some of the
Advantages of Standard Fire Proof Construction
of
TERRA COTTA HOLLOW TILE
From the Standpoint of Practical and Economical Construction.

INDEPENDENCE OF WEATHER.

Floor Arches of Hollow Tile may be laid at any time of year regardless of weather temperature, rain or snow.

SPEED IN PLASTERING.

Arches may be plastered the day after they are laid, if necessary to rush work.

BRACING FOR STRUCTURE.

Tile Arches assist the wind bracing of the structure because they fill the total depth of the steel beams, and act as horizontal bracing for the entire structure. In comparison with this, concrete floor slabs rest only upon the upper third of the beams, are usually one-third as deep as Tile Arches, can not efficiently transmit the horizontal stresses caused by wind pressure in high buildings, and, by reducing the efficiency of the floors as braces, increase the amount of steel necessary to provide against horizontal stresses.

MINIMUM WEIGHT.

Tile Arches weigh less per square foot than any other form of fire proof floor construction of equal strength, and, consequently, greatly reduce the dead load on the structural steel and foundations.

SOUND PROOF.

Hollow Tile Arches have usually from two to four cells and are therefore excellent non-conductors of sound. An extremely important consideration in hotels, hospitals, office buildings and structures of similar occupancy.

RAPID CONSTRUCTION.

The false work, or centering, required in setting Tile Arches may be removed within twenty-four hours after arches are laid. Centering for concrete floors must, under the most favorable conditions, remain in place at least ninety-six hours, and, in event of constant rain or low temperature weather, must frequently be kept standing two weeks or more, necessitating great delay in completing building, as contractors for other work can not proceed while centering remains in place.

ELIMINATION OF MOISTURE.

The cement mortar joints in Tile Arches dry out rapidly, permitting of the immediate laying of finish flooring and wood trim without risk of damage by moisture. Concrete floors are set in a wet, plastic condition, dry slowly, and the moisture remaining in them frequently causes the warping and buckling of floor finish and trim.

How can you be *sure* of the best and most economical fire-proofing—or either—unless you figure with the largest company in the world devoted exclusively to the manufacture and erection of *fire proofing for buildings?*

NATIONAL FIRE PROOFING COMPANY

Manufacturers of

TERRA COTTA HOLLOW TILE FIRE PROOFING

Contractors for Fire Proof Construction

Capital Twelve and One-Half Million Dollars

Pittsburgh, - - - Fulton Building
 New York, - - - Flat Iron Building
 Boston, - - - Old South Building
 Chicago, Commercial Nat'l Bank Bldg.
 Philadelphia, - - - Land Title Building

Washington, - - - Colorado Building
 Canton, - - - City Nat'l Bank Building
 Cincinnati, - - - Union Trust Building
 Cleveland, - - - Cuyahoga Building
 St. Louis, - - - Bank of Commerce Bldg.

Minneapolis, - - - Lumber Exchange
 San Francisco, - - - Monadnock Building
 Toronto, Can., - - - Traders Bank Building

26 Factories Throughout the United States

OTIS RESIDENCE ELEVATORS



ENTRANCE TO OTIS RESIDENCE ELEVATOR

¶ When planning a modern residence be sure the plans include an

OTIS AUTOMATIC ELECTRIC PUSH BUTTON ELEVATOR

¶ This elevator requires no attendant and is so constructed that a child can operate it with absolute safety.

¶ It cannot be operated if the interlocking doors or gates are left open but responds immediately to the pressure of the button when the doors are closed and stops automatically when the desired floor is reached.

Catalogue A-9 mailed on request

OTIS ELEVATOR COMPANY

OFFICES IN ALL THE PRINCIPAL CITIES OF THE WORLD



THE KEWANEE SYSTEM OF WATER SUPPLY



Perfect Water Supply Service

The residences and bungalows illustrated on this page are provided with all the sanitary conveniences which would be possible with a good water supply service. In each, a liberal supply of running water is available at all plumbing fixtures and outside connections; and that supply has strong pressure behind it. This splendid water supply service is furnished by—



Residence of R. J. Bagby, New Haven, Mo.

The Kewanee System of Water Supply

In the Kewanee System, there is no attic or elevated tank to leak, freeze, overflow or collapse, or to mar the beauty of the scenery. Instead, a Kewanee Pneumatic Tank is placed in the **cellar** or buried in the **ground**. Water is pumped into this tank from any source of supply, with any good pumping power; and it is delivered to the fixtures by **air pressure**.

The Kewanee System is not an experiment—there are over 10,000 of our plants in successful operation. Every Kewanee System is thoroughly guaranteed—we take all the risk and responsibility.



Residence of Gen. H. O. Corbin. D. H. Burnham Co., Architects.

Mr. R. J. Bagby, whose residence is illustrated on this page, wrote: "The Kewanee System works perfectly and is satisfactory in every respect."

Rev. J. Wilbur Chapman, whose place is shown below says: "We are perfectly delighted with the Kewanee System which supplies our country house with water, and I wish again to thank you for sending me so fine an outfit."

Mr. B. M. Hord's compliment is this: "My Kewanee System is absolutely perfect."

Gen. H. O. Corbin said: "The Kewanee System works better than I thought possible—all like it very much."

Let us show you what we can do for **you**. We make no charge for our specifications and estimates. Our engineering department is at your service; and our broad practical experience will be of value to you.

Our illustrated catalogue will give you full information regarding the Kewanee System. It is free. Please mention this magazine when you write.

Kewanee Water Supply Company, Kewanee, Illinois.

1566 Hudson-Terminal Building, 50 Church Street, New York City.

1212 Marquette Building, Chicago, Illinois.

305 Diamond Bank Building, Pittsburg, Pa.



H. N. Edwards, San Jose, Cal.



Rev. Dr. J. Wilbur Chapman, Winona Lake, Ind.



B. M. Hord, Nashville, Tenn.

Three Bungalows supplied with water by Kewanee Systems

"Detached Dwellings"

Sent on approval to any subscriber to our publication interested in Detached Dwellings. Examine the work at our expense before buying. Use attached blank—no other will be accepted on this proposition.

A collection of 96 illustrations, size 9 x 12, showing examples of modern American homes costing from \$5,000.00 to \$20,000.00 and designed by 35 of the leading Architects in America who have attained the greatest success in that class of work.

DETACHED DWELLINGS



Country
and
Suburban



All other similar publications represent the work of one man.

Exterior views in beautiful half-tones and floor plans in line are given in connection with each house.

This collection will enable you to take advantage of the best points embodied in designs which have passed the criticism of the highest authorities upon architecture.

In Portfolio or Bound in Cloth, \$5.00. 5% Off for Cash.

The American Architect

New York

THE AMERICAN ARCHITECT _____ 1909
231-241 West 39th St., New York

Gentlemen:—Please send one copy of "Detached Dwellings"—Bound—Portfolio—on approval to the following address: Price to be Five Dollars (\$5.00) prepaid.

If not satisfactory we agree to return at our expense in perfect condition, within "three days" from date of this order.

Name _____

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3-23-10

Give your clients what they should have—The Best There Is

Take, for instance, closet seats; suppose you specify just the ordinary seats; suppose these seats check, shrink, come apart at the joints and all that sort of thing—which the average seat is more than likely to do—what is there to it for you, anything but kicks, grouches and loss? Don't do it, as you value your good reputation as an architect or builder of responsibility. Specify the

Never Split Closet Seats

These seats are wholly and distinctly better than any other seats made by anyone anywhere. There are proofs and reasons without end that this is so and you are asked to take no chances in the use of them. Not only do

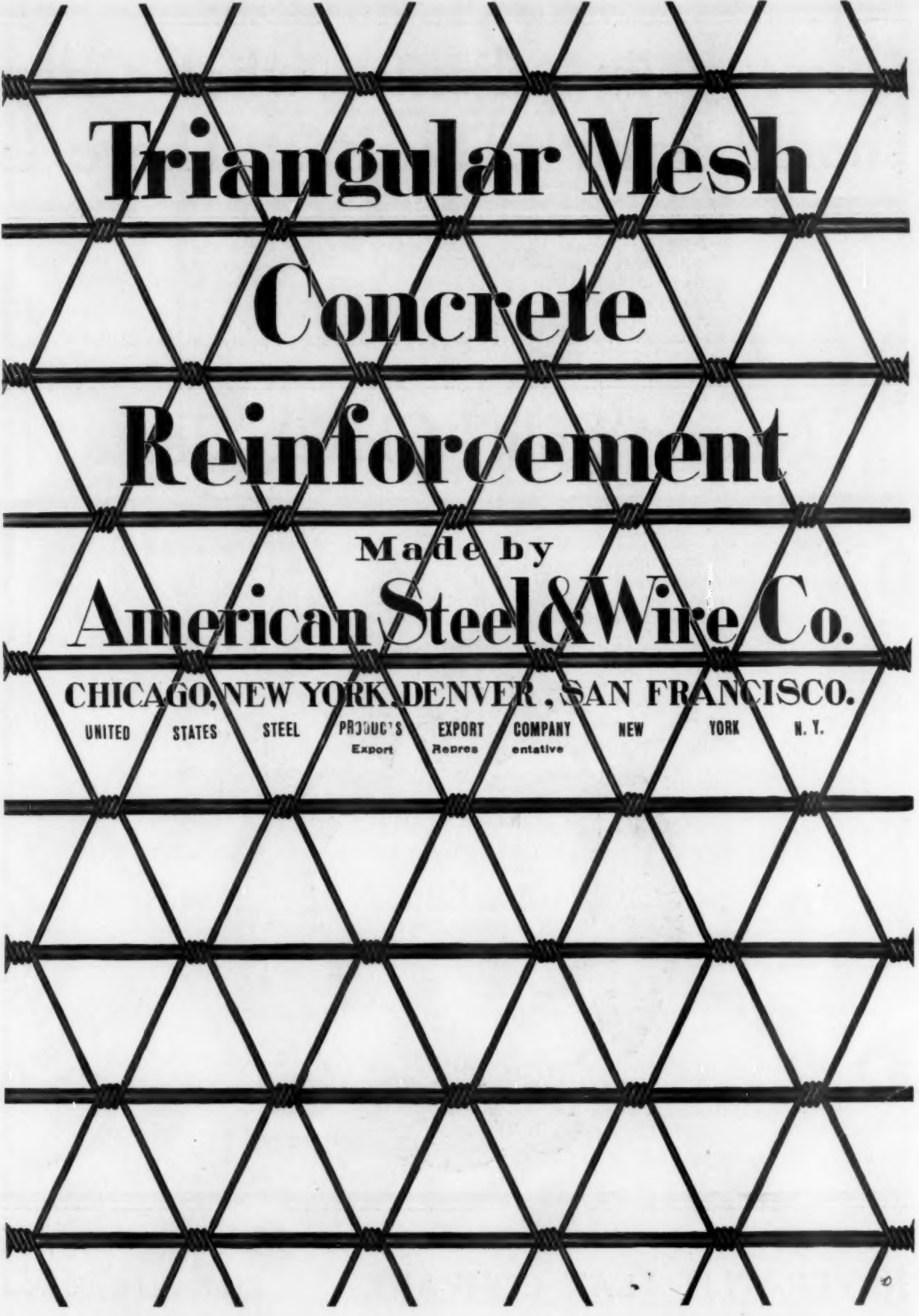
we say to you that these seats won't split, crack, come open at the joints or sliver, but we back it with a guarantee that runs for five years, a real guarantee that guarantees.



For Specification requirements see page 8 of our Catalogue "C"

NEVER-SPLIT SEAT COMPANY

EVANSVILLE, INDIANA



Triangular Mesh Concrete Reinforcement

Made by
American Steel & Wire Co.

CHICAGO, NEW YORK, DENVER, SAN FRANCISCO.

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HOWARD VAN DORN SHAW
Architect, Chicago

GOODRICH BUILDING
New York

WAIDE & WILLAUER
Associate Architects, New York

The illustration shows one of the two entrance doorways of this building, constructed of

CREOLE MARBLE

From the Quarries of

THE GEORGIA MARBLE CO.

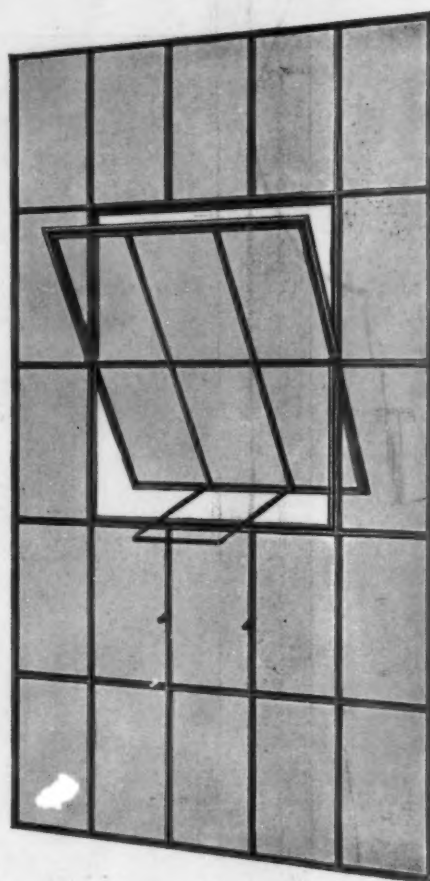
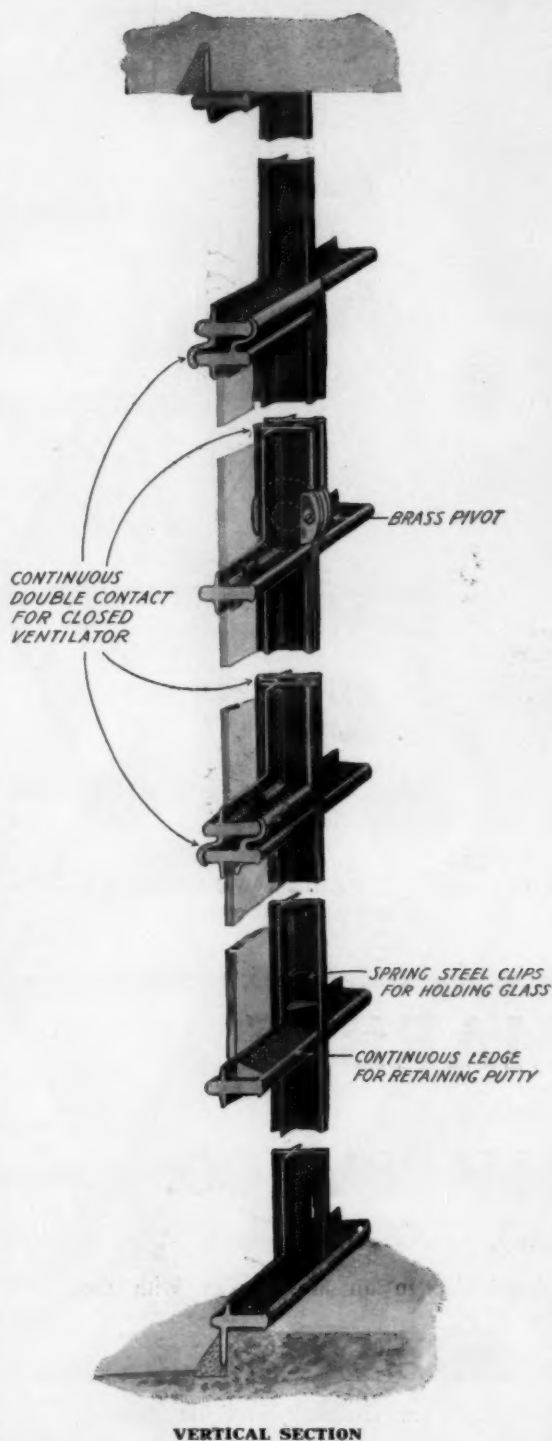
TATE, (Pickens Co.), GEORGIA

The warm blue graytones of this marble harmonize in an artistic way with the brick and stone used in construction. The texture of

CREOLE BLUE

as will be seen, permits of the most successful effects in chiseling, and the general result is attractive.

United Steel Sash



Made from the highest grade rolled steel sections—specially designed to give greatest strength and maximum light area. No weakening of frame by cutting out the metal at joints.

Greatest rigidity—Maximum lighting—Finest appearance.

Special ventilator frame with two continuous contact surfaces for keeping out drafts and rain, and with special locking device.

Special spring-steel clips for holding glass—Putty held positively in place by continuous ledge along steel section.

The United Steel Sash is ideal for windows of Factories, Foundries, Industrial Buildings, and Fireproof Structures of all kinds.

United Steel Sashes, including complete frames and mullions, are supplied to meet every condition.

Write for free catalog containing full size details.

TRUSSED CONCRETE STEEL COMPANY

718 TRUSSED CONCRETE BUILDING
DETROIT, MICH.

SOCIETIES

A NEW ARCHITECTURAL ORGANIZATION AT BRIDGEPORT, CONN.

Members of the profession located in Bridgeport, Conn., have recently perfected an organization to be known as the Bridgeport Architectural League. The object of the organization is to promote a fraternal spirit among the architects, draughtsmen, artist painters and artist sculptors living in Bridgeport. The newly elected officers are E. Moss Jackson, president; F. H. Beckwith, vice-president; C. W. Walker, secretary, and H. V. O'Hara, treasurer.

ARCHITECTURAL EXHIBITION AT PROVIDENCE, R. I.

The exhibition under the auspices of the Rhode Island Chapter, A. I. A., was opened on the evening of March 26 at the Rhode Island School of Design, Providence.

PERSONAL

Mr. Donn Barber, architect, announces his removal to new offices at 25 East Twenty-sixth street, New York.

Mr. James T. Norbett, architect, has opened offices in Sacramento, Cal., in addition to the one already at Chico. He would like to receive catalogues and samples at the Sacramento office.

Mr. Francis Pierpont Davis and Mr. Henry F. Withey, architects, Los Angeles, Cal., announce that they have opened offices in the Story Building, under the firm name of Withey & Davis. They desire to receive catalogues from the building trades.

We are informed that Mr. Joseph A. Garvin has retired from the firm of Hutchisson & Garvin, architects, Mobile, Ala., and that Mr. Alan A. Chester has acquired his interest. The firm will hereafter be known under the name of Hutchisson & Chester.

BOOK NOTES

THE FURNITURE STYLES, by Herbert E. Binstead, with Chapters on Modern Mission and Craftsman Furniture, by J. Newton Nind and Gustav Stickley. 210 pp., 6 by 9½ inches; full cloth; illustrated. Price, \$2.00. Chicago: Trade Periodical Co.

Most of us have a general idea of style in furniture, in so far that they can name its nationality, but it is only the well informed that can assign a piece to its particular period so that when we furnish the house we can secure consistency. Yet, as was pointed out by Mr. Lionel Moses in his article on the Colonial (Georgian Period), AMERICAN ARCHITECT, February 2, 1910, slight differences in style are sometimes not incongruous and present a well considered effect.

To the man who is interested in the history and development of furniture, Mr. Binstead's book will be a helpful and accurate guide. It is well written, but unfortunately illustrated from drawings which do not convey

as satisfactory an impression as photographs from the actual examples.

Even the casual observer will be impressed with the decadence of furniture styles where departure has been made from well recognized standards of design. One has but to study the chapters under the heads of L'Art Nouveau, British New Art and Mission or Craftsman furniture to learn what to avoid and to regret that the art of furniture making should at any period have lapsed into styles so foreign to good construction and artistic design.

CEMENT AND CONCRETE. By Louis Carlton Sabin, B.S., C.E. Second edition, revised and enlarged. Full cloth; 572 pp.; 5½x9 inches, with numerous illustrations and tables. Price \$4.00. New York: McGraw Publishing Co.

In the preface to this book the author states that he has attempted to place in one volume a connected story of the properties and use of cement. That his efforts have been largely successful will be found by even a cursory examination.

So rapid has been the extension of the use of cement, so varied has been its application that it may be truthfully stated that it has outstripped its literature. In the present instance, this work is a revision and enlargement of an earlier edition, and presents facts and tests that were unknown or in an experimental stage when the first edition was published.

Cement users generally will find this an important addition to their technical library, while the architect may include it among his books as a cyclopedic volume that will answer many questions arising in his practice.

CATHEDRAL CITIES OF SPAIN, by W. W. Collins, R. I.; illustrations by the author. Full cloth, 360 pp., 6½ by 8½ inches. Price, \$3.50. New York: Dodd, Mead & Co.

In this book we have one of the few examples where an artist is able to set down with his pen as well as with his brush the impressions of travel.

Not only has Mr. Collins a rare gift with water color and ability to appreciate the full meaning of his subject, but he combines a knowledge of architecture that makes his book a valuable addition to the architect's library.

The traveler in Spain, whose days are spent on sunny slopes and along the olive tree fringed and dusty roads of that delightful country are treasured in his memory, will, we believe dwell longest in his reminiscences on the hours spent at Seville. Perhaps he will have found Grenada equally to his liking, while some, sated with the wonders that have made these localities stopping places for the tourist, prefer the lesser cities of Segovia, Santiago, Leon or Orense.

The author, artist like, has given most of his book and his art to Seville and Grenada, although none of the less important cathedral churches have been slighted.

His work has been well done, and his book worth reading and studying, either by the reader who desires to renew his acquaintance with scenes almost forgotten or by one who seeks knowledge of these stateliest of the great buildings of Europe.

STRENGTH OF MATERIAL: An Elementary Study Prepared for the Use of Midshipmen at the United States Naval Academy. By H. E. Smith, Professor of Mathematics, U. S. Navy. Second edition, revised. Full cloth, 170 pp., size 5 by 7½ inches. Price, \$1.25 net. New York: John Wiley & Sons; London: Chapman & Hall, Ltd.

Professor Smith by experience and special study is well qualified to prepare a work on this important subject, and we unhesitatingly recommend it to the student as a valuable text book.

As can be readily understood, the preparation of a book that shall serve in the regular courses of the Naval Academy, whose students are preparing for the most arduous of technical professions, must be undertaken with a view to thoroughly grounding the pupil. This work serves its purpose in the highest degree and imparts a complete knowledge, based on the most rigid tests and experiments that can be secured.

INDUSTRIAL

BATHROOM FITTINGS

The principal requisite in bathroom fittings is that they be non-absorbent and readily cleaned. With these requisites in mind, the C. F. Church Mfg. Co., of Holyoke, Mass., have originated a line of fittings, ranging from the pull for flush tanks to the necessary furniture—chairs, stools, cabinets, mirror frames, etc.—that should appeal to the architect and owner who desires to specify or possess the most modern equipment.

This line is finished in White Pyralin finish, put on in sheet form, and it is claimed is absolutely germ proof. This finish is guaranteed to neither chip, crack, flake or lose color with time. Full information will be sent in answer to a request to the manufacturers.

METAL ROOFING

The Cortright Metal Roofing Co., whose main office and factory are at 50 N. 23d Street, Philadelphia, with Western office 134 Van Buren Street, Chicago, claim to be metal roofing specialists. They have been engaged in the manufacture of this form of roofing for twenty-one years, and believe that this experience, combined with the growing demand for their roofing entitles them to speak with authority on the subject of metal roofing.

They have published an illustrated pamphlet in which is shown many pretentious buildings which have been covered with their roofing, and in which is set down the advantages claimed for their product.

The pamphlet may be had on application.

SEWERS, TANKS AND WALLS

Pamphlet No. 8, of the series issued by the Northwestern Expanded Metal Co., Old Colony Building, Chicago, treats of the use of expanded metal in the construction of concrete sewers, tanks and walls.

Like the issues that have preceded it, it contains much information of value.

Familiarity with the new uniform standards of expanded metal, as described in this pamphlet, will make it easier for users to order material and eliminate many possibilities of error.

BELL RINGING TRANSFORMERS

It frequently happens that owing to exhausted batteries, or other causes, the electric bells in our houses refuse to ring. And it always happens that when this is the case some important caller or message has failed to reach us. To replace the usual batteries a new transformer has been perfected by the Westinghouse Electric and Manufacturing Co., of Pittsburg, Pa. It is claimed that at a very small expense one of these transformers will displace a number of the ordinary batteries and last indefinitely.

The sense of security and certainty that these transformers would afford would seem to warrant an investigation of the merits claimed for them.

Full particulars may be had by addressing the Westinghouse Electric and Manufacturing Co., of Pittsburg.

A NEW "TRUSS-LOOP" LATH

The Bostwick Steel Lath Co., of Niles, Ohio, whose steel lath has been favorably known to architects for some time, have perfected a new pattern, which they designate as "Truss-loop," and for which they claim many advantages over their earlier forms of metal lath.

The very general use of metal lath, in building, makes any improvement in its manufacture that will add strength and rigidity of interest. The Bostwick Steel Lath Co. has prepared much interesting trade literature on the subject, which, together with a sample of the lath, they will be glad to send to interested parties.

HOW TO FINISH FLOORS

Under the above title the Standard Varnish Works of New York and Chicago, have published an illustrated catalogue, intended to guide the architect and owner in the selection of materials and their proper application in the care of hardwood floors.

It primarily seeks to show the many good qualities which they claim for "Elastica," a form of floor varnish made by the Standard Varnish Works. This finish, it is claimed, does not readily mar or scratch, does not turn white on the application of water and needs no repolish or retouching.

The Standard Varnish Works will send this pamphlet on application.

BERGER'S FERRO-LITHIC PLATES

We cannot imagine a better way of showing the practical advantages and method of application of any article than that used in a pamphlet recently issued by the Berger Mfg. Co., of Canton, Ohio, designed to advertise their patented Ferro-Lithic Plates. Architects interested in the latest forms of concrete construction will find this a most instructive pamphlet and one that will repay sending for.

Ferro-lithic steel plates are plates whose crosswise sections show a continuous series of alternate dovetails. Because of this shape it is possible to apply concrete and plaster directly on the plates. This, it is claimed, insures light weight and low dead load. The application of these plates has been extended into many fields of constructive work, and this application is shown in the pamphlet above referred to.



Rutan & Russell, Architects, Pittsburgh

Cabot's Shingle Stains

THE ORIGINAL AND STANDARD

The only Shingle Stains that contain No Kerosene, Benzine or Other Cheapener. Made of the Best Pigments, Pure Linseed Oil and Creosote, "the Best Wood Preservative Known."

Samples of all colors on request

SAMUEL CABOT, INC., Sole Manufacturers,
BOSTON, MASS.

1133 Broadway, New York

350 Dearborn Avenue, Chicago

Cabot's Sheathing and Deafening Gullt, Waterproof Cement Stains, Waterproof Brick Stains, Conserve Wood Preservative.



JENKINS BROS. VALVES

are heavy and strong. They give good satisfaction to the user. They are easily kept tight, and as all parts are renewable, they are practically indestructible. Do not merely ask for "Jenkins" Valves, but insist on having JENKINS BROS.; they alone bear our Trade Mark, and are guaranteed. May we send you our catalog? 3

Jenkins Bros., New York, Boston, Philadelphia, Chicago

25,000 CONTRACTS

would be considered a good record. We have lighted over that number of Churches alone in all parts of the world. A pretty sure guarantee of satisfactory work. Correspondence invited.

I. P. FRINK, 551 Pearl Street, New York

ASPHALT FLOORS, ROOFS, SIDEWALK and CARRIAGE WAYS

of Public Buildings, Hospitals, Warehouses, Stables, Cellars, etc., laid with

VAL de TRAVERS ROCK ASPHALT

Durable, Fireproof and Impervious. For estimates and list of works executed, apply to

The Neuchatel Asphalt Co., Limited, 365 Broadway, New York

The Pigments in Dixon's Silica-Graphite Paint

are graphite and silica—both are inert and practically indestructible. The vehicle is first grade double boiled linseed oil. It's the best paint it is possible to make with the best record ever made. Write for 1909 edition of "Colors and Specifications."

JOSEPH DIXON CRUCIBLE COMPANY, Jersey City, N. J.

Durable Roof? Yes! Scott's Tin Roof.

Tin roofs weigh less, are more economical and easier built than other roofs.

But the most enduring Tin is "Scott's," as it will outwear the foundation or any other part of any building it goes on.

TRADE MARK
SCOTT'S
IX
EXTRA COATED
REGISTERED
HAMMERED
OPEN HEARTH

Scott's Extra Coated Roofing Tin

TRADE MARK
SCOTT'S
IX
EXTRA COATED
REGISTERED
HAMMERED
OPEN HEARTH

is made in Open Hearth Furnaces—the famous old Welsh process—which eliminates all ruinous excesses of Sulphur and Phosphorus, and frees the Tin of every blowhole and impurity.

Don't specify merely "Tin." Demand "Scott's"—giving roofing satisfaction and gaining clean building reputation.

Write to-day for our booklet "J"

FOLLANSBEE BROTHERS COMPANY, PITTSBURG, PA.

Only Manufacturers of Hammered Open Hearth Roofing Tin in America

BUILDING NEWS

To be of value this matter must be printed in the number immediately following its receipt, which makes it impossible for us to verify it all. Our sources of information are believed to be reliable, but we cannot guarantee the correctness of all items. Parties in charge of proposed work are requested to send us information concerning it as early as possible; also corrections of any errors discovered.

ALABAMA

BESSEMER.—Alabama Railroad Commission will at once select site for proposed passenger depot.

GADSDEN.—Business men donate \$150,000 for steel plant.

GADSDEN.—Architect C. E. Beardon, Chamberlain Bldg., Chattanooga, has completed plans for erection of proposed Etowah County Bank building at Third and Broad Sts.

ARIZONA

PHOENIX.—Latter Day Saints' faith, Mesa Ward, will erect \$25,000 church.

ARKANSAS

RUSSELLVILLE.—School Board will build two school houses. Frank W. Gibb, Little Rock, Architect.

SHREVEPORT.—Commercial National Bank will erect ten-story office building.

CALIFORNIA

FAIRFIELD.—Board of Supervisors of Solano County have adopted plans and specifications of Architects E. C. Hemmings, of Sacramento, and W. A. Jones, of Vallejo, for erection of \$250,000 county building.

LINCOLN.—Lincoln Union High School District has voted \$20,000 bonds for erection of high school.

LOS ANGELES.—E. L. Allen will erect eight-story \$80,000 office building on Hill St.

OAKLAND.—Hospital Committee, Board of Supervisors, will select site in city for erection of \$500,000 county infirmary.

OAKLAND.—Board of Education has decided to add to estimate of bond issue for educational purposes \$260,000 for site for high school.

SAN FRANCISCO.—Plans completed by Washington Miller for hotel building, Ninth and Mission Sts. Cost, \$80,000.

SAN FRANCISCO.—Architect Lewis Hobart, Crocker Building, will prepare plans for rebuilding club house of Burlingame Country Club.

Board of Supervisors has passed resolution authorizing following sums to be expended by Board of Works and Board of Education for construction and equipment of following schools: Marshall, \$50,000; Grattan, \$50,000; Peabody, \$50,000; Cleveland, \$50,000.

COLORADO

DENVER.—Sisters of St. Frances are considering erection of \$250,000 tuberculosis hospital. Site purchased.

DURANGO.—Durango Elks Lodge has decided to construct club building. Cost, \$35,000.

PUEBLO.—Site will at once be selected for erection of proposed Y. M. C. A. building. J. S. Temple, Denver, Chairman, Site Committee.

PUEBLO.—Vail Hotel Co. has been incorporated and will erect hotel on Grand Ave. M. G. Saunders and P. J. Dugan are interested.

ILLINOIS

CHICAGO.—International Steel Tie Co. is planning to erect \$200,000 plant in this city. W. P. Day, Vice-President.

KARPEN BROS. will at once erect proposed \$1,000,000 building at Michigan Boulevard and Eldridge Place. Marshall & Fox, 164 Dearborn St., Architects.

N. K. Fairbank Co. will erect large addition to factory at corner of Wentworth Ave. and Twentieth St.

Alexander Eisenstein and Samuel Eisenstein will erect large Jewish theatre on Blue Island Ave.

ROCKFORD.—Sketches will be received by Board of Education until 4 p. m. April 11, for twelve-room grade school building. Cost \$45,000. R. K. Welsh, President.

DELAWARE

SEAFORD.—Sussex Farmers' Union of Delaware will erect building in this city. R. J. Allen, President.

WILMINGTON.—G. W. Bush & Sons Co. will erect large warehouse. Site purchased.

WILMINGTON.—Plans and specifications will be prepared by

J. F. Leitner, Architect for Atlantic Coast Line, for Y. M. C. A. buildings at Rocky Mount, N. C., Florence, S. C., and Waycross, Ga. Each cost \$60,000.

DISTRICT OF COLUMBIA

WASHINGTON.—Southern Methodist denomination will erect \$350,000 edifice at Massachusetts Ave., Ninth and K Sts. J. C. C. Mays, Paintsville, Ky., President Building Committee.

FLORIDA

DAYTONA.—Staples and Cutten will erect business block on Magnolia Ave.

IVERNESS.—Bids will be received until noon, April 4, for erection of two-story jail. W. B. Talley, Jacksonville, Architect. W. F. Warnock, Secretary, Citrus County Commissioners.

ST. PETERSBURG.—Rev. J. W. Harris, Baptist Temple, is urging erection of emergency hospital.

TALLAHASSEE.—W. C. Hodges will erect three-story office building on S. Monroe St.

TAMPA.—G. A. Petteway and associations have decided to erect ten-story building. Site selected and plans adopted.

TAMPA.—Tampa Auto Club is considering erection of club house at Indian Rocks.

GEORGIA

ATLANTA.—Red Men's Wigwam Association is planning to erect building at 86 Central Ave.

WAYCROSS.—J. F. Leitner is drawing plans for C. & W. C. station.

IDAHO

CALDWELL.—Citizens have voted \$35,000 bonds for erection of high school.

ILLINOIS

BELLEVIEW.—Contracts will be opened April 2 for addition to St. Clair County Court House. Reister & Rubach, Architects. Cost, \$30,000.

ROCKFORD.—Lawrence E. Buck, Steinway Hall, Chicago, has been chosen as architect by Elks Building Committee of Rockford Lodge.

SALEM.—Bids for \$100,000 Marion County Court House have been rejected.

INDIANA

HARTFORD CITY.—Pennsylvania Railroad will erect \$15,000 depot in this city.

HOXIE.—Odd Fellows will erect two-story opera house and public hall.

SOUTH BEND.—Indiana & Michigan Electrical Co. are planning a \$10,000 addition.

WINCHESTER.—Gettinger & Mangas, Union City, have prepared plans for erection of large school in Randolph County.

IOWA

BENNETT.—Citizens have voted to erect \$10,000 school house.

CENTERTVILLE.—City will erect \$40,000 high school building this summer.

BRIGHTON.—All bids have been rejected for erection of school.

CLINTON.—Dr. J. C. Langan and Attorney R. C. Langan will erect business block at Fourth Ave. and Second St.

DES MOINES.—Swedish Lutheran Church will erect proposed \$100,000 building on Parker Place.

FAIRFIELD.—Bids will be received until 7.30 p. m., April 18, for erection of school. Ernest Koch, Ottumwa, Architect.

J. W. Dole, Secretary, School Board.

FORT DODGE.—Sacred Heart Parish is planning to erect \$12,000 residence for sisters. Rev. E. Heelan, Pastor.

KANSAS

ARGENTINE.—Federal Graphite Co., Warren, O., will erect \$30,000 factory in this city. L. L. Miller, Denver, Col., President.

HOXIE.—Hoxie State Bank will erect building. Site purchased.

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SAN FRANCISCO, CAL. E. 11TH ST. & 3RD AVE. OAKLAND.

BOSTON, MASS. 232 SUMMER ST.
PORTLAND, ORE. 40 FIRST ST.
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HUMBOLDT.—School Board has ordered site cleared for \$18,000 building to be opened in September.

HUTCHINSON.—Kelso, Mann & Kelso will have plans ready about April 15 for a \$50,000 Y. M. C. A. building.

NEWTON.—Bids to be advertised for rebuilding Battery F, Sixth Field Artillery Stables, at Junction City.

SALMA.—Kansas Wesleyan University has decided to raise \$25,000 for erection of gymnasium.

TOPEKA.—Bids will be received April 15, noon, for erection of Y. M. C. A. building. J. C. Holland & Son, Architects. Daisy June Trout, Secretary.

LOUISIANA

CROWLEY.—St. Michael's Catholic Church has had plans prepared for erection of \$25,000 edifice.

NEW ORLEANS.—Anthony Monteleone is considering erection of nine-story office building in Royal St.

PLAQUEMINE.—Site will be at once secured for erection of high school. Jos. Wilbert, President Site Committee.

VIDELIA.—Natchez & Western Railroad will erect depot in Carter Ave.

MARYLAND

ANTIETAM.—Norfolk & Western Railroad will erect brick station. Plans have been drawn.

BALTIMORE.—Contractors are estimating on new crypt of Diocesan Hall. E. H. Glidden, Glen Bldg., Architect.

BALTIMORE.—Jacob F. Gerwig, 210 E. Lexington St., architect, has finished plans for 17 two-story brick dwellings to be erected for Abel Rosenthal on Saratoga St. Cost, \$40,000.

The Rochester-Kirkness Realty Company will build 28 two-story brick dwellings on Hare St. Cost about \$34,000. Plans were drawn by Charles H. Broring, Architect.

BALTIMORE.—Stanislaus Russell, Architect, is making plans for 76 two-story brick dwellings to be erected by Millard F. Carter on Presstman St. Cost about \$200,000.

St. Pius R. C. Church will erect \$15,000 three-story parochial school. Rev. J. E. Dunn, Pastor.

CUMBERLAND.—Captain J. Philip Roman will erect hotel on site of Zion's Reformed Church.

MASSACHUSETTS

CHICOPEE.—School Committee has asked Board of Aldermen for \$58,000 bonds to erect school. U. P. Ames Carter, Chairman.

FT. STRONG.—Bids will be received until 10 a. m., April 18, for erection of one double set officers' quarters, one double set non-commissioned officers' quarters and one quartermaster's storehouse. Capt. A. M. Miller, Constructing Q. M.

HOLYOKE.—Mt. Tom Masonic Lodge is interested in proposed erection of temple. J. E. Bronson, Secretary.

Architects Ellsworth & Howes, 365 Dwight St., have been selected by Board of Public Works to prepare plans for contagious hospital to be erected in Cherry St.

NEW BEDFORD.—Architect C. R. Makepeace, 429 Butler Exchange, Providence, R. I., is planning erection of two mills in this city.

Architect N. C. Smith, Merchants' Bank Building, is preparing plans for erection of garage on Elm St. for John Duff.

WEST ROXBURY.—South Evangelical Society will erect building on Bellevue St. O. A. Thayer, 89 Franklin St., Boston, Architect.

MICHIGAN

KALAMAZOO.—Mrs. Sarah C. Dayton will erect a \$100,000 six to eight-story block at Main and Burdick Sts.

MONROE.—St. James' Catholic, St. Paul's Methodist and Zion's Lutheran churches will at once erect edifices.

MINNESOTA

DULUTH.—W. A. Hunt, Lonsdale Bldg., is preparing plans for three-story \$20,000 business block for W. M. Prindle & Co. Bray & Nystrom, Palladio Bldg., are preparing plans for \$15,000 residence for H. L. Palmer. Also \$5,000 residence for E. C. Bradley, of Fourth St.

Kelley & Lignell, Lonsdale Bldg., are preparing plans for nineteen-family apartment house.

ST. PAUL.—Swift & Co. will erect a \$50,000 four-story steel and concrete abattoir.

MISSISSIPPI

MERIDIAN.—Citizens will vote on \$50,000 bonds for erection of city hall. Cost, \$200,000. Also on \$25,000 for erection of primary public school.

MISSOURI

KANSAS CITY.—Kansas City Leather Novelty Co. will erect factory on Broadway. E. H. Earhart, President.

A. F. Haines will erect three-story hotel on Ninth St.

ST. JOSEPH.—H. A. Emmerson, President of the United States Packing Company of Chicago, with G. G. Everhard and W. A. Brown of the Brown Transfer Company, are considering purchase of site for erection of \$200,000 cold storage and warehouse.

ST. LOUIS.—St. Louis Country Club is considering erection of club house and other buildings at cost of \$250,000.

MONTANA

BOZEMAN.—Sealed proposals will be received by J. H. Baker, Vice-President of Executive Board of Montana Agricultural College, for erection of woman's dormitory building. F. F. Willson, Architect.

NEBRASKA

CRAIG.—Bids will be received until April 8 for erection of combined city hall, hose house and jail. R. F. Whitney, Village Clerk.

OMAHA.—Wise Memorial Hospital will erect \$25,000 addition to main building, Twenty-fifth Ave. and Harney St. Architect John Latenzer, Bee Bldg.

SIDNEY.—Citizens have voted \$75,000 bonds for erection of court house.

NEW JERSEY

BAYONNE.—Bids will be received until 8.30 p. m., April 14, for erection of School No. 11. R. C. Hutchinson, Architect. School Trustee W. H. Vreeland, Chairman Committee.

BELLEVILLE.—Christ Church is receiving sketches for church, parish house and rectory. Cost \$50,000. Rev. C. S. Abbot, Rector.

EAST ORANGE.—Plans by Ernest F. Guilbert, Supervising Architect Newark Board of Education, have been selected for erection of addition to high school. Cost, \$67,750.

ELIZABETH.—Committee of the Board of Freeholders which has under consideration question of erecting county tuberculosis pavilion will report favorably on proposition.

JERSEY CITY.—Hudson & Manhattan Railroad Company will shortly commence work on five one and two-story shops to be located on the block bounded by Steuben and Henderson Sts. Cost, \$150,000.

NEWARK.—First German-English Lutheran Church will at once erect \$50,000 edifice on Halsley St. Rev. O. E. Braune, Pastor.

NEWARK.—Pearce Bros. Manufacturing Co. will erect \$40,000 factory on Frelinghuysen Ave.

William E. Lehman, 738 Broad St., has drawn plans of the brick apartment house H. P. Cook will erect at 1090 Broad St. Cost, \$43,000.

Rizzolo & Gonnelli, 800 Broad St., have drawn plans of \$10,000 four-story brick building that S. Meyer will erect in Springfield Ave.

SOUTH ORANGE.—Purchase of plot on Academy St. for erecting new school is under consideration.

VINELAND.—Architect George E. Savage, Provident Building, Philadelphia, has been commissioned to design \$12,000 Colonial style building for Vineland Historical Society.

NEW MEXICO

CLOUDCROFT.—H. B. Stevens, Dr. H. E. Stevenson, Rev. Henry Easter, G. F. Hawks and F. B. Simmons are committee to head movement for a baby sanatorium.

Plans for \$100,000 hotel to be built by Southwestern System are being figured on.

ROSWELL.—\$50,000 two-story concrete store building will be erected by Rev. Mr. Allison, of Alpine. G. A. Trost, El Paso, Architect.

NEW YORK

BUFFALO.—A. L. Swett Electric Light & Power Co. will erect new fireproof building.

CORNING.—Baker & Hillman, 105 E. Market St., will erect large garage at E. Tioga Ave. and Wall Sts.

ELMIRA.—Cycle-Hatcher Co. will erect addition to plant on Upper Lake St.

HORNELL.—Plans will be drawn for \$50,000 Y. M. C. A. building on Center St. Stephen Holland, Chairman Building Committee.

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HORNELL.—Geo. Hollands will erect modern block on Main St.

JAMESTOWN.—Charles Samuel is considering erection of six or seven-story hotel.

LESTERSHIRE.—E. L. Baldwin will build large storehouse.

MT. VERNON.—Erection of city hall is under consideration. Alderman Hermes is interested.

NEWBURGH.—Citizens have appropriated \$18,000 for erection of fire house for Chapman Steamer Co.

NEW YORK.—Sun Construction Co. will erect twelve-story loft building at 151 W. Twenty-sixth St.

Plans have been filed by Schneidel & Diefenbach, 220 Broadway, Architects, for \$65,000 six-story brick warehouse at Greenwich and Twelfth Sts. Becker Realty Co., owner.

Bernstein & Bernstein, Architects, 24 E. Twenty-third St., have filed plans for \$65,000 six-story brick tenement, Thirteenth St. and Sixth Ave. Harbater & Silk, 117 E. Seventh St., owners.

NEW YORK.—O. B. Potter Trust, 71 Broadway, will erect 12-story brick loft, cost \$300,000, on Broadway. F. H. Kimball, 71 Broadway, Architect.

NEW YORK.—H. F. Keil, 401 East 163rd St., will erect \$15,000 dwelling on Creston Ave. C. A. Luppain, New Rochelle, Architect.

NEW YORK.—Plans have been filed by Gronenberg & Leuchtag, 7 W. Twenty-second St., Architects, for three six-story brick flats. Cost, \$200,000. C. H. & S. A. Construction Co., owner.

Plans filed by Gronenberg & Leuchtag, 7 W. Twenty-second St., for \$60,000 five-story brick tenement. Chas. Hensle Realty Co., owner.

W. A. Boring, 32 Broadway, has filed plans for four-story dwelling 14 E. Seventy-third St. Cost, \$40,000. Owner, Mrs. H. M. Spraker, 62 W. Forty-fifth St.

Neville & Bagge, 217 W. 125th St., have filed plans for five-story brick flat. Cost, \$50,000. Van Norden Cons. Co., owner.

NEW YORK.—Alexander M. Welch, Architect, has filed plans for W. W. & T. M. Hall for the erection of three five-story dwelling houses at 12 to 16 E. Eighty-sixth St. Cost, \$145,000.

Plans have been filed by C. B. Myers, Architect, 1 Union Square West, for two five-story brick flats for Simons Improvement Co., 277 Broadway, to be erected at Audubon Ave., northeast corner 175th St. Cost, \$100,000.

McKim, Mead & White, Architects, 160 Fifth Ave., have filed plans for six-story brick laundry, hospital, etc., at Twenty-ninth St., First Ave. and East River. Cost, \$2,750,000. Owner, the City.

Plans have been filed by C. A. Holmes, 25 W. Forty-second St., Architect, for five-story brick flat at Seventy-ninth St., east of Avenue A. Cost, \$50,000. Owner, T. E. Brigham, 530 W. 179th St.

Plans have been filed for two five-story brick flats at 184th St., west of Amsterdam Ave., by Neville & Bagge, Architects, 217 W. 125th St. Cost, \$160,000. West 184th Street Construction Co., 71 Nassau St., owner.

OSWEGO.—Plans are being prepared by the State Architect for erection of \$300,000 Normal School in this city.

OSWEGO.—Erection of \$50,000 school is being considered. School Commissioner Burleigh, Chairman, Committee on Plans.

ROCHESTER.—Mayor is considering City Hall site. Building cost \$1,000,000 or \$1,500,000.

SCHENECTADY.—School District No. 5 of Neskayuna has adopted plans for erection of school. O. O. Rider, Chairman, Board of School Trustees.

OHIO

DELAWARE.—Architect Joseph Dauben, Eberly Building, Columbus, has plans in course of preparation for a business block to be erected for Frank Bros.

Council is considering erection of \$20,000 engine house in Dayton View.

LIMA.—Architects are preparing plans and specifications for new Trinity Church to be submitted to committee March 29.

TOLEDO.—L. N. Poland, Cincinnati, will erect large theater in rear of Huron St. Geo. Metzger, city, is interested.

Plans have been prepared for erection of edifice for Forest Ave. for Church of St. Anne. Rev. J. H. Muehlenbeck, Pastor.

WEST ALEXANDRIA.—Citizens pass \$50,000 bond issue for erection of school.

OREGON

EUGENE.—Kroner & Henn, Fenton Bldg., Portland, are preparing plans for \$35,000 three-story brick building.

KLAMATH FALLS.—Odd Fellows will erect three-story \$40,000 temple corner of Main and Fifth Sts.

PORTLAND.—I. G. Major will erect large apartment house at corner of E. Eighth and E. Couch Sts.

PORTLAND.—John S. Beall and L. F. Weaver will erect a six-story reinforced concrete warehouse at E. Morrison and E. First Sts.

A. F. Peterson will erect, for S. B. Parker, at Twenty-first and Irving Sts., a \$65,000 four-story brick apartment.

OKLAHOMA

ARDMORE.—J. B. White, Architect, advertises for bids for \$20,000 Confederate Home building.

ENID.—Erection of ten-story office building is being considered. J. F. Kroutil, Yukon, Secretary Yukon Milling Co., is interested.

MUSKOGEE.—Judge C. W. Raymond will erect modern business block on Broadway. Plans prepared.

C. A. Thilo will at once erect two-story concrete factory building on S. Cherokee St.

OKLAHOMA CITY.—Work will commence at once on erection of proposed ten-story hotel at corner of Main St. and Broadway. Tams Bixby, Chairman Special Committee.

C. P. Crane & F. A. Burlingame will erect \$38,000 building on Second St.

PENNSYLVANIA

ALTOONA.—Architects Sholler & Hersch will prepare plans for erection of \$45,500 school building in Tenth Ward.

ALTOONA.—Otto Klein, 1323 Eleventh Ave., will erect business building on Eleventh Ave.

MUNCY.—Sprout, Waldron & Co. will erect large office building.

PERKASIE.—Directors of the First National Bank have decided to erect a modern building.

PHILADELPHIA.—Architect Frank Seeburger is designing a \$25,000 hotel at corner of Eighth and Callowhill Sts. for Charles F. Eberle.

PHILADELPHIA.—School to be erected at Eighth and York Sts. for St. Edward the Confessor's Church. H. D. Dagit, 411 Walnut St., Architect. Cost, \$122,000.

Plans for five-story bank building in Reading for Bucks County Trust Co. are posted for estimate in offices of Charles McCaul Co. and Stacy Reeves & Sons.

Harry H. Wehmeyer has plans by Stearns & Castor for \$60,000 addition to plant of Quaker City Chocolate & Confectionery Co., in Germantown.

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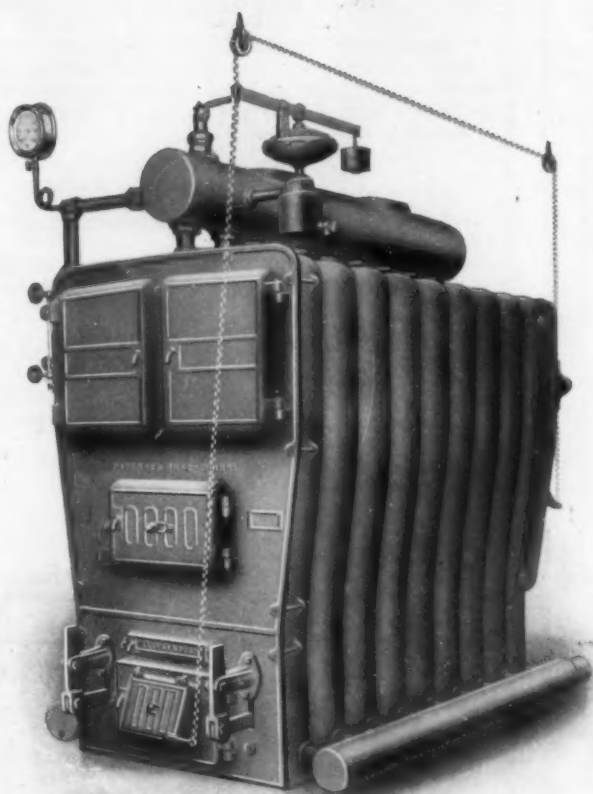


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TEXAS

AUSTIN.—Citizens have voted \$75,000 school bonds.

AUSTIN.—Governor has requested superintendents of the insane asylum to obtain plans and specifications for construction of wards for the negro insane.

BEAUMONT.—Plans by Wallar, Shaw & Fields, Fort Worth, have been accepted for erection of three schools. Bids will be received about April 15. A. Babin, Supervisor of Construction.

COLORADO.—Board of School Trustees will issue bonds for erection of high school.

FORNEY.—Thos. Pinson will rebuild building destroyed by fire.

LAREDO.—Election to vote on \$15,000 school bonds will be held April 30.

MATHIS.—\$10,000 bond issue passed for erection of schools.

SAN ANTONIO.—Ed. Rand will erect sixteen-story steel building for department store.

WEST.—Contract will be let at once for erection of proposed school.

UTAH

LOGAN.—Cache County Commissioners are urging \$150,000 bond issue for erection of school buildings.

SALT LAKE CITY.—Anderson-Taylor Co. will erect \$25,000 warehouse and office building on Fifth West St.

VIRGINIA

MANASSAS.—\$30,000 donation received by Eastern College for erection of girls' dormitory.

PORTSMOUTH.—Seaboard Air Line Railway will rebuild structures destroyed by fire with loss of \$35,000.

ST. PAUL.—Lewis & Burnham, Architects, are drawing plans for \$15,000 parish house of St. Paul's Episcopal Church.

WASHINGTON

EVERETT.—Church of Christ will erect \$12,000 edifice at corner of Wall and Oakes Sts.

EVERETT.—E. M. Stephens proposes to erect business block on Hewitt Ave.

SEATTLE.—Chas. Haynes, Architect, Mehlborn Bldg., is drawing plans for \$16,000 brick store and hotel.

Thompson & Thompson, Architects, Maynard Bldg., are drawing plans for \$15,000 two-story apartment house for J. M. Jorguson; also \$16,000 three-story frame apartment building for H. Waxman.

SPOKANE.—C. C. Deatrick will erect \$20,000 apartment house on Maxwell Ave.

TACOMA.—Chicago, Milwaukee & Puget Sound R. R. will erect passenger station on Pacific Ave.

WEST VIRGINIA

CHARLESTON.—Architect W. T. Mills, McCune Building, Columbus, O., has prepared plans for erection of two residences in this city for G. F. Couch.

FULTON.—Catholics of Edgewood and Fulton are interested in proposed erection of church.

HUNTINGDON.—Mayor Jas. Holley, Charleston, and Robert Armstrong, city, have had plans prepared for erection of \$500,000 business block at Fourth Ave. and Eighth St.

LYNCHBURG.—McLaughlin, Pettit & Johnson are drawing plans for \$6,000 residence for W. M. Stokes.

WISCONSIN

ANTIGO.—E. S. Rayworth has had plans prepared for erection of \$40,000 building.

ANTIGO.—Langlade County Board have authorized the Public Property Committee to secure plans for remodeling of old jail and building of a fireproof addition to old structure. Cost \$10,000.

BELOIT.—Mrs. Ella D. Adams is planning to erect four-story business block at Grand Ave. and Fourth St.

CRANDON.—Bids will be received until April 6 for erection of \$20,000 jail and sheriff's residence. J. M. Whisenant, Secretary Building Commission.

MILWAUKEE.—Architects Leiser & Holst, Germania Bldg., are preparing plans for three-family, three-story flat building to be erected on Twenty-seventh St. for H. Behling. Cost about \$8,000.

NEENAH.—Island Baptist Church will erect \$25,000 church.

SHIOCTON.—School District No. 1 has decided to erect large addition to school house.

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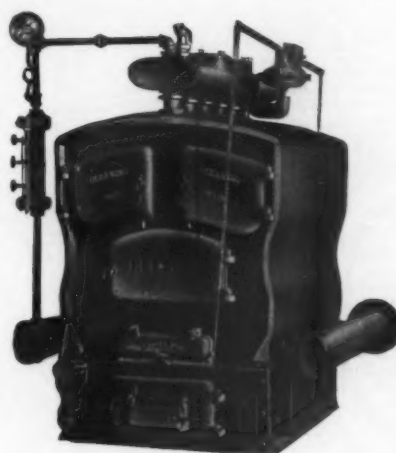
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WANTED—An experienced and competent architectural draughtsman, able to make complete working drawings from pencil sketches. Specifications, writing or perspective rendering not required. Send samples of work together with statement of experience, salary required, age, etc. C. Emlen Urban, Architect, Woolworth Building, Lancaster, Pa. (1785-T.F.)

WANTED—A good general draughtsman, at once; able to work up complete working plans from rough sketches and to detail. Perspective rendering not required. State experience and salary wanted. Jones & Furbringer, Architects, Memphis, Tenn. (1787-8-9)

WANTED—One first-class draughtsman, able to furnish set complete in all its parts from rough pencil sketches, and good in design. Need not be able to render in perspective. Send sample of work at once, same to be returned promptly after inspection. State age and salary required. Fremont D. Orr, Architect, Minneapolis, Minn. (1788-9-90)

WANTED—Immediately, competent draftsman for general office work, whose training and interest follow along structural and mechanical lines, rather than aesthetic. Address, in own handwriting, stating age, experience, and salary expected. Claude Bragdon, 415 Cutler Bldg., Rochester, N. Y. (1788)

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The Committee on Homes of the Grand Lodge F. & A. M. of Pennsylvania will build at Elizabethtown a Home for aged and infirm members and wives, widows and children of members of the Fraternity. Some eighty buildings may ultimately be required and to procure a general plan and an architect to execute initial constructions costing about \$350,000, the Committee will hold a competition open to architects of good professional standing and mature experience. Three will be especially invited and paid \$800 each and to the three others rated highest by the jury will be paid each a like fee. The Committee's professional adviser is Professor Warren F. Laird, of the University of Pennsylvania who, with two other architects to be chosen by the competitors will constitute the jury. The competition will close June 18, 1910. Admission will be by invitation only, extended to approved architects. Applications are to be made upon blank forms to be obtained from Hon. George W. Guthrie, Grand Master, Masonic Temple, Philadelphia, Pa. (1788-9)

PROPOSALS

Treasury Department, Office of the Supervising Architect, Washington, D. C., March 16, 1910.—Sealed proposals will be received at this office until 3 o'clock P. M. on the 25th day of April, 1910, and then opened, for the extension, etc., except elevator (including plumbing, gas piping, heating apparatus, electric conduits and wiring) of the United States Post Office at Kansas City, Kan., in strict accordance with drawings and specifications, copies of which may be obtained from the Custodian at Kansas City, Kan., or at this office at the discretion of the Supervising Architect.—James Knox Taylor, Supervising Architect. (1787-8)

Treasury Department, Office of the Supervising Architect, Washington, D. C., March 14, 1910.—Sealed proposals will be received at this office until 3 o'clock P. M. on the 19th day of April, 1910, and then opened, for the construction (including plumbing, heating apparatus, electric conduits and wiring), of the U. S. Post Office at Concord, N. C., in accordance with drawings and specifications, copies of which may be had from the Custodian of site at Concord, N. C., or at this office at the discretion of the Supervising Architect.—James Knox Taylor, Supervising Architect. (1787-8)

The City of Milwaukee proposes to erect a Central Police Station and Criminal Court Building.

An invitation is hereby extended to architects to enter a competition for the selection of an architect for said building.

A program of the competition, approved by the American Institute of Architects, may be had upon application to W. Carby Zimmerman, Professional Advisor and Chairman of the Jury of Award, 1101 Steinway Hall, Chicago, Ill., on or after March 21, 1910. (1787)

Treasury Department, Office of the Supervising Architect, Washington, D. C., March 15, 1910.—Sealed proposals will be received at this office until 3 o'clock P. M. on the 20th day of April, 1910, and then opened, for the construction (including plumbing, gas piping, heating apparatus, electric conduits and wiring) of the United States Post Office at Greencastle, Ind., in accordance with the drawings and specification, copies of which may be obtained from the Custodian of site at Greencastle, Ind., or at this office at the discretion of the Supervising Architect.—James Knox Taylor, Supervising Architect. (1787-8)

NOTICE TO CONTRACTORS.

Sealed proposals for construction complete, including heating, plumbing, electric work and gas piping, for new building for State Normal School at Oswego, N. Y., will be received by Dr. Andrew S. Draper, Commissioner of Education, Capitol, Albany, N. Y., until 3 p. m., on the 26th day of April, 1910, when they will be opened and read publicly.

Proposals shall be accompanied by certified check in the sum of \$15,000 and the contractor to whom the award is made will be required to furnish Surety Company's bond in the sum of \$150,000 within thirty days after notice of award of contract and in accordance with the terms of specification No. 1336. The right is reserved to reject any and all bids.

After April 1st, 1910, drawings and specifications may be consulted and blank forms of proposal obtained at the State Normal School, Oswego, N. Y., and at the office of the State Architect. Complete sets of plans and specifications will be furnished, in the discretion of the State Architect, to prospective bidders, provided written application for same is filed in his office on or before the 15th day of April, 1910, accompanied by a deposit of \$20, this deposit to be forfeited to the State if the plans and specifications are not returned in good condition.

FRANKLIN B. WARE,
State Architect,
Capitol, Albany, N. Y.

Treasury Department, Office of the Supervising Architect, Washington, D. C., March 22, 1910.—Sealed proposals will be received at this office until 3 o'clock p. m., on the 4th day of May, 1910, and then opened, for the construction (including plumbing, gas piping, heating apparatus, electric conduits and wiring and standard clock system) of an extension, remodeling, etc., to the U. S. Post Office and Court House at Charleston, West Virginia, in accordance with drawings and specification, copies of which may be obtained from the Custodian, or at this office at the discretion of the Supervising Architect.—James Knox Taylor, Supervising Architect. (1788-9)

Treasury Department, Office of the Supervising Architect, Washington, D. C., March 22, 1910.—Sealed proposals will be received at this office until 3 o'clock p. m., on the 5th day of May, 1910, and then opened, for the construction of the foundation, the basement and first floors for the extension, remodeling, etc., of the U. S. Custom House, Boston, Mass., in accordance with the drawings and specification, copies of which may be had at this office or at the office of the architects, Messrs. Peabody & Stearns, 53 State Street, Boston, Mass., at the discretion of the Supervising Architect. Applications must be accompanied by a certified check for \$200 which will be held at this office until the return of the drawings and specification.—James Knox Taylor, Supervising Architect. (1788-9)

Treasury Department, Office of the Supervising Architect, Washington, D. C., March 18, 1910.—Sealed proposals will be received at this office until 3 o'clock p. m., on the 29th day of April, 1910, and then opened, for the construction, complete (including plumbing, gas piping, heating apparatus, electric conduits and wiring) of the U. S. Post Office at Newnan, Georgia, in accordance with drawings and specification, copies of which may be obtained from the Custodian of site at Newnan, Ga., or at this office at the discretion of the Supervising Architect.—James Knox Taylor, Supervising Architect. (1788-9)

Treasury Department, Office of the Supervising Architect, Washington, D. C., March 18, 1910.—Sealed proposals will be received at this office until 3 o'clock p. m., on the 2d day of May, 1910, and then opened, for the construction (including plumbing, gas piping, heating and ventilating apparatus, electric conduits and wiring and standard clock system) of the U. S. Post Office at Lander, Wyoming, in strict accordance with drawings and specification, copies of which may be had from the custodian of site at Lander, Wyo., or at this office at the discretion of the Supervising Architect.—James Knox Taylor, Supervising Architect. (1788-9)

Treasury Department, Office of the Supervising Architect, Washington, D. C., March 17, 1910.—Sealed proposals will be received at this office until 3 o'clock p. m., on the 26th day of April, 1910, and then opened, for the construction (including plumbing, gas piping, heating apparatus, electric conduits and wiring) of the U. S. Post Office at Rochester, Minn., in accordance with the drawings and specification, copies of which may be had from the Custodian of site at Rochester, Minn., or at this office at the discretion of the Supervising Architect.—James Knox Taylor, Supervising Architect. (1788-9)

Treasury Department, Office of the Supervising Architect, Washington, D. C., March 26, 1910.—Sealed proposals will be received at this office until 3 o'clock p. m., on the 11th day of May, 1910, and then opened, for metal vault shelving for the U. S. Post Office, Court House and Custom House at Tacoma, Washington, in accordance with drawings and specification, copies of which may be had at this office or at the office of the Superintendent of Construction at the building, at the discretion of the Supervising Architect.—James Knox Taylor, Supervising Architect. (1788-9)

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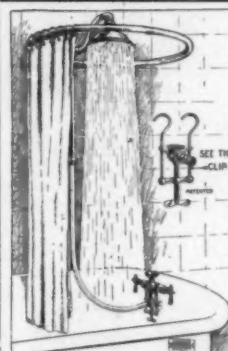
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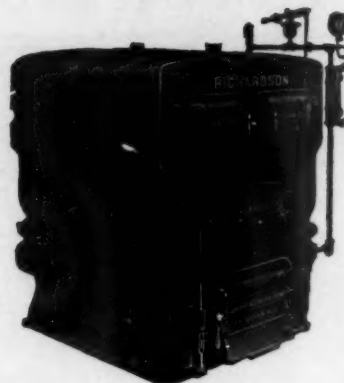
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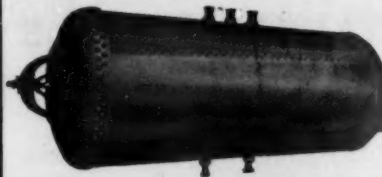
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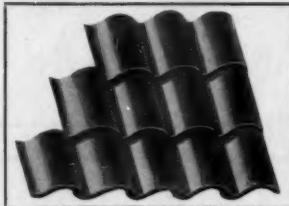
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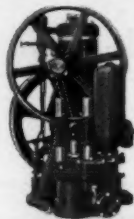
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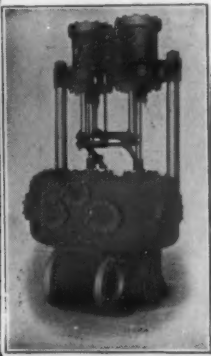
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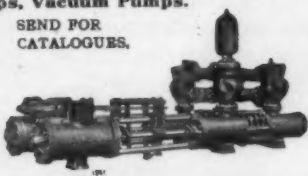




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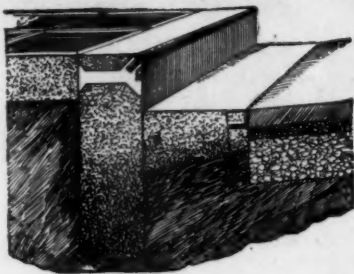
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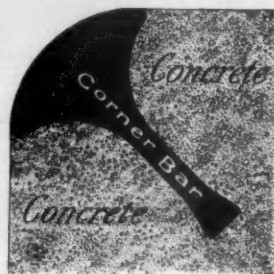
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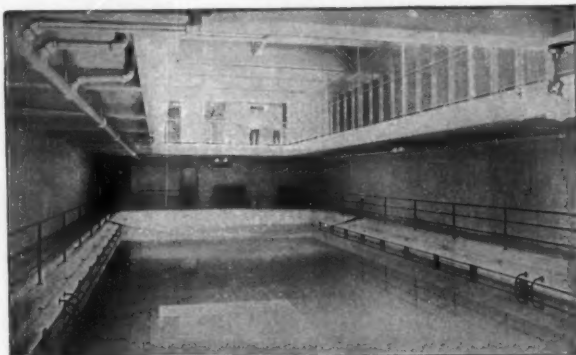
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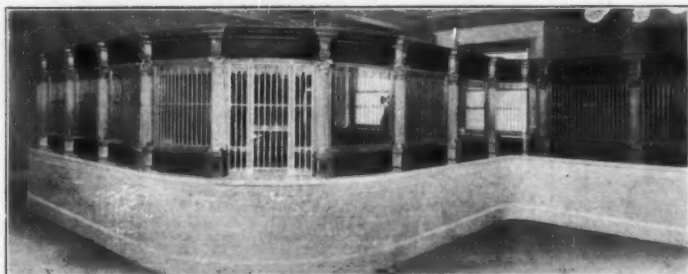
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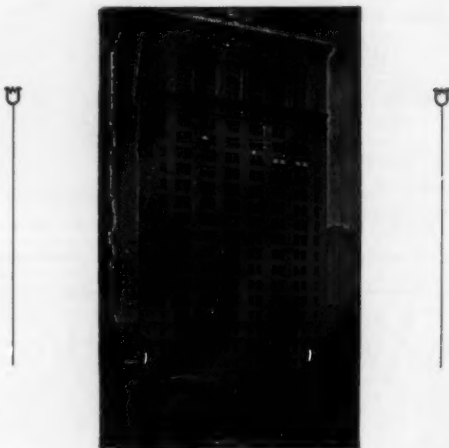
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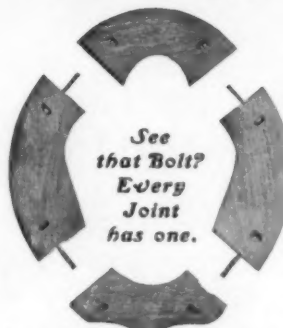


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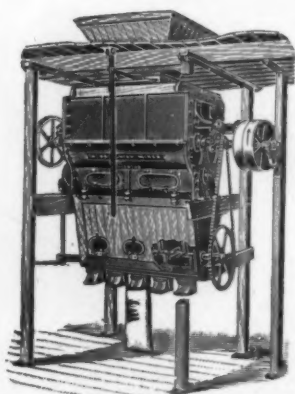
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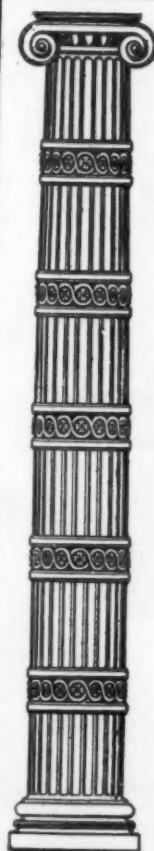


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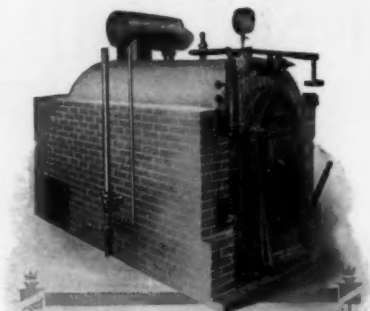
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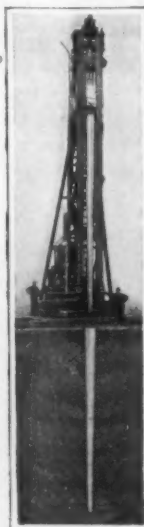


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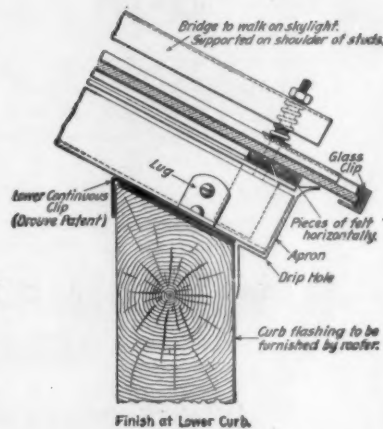
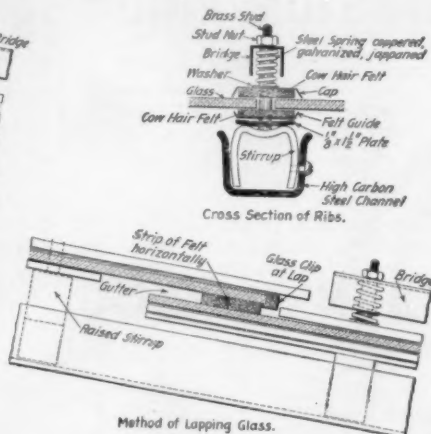
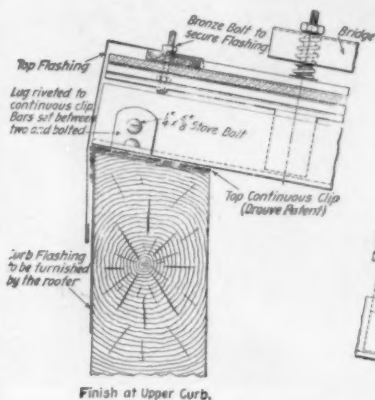
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have no dirt-catching, disease-breeding cracks and crevices. The tanks are absolutely water proof without lining, therefore have nothing to corrode. They will not sweat. As this material cannot water-soak, the tanks do not become heavier, and cannot warp, swell or shrink, and throw the inside fittings out of adjustment.

J-M SEATS AND HIGH AND LOW TANKS are furnished complete with fittings in mahogany, oak and white enamel. The graining is so natural that only an expert can detect them from wood.

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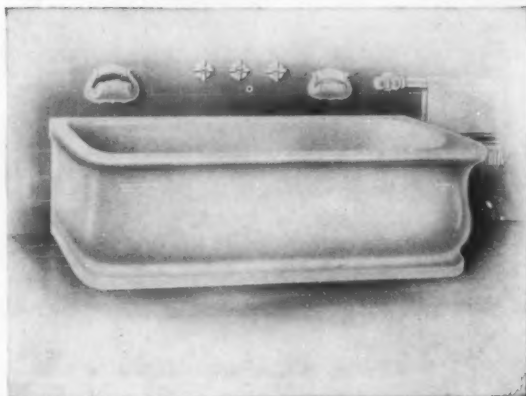


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A New Feature in the Bath
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Bathtub on Base

No exposed nickel to become tarnished and therefore polished. The supplies are all china knobbed and the outlet is through the back at center of tub.

Tiled in a wall, making easy cleaning and no danger of dirt collecting behind tub.

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"Ideal" Solid Porcelain Ware and "Impervio" Vitreous China are acknowledged to be the very best fixtures obtainable, being made of solid clay throughout and further strengthened by the glazed surface.

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A CORRBAR unit is the complete reinforcement for a reinforced concrete beam or girder completely assembled in a rigid unit.

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They are absolutely self-positioning; it is impossible to so place them in the forms that any of the reinforcing members will be out of place.

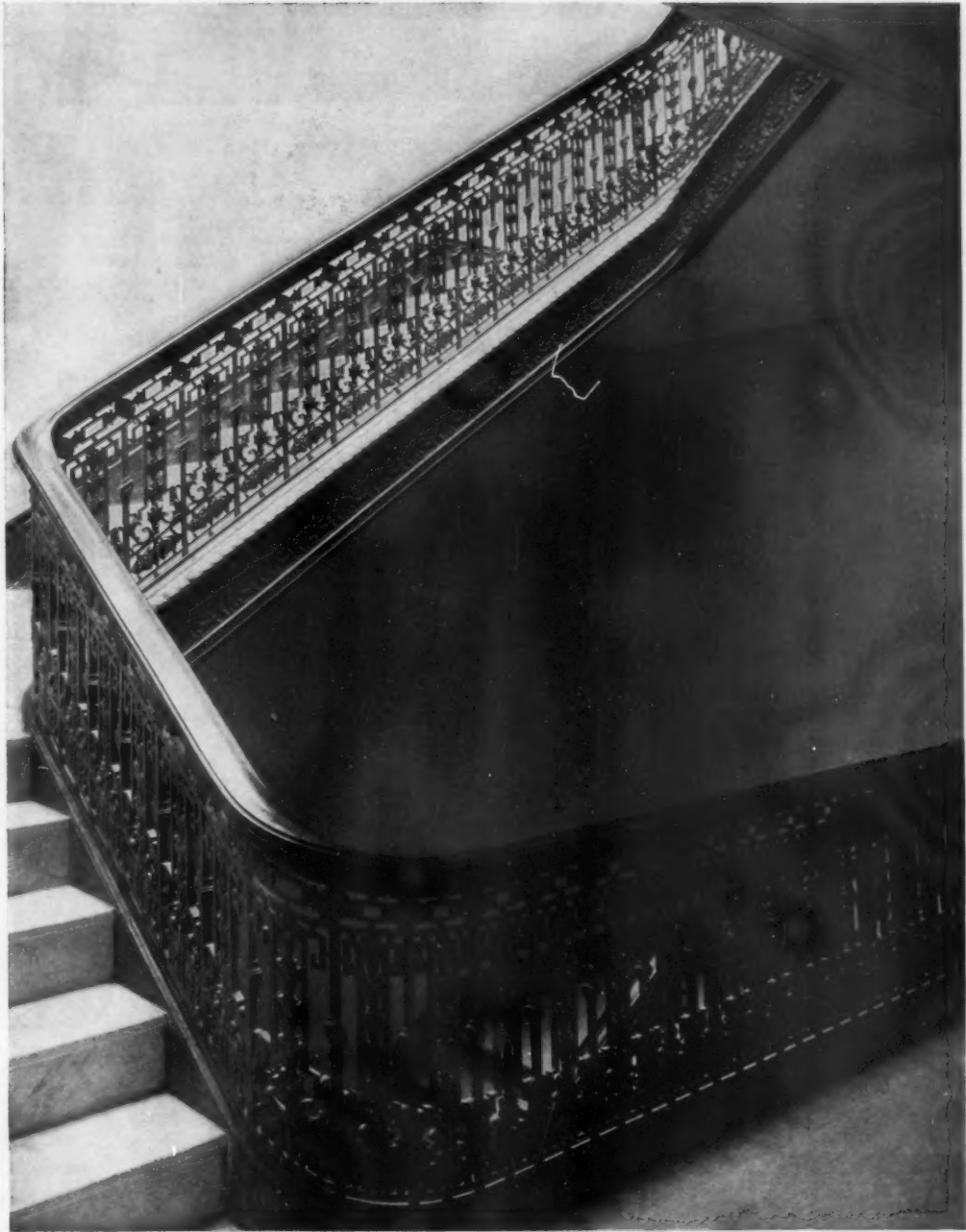
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They cost less—in place in the forms—than any method or system using loose bars.

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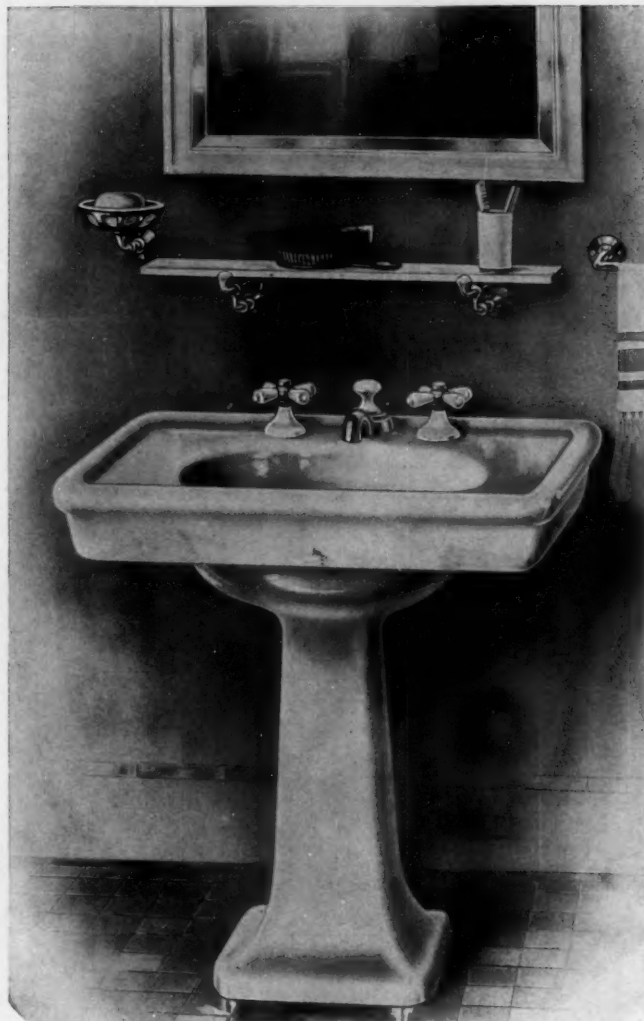
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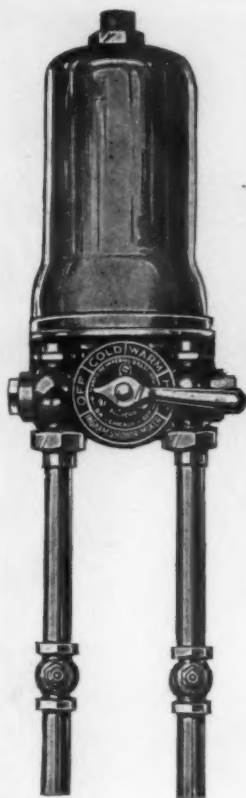
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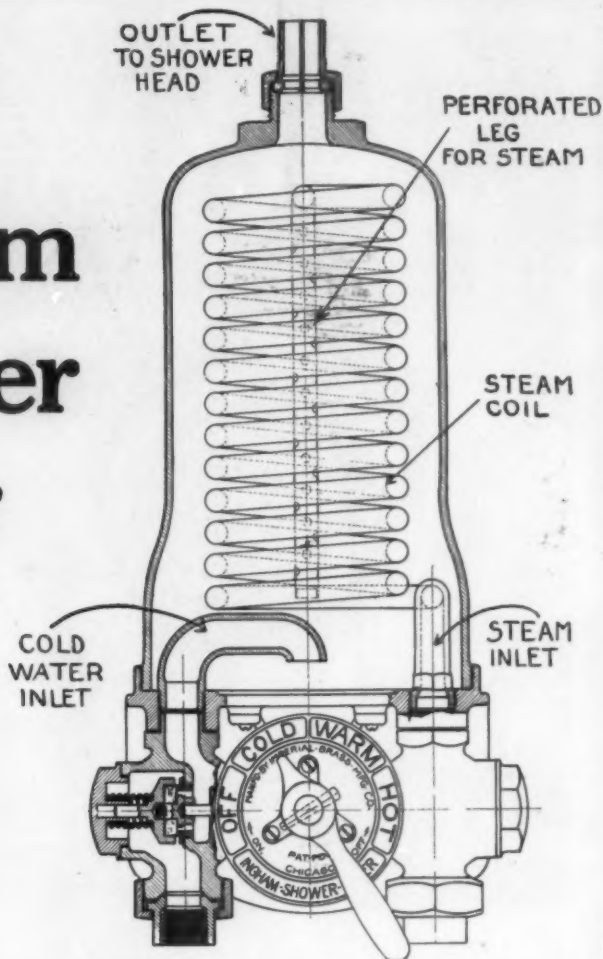
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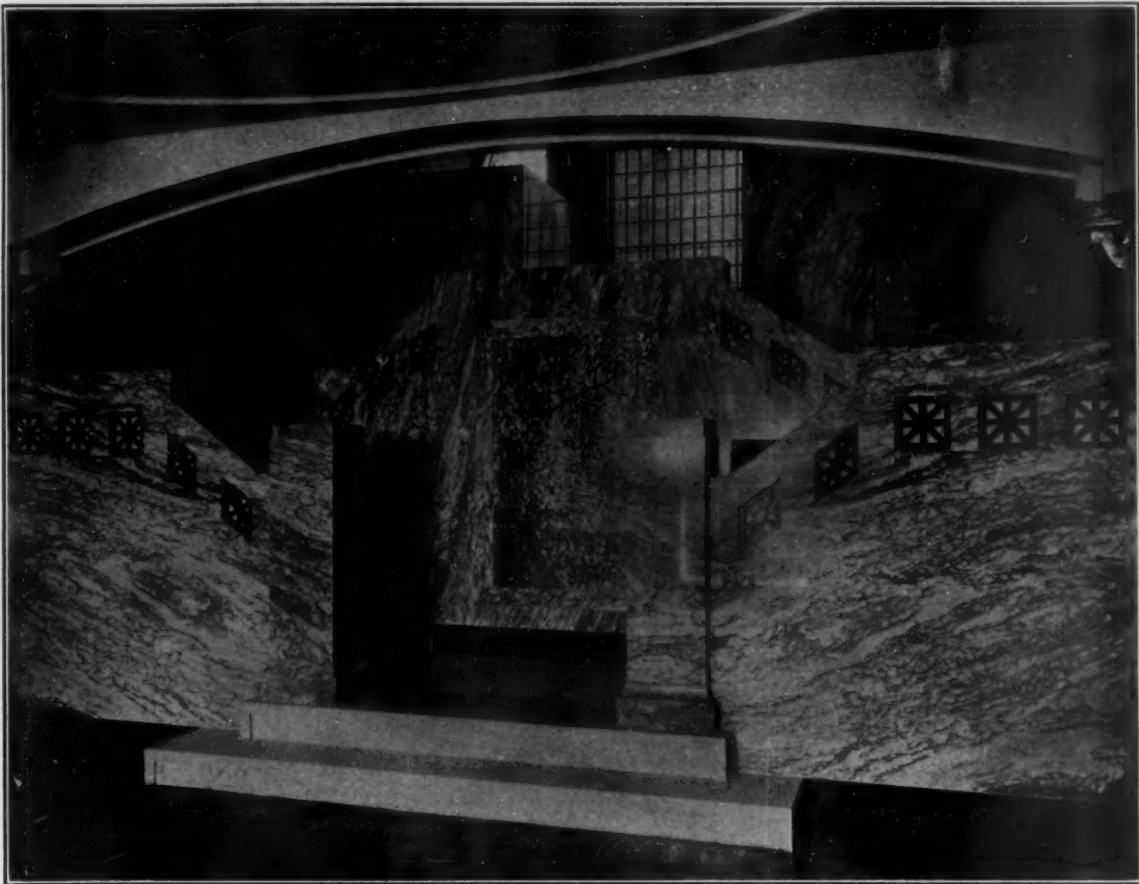
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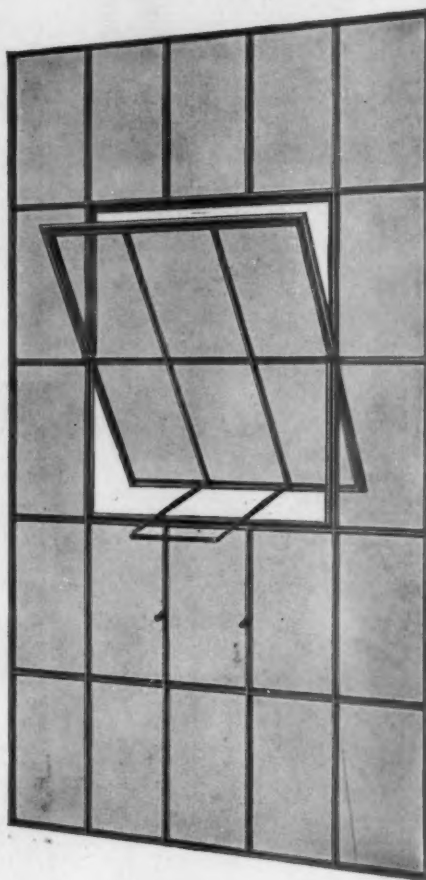
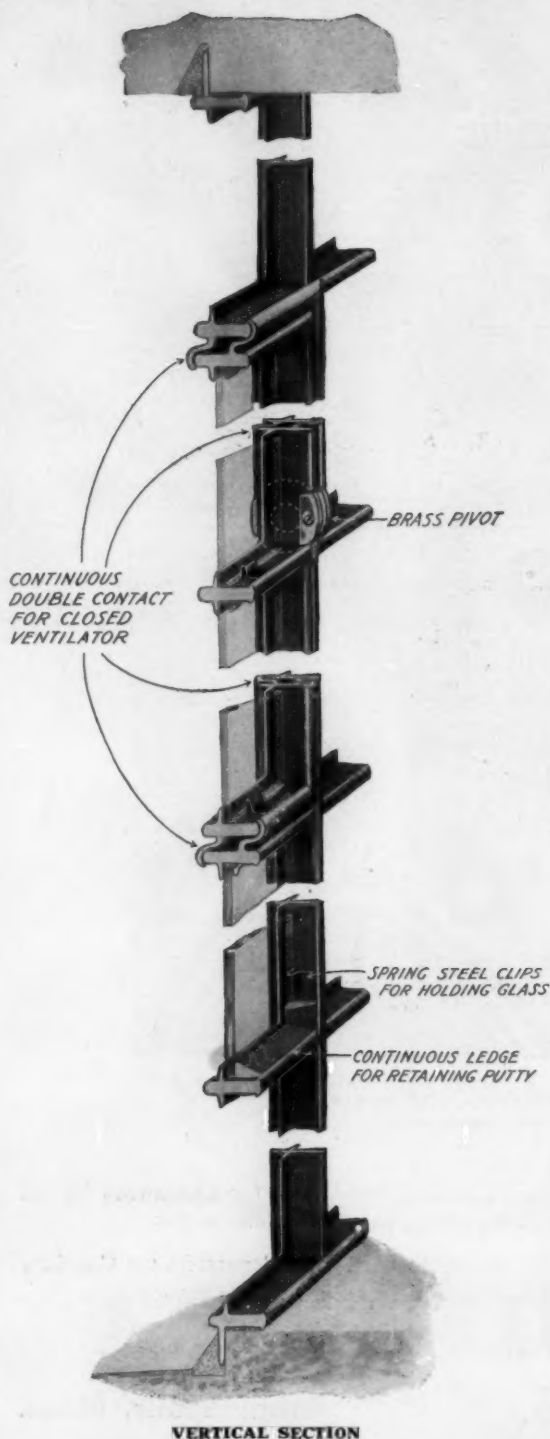
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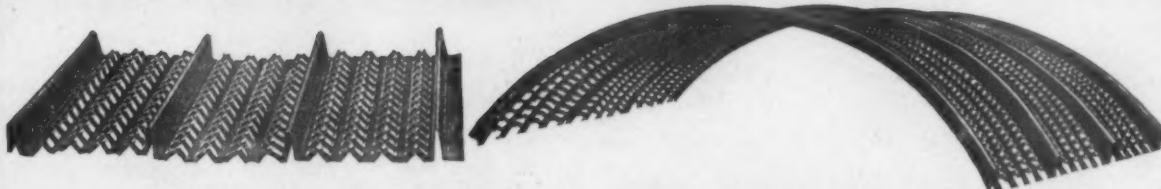
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